

Service Gateway Database Guide

Release 4.3.2

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Service Gateway is covered by one or more of the following patents. U.S. Patent Nos. 5,996,073; 6,158,001; 6,163,859; 6,167,358; 6,266,788; 6,442,684; 6,754,707; 7,010,693 and 7,610,575. Other Patents Pending.

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Introduction

This reference guide contains detailed descriptions of the tables, indexes and constraints that comprise the Service Gateway database schema for Release 4.3.2. It also provides instructions for partitioning historical tables to manage these tables more efficiently, as well as guidance for the creation of a data backup and recovery plan.

It is intended for use by database administrators, report writers and integration developers.

What's new in 4.3.1

Support for reference partitioning was added in the 4.3.1 release. Details can be found in [Chapter 3](#).

There were no tables added or removed as part of this release. Several minor schema changes were made to existing tables:

- A column named SKIPPED_DELAY_TIME was added to SPRT_SG_POLICY.
- A column named STATUS_TIMESTAMP was added to SPRT_SG_POLICY_DEVICE.
- An indexed column named STATUS_TIMESTAMP was added to SPRT_SG_POLICY_DEVICE_HOLD.
- The constraint SPRT_EC_SERVER_IDX2 was dropped from SPRT_EC_SERVER, allowing server records to exist with the same IP and port.

What's new in 4.3.2

One new table was added as part of the 4.3.2 release:

- A table named SPRT_SG_ACT_CWMP_DM_I to hold the configuration for the CWMP Data Model Capabilities Discovery action. This configuration consists of the option to either walk the parameter tree or not, when discovering the parameters present on the device. This is a critical configuration table and must be part of a routine backup and recovery plan.

No tables were removed for the 4.3.2 release.

A few minor schema changes were made to existing tables:

- A column named TRANSFORM_SCRIPT was added to two tables: SPRT_EC_SYSTEM_KEY and SPRT_SG_CWMPPARAM_MAP.
- A column named TRANSFORM_TEST_VALUE was added to two tables: SPRT_EC_SYSTEM_KEY and to SPRT_SG_CWMPPARAM_MAP.
- A column named PROBE_METHOD was added to SPRT_SG_ACT_DMT_I.

Chapter 1 Data Dictionary

This chapter provides descriptions of each database table, along with the indexes, inbound and outbound constraints associated with the table.

SPRT_EC_AD

This table contains a record for each domain defined in the system, including the root domain of a realm, which is automatically created when a realm is added.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Test for ID.
PARENT_ID	NUMBER(9)	NULL	Yes	NULL is only valid in parent_id for the AD record that represents the root ("/"). Although the hierarchy can be determined from the fully qualified AD.Name, the hierarchy is also kept via this column for efficiency in querying.
LINEAGE	NVARCHAR2(512)	NULL	Yes	A '/'-delimited set of ancestor administrative domain IDs.
DEPTH	NUMBER(3)	0	Yes	The depth of this admin domain in the heirarchy.
NAME	NVARCHAR2(400)		No	The fully qualified administrative domain name (ie "/Corp/Lab").
DESCRIPTION	NVARCHAR2(256)	NULL	Yes	A description.
APPLICATION_DEFAULT	CHAR(1)	'N'	No	Indicates whether or not this is the application default for the realm.
EC_REALM_GUID	VARCHAR2(36)		No	The realm that this administrative domain belongs to.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_AD_IDX1	UNIQUE	NAME, EC_REALM_GUID
SPRT_EC_AD_IDX2	NORMAL	PARENT_ID
SPRT_EC_AD_IDX3	NORMAL	EC_REALM_GUID
SPRT_EC_AD_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_AD_FK1	PARENT_ID	SPRT_EC_AD	NO ACTION
SPRT_EC_AD_FK2	EC_REALM_GUID	SPRT_EC_REALM	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_NETBLOCK_FK2	SPRT_EC_NETBLOCK	EC_AD_ID	CASCADE
SPRT_EC_FILESERVER_AD_XREF_FK2	SPRT_EC_FILESERVER_AD_XREF	EC_AD_ID	CASCADE
SPRT_EC_DEVICE_FK3	SPRT_EC_DEVICE	EC_AD_ID	NO ACTION
SPRT_EC_ADMINDOMAIN_ATTR_FK2	SPRT_EC_ADMINDOMAIN_ATTR	OBJECT_ID	CASCADE
SPRT_EC_AD_FK1	SPRT_EC_AD	PARENT_ID	NO ACTION

SPRT_EC_ADMINDOMAIN_ATTR

This table maintains the attributes and values associated with a domain.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
ATTR_DEF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_ATTR_DEF.GUID.
OBJECT_ID	NUMBER(9)		No	Foreign key to SPRT_EC_AD.ID.
ATTR_INDEX	NUMBER(5)		No	Index for arrays of complex attributes. For simple attributes, this value is 0.
ATTR_VALUE	NVARCHAR2(1333)		Yes	The value of the attribute.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_ADMINDOMAIN_ATTR_IDX1	NORMAL	OBJECT_ID
SPRT_EC_ADMINDOMAIN_ATTR_IDX2	NORMAL	ATTR_DEF_GUID
SPRT_EC_ADMINDOMAIN_ATTR_PK	UNIQUE	GUID
SPRT_EC_ADMINDOMAIN_ATTR_UK	UNIQUE	ATTR_DEF_GUID, OBJECT_ID, ATTR_INDEX

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_ADMINDOMAIN_ATTR_FK2	OBJECT_ID	SPRT_EC_AD	CASCADE
SPRT_EC_ADMINDOMAIN_ATTR_FK1	ATTR_DEF_GUID	SPRT_EC_ATTR_DEF	NO ACTION

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_AGENT

List of Remote Agents (primarily used for SNMP communications to devices) registered with the system.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.
EC_AGENT_GROUP_ID	NUMBER(9)	NULL	Yes	The Agent Group this agent belongs to.
NAME	NVARCHAR2(256)		No	Unique agent name.
VERSION	NVARCHAR2(64)	NULL	Yes	Long agent version.
LAST_HEARTBEAT_TIME	DATE	NULL	Yes	Last time at which the agent has indicated that it is still active.
START_TIME	DATE	NULL	Yes	First registered time.
NETWORK_CONFIG	NUMBER(1)	NULL	Yes	0 = ALL, 1 = NONE, 2 = OTHER. See ENCORE_AGENT_NETWORK.
IS_OVERRIDING	CHAR(1)	'N'	No	If 'N', the networks associated with the Agent Group are used. If 'Y', the networks for this Agent are overridden.
STATUS	NUMBER(2)		No	0 = Online, 1 = Offline, 2 = Incompatible Version.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.

Field Name	Type	Default	Nullable	Description
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_AGENT_IDX1	UNIQUE	NAME
SPRT_EC_AGENT_IDX2	NORMAL	EC_AGENT_GROUP_ID
SPRT_EC_AGENT_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_AGENT_FK1	EC_AGENT_GROUP_ID	SPRT_EC_AGENT_GROUP	NO ACTION

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_JOB_STATUS_HIST_FK2	SPRT_EC_JOB_STATUS_HIST	EC_AGENT_ID	SET NULL
SPRT_EC_JOB_STATUS_FK2	SPRT_EC_JOB_STATUS	EC_AGENT_ID	SET NULL
SPRT_EC_JOB_FK1	SPRT_EC_JOB	EC_AGENT_ID	SET NULL
SPRT_EC_AGT_NET_XREF_FK1	SPRT_EC_AGT_NET_XREF	EC_AGENT_ID	CASCADE
SPRT_EC_AGENT_JOB_XREF_FK1	SPRT_EC_AGENT_JOB_XREF	EC_AGENT_ID	CASCADE

SPRT_EC_AGENT_GROUP

A group of agents that share network configuration.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.
NAME	NVARCHAR2(256)		No	Unique agent group name.
NETWORK_CONFIG	NUMBER(1)		No	0 = ALL, 1 = NONE, 2 = OTHER. See ENCORE_AGENT_NETWORK.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.

Field Name	Type	Default	Nullable	Description
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_AGENT_GROUP_IDX1	UNIQUE	NAME
SPRT_EC_AGENT_GROUP_PK	UNIQUE	ID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_GROUP_JOB_XREF_FK1	SPRT_EC_GROUP_JOB_XREF	EC_AGENT_GROUP_ID	CASCADE
SPRT_EC_AGT_GRP_NET_XREF_FK1	SPRT_EC_AGT_GRP_NET_XREF	EC_AGENT_GROUP_ID	CASCADE
SPRT_EC_AGENT_FK1	SPRT_EC_AGENT	EC_AGENT_GROUP_ID	NO ACTION

SPRT_EC_AGENT_JOB

This table holds the job configuration specific to Agent Jobs.

Field Name	Type	Default	Nullable	Description
EC_JOB_ID	NUMBER(9)		No	The job this agent job extends.
INIT_ORDER	NUMBER(3)		No	Initialization Order of the job.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_AGENT_JOB_PK	UNIQUE	EC_JOB_ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_AGENT_JOB_FK1	EC_JOB_ID	SPRT_EC_JOB	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_AGENT_JOB_PARAM

This table holds the configuration parameters for the agent jobs.

Field Name	Type	Default	Nullable	Description
EC_JOB_ID	NUMBER(9)		No	The job that this parameter is associated with.
NAME	NVARCHAR2(64)		No	Unique parameter name.
VALUE	NVARCHAR2(256)		No	Parameter value.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_AGENT_JOB_PARAM_IDX1	NORMAL	EC_JOB_ID
SPRT_EC_AGENT_JOB_PARAM_PK	UNIQUE	EC_JOB_ID, NAME

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_AGENT_JOB_PARAM_FK1	EC_JOB_ID	SPRT_EC_JOB	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_AGENT_JOB_XREF

This table holds the associations between agents and jobs.

Field Name	Type	Default	Nullable	Description
EC_AGENT_ID	NUMBER(9)		No	The Agent.
EC_JOB_ID	NUMBER(9)		No	The Job associated with the Agent.

Indexes

Name	Type	Columns
SPRT_EC_AGENT_JOB_XREF_IDX1	NORMAL	EC_AGENT_ID
SPRT_EC_AGENT_JOB_XREF_IDX2	NORMAL	EC_JOB_ID
SPRT_EC_AGENT_JOB_XREF_PK	UNIQUE	EC_AGENT_ID, EC_JOB_ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_AGENT_JOB_XREF_FK1	EC_AGENT_ID	SPRT_EC_AGENT	CASCADE
SPRT_EC_AGENT_JOB_XREF_FK2	EC_JOB_ID	SPRT_EC_JOB	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_AGENT_NETWORK

This table will contain any manually configured networks for specific agents. If the `networks_used` field in the agent table is populated with the value "Special", the configured networks associated to that agent will be inserted into this table. This table is only used for agents with particular network entries. The values "All" and "None" are not represented.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary key.
IP_TYPE	NUMBER(1)		No	Specifies which of the following fields are significant. 1 = IP Address, 2 = IP Range, 3 = CIDR.
BASE_IP_ADDRESS	VARCHAR2(39)		No	The column is used as the first IP address in either an IP range or CIDR network.
END_IP_ADDRESS	VARCHAR2(39)	NULL	Yes	If this record describes an IP range, this column will represent the ending IP address of the range, and <code>CIDR_BITS</code> will be null.

Field Name	Type	Default	Nullable	Description
CIDR_BITS	NUMBER(3)	NULL	Yes	If this record describes a CIDR network, this column will represent the number of bits (out of the 32 bits in the binary representation of an IPv4 address) that signify the network size. I.e. For CIDR network "10.10.1.0/24", this column would hold "24". If this column is populated, ENDING_IP_ADDRESS will be null.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_AGENT_NETWORK_PK	UNIQUE	ID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_AGT_NET_XREF_FK2	SPRT_EC_AGT_NET_XREF	EC_AGENT_NETWORK_ID	CASCADE
SPRT_EC_AGT_GRP_NET_XREF_FK2	SPRT_EC_AGT_GRP_NET_XREF	EC_AGENT_NETWORK_ID	CASCADE

SPRT_EC_AGT_GRP_NET_XREF

This table maintains the list networks for each agent group.

Field Name	Type	Default	Nullable	Description
EC_AGENT_GROUP_ID	NUMBER(9)		No	Foreign key to SPRT_EC_AGENT_GROUP.ID.
EC_AGENT_NETWORK_ID	NUMBER(9)		No	Foreign key to SPRT_EC_NETWORK.ID.

Indexes

Name	Type	Columns
SPRT_EC_AGT_GRP_NET_XREF_IDX1	NORMAL	EC_AGENT_GROUP_ID
SPRT_EC_AGT_GRP_NET_XREF_IDX2	NORMAL	EC_AGENT_NETWORK_ID
SPRT_EC_AGT_GRP_NET_XREF_PK	UNIQUE	EC_AGENT_GROUP_ID, EC_AGENT_NETWORK_ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_AGT_GRP_NET_XREF_FK1	EC_AGENT_GROUP_ID	SPRT_EC_AGENT_GROUP	CASCADE
SPRT_EC_AGT_GRP_NET_XREF_FK2	EC_AGENT_NETWORK_ID	SPRT_EC_AGENT_NETWORK	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_AGT_NET_XREF

This table maintains the list networks specific to each agent.

Field Name	Type	Default	Nullable	Description
EC_AGENT_ID	NUMBER(9)		No	Foreign key to SPRT_EC_AGENT.ID.
EC_AGENT_NETWORK_ID	NUMBER(9)		No	Foreign key to SPRT_EC_AGENT_NETWORK.ID.

Indexes

Name	Type	Columns
SPRT_EC_AGT_NET_XREF_IDX1	NORMAL	EC_AGENT_ID
SPRT_EC_AGT_NET_XREF_IDX2	NORMAL	EC_AGENT_NETWORK_ID
SPRT_EC_AGT_NET_XREF_PK	UNIQUE	EC_AGENT_ID, EC_AGENT_NETWORK_ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_AGT_NET_XREF_FK1	EC_AGENT_ID	SPRT_EC_AGENT	CASCADE
SPRT_EC_AGT_NET_XREF_FK2	EC_AGENT_NETWORK_ID	SPRT_EC_AGENT_NETWORK	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_APPSERVER_STATUS_LOCK

This table holds a single record that is used as a lock for the application server status job.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
UPDATE_TIME	DATE	SYSDATE	No	The time the lock was last acquired. This is not cleared or updated when the lock is released.
UPDATE_INTERVAL	NUMBER(9)	60	No	This specifies the minimum interval between acquisitions of the lock, to prevent a job from being executed too often.
IS_LOCKED	NVARCHAR2(32)		No	'Y' if the lock is currently held by an application server status job. 'N' if the lock is not held.

Indexes

Name	Type	Columns
SPRT_EC_APPSERVER_STS_LOCK_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_ATTR_DEF

This table holds the attribute definitions.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
NAME	VARCHAR2(256)		No	String identifier.
GROUP_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_ATTR_GROUP.GUID, indicating which group this attribute is a part of.
TYPE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_ATTR_TYPE.GUID, indicating the type of attribute.

Field Name	Type	Default	Nullable	Description
REGEX	NVARCHAR2(256)		No	Regular expression for validation.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
INHERITABLE	CHAR(1)	'N'	No	A value of 'Y' indicates that when this attribute is associated with an object, any child objects will also implicitly be assigned the same attribute and value. This is currently only applicable when the attribute is assigned to Domains.

Indexes

Name	Type	Columns
SPRT_EC_ATTR_DEF_IDX1	NORMAL	GROUP_GUID
SPRT_EC_ATTR_DEF_IDX2	NORMAL	TYPE_GUID
SPRT_EC_ATTR_DEF_PK	UNIQUE	GUID
SPRT_EC_ATTR_DEF_UK	UNIQUE	NAME, GROUP_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_ATTR_DEF_FK1	GROUP_GUID	SPRT_EC_ATTR_GROUP	CASCADE
SPRT_EC_ATTR_DEF_FK2	TYPE_GUID	SPRT_EC_ATTR_TYPE	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_CWMPPARAM_MAP_FK3	SPRT_SG_CWMPPARAM_MAP	EC_ATTR_DEF_GUID	CASCADE
SPRT_SG_ACT_CWMPGT4ATTR_MP_FK2	SPRT_SG_ACT_CWMPGET4ATTR_MAP	ATTR_DEF_GUID	NO ACTION
SPRT_EC_SUBSCRIBER_ATTR_FK1	SPRT_EC_SUBSCRIBER_ATTR	ATTR_DEF_GUID	NO ACTION
SPRT_EC_SERVICE_ATTR_FK1	SPRT_EC_SERVICE_ATTR	ATTR_DEF_GUID	NO ACTION

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_HARDWARE_ATTR_FK1	SPRT_EC_HARDWARE_ATTR	ATTR_DEF_GUID	NO ACTION
SPRT_EC_FIRMWARE_ATTR_FK1	SPRT_EC_FIRMWARE_ATTR	ATTR_DEF_GUID	NO ACTION
SPRT_EC_DEVICE_ATTR_FK1	SPRT_EC_DEVICE_ATTR	ATTR_DEF_GUID	NO ACTION
SPRT_EC_ATTR_DEF_OBJ_XREF_FK1	SPRT_EC_ATTR_DEF_OBJ_XREF	ATTR_DEF_GUID	CASCADE
SPRT_EC_ADMINDOMAIN_ATTR_FK1	SPRT_EC_ADMINDOMAIN_ATTR	ATTR_DEF_GUID	NO ACTION

SPRT_EC_ATTR_DEF_OBJ_XREF

This table defines which object types (like Device, Service, etc.) can have which attributes. It associates attribute definitions with attributable object types.

Field Name	Type	Default	Nullable	Description
ATTR_DEF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_ATTR_DEF.GUID.
OBJ_TYPE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_OBJ_TYPE.GUID.

Indexes

Name	Type	Columns
SPRT_EC_ATTR_DEF_OBJ_XREF_IDX1	NORMAL	ATTR_DEF_GUID
SPRT_EC_ATTR_DEF_OBJ_XREF_IDX2	NORMAL	OBJ_TYPE_GUID
SPRT_EC_ATTR_DEF_OBJ_XREF_PK	UNIQUE	ATTR_DEF_GUID, OBJ_TYPE_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_ATTR_DEF_OBJ_XREF_FK1	ATTR_DEF_GUID	SPRT_EC_ATTR_DEF	CASCADE
SPRT_EC_ATTR_DEF_OBJ_XREF_FK2	OBJ_TYPE_GUID	SPRT_EC_OBJ_TYPE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_ATTR_GROUP

This table specifies a group of attributes. All complex attributes defines will have a unique group within a realm. All simple attributes share a group called "Default".

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
NAME	VARCHAR2(256)		No	The unique group name. This will be "Default" for simple attributes.
REALM_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_EC_REALM.ID.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_ATTR_GROUP_IDX1	NORMAL	REALM_GUID
SPRT_EC_ATTR_GROUP_PK	UNIQUE	GUID
SPRT_EC_ATTR_GROUP_UK	UNIQUE	NAME, REALM_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_ATTR_GROUP_FK1	REALM_GUID	SPRT_EC_REALM	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_ATTR_DEF_FK1	SPRT_EC_ATTR_DEF	GROUP_GUID	CASCADE

SPRT_EC_ATTR_TYPE

This table defines attribute types, which is simply a list of commonly used regular expressions.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
NAME	VARCHAR2(256)		No	The unique name of this type.

Field Name	Type	Default	Nullable	Description
REGEX	NVARCHAR2(256)		No	Regular expression for validation.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_ATTR_TYPE_PK	UNIQUE	GUID
SPRT_EC_ATTR_TYPE_UK	UNIQUE	NAME

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_ATTR_DEF_FK2	SPRT_EC_ATTR_DEF	TYPE_GUID	CASCADE

SPRT_EC_AUDIT_LOG

When audit logging is enabled, this table stores a record for each activity made to objects for which audit logging is available.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
SRC_IP	VARCHAR2(16)	NULL	Yes	The IP address of the client that initiated the activity.
OP_TYPE	CHAR(1)		No	The type of operation that was carried out. One of: "A" - Object was added, "D" - object was deleted, "U" - object was updated, "L" - object was linked to another object, "X" - object was unlinked from another object.
DESCR	NVARCHAR2(1333)	NULL	Yes	An optional description of the change or activity that occurred.
OBJ_ID	NUMBER(9)	NULL	Yes	The ID of the object that was affected, for records that use numeric primary keys.

Field Name	Type	Default	Nullable	Description
OBJ_GUID	VARCHAR2(36)	NULL	Yes	The GUID of the object that was affected, for records that used GUIDs as primary keys.
OBJ_TYPE	VARCHAR2(32)	NULL	Yes	A string indicating the type of object, as maintained by the SPRT_EC_AUDIT_OBJ table, and therefore which table OBJ_ID or OBJ_GUID refers.
OBJ_DESCR	NVARCHAR2(100)	NULL	Yes	A displayable description of the object affected.
REFOBJ_ID	NUMBER(9)	NULL	Yes	For OP_TYPE of "L" or "X", the ID of the other object in the link being made or broken, for records that use numeric primary keys.
REFOBJ_GUID	VARCHAR2(36)	NULL	Yes	For OP_TYPE of "L" or "X", the GUID of the other object in the link being made or broken, for records that use GUIDs as primary keys.
REFOBJ_TYPE	VARCHAR2(32)	NULL	Yes	A string indicating the type of object, as maintained by the SPRT_EC_AUDIT_OBJ table, and therefore which table REFOBJ_ID or REFOBJ_GUID refers.
REFOBJ_DESCR	NVARCHAR2(100)	NULL	Yes	A displayable description of the object affected.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.

Indexes

Name	Type	Columns
SPRT_EC_AUDIT_LOG_IDX1	NORMAL	OP_TYPE
SPRT_EC_AUDIT_LOG_IDX2	NORMAL	OBJ_TYPE
SPRT_EC_AUDIT_LOG_IDX3	NORMAL	REFOBJ_TYPE
SPRT_EC_AUDIT_LOG_IDX4	NORMAL	CREATED
SPRT_EC_AUDIT_LOG_IDX5	NORMAL	CREATED_BY
SPRT_EC_AUDIT_LOG_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_AUDIT_OBJ

A list of auditable objects.

Field Name	Type	Default	Nullable	Description
OBJ_TYPE	VARCHAR2(32)		No	The name of the object type.
OBJ_TYPE_PROPERTY	NVARCHAR2(128)		No	The name of the property used for UI localization.
VIEW_URL	NVARCHAR2(256)		Yes	The URL used to view the an instance of the object.
IS_VALID_QUERY	NVARCHAR2(512)		Yes	A query that can be used to determine if an instance of this object still exists in the database.

Indexes

Name	Type	Columns
SPRT_EC_AUDIT_OBJ_PK	UNIQUE	OBJ_TYPE

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_CAPABILITY

This table holds a list of capabilities known to the system. A capability is a potential ability a device may have, manifested by either its hardware (e.g. wireless) or its firmware (e.g. software module management). Capabilities do not indicate how a device is configured, but how a device can be configured. Capabilities can be arranged hierarchically, where the child capability can only be present on a device if the parent capability exists.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
PARENT_GUID	VARCHAR2(36)		Yes	The GUID of the parent capability, or NULL if it does not have a parent.
EC_REALM_GUID	VARCHAR2(36)		Yes	The realm that this capability is defined and available for use within, or NULL if it is available to all realms.
NAME	VARCHAR2(128)		No	The name of the capability.
DESCRIPTION	VARCHAR2(1024)		Yes	An optional description of the capability.
CREATED	DATE		No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE		No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_CAPABILITY_IDX1	UNIQUE	NAME, EC_REALM_GUID
SPRT_EC_CAPABILITY_IDX2	NORMAL	PARENT_GUID
SPRT_EC_CAPABILITY_IDX3	NORMAL	EC_REALM_GUID
SPRT_EC_CAPABILITY_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_CAPABILITY_FK1	PARENT_GUID	SPRT_EC_CAPABILITY	NO ACTION
SPRT_EC_CAPABILITY_FK2	EC_REALM_GUID	SPRT_EC_REALM	NO ACTION

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_CWMP_DATA_MODEL_FK	SPRT_SG_CWMP_DATA_MODEL	EC_CAPABILITY_GUID	NO ACTION
SPRT_SG_CSR_RTP_CAP_XREF_FK2	SPRT_SG_CSR_RTP_CAP_XREF	EC_CAP_GUID	CASCADE
SPRT_SG_ACT_CWMP_RPCMETHOD_G_FK1	SPRT_SG_ACT_CWMP_RPC_METHOD_G	EC_CAPABILITY_GUID	NO ACTION
SPRT_SG_ACT_CWMP_DM_G_FK1	SPRT_SG_ACT_CWMP_DM_G	EC_CAPABILITY_GUID	CASCADE
SPRT_EC_CAP_HW_FW_XREF_FK1	SPRT_EC_CAP_HW_FW_XREF	EC_CAPABILITY_GUID	CASCADE
SPRT_EC_CAPABILITY_FK1	SPRT_EC_CAPABILITY	PARENT_GUID	NO ACTION

SPRT_EC_CAP_HW_FW_XREF

This table is used to maintain the association of a capability with a hardware, a firmware, or both.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.

Field Name	Type	Default	Nullable	Description
EC_CAPABILITY_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_CAPABILITY.GUID.
EC_HW_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_EC_HARDWARE.GUID. If NULL, then the capability is associated with a firmware only.
EC_FW_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_EC_FIRMWARE.GUID. If NULL, then the capability is associated with a hardware only.

Indexes

Name	Type	Columns
SPRT_EC_CAP_HW_FW_XREF_IDX1	UNIQUE	EC_CAPABILITY_GUID, EC_HW_GUID, EC_FW_GUID
SPRT_EC_CAP_HW_FW_XREF_IDX2	NORMAL	EC_CAPABILITY_GUID
SPRT_EC_CAP_HW_FW_XREF_IDX3	NORMAL	EC_HW_GUID
SPRT_EC_CAP_HW_FW_XREF_IDX4	NORMAL	EC_FW_GUID
SPRT_EC_CAP_HW_FW_XREF_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_CAP_HW_FW_XREF_FK1	EC_CAPABILITY_GUID	SPRT_EC_CAPABILITY	CASCADE
SPRT_EC_CAP_HW_FW_XREF_FK3	EC_FW_GUID	SPRT_EC_FIRMWARE	CASCADE
SPRT_EC_CAP_HW_FW_XREF_FK2	EC_HW_GUID	SPRT_EC_HARDWARE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_DASHBOARD

This table contains dashboard configurations. Currently only one global dashboard configuration is supported.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
REFRESH_INTERVAL	NUMBER(9)		No	The interval between refreshes, in seconds.
TIMEOUT_DISABLED	VARCHAR2(32)		No	One of TRUE or FALSE. If TRUE, then the UI inactivity timeout will be disabled while the dashboard is being viewed.

Field Name	Type	Default	Nullable	Description
IS_DEFAULT	VARCHAR2(32)		No	One of TRUE or FALSE. If TRUE, then this is the default dashboard. Only the default dashboard is used by the system.

Indexes

Name	Type	Columns
SPRT_EC_DASHBOARD_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_DASHBOARD_KPI_FK1	SPRT_EC_DASHBOARD_KPI	EC_DASHBOARD_GUID	NO ACTION

SPRT_EC_DASHBOARD_KPI

This table maintains the configuration for a dashboard: which KPIs to display, the thresholds defined per KPI, whether the threshold being exceeded should be reflected in the overall server status, and the position within the dashboard for each KPI.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_DASHBOARD_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_DASHBOARD.GUID.
EC_KPI_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_KPI.GUID.
T_HIGH_CRITICAL	NUMBER(11)		Yes	The value above which the KPI is considered in a critical state. If NULL, there is no such threshold.
T_HIGH_WARNING	NUMBER(11)		Yes	The value above which the KPI is considered in a warning state. If NULL, there is no such threshold.
T_LOW_WARNING	NUMBER(11)		Yes	The value below which the KPI is considered in a warning state. If NULL, there is no such threshold.
T_LOW_CRITICAL	NUMBER(11)		Yes	The value below which the KPI is considered in a critical state. If NULL, there is no such threshold.
POS_X	NUMBER(9)		No	The desired column for this KPI, from 1 to 4. Note that if there are no KPIs in given columns, that column will not be displayed. For example, if there are no KPIs in column 3, then a KPI specified to be in column 4 will appear to be in the third column.

Field Name	Type	Default	Nullable	Description
POS_Y	NUMBER(9)		No	The desired row in which this KPI appears within a column. This is best effort. If multiple KPIs in a column have the same value, the order will be arbitrary.
ESCALATE_TYPE	VARCHAR2(36)		No	One of: NONE, SERVER. If SERVER, then the state of the KPI, as determined by applying the thresholds to its current value, will affect the state of the entire server. If NONE, it will not.
DISPLAY_FORMAT	NVARCHAR2(128)		Yes	This column is not currently used.
CREATED	DATE		No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE		No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_DASHBOARD_KPI_IDX1	NORMAL	EC_DASHBOARD_GUID
SPRT_EC_DASHBOARD_KPI_IDX2	NORMAL	EC_KPI_GUID
SPRT_EC_DASHBOARD_KPI_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_DASHBOARD_KPI_FK1	EC_DASHBOARD_GUID	SPRT_EC_DASHBOARD	NO ACTION
SPRT_EC_DASHBOARD_KPI_FK2	EC_KPI_GUID	SPRT_EC_KPI	NO ACTION

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_DEVICE

This table contains a record of generic information for every device known to the system. Parameters specific to CWMP are stored in SPRT_NC_CPE.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary key.

Field Name	Type	Default	Nullable	Description
UNIQUE_ID_STRING	NVARCHAR2(128)		No	Device's Unique ID String.
MAC_ADDRESS	NVARCHAR2(12)	NULL	Yes	Device's MAC Address.
HARDWARE_GUID	VARCHAR2(36)	NULL	Yes	Foreign key to SPRT_EC_HARDWARE.
FIRMWARE_GUID	VARCHAR2(36)	NULL	Yes	Foreign key to SPRT_EC_HARDWARE.
PARENT_DEVICE_ID	NUMBER(9)	NULL	Yes	The ID of the device that is upstream of this device. This field is not currently used.
EC_AD_ID	NUMBER(9)		No	Foreign key to SPRT_EC_AD.
IP_ADDRESS	VARCHAR2(39)	NULL	Yes	The device's current IP address in IPv6 format.
AGING_ENABLED	CHAR(1)	'Y'	No	Indicator of whether or not the aging process is applicable to this device.
SERIAL_NUMBER	NVARCHAR2(256)	NULL	Yes	Device's Serial Number.
LAST_SUCCESSFUL_COMM_DATE	DATE	NULL	Yes	Last successful communication / polling date of the device.
LAST_UNSUCCESSFUL_COMM_DATE	DATE	NULL	Yes	Last unsuccessful communication / polling date of the device.
LAST_COMM_DATE	DATE	NULL	Yes	Later of (last_successful_comm_date, last_unsuccessful_comm_date). This is stored in the database for performance purposes.
LAST_REGISTRATION_DATE	DATE	NULL	Yes	Most recent registration date of the device.
FIRST_REGISTRATION_DATE	DATE	NULL	Yes	First registration date of the device.
SCHEDULED_ACTIVATION_DATE	DATE	NULL	Yes	The date the device is scheduled for activation. This is used for reporting purposes only.
SUBSCRIBER_OWNED	CHAR(1)	'Y'	No	Specifies whether or not this device owned by the subscriber or the operator. This field is not currently used.
STATICALLY_ASSIGNED_IPADDRESS	NUMBER(11)	NULL	Yes	Statically assigned IP address. This field is not currently used.
EC_REALM_GUID	VARCHAR2(36)		No	The realm this device belongs to.
DATA_MODEL_ROOT	NUMBER(1)		Yes	For CWMP devices, the data model root detected for the device, one of: 0 (InternetGatewaydevice), 1 (Device)
CONFIGURATION_LOCK	DATE	NULL	Yes	A non-NULL value indicated that this device's configuration is locked, such that it should not be automatically synchronized. The timestamp indicated the time the configuration was locked.

Field Name	Type	Default	Nullable	Description
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
IS_ACTIVE	VARCHAR2(1)		Yes	This indicates whether or not the device is currently activated. If the device is not activated, it will trigger the activation policy upon boot or bootstrap. One of 'Y' or 'N'.
FIRST_ACTIVATION_DATE	DATE		Yes	First activation date of the device.
LAST_ACTIVATION_DATE	DATE		Yes	The most recent activation date of the device.
WAN_CONNECTION_TYPE	VARCHAR2(32)		Yes	The type of WAN connection interface used by the device, which can be used to decide which set of file servers are used to deliver files to the device. One of: IP, PPP.

Indexes

Name	Type	Columns
SPRT_EC_DEVICE_IDX1	UNIQUE	UNIQUE_ID_STRING
SPRT_EC_DEVICE_IDX10	NORMAL	LAST_SUCCESSFUL_COMM_DATE
SPRT_EC_DEVICE_IDX100	NORMAL	CONFIGURATION_LOCK
SPRT_EC_DEVICE_IDX11	NORMAL	LAST_UNSUCCESSFUL_COMM_DATE
SPRT_EC_DEVICE_IDX12	NORMAL	LAST_REGISTRATION_DATE
SPRT_EC_DEVICE_IDX13	NORMAL	AGING_ENABLED
SPRT_EC_DEVICE_IDX14	NORMAL	FIRST_REGISTRATION_DATE
SPRT_EC_DEVICE_IDX15	NORMAL	FIRMWARE_GUID
SPRT_EC_DEVICE_IDX16	FUNCTION-BASED	LOWER("UNIQUE_ID_STRING")
SPRT_EC_DEVICE_IDX17	FUNCTION-BASED	REVERSE(LOWER("UNIQUE_ID_STRING"))
SPRT_EC_DEVICE_IDX18	NORMAL	STATICALLY_ASSIGNED_IPADDRESS
SPRT_EC_DEVICE_IDX19	NORMAL	EC_REALM_GUID
SPRT_EC_DEVICE_IDX2	FUNCTION-BASED UNIQUE	REVERSE("UNIQUE_ID_STRING")
SPRT_EC_DEVICE_IDX3	FUNCTION-BASED	LOWER("MAC_ADDRESS")
SPRT_EC_DEVICE_IDX4	FUNCTION-BASED	REVERSE(LOWER("MAC_ADDRESS"))
SPRT_EC_DEVICE_IDX5	NORMAL	PARENT_DEVICE_ID
SPRT_EC_DEVICE_IDX6	NORMAL	EC_AD_ID
SPRT_EC_DEVICE_IDX7	NORMAL	SERIAL_NUMBER
SPRT_EC_DEVICE_IDX8	NORMAL	HARDWARE_GUID
SPRT_EC_DEVICE_IDX9	NORMAL	IP_ADDRESS
SPRT_EC_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_DEVICE_FK3	EC_AD_ID	SPRT_EC_AD	NO ACTION
SPRT_EC_DEVICE_FK2	FIRMWARE_GUID	SPRT_EC_FIRMWARE	SET NULL
SPRT_EC_DEVICE_FK1	HARDWARE_GUID	SPRT_EC_HARDWARE	SET NULL
SPRT_EC_DEVICE_FK4	EC_REALM_GUID	SPRT_EC_REALM	NO ACTION

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_TCP_CWMPPARAM_WQ_FK1	SPRT_SG_TCP_CWMPPARAM_WQ	EC_DEVICE_ID	CASCADE
SPRT_SG_DEVICE_TC_FK1	SPRT_SG_DEVICE_TC	EC_DEVICE_ID	CASCADE
SPRT_SG_DBOR_TC_FK1	SPRT_SG_DBOR_TC	EC_DEVICE_ID	CASCADE
SPRT_SG_CWMP_SNAPSHOT_FK1	SPRT_SG_CWMP_SNAPSHOT	EC_DEVICE_ID	CASCADE
SPRT_SG_CWMP_PCACHE_FK	SPRT_SG_CWMP_PCACHE	EC_DEVICE_ID	CASCADE
SPRT_SG_CWMP_ICACHE_FK	SPRT_SG_CWMP_ICACHE	EC_DEVICE_ID	CASCADE
SPRT_SG_ACT_SMM_CONTEXT_FK1	SPRT_SG_ACT_SMM_CONTEXT	EC_DEVICE_ID	CASCADE
SPRT_SG_ACT_RESTORE_CXT_FK1	SPRT_SG_ACT_RESTORE_CXT	EC_DEVICE_ID	CASCADE
SPRT_SG_ACT_FW_CONTEXT_FK1	SPRT_SG_ACT_FW_CONTEXT	EC_DEVICE_ID	CASCADE
SPRT_SG_ACT_BACKUP_CXT_FK1	SPRT_SG_ACT_BACKUP_CXT	EC_DEVICE_ID	CASCADE
FK_SPRT_NC_CPE_1	SPRT_NC_CPE	EC_DEVICE_ID	CASCADE
SPRT_EC_SUBSCRIBER_DEV_XR_FK2	SPRT_EC_SUBSCRIBER_DEVICE_XREF	EC_DEVICE_ID	CASCADE
SPRT_EC_FILE_BACKUP_FK1	SPRT_EC_FILE_BACKUP	EC_DEVICE_ID	CASCADE
SPRT_EC_DEV_SNMP_V3_INFO_FK1	SPRT_EC_DEV_SNMP_V3_INFO	EC_DEVICE_ID	CASCADE
SPRT_EC_DEV_SNMP_V1_INFO_FK1	SPRT_EC_DEV_SNMP_V1_INFO	EC_DEVICE_ID	CASCADE
SPRT_EC_DEV_SER_XR_FK1	SPRT_EC_DEVICE_SERVICE_XREF	EC_DEVICE_ID	CASCADE
SPRT_EC_DEVICE_ATTR_FK2	SPRT_EC_DEVICE_ATTR	OBJECT_ID	CASCADE

SPRT_EC_DEVICE_ATTR

This table maintains the attributes and values associated with a device.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
ATTR_DEF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_ATTR_DEF.GUID.
OBJECT_ID	NUMBER(9)		No	Foreign key to SPRT_EC_DEVICE.ID.
ATTR_INDEX	NUMBER(5)		No	The index value used for arrays of complex attributes. For simple attributes, this value is 0.
ATTR_VALUE	NVARCHAR2(1333)		Yes	The value of the attribute.

Field Name	Type	Default	Nullable	Description
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_DEVICE_ATTR_IDX1	NORMAL	OBJECT_ID
SPRT_EC_DEVICE_ATTR_IDX2	NORMAL	ATTR_DEF_GUID
SPRT_EC_DEVICE_ATTR_PK	UNIQUE	GUID
SPRT_EC_DEVICE_ATTR_UK	UNIQUE	ATTR_DEF_GUID, OBJECT_ID, ATTR_INDEX

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_DEVICE_ATTR_FK1	ATTR_DEF_GUID	SPRT_EC_ATTR_DEF	NO ACTION
SPRT_EC_DEVICE_ATTR_FK2	OBJECT_ID	SPRT_EC_DEVICE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_DEVICE_SERVICE_XREF

This table maintains the list of services associated with each device.

Field Name	Type	Default	Nullable	Description
EC_DEVICE_ID	NUMBER(9)		No	Foreign key to SPRT_EC_DEVICE.ID.
EC_SERVICE_ID	NUMBER(9)		No	Foreign key to SPRT_EC_SERVICE.ID.

Indexes

Name	Type	Columns
SPRT_EC_DEV_SER_XR_IDX1	NORMAL	EC_DEVICE_ID
SPRT_EC_DEV_SER_XR_IDX2	NORMAL	EC_SERVICE_ID
SPRT_EC_DEV_SER_XR_PK	UNIQUE	EC_DEVICE_ID, EC_SERVICE_ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_DEV_SER_XR_FK1	EC_DEVICE_ID	SPRT_EC_DEVICE	CASCADE
SPRT_EC_DEV_SER_XR_FK2	EC_SERVICE_ID	SPRT_EC_SERVICE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_DEV_SNMP_V1_INFO

This table contains the SNMPv1 or SNMPv2c authentication information for a device, if any exists.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_DEVICE_ID	NUMBER(9)		No	Foreign key to SPRT_EC_DEVICE.ID.
RO_COMMUNITY	NVARCHAR2(256)	NULL	Yes	Read only SNMP community string (for v1/v2c).
RW_COMMUNITY	NVARCHAR2(256)	NULL	Yes	Read-write SNMP community string (for v1/v2c)
SUPPORTS_V1	CHAR(1)	'Y'	No	Indicates whether this device supports SNMPv1. Y/N.
SUPPORTS_V2C	CHAR(1)	'Y'	No	Indicates whether this device supports SNMPv2c. Y/N.

Indexes

Name	Type	Columns
SPRT_EC_DEV_SNMP_V1_INFO_IDX1	NORMAL	EC_DEVICE_ID
SPRT_EC_DEV_SNMP_V1_INFO_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_DEV_SNMP_V1_INFO_FK1	EC_DEVICE_ID	SPRT_EC_DEVICE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_DEV_SNMP_V3_INFO

This table contains the SNMPv3 authentication information for a device, if any exists.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary key.
EC_DEVICE_ID	NUMBER(9)		No	Foreign key to SPRT_EC_DEVICE.ID.
USER_NAME	NVARCHAR2(256)	NULL	Yes	SNMP V3 user name.
AUTH_KEY	NVARCHAR2(256)	NULL	Yes	SNMP V3 authentication key.
AUTH_PROTOCOL	NUMBER(1)	NULL	Yes	SNMP V3 authentication protocol. NULL = not applicable, 1 = MD5, 2 = SHA.
AUTH_TYPE	NUMBER(1)	NULL	Yes	NULL = not applicable, 1 = Localized, 2 = Non-localized.
PRIV_KEY	NVARCHAR2(256)	NULL	Yes	SNMP V3 privacy key.
PRIV_PROTOCOL	NUMBER(1)	NULL	Yes	SNMP V3 Privacy Protocol. NULL = not applicable, 1 = CBC_DES.
PRIV_TYPE	NUMBER(1)	NULL	Yes	NULL = not applicable, 1 = Localized, 2 = Non-localized.
AUTHORIZATION_ROLE	NUMBER(1)	0	No	Specifies the types of operations are available via this auth information. 0 = Unknown, 1 = none, 2 = read, 3 = read/write.
CONTEXT	NVARCHAR2(256)	NULL	Yes	A context is part of the VACM and is used to limit MIB access for particular users.

Indexes

Name	Type	Columns
SPRT_EC_DEV_SNMP_V3_INFO_IDX1	NORMAL	EC_DEVICE_ID
SPRT_EC_DEV_SNMP_V3_INFO_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_DEV_SNMP_V3_INFO_FK1	EC_DEVICE_ID	SPRT_EC_DEVICE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_EMAIL_GLOBAL_CONFIG

This table maintains a record that determines how the list of SMTP servers is used.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
FAILOVER_MODE	VARCHAR2(32)		No	One of: RANDOM_ORDER, RANDOM_ONE_ONLY, PRIORITIZED_LIST, PRIORITIZED_ONE_ONLY.

Indexes

Name	Type	Columns
SPRT_EC_EMAIL_GLOBAL_CONFIG_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_FILE

This table maintains the files that have been defined in the system. Any type of file that is made available to a device via a file server will exist in this table. Certain file types (firmware, software modules, etc) will have other tables that provide the specific detail about how the file is used, and will reference this table.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.
FILENAME	NVARCHAR2(256)		No	The filename to expose to the device.
DESCRIPTION	NVARCHAR2(256)	NULL	Yes	An optional description of the file.
TYPE	NUMBER(9)		No	This holds the ID of a record in the SPRT_EC_FILE_TYPE table, indicating the type of file and how it may be used within the system.
FILESIZE	NUMBER(9)		No	The size of the file in bytes.
STATUS	NUMBER(2)		No	One of: UNTESTED, FAILED, PASSED, OBSOLETE. This value cannot currently be manipulated via the UI and will default to PASSED. A file that does not have a status of PASSED will not be used by some features.
LAST_USED	DATE	NULL	Yes	This field is not currently used.
FILEDATA	BLOB(4000)	NULL	Yes	The file content, if the file was uploaded via Service Gateway, and not placed on the file server manually.

Field Name	Type	Default	Nullable	Description
FILE_ADD_TYPE	NUMBER(2)		No	One of: MANUAL, EXISTING. If MANUAL, the file will be manually placed on the file servers. If EXISTING, the file was uploaded via the UI and is available to be distributed to file servers over SSH.
EC_REALM_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_REALM.GUID. The realm within which this file is available for use.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_FILE_IDX1	NORMAL	EC_REALM_GUID
SPRT_EC_FILE_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_FILE_FK1	EC_REALM_GUID	SPRT_EC_REALM	NO ACTION

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_TCP_CWMPFILE_I_FK2	SPRT_SG_TCP_CWMPFILE_I	EC_FILE_ID	NO ACTION
SPRT_SG_SMM_DEF_FK2	SPRT_SG_SMM_DEF	EC_FILE_ID	NO ACTION
SPRT_NC_CPE_FW_UPGRADE_FK3	SPRT_NC_CPE_FW_UPGRADE	EC_FILE_ID	SET NULL
SPRT_EC_HW_FW_XREF_FK3	SPRT_EC_HW_FW_XREF	EC_FILE_ID	NO ACTION
SPRT_EC_FIRMWARE_FK2	SPRT_EC_FIRMWARE	EC_FILE_ID	NO ACTION
SPRT_EC_FILE_FILESERVER_X_FK1	SPRT_EC_FILE_FILESERVER_XREF	EC_FILE_ID	CASCADE

SPRT_EC_FILESERVER

This table maintains the set of file servers known to the system.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.
HOSTNAME	NVARCHAR2(256)		No	The external hostname or IP Address for this file server. This is the hostname that will be sent to devices.
DESCRIPTION	NVARCHAR2(256)	NULL	Yes	An optional description of this fileserver.
TYPE	NUMBER(2)		No	The type (protocol) of file server. One of: 1 (HTTP), 2 (FTP), 3 (TFTP), 4 (HTTPS).
PORT	NUMBER(9)		No	The port the server is listening on for requests from devices.
DOCUMENT_ROOT	NVARCHAR2(256)		No	The document root that is prepended to the filename to create the full path to the file on the file server.
STATUS	NUMBER(2)		No	The status of this fileserver. Only active fileservers will be used. One of: 0 (Inactive), 1 (Active).
USERNAME	NVARCHAR2(256)	NULL	Yes	If authentication is required to access files from the file server, this is the username that devices will be told to use.
PASSWORD	NVARCHAR2(256)	NULL	Yes	If authentication is required to access files from the file server, this is the password that devices will be told to use.
UPLOAD_PATH	NVARCHAR2(256)	NULL	Yes	If the file server supports accepting files from the application over SSH, uploaded via the UI, then this is the path on the filesystem that the files are uploaded to.
UPLOAD_AUTHTYPE	NUMBER(2)	1	Yes	The authentication type used when uploading files to the file server over SSH. One of: 1 (Password), 2 (Public Key).
UPLOAD_USERNAME	NVARCHAR2(256)	NULL	Yes	The username used to authenticate when uploading a file to the file server over SSH.
UPLOAD_PASSWORD	NVARCHAR2(256)	NULL	Yes	The password (or public keyfile secret) used to authenticate when uploading a file to the file server over SSH.
UPLOAD_HOSTNAME	NVARCHAR2(256)	NULL	Yes	The internal hostname or IP address to connect to with SSH when uploading a file to the file server.
EC_REALM_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_REALM.GUID.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
WAN_CONNECTION_TYPE	VARCHAR2(32)	'ANY'	Yes	One of: ANY, IP, PPP. If set to IP or PPP, then this file server will only be selected for use by devices using that WAN connection interface type.

Indexes

Name	Type	Columns
SPRT_EC_FILESERVER_IDX1	NORMAL	EC_REALM_GUID
SPRT_EC_FILESERVER_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_FILESERVER_FK1	EC_REALM_GUID	SPRT_EC_REALM	NO ACTION

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_FILE_FILESERVER_X_FK2	SPRT_EC_FILE_FILESERVER_XREF	EC_FILESERVER_ID	CASCADE
SPRT_EC_FILESERVER_AD_XREF_FK1	SPRT_EC_FILESERVER_AD_XREF	EC_FILESERVER_ID	CASCADE

SPRT_EC_FILESERVER_AD_XREF

This table maintains the list of domains that a file server is associated with. When a file needs to be delivered to a device, a file server is chosen from among the ones that are associated with the domain of the device, or one of the parent domains of the device.

Field Name	Type	Default	Nullable	Description
EC_FILESERVER_ID	NUMBER(9)		No	Foreign key to SPRT_EC_FILESERVER.ID.
EC_AD_ID	NUMBER(9)		No	Foreign key to SPRT_EC_DOMAIN.ID.

Indexes

Name	Type	Columns
SPRT_EC_FILESERVER_AD_XREF_PK	UNIQUE	EC_FILESERVER_ID, EC_AD_ID
SPRT_EC_FILESRVR_AD_XREF_IDX1	NORMAL	EC_FILESERVER_ID
SPRT_EC_FILESRVR_AD_XREF_IDX2	NORMAL	EC_AD_ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_FILESERVER_AD_XREF_FK2	EC_AD_ID	SPRT_EC_AD	CASCADE
SPRT_EC_FILESERVER_AD_XREF_FK1	EC_FILESERVER_ID	SPRT_EC_FILESERVER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_FILE_BACKUP

This table maintains a configuration file backups for devices. The system will only keep a maximum number of backups per device, as specified in system preferences.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_DEVICE_ID	NUMBER(9)		No	Foreign key to SPRT_EC_DEVICE.ID.
FILENAME	NVARCHAR2(256)		No	The filename provided by the device.
BACKUP_DATE	DATE		No	The date and time the file was backed up.
IS_USER_BACKUP	CHAR(1)		No	If 'Y', The file was backed up by an end user action, typically from the GUI. If 'N', the file was backed up automatically by the system, typically from a policy action.
BACKUP_REASON	NVARCHAR2(128)	NULL	Yes	The reason the backup was carried out.
UPLOAD_FILE_TYPE	NUMBER(1)		No	One of: 1 (CONFIGURATION), 2 (LOG), 3 (VENDOR SPECIFIC).
VENDOR_SPECIFIC_IDENTIFIER	NVARCHAR2(64)	NULL	Yes	This column is not currently used.
IS_LAST_KNOWN_GOOD	CHAR(1)		No	If 'Y', then this is the last known good configuration backup for the device. One one file backup per device should have this field set to 'Y'. Otherwise 'N'.
BACKUP_FILE	BLOB(4000)		No	The backup file content.

Indexes

Name	Type	Columns
SPRT_EC_FILE_BACKUP_IDX1	NORMAL	EC_DEVICE_ID
SPRT_EC_FILE_BACKUP_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_FILE_BACKUP_FK1	EC_DEVICE_ID	SPRT_EC_DEVICE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_FILE_FILESERVER_XREF

This table maintains the list of file servers a file is available on, and whether or not that file has actually been uploaded via SSH.

Field Name	Type	Default	Nullable	Description
EC_FILE_ID	NUMBER(9)		No	Foreign key to SPRT_EC_FILE.ID.
EC_FILESERVER_ID	NUMBER(9)		No	Foreign key to SPRT_EC_FILESERVER.ID.
UPLOADED	CHAR(1)	'N'	Yes	If 'N', then the file has not yet been uploaded to the file server. If 'Y', the file has been uploaded.

Indexes

Name	Type	Columns
SPRT_EC_FILE_FILESERVER_X_PK	UNIQUE	EC_FILE_ID, EC_FILESERVER_ID
SPRT_EC_FILE_FILESRVR_X_IDX1	NORMAL	EC_FILE_ID
SPRT_EC_FILE_FILESRVR_X_IDX2	NORMAL	EC_FILESERVER_ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_FILE_FILESERVER_X_FK1	EC_FILE_ID	SPRT_EC_FILE	CASCADE
SPRT_EC_FILE_FILESERVER_X_FK2	EC_FILESERVER_ID	SPRT_EC_FILESERVER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_FILE_TYPE

This table holds the file types available when defining a new device file.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.
NAME	NVARCHAR2(256)		No	A display name for the file type.
FILE_CATEGORY	NUMBER(9)		No	The category of file that specifies how the file can be used within the system: 1 = Firmware, 2 = Content, 3 = Configuration, 4 = Software module, 5 = Other.
USER_DEFINED	CHAR(1)	'N'	Yes	If 'Y', this is a user-defined file type.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_FILE_TYPE_PK	UNIQUE	ID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_CWMP_FILE_TYPE_FK1	SPRT_SG_CWMP_FILE_TYPE	FILE_TYPE	CASCADE

SPRT_EC_FIRMWARE

This table maintains a record for each firmware known to the system.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.

Field Name	Type	Default	Nullable	Description
EC_REALM_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_REALM.GUID.
MANUFACTURER	NVARCHAR2(128)		Yes	The manufacturer reported by the firmware.
FIRMWARE_VERSION	NVARCHAR2(128)		No	The version reported by the firmware.
EC_FILE_ID	NUMBER(9)		Yes	Foreign key to SPRT_EC_FILE.ID. If specified, this is a pointer to the file (binary firmware image) that can be delivered to a device to upgrade it to this firmware.
CREATED	DATE		No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE		No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
DEVICE_URL_PROTOCOL	NVARCHAR2(32)	'INHERIT'	No	This specifies the protocol to use when constructing the URL to the UI of the device. Possible values are: DISABLED, INHERIT, HTTP, HTTPS, NONE. If set to INHERIT, a system preference will dictate the behaviour.
DEVICE_URL_PATH	NVARCHAR2(256)		Yes	This specifies the path to use when constructing the URL to the UI of the device.

Indexes

Name	Type	Columns
SPRT_EC_FIRMWARE_IDX1	UNIQUE	MANUFACTURER, FIRMWARE_VERSION, EC_REALM_GUID
SPRT_EC_FIRMWARE_IDX2	NORMAL	EC_REALM_GUID
SPRT_EC_FIRMWARE_IDX3	NORMAL	EC_FILE_ID
SPRT_EC_FIRMWARE_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_FIRMWARE_FK2	EC_FILE_ID	SPRT_EC_FILE	NO ACTION
SPRT_EC_FIRMWARE_FK1	EC_REALM_GUID	SPRT_EC_REALM	NO ACTION

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_ACT_FIRMWARE_I_FK2	SPRT_SG_ACT_FIRMWARE_I	EC_FW_GUID	SET NULL
SPRT_NC_CPE_FW_UPGRADE_FK2	SPRT_NC_CPE_FW_UPGRADE	EC_FIRMWARE_GUID	SET NULL
SPRT_EC_HW_FW_XREF_FK2	SPRT_EC_HW_FW_XREF	EC_FW_GUID	CASCADE
SPRT_EC_FW_PRODUCT_CLASS_FK1	SPRT_EC_FIRMWARE_PRODUCT_CLASS	EC_FW_GUID	CASCADE
SPRT_EC_FIRMWARE_ATTR_FK2	SPRT_EC_FIRMWARE_ATTR	OBJECT_GUID	CASCADE
SPRT_EC_DEVICE_FK2	SPRT_EC_DEVICE	FIRMWARE_GUID	SET NULL
SPRT_EC_CAP_HW_FW_XREF_FK3	SPRT_EC_CAP_HW_FW_XREF	EC_FW_GUID	CASCADE

SPRT_EC_FIRMWARE_ATTR

This table maintains the attributes and values associated with a firmware.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
ATTR_DEF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_ATTR_DEF.GUID.
OBJECT_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_FIRMWARE.GUID.
ATTR_INDEX	NUMBER(5)		No	The index value used for arrays of complex attributes. For simple attributes, this value is 0.
ATTR_VALUE	NVARCHAR2(1333)		Yes	Value of the attribute.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_FIRMWARE_ATTR_IDX1	NORMAL	OBJECT_GUID
SPRT_EC_FIRMWARE_ATTR_IDX2	NORMAL	ATTR_DEF_GUID
SPRT_EC_FIRMWARE_ATTR_PK	UNIQUE	GUID
SPRT_EC_FIRMWARE_ATTR_UK	UNIQUE	ATTR_DEF_GUID, OBJECT_GUID, ATTR_INDEX

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_FIRMWARE_ATTR_FK1	ATTR_DEF_GUID	SPRT_EC_ATTR_DEF	NO ACTION
SPRT_EC_FIRMWARE_ATTR_FK2	OBJECT_GUID	SPRT_EC_FIRMWARE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_FIRMWARE_PRODUCT_CLASS

This table maintains a list of product classes (which is an attribute of hardware) to which a firmware may be associated via the UI. This simply limits the available hardware in the UI. If there are no product classes associated with a firmware, then all hardware will be available for association.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_FW_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_FIRMWARE.GUID.
PRODUCT_CLASS	NVARCHAR2(128)		Yes	A product class string.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_FW_PRODUCT_CLASS_IDX1	UNIQUE	EC_FW_GUID, PRODUCT_CLASS
SPRT_EC_FW_PRODUCT_CLASS_IDX2	NORMAL	EC_FW_GUID
SPRT_EC_FW_PRODUCT_CLASS_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_FW_PRODUCT_CLASS_FK1	EC_FW_GUID	SPRT_EC_FIRMWARE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_GROUP

This table maintains the security groups available to the system. Groups are collections of roles, which can be associated with users.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
NAME	NVARCHAR2(256)		No	Name of the Group.
DESCRIPTION	NVARCHAR2(256)	NULL	Yes	Description of Group.
TIMEOUT	NUMBER(9)	NULL	Yes	Session Timeout. Server Implementation Session Timeout is used if value is not specified.
DELETABLE	CHAR(1)	'Y'	No	Is this group deletable via the UI? Y/N
DISPLAYABLE	CHAR(1)	'Y'	No	Y or N determines whether this group visible via the UI or not.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_GROUP_IDX1	UNIQUE	NAME
SPRT_EC_GROUP_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_CSR_UI_STATE_SRH_FK2	SPRT_SG_CSR_UI_STATE_SRH	EC_GROUP_GUID	CASCADE

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_CSR_UI_STATE_FK2	SPRT_SG_CSR_UI_STATE	EC_GROUP_GUID	CASCADE
SPRT_SG_CSR_RTP_GRP_XREF_FK2	SPRT_SG_CSR_RTP_GRP_XREF	EC_GROUP_GUID	CASCADE
SPRT_EC_USER_GROUP_XREF_FK2	SPRT_EC_USER_GROUP_XREF	EC_GROUP_GUID	CASCADE
SPRT_EC_GROUP_ROLE_XREF_FK1	SPRT_EC_GROUP_ROLE_XREF	EC_GROUP_GUID	CASCADE
SPRT_EC_GROUP_REALM_XREF_FK1	SPRT_EC_GROUP_REALM_XREF	EC_GROUP_GUID	CASCADE
SPRT_EC_GROUP_PRNTGRP_XRF_FK2	SPRT_EC_GROUP_PARENTGROUP_XREF	EC_PARENTGROUP_GUID	CASCADE
SPRT_EC_GROUP_PRNTGRP_XRF_FK1	SPRT_EC_GROUP_PARENTGROUP_XREF	EC_GROUP_GUID	CASCADE

SPRT_EC_GROUP_JOB_XREF

This table associates a job with all agents belonging to a given group.

Field Name	Type	Default	Nullable	Description
EC_AGENT_GROUP_ID	NUMBER(9)		No	Foreign key to SPRT_EC_AGENT_GROUP.ID.
EC_JOB_ID	NUMBER(9)		No	Foreign key to SPRT_EC_JOB.ID.

Indexes

Name	Type	Columns
SPRT_EC_GROUP_JOB_XREF_IDX1	NORMAL	EC_AGENT_GROUP_ID
SPRT_EC_GROUP_JOB_XREF_IDX2	NORMAL	EC_JOB_ID
SPRT_EC_GROUP_JOB_XREF_PK	UNIQUE	EC_AGENT_GROUP_ID, EC_JOB_ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_GROUP_JOB_XREF_FK1	EC_AGENT_GROUP_ID	SPRT_EC_AGENT_GROUP	CASCADE
SPRT_EC_GROUP_JOB_XREF_FK2	EC_JOB_ID	SPRT_EC_JOB	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_GROUP_PARENTGROUP_XREF

This table maintains a heirarchical relationships between groups, such that one group will inherit the roles associated with its parent. Note that the ability to associate groups in this way is not provided via the UI.

Field Name	Type	Default	Nullable	Description
EC_GROUP_GUID	VARCHAR2(36)		No	Foreign Key to SPRT_EC_GROUP.GUID. The child group.
EC_PARENTGROUP_GUID	VARCHAR2(36)		No	Foreign Key to SPRT_EC_GROUP.GUID. The parent group.

Indexes

Name	Type	Columns
SPRT_EC_GROUP_PRNTGRP_XRF_IDX1	NORMAL	EC_GROUP_GUID
SPRT_EC_GROUP_PRNTGRP_XRF_IDX2	NORMAL	EC_PARENTGROUP_GUID
SPRT_EC_GROUP_PRNTGRP_XRF_PK	UNIQUE	EC_GROUP_GUID, EC_PARENTGROUP_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_GROUP_PRNTGRP_XRF_FK2	EC_PARENTGROUP_GUID	SPRT_EC_GROUP	CASCADE
SPRT_EC_GROUP_PRNTGRP_XRF_FK1	EC_GROUP_GUID	SPRT_EC_GROUP	CASCADE

References from other tables

There are no other tables that define a foreign key constaint on records in this table.

SPRT_EC_GROUP_REALM_XREF

This table maintains an optional list of realms that the group is allowed to be used within.

Field Name	Type	Default	Nullable	Description
EC_GROUP_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_GROUP.GUID.
EC_REALM_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_REALM.GUID.

Indexes

Name	Type	Columns
SPRT_EC_GROUP_REALM_XREF_IDX1	NORMAL	EC_GROUP_GUID
SPRT_EC_GROUP_REALM_XREF_IDX2	NORMAL	EC_REALM_GUID
SPRT_EC_GROUP_REALM_XREF_PK	UNIQUE	EC_GROUP_GUID, EC_REALM_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_GROUP_REALM_XREF_FK1	EC_GROUP_GUID	SPRT_EC_GROUP	CASCADE
SPRT_EC_GROUP_REALM_XREF_FK2	EC_REALM_GUID	SPRT_EC_REALM	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_GROUP_ROLE_XREF

This table maintains the list of roles assigned to each group.

Field Name	Type	Default	Nullable	Description
EC_GROUP_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_GROUP.GUID.
EC_ROLE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_ROLE.GUID.

Indexes

Name	Type	Columns
SPRT_EC_GROUP_ROLE_XREF_IDX1	NORMAL	EC_GROUP_GUID
SPRT_EC_GROUP_ROLE_XREF_IDX2	NORMAL	EC_ROLE_GUID
SPRT_EC_GROUP_ROLE_XREF_PK	UNIQUE	EC_GROUP_GUID, EC_ROLE_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_GROUP_ROLE_XREF_FK1	EC_GROUP_GUID	SPRT_EC_GROUP	CASCADE
SPRT_EC_GROUP_ROLE_XREF_FK2	EC_ROLE_GUID	SPRT_EC_ROLE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_HARDWARE

This table maintains a record for each hardware known to the system.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_REALM_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_REALM.GUID, specifying the realm this hardware is defined within.
MANUFACTURER	NVARCHAR2(128)		No	The manufacturer of the device.
PRODUCT_CLASS	NVARCHAR2(128)		Yes	The product class of the device.
OUI	NVARCHAR2(12)		Yes	The OUI of the device.
HARDWARE_REVISION	NVARCHAR2(128)		No	The hardware revision of the device.
DEVICE_TYPE	NVARCHAR2(32)		Yes	The device type of the device. This is an optional string that may be specified for reporting purposes. It is not used by the registration and configuration logic.
CREATED	DATE		No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE		No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
CR_GRACE_PERIOD	NUMBER(9)	0	No	Additional number of seconds added to the globally configured connection request timeout, for any devices of this hardware.

Indexes

Name	Type	Columns
SPRT_EC_HARDWARE_IDX1	UNIQUE	MANUFACTURER, PRODUCT_CLASS, HARDWARE_REVISION, EC_REALM_GUID
SPRT_EC_HARDWARE_IDX2	NORMAL	EC_REALM_GUID
SPRT_EC_HARDWARE_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_HARDWARE_FK1	EC_REALM_GUID	SPRT_EC_REALM	NO ACTION

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_HW_FW_XREF_FK1	SPRT_EC_HW_FW_XREF	EC_HW_GUID	CASCADE
SPRT_EC_HARDWARE_ATTR_FK2	SPRT_EC_HARDWARE_ATTR	OBJECT_GUID	CASCADE
SPRT_EC_DEVICE_FK1	SPRT_EC_DEVICE	HARDWARE_GUID	SET NULL
SPRT_EC_CAP_HW_FW_XREF_FK2	SPRT_EC_CAP_HW_FW_XREF	EC_HW_GUID	CASCADE

SPRT_EC_HARDWARE_ATTR

This table maintains the attributes and values associated with a hardware.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
ATTR_DEF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_ATTR_DEF.GUID.
OBJECT_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_HARDWARE.GUID.
ATTR_INDEX	NUMBER(5)		No	The index value used for arrays of complex attributes. For simple attributes, this value is 0.
ATTR_VALUE	NVARCHAR2(1333)		Yes	Value of the attribute.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_HARDWARE_ATTR_IDX1	NORMAL	OBJECT_GUID
SPRT_EC_HARDWARE_ATTR_IDX2	NORMAL	ATTR_DEF_GUID
SPRT_EC_HARDWARE_ATTR_PK	UNIQUE	GUID
SPRT_EC_HARDWARE_ATTR_UK	UNIQUE	ATTR_DEF_GUID, OBJECT_GUID, ATTR_INDEX

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_HARDWARE_ATTR_FK1	ATTR_DEF_GUID	SPRT_EC_ATTR_DEF	NO ACTION
SPRT_EC_HARDWARE_ATTR_FK2	OBJECT_GUID	SPRT_EC_HARDWARE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_HW_FW_XREF

This table maintains the relationships between hardware and firmware. If it does not already exist, an entry is automatically created in this table whenever a device registers with a specific hardware and firmware.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_HW_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_HARDWARE.GUID.
EC_FW_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_FIRMWARE.GUID.
EC_FILE_ID	NUMBER(9)		Yes	Optional file which, when specific, will override the file used to upgrade the firmware for this hardware. This can be used when the same firmware version manifests as multiple firmware images, depending on the hardware architecture.
STATUS	VARCHAR2(32)		No	The status of the firmware-hardware relationship. VALID - meaning devices of this hardware may be upgraded to the matching firmware. DEPRECATED - meaning that this firmware should no be propagated to devices with this hardware. OBSOLETE - meaning the system should proactively attempt to upgrade any hardware currently using this firmware. RECOMMENDED - this is a special case of VALID, and only one firmware per hardware can have this status. UNQUALIFIED - the default for an automatically added hardware and firmware relationship. Combinations with this status need to be reviewed and changed to the appropriate status.
EC_TARGET_FW_GUID	VARCHAR2(36)	NULL	Yes	Foreign key to SPRT_EC_FIRMWARE.GUID. If specified, this is the preferred firmware to upgrade the hardware to, when it is currently running the firmware specified by EC_FW_GUID. This field is ignored if the STATUS is UNQUALIFIED or RECOMMENDED.

Field Name	Type	Default	Nullable	Description
USE_RECOMMENDED	CHAR(1)	'N'	No	If 'Y', another firmware associated with the same hardware with a status of RECOMMENDED is forcing an automated firmware upgrade. Otherwise, the firmware specified by EC_FW_GUID is the preferred firmware to upgrade use for any device of the hardware specified by EC_HW_GUID and during using the firmware specified by EC_FW_GUID. This field is ignored if the STATUS is UNQUALIFIED or RECOMMENDED.

Indexes

Name	Type	Columns
SPRT_EC_HW_FW_XREF_IDX1	UNIQUE	EC_HW_GUID, EC_FW_GUID
SPRT_EC_HW_FW_XREF_IDX2	NORMAL	EC_HW_GUID
SPRT_EC_HW_FW_XREF_IDX3	NORMAL	EC_FW_GUID
SPRT_EC_HW_FW_XREF_IDX4	NORMAL	EC_FILE_ID
SPRT_EC_HW_FW_XREF_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_HW_FW_XREF_FK3	EC_FILE_ID	SPRT_EC_FILE	NO ACTION
SPRT_EC_HW_FW_XREF_FK2	EC_FW_GUID	SPRT_EC_FIRMWARE	CASCADE
SPRT_EC_HW_FW_XREF_FK1	EC_HW_GUID	SPRT_EC_HARDWARE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_JOB

This table holds the jobs currently defined in the system. Jobs are an internal concept used by features such as report scheduling.

Field Name	Type	Default	Nullable	Description
JOB_ID	NUMBER(9)		No	Primary Key.
EC_AGENT_ID	NUMBER(9)	NULL	Yes	Foreign key to SPRT_EC_AGENT.ID, specifying the agent (if any) that the job must run on.
NAME	NVARCHAR2(64)		No	Unique job name.
NOTIFICATION_NAME	NVARCHAR2(256)	NULL	Yes	Notification for the job that is used to register the job.

Field Name	Type	Default	Nullable	Description
JOB_MODULE	NVARCHAR2(256)	NULL	Yes	Job Module reference for agent jobs to know which job module to execute.

Indexes

Name	Type	Columns
SPRT_EC_JOB_IDX1	UNIQUE	NAME
SPRT_EC_JOB_IDX2	NORMAL	EC_AGENT_ID
SPRT_EC_JOB_PK	UNIQUE	JOB_ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_JOB_FK1	EC_AGENT_ID	SPRT_EC_AGENT	SET NULL

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_POLICY_FK2	SPRT_SG_POLICY	EC_JOB_ID	NO ACTION
SPRT_EC_SCHEDULE_FK1	SPRT_EC_SCHEDULE	EC_JOB_ID	CASCADE
SPRT_EC_REPORT_JOB_FK1	SPRT_EC_REPORT_JOB	EC_JOB_ID	CASCADE
SPRT_EC_JOB_STATUS_HIST_FK1	SPRT_EC_JOB_STATUS_HIST	EC_JOB_ID	CASCADE
SPRT_EC_JOB_STATUS_FK1	SPRT_EC_JOB_STATUS	EC_JOB_ID	CASCADE
SPRT_EC_GROUP_JOB_XREF_FK2	SPRT_EC_GROUP_JOB_XREF	EC_JOB_ID	CASCADE
SPRT_EC_AGENT_JOB_XREF_FK2	SPRT_EC_AGENT_JOB_XREF	EC_JOB_ID	CASCADE
SPRT_EC_AGENT_JOB_PARAM_FK1	SPRT_EC_AGENT_JOB_PARAM	EC_JOB_ID	CASCADE
SPRT_EC_AGENT_JOB_FK1	SPRT_EC_AGENT_JOB	EC_JOB_ID	CASCADE

SPRT_EC_JOB_LOCK

This table holds a single record that is used as a lock for the job execution process.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.

Field Name	Type	Default	Nullable	Description
JOB_TIME	DATE	SYSDATE	No	The time the lock was last acquired. This is not cleared or updated when the lock is released.
JOB_INTERVAL	NUMBER(9)	60	No	This column is not currently used.
IS_LOCKED	NVARCHAR2(32)		No	'Y' if the lock is currently held by a job execution process. 'N' if the lock is not held.

Indexes

There are no indexes defined for this table.

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_JOB_STATUS

This table maintains the current status of each job, with some statistics about the current or most recent execution.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.
EC_JOB_ID	NUMBER(9)		No	Foreign key to SPRT_EC_JOB.ID.
EC_AGENT_ID	NUMBER(9)	NULL	Yes	Foreign key to SPRT_EC_AGENT.ID, indicating the agent that a currently running job is using if applicable to the job.
JOB_STATE	NUMBER(2)		No	1 = Ready, 2 = In Progress, 3 = Suspended, 4 = Stopped, 5 = Completed, 6 = Failed.
JOB_DURATION	NUMBER(10)	NULL	Yes	The duration of the job in seconds.
TIME_STARTED	DATE	NULL	Yes	The time that a job was started.
TIME_COMPLETED	DATE	NULL	Yes	The time that a job completed.
ESTIMATED_COMPLETION	DATE	NULL	Yes	The time the job is estimated to complete. Value is based on of the totalNum Tasks and tasksComplete.
PERCENT_COMPLETE	NUMBER(3)	0	Yes	The percentage value representing how much of a job is complete. Initialized to 0, represented as a whole number.

Field Name	Type	Default	Nullable	Description
NUM_TASKS_TOTAL	NUMBER(9)	NULL	Yes	Total number of tasks for this particular job .
NUM_TASKS_COMPLETE	NUMBER(9)	NULL	Yes	Number of successfully completed tasks for this job.
NUM_TASKS_FAILED	NUMBER(9)	NULL	Yes	Number of failed tasks for this job.
AVG_TASK_TIME	NUMBER(9)	NULL	Yes	The average time fora task to complete, represented in milliseconds.
COMMENTS	NVARCHAR2(256)	NULL	Yes	This column is not currently used.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_JOB_STATUS_IDX1	NORMAL	EC_JOB_ID, EC_AGENT_ID
SPRT_EC_JOB_STATUS_IDX2	NORMAL	EC_AGENT_ID
SPRT_EC_JOB_STATUS_IDX3	NORMAL	EC_JOB_ID
SPRT_EC_JOB_STATUS_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_JOB_STATUS_FK2	EC_AGENT_ID	SPRT_EC_AGENT	SET NULL
SPRT_EC_JOB_STATUS_FK1	EC_JOB_ID	SPRT_EC_JOB	CASCADE

References from other tables

There are no other tables that define a foreign key constaint on records in this table.

SPRT_EC_JOB_STATUS_HIST

This table maintains a history of jobs executed by the job manager.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary key.

Field Name	Type	Default	Nullable	Description
EC_JOB_ID	NUMBER(9)		No	Foreign key to SPRT_EC_JOB.ID, specifying the job this history record is for.
EC_AGENT_ID	NUMBER(9)	NULL	Yes	Foreign key to SPRT_EC_AGENT.ID, indicating the agent that this job was executed on, if applicable to the job type.
JOB_STATE	NUMBER(2)	NULL	Yes	4 = Stopped, 5 = Completed, 6 = Failed.
JOB_DURATION	NUMBER(10)	NULL	Yes	The duration of the job in seconds.
TIME_STARTED	DATE	NULL	Yes	The time that a job was started.
TIME_COMPLETED	DATE	NULL	Yes	The time that a job completed.
PERCENT_COMPLETE	NUMBER(3)	0	Yes	The percentage representation of how much of a job is complete. The value is based on of the totalNumTasks and tasksComplete.
NUM_TASKS_TOTAL	NUMBER(9)	NULL	Yes	The number of total tasks for this job.
NUM_TASKS_COMPLETE	NUMBER(9)	NULL	Yes	Number of successfully completed tasks for this job.
NUM_TASKS_FAILED	NUMBER(9)	NULL	Yes	Number of failed tasks for this job.
AVG_TASK_TIME	NUMBER(9)	NULL	Yes	The average time to complete a task, represented in milliseconds.
COMMENTS	NVARCHAR2(256)	NULL	Yes	This column is not currently used.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.

Indexes

Name	Type	Columns
SPRT_EC_JOB_STATUS_HIST_IDX1	NORMAL	EC_JOB_ID
SPRT_EC_JOB_STATUS_HIST_IDX2	NORMAL	EC_AGENT_ID
SPRT_EC_JOB_STATUS_HIST_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_JOB_STATUS_HIST_FK2	EC_AGENT_ID	SPRT_EC_AGENT	SET NULL
SPRT_EC_JOB_STATUS_HIST_FK1	EC_JOB_ID	SPRT_EC_JOB	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_KPI

This table holds the list of key performance indicators available to the performance monitoring features.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
NAME	NVARCHAR2(256)		No	The display name of this KPI.
DESCRIPTION	NVARCHAR2(1024)		No	A description of this KPI.
OBJECT_NAME	NVARCHAR2(256)		No	The object name of the JMX mbean that provides the values for this KPI.
OPERATION_NAME	NVARCHAR2(256)		No	The operation name of the JMX mbean that provides the values for this KPI.
I18N_DISPLAY_KEY	NVARCHAR2(256)	NULL	Yes	The property to use for internationalization of the KPI name.
GRAPH_TYPE	VARCHAR2(32)		No	The default type of graph used to display this KPI. Currently only LINE_GRAPH is supported.
SERVER_TYPE	VARCHAR2(32)		No	The type of server this KPI applies to. One of: ACS, ACS_API, APP_SERVER, DATABASE, STUN.
ALLOW_ON_DASHBOARD	VARCHAR2(32)		No	If this KPI may be displayed on the dashboard, this is TRUE. Otherwise FALSE.
PARTIAL_AGGREGATION_TYPE	VARCHAR2(32)		No	This column is not currently used.
SERVER_AGGREGATION_TYPE	VARCHAR2(32)		No	The method used to aggregate values from multiple application servers to arrive at the single KPI value for the system. One of: NONE, SUM, AVERAGE, MINIMUM, MAXIMUM.
RETURN_TYPE	VARCHAR2(32)		No	One of: INTEGER, LONG, FLOAT, DOUBLE, ARRAYLIST.
UNIT_TYPE	VARCHAR2(32)		No	The unit of the value returned by this KPI. One of: BYTES, BYTES_PER_SECOND, DURATION_IN_MS, DURATION_IN_SECONDS, NUMBER, PERCENTAGE, TIMESTAMP_IN_MS, TIMESTAMP_IN_SECONDS.

Field Name	Type	Default	Nullable	Description
UNIT_FORMAT	NVARCHAR2(128)	NULL	Yes	<p>For some unit types, this modifies the way the value is rendered.</p> <p>For duration types, the labels "hours", "days", "minutes" and "seconds" will be used if this field has a value of LONG, and will be abbreviated to different degrees if MEDIUM or SHORT is specified.</p> <p>For a unit type of NUMBER, this field holds the number of decimal places to display.</p>

Indexes

Name	Type	Columns
SPRT_EC_KPI_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_SERVER_LOAD_METRIC_FK1	SPRT_EC_SERVER_LOAD_METRIC	EC_KPI_GUID	NO ACTION
SPRT_EC_PERFMON_KPI_XREF_FK2	SPRT_EC_PERFMON_KPI_XREF	EC_KPI_GUID	CASCADE
SPRT_EC_KPI_PARAM_FK1	SPRT_EC_KPI_PARAM	EC_KPI_GUID	NO ACTION
SPRT_EC_DASHBOARD_KPI_FK2	SPRT_EC_DASHBOARD_KPI	EC_KPI_GUID	NO ACTION

SPRT_EC_KPI_PARAM

This table maintains the list of input parameter when calling the JMX object referenced by SPRT_EC_KPI.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_KPI_GUID	VARCHAR2(36)		No	Foreign Key to SPRT_EC_KPI.GUID. The KPI that this parameter is for.
PARAM_NAME	VARCHAR2(128)		No	The name of the parameter.
PARAM_TYPE	VARCHAR2(32)		No	One of: INTEGER, LONG, FLOAT, DOUBLE, ARRAYLIST.
ORDINAL	NUMBER(5)		No	The location of this parameter in the array of parameters. The first parameter is 1.

Indexes

Name	Type	Columns
SPRT_EC_KPI_PARAM_PK	UNIQUE	GUID
SPRT_EC_KPI_PARAM_IDX1	NORMAL	EC_KPI_GUID
SPRT_EC_KPI_PARAM_IDX2	NORMAL	ORDINAL

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_KPI_PARAM_FK1	EC_KPI_GUID	SPRT_EC_KPI	NO ACTION

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_MENU_OPTION

This table stores the custom menu options that have been added to the user interface.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_REALM_GUID	VARCHAR2(36)	NULL	Yes	Foreign key to SPRT_EC_REALM.GUID. The menu option will only be visible to users that are a member of this realm.
EC_ROLE_GUID	VARCHAR2(36)	NULL	Yes	Foreign key to SPRT_EC_ROLE.GUID. The menu option will only be visible to users that have this role.
NAME	NVARCHAR2(256)		No	The display name of the menu option, if DISPLAY_TOKEN is not provided.
DISPLAY_TOKEN	NVARCHAR2(256)	NULL	Yes	Optional display token name, used for localization of the menu option name.
URL	NVARCHAR2(1000)		No	The URL the user is sent to when the menu option is selected.
PARENT_MENU	NVARCHAR2(32)		No	This specifies the top-level menu that the custom option will appear within. One of: NONE, ADMINISTRATION, CAPABILITY, INVENTORY, CONFIGURATION, POLICY, REPORT, HELP, TOOLS.
OPTION_TYPE	VARCHAR2(32)		No	Specifies the type of menu option. Only URL types are currently supported, which open up a new browser window or tab. One of: URL, NONE
CREATED	DATE	SYSDATE	No	Date upon creation.

Field Name	Type	Default	Nullable	Description
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_MENU_OPTION_IDX1	NORMAL	EC_REALM_GUID
SPRT_EC_MENU_OPTION_IDX2	NORMAL	EC_ROLE_GUID
SPRT_EC_MENU_OPTION_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_MENU_OPTION_FK1	EC_REALM_GUID	SPRT_EC_REALM	CASCADE
SPRT_EC_MENU_OPTION_FK2	EC_ROLE_GUID	SPRT_EC_ROLE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_METRICS_DEF

This table defines a set of queries that are regularly executed and values stored in SPRT_EC_METRICS_HIST, to track key product usage metrics over time.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary key.
EC_PRODUCT_ID	NUMBER(9)		No	The ID of the product that this metric applies to.
NAME	NVARCHAR2(128)		No	The name of the metric.
TYPE	NUMBER(2)		No	The type of metric. One of: 1 (ADOPTIVE), 2 (USAGE), 3 (EFFECTIVENESS).
ORACLE_QUERY	NVARCHAR2(1333)		No	The query to use against an Oracle database to gather the statistic.
MSSQL_QUERY	NVARCHAR2(1333)		No	The query to use against a SQL Server database to gather the statistic.

Field Name	Type	Default	Nullable	Description
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_METRICS_DEF_IDX1	NORMAL	EC_PRODUCT_ID
SPRT_EC_METRICS_DEF_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_METRICS_FK1	EC_PRODUCT_ID	SPRT_EC_PRODUCT	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_METRICS_HIST_FK1	SPRT_EC_METRICS_HIST	EC_METRICS_ID	CASCADE

SPRT_EC_METRICS_HIST

This table stores the results of a set of queries, defined in SPRT_EC_METRICS_DEF, that are regularly executed to track key product usage metrics over time.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.
EC_METRICS_ID	NUMBER(9)		No	Foreign key to SPRT_EC_METRICS_DEF.ID.
RESULT	NVARCHAR2(1333)		No	The result of the metrics query that was executed.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_METRICS_HIST_IDX1	NORMAL	EC_METRICS_ID
SPRT_EC_METRICS_HIST_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_METRICS_HIST_FK1	EC_METRICS_ID	SPRT_EC_METRICS_DEF	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_NETBLOCK

This table stores the networks associated with a domain, for the purpose of assigning a domain to a device upon first registration based on its IP Address.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary key.
EC_REALM_GUID	VARCHAR2(36)		No	The Realm that this network's devices belong to by default.
EC_AD_ID	NUMBER(9)		No	The Admin Domain that this network's devices belong to by default.
BASE_IP_ADDRESS	VARCHAR2(39)		No	The network number.
END_IP_ADDRESS	VARCHAR2(39)	NULL	Yes	The end of an IP address range.
CIDR_BITS	NUMBER(3)		No	The number of bits in the netmask of this network (from 0 to 128).
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_NETBLOCK_IDX1	NORMAL	EC_AD_ID
SPRT_EC_NETBLOCK_IDX2	NORMAL	EC_REALM_GUID
SPRT_EC_NETBLOCK_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_NETBLOCK_FK2	EC_AD_ID	SPRT_EC_AD	CASCADE
SPRT_EC_NETBLOCK_FK1	EC_REALM_GUID	SPRT_EC_REALM	NO ACTION

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_NOTIFICATION

This table holds lists of SQL queries to be performed prior to carrying out an action, such as deleting a record, to help determine if the action can proceed.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.
NAME	NVARCHAR2(128)		No	The notification name used to uniquely represent this notification.
TASK_TYPE	NVARCHAR2(12)		No	The type used to determine how to execute the sql. Currently, the only type is 'EXISTS', which simply executes a query via the defined SQL.
SQL	NVARCHAR2(1032)		No	The sql that will be executed when executing this notification.
ERROR_MESSAGE	NVARCHAR2(256)		No	The error message to report back to the UI in the event that the notification doesn't return cleanly.

Indexes

Name	Type	Columns
SPRT_EC_NOTIFICATION_PK	UNIQUE	ID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_OBJ_TYPE

This table contains the names of all object types that can have attributes or audit logs associated with them.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
NAME	VARCHAR2(256)		No	Programmatic name of the object.

Indexes

Name	Type	Columns
SPRT_EC_OBJ_TYPE_PK	UNIQUE	GUID
SPRT_EC_OBJ_TYPE_UK	UNIQUE	NAME

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_ATTR_DEF_OBJ_XREF_FK2	SPRT_EC_ATTR_DEF_OBJ_XREF	OBJ_TYPE_GUID	CASCADE

SPRT_EC_PARTITION_PURGING

This table holds the list of tables that can participate in the partition purging mechanism. Tables referenced can be those that can be partitioned, as well as those that reference tables that can be partitioned. The latter will contain a query that is used to ensure that none of its records reference the parent table partition prior to the partition being dropped.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
PARENT_ GUID	VARCHAR2(36)		Yes	The parent table, if this table has columns that reference a table that can be partitioned.
TABLE_NAME	VARCHAR2(64)		No	The name of the table.
PARTITION_ PREFIX	VARCHAR2(21)		No	A string to use at the beginning of each partition name. A date string is appended to this for each partition.

Field Name	Type	Default	Nullable	Description
PURGE_STATUS	VARCHAR2(32)	'DISABLED'	No	One of: ENABLED, DISABLED. If DISABLED, this table will not participate in the partition purging process. This is the default state until manually enabled after the table (or parent table) has been partitioned by a DBA.
PURGE_TYPE	VARCHAR2(32)		No	One of: DELETE, PARTITION, REFERENCE. The type of action used on the table by the partition purging process. If DELETE, a delete query will be executed. If PARTITION, any partitions older than a given number of days will be dropped. If REFERENCE, tables will automatically be purged based when the parent table is purged.
DELETE_QUERY	VARCHAR2(512)		Yes	If PURGE_TYPE is DELETE, this is the delete that will be executed to drop any records that may be referencing a table partition that is about to be dropped.
TABLESPACE_NAME	VARCHAR2(4000)		Yes	The tablespace name to use when creating a new partition for this table. This may be given as a Velocity script, to allow tablespace names to be dynamically specified (e.g. one per month, or round robin, etc.).
NUMBER_OF_DAYS	NUMBER(5)		No	If PURGE_TYPE is PARTITION, this is the number of days delete that will be executed to drop any records that may be referencing a table partition that is about to be dropped.
ORDINAL	NUMBER(5)		No	The order in which the tables are processed by the partition purging process.
WINDOW_START_TIME	DATE		Yes	Optional start time of a daily maintenance window in which the partition purging process is permitted to operate on this table.
WINDOW_LENGTH	NUMBER(4)		Yes	Optional length of daily maintenance window in which the partition purging process is permitted to operate on this table.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_PARTITION_PURGING_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_PARTITION_PURGING_LOCK

This table holds a single record that is used as a lock for the partition purging job.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
PURGE_TIME	DATE	SYSDATE	No	The time the lock was last acquired. This is not cleared or updated when the lock is released.
PURGE_INTERVAL	NUMBER(9)	60	No	This column is not currently used.
IS_LOCKED	NVARCHAR2(32)		No	'Y' if the lock is currently held by a purging job.

Indexes

There are no indexes defined for this table.

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_PERFMON

This table maintains the real-time performance monitoring graphs defined.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_PERFMON_UI_STATE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_PERFMON_UI_STATE.GUID. The layout this graph is associated with.
NAME	NVARCHAR2(256)		No	The name of the graph.
WIDTH	NUMBER(5)		No	The width of the graph, in pixels.
HEIGHT	NUMBER(5)		No	The height of the graph, in pixels.
UPDATE_FREQ	NUMBER(4)		No	The frequency up the updates, in seconds.
MAX_DURATION	NUMBER(4)		No	The amount of time represented by the width of the X-axis.
GRAPH_TYPE	VARCHAR2(32)		No	The type of graph. Currently the only value supported is LINE_GRAPH.

Indexes

Name	Type	Columns
SPRT_EC_PERFMON_IDX1	NORMAL	EC_PERFMON_UI_STATE_GUID
SPRT_EC_PERFMON_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_PERFMON_FK1	EC_PERFMON_UI_STATE_GUID	SPRT_EC_PERFMON_UI_STATE	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_PERFMON_KPI_XREF_FK1	SPRT_EC_PERFMON_KPI_XREF	EC_PERFMON_GUID	CASCADE

SPRT_EC_PERFMON_KPI_SRV_XREF

When configuring a performance monitor graph, some KPIs can be graphed per server or for a group of servers. This table maintains the list of servers for just KPIs associated with a graph.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_PERFMON_KPI_XREF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_PERFMON_KPI_XREF.GUID.
EC_SERVER_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_SERVER.GUID.

Indexes

Name	Type	Columns
SPRT_EC_PM_KPI_SRV_XREF_IDX1	NORMAL	EC_PERFMON_KPI_XREF_GUID
SPRT_EC_PM_KPI_SRV_XREF_IDX2	NORMAL	EC_SERVER_GUID
SPRT_EC_PM_KPI_SRV_XREF_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_PM_KPI_SRV_XREF_FK1	EC_PERFMON_KPI_XREF_GUID	SPRT_EC_PERFMON_KPI_XREF	CASCADE
SPRT_EC_PM_KPI_SRV_XREF_FK2	EC_SERVER_GUID	SPRT_EC_SERVER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_PERFMON_KPI_XREF

This table maintains the KPIs associated with each performance monitoring graph.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_PERFMON_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_PERFMON.GUID, specifying the performance monitoring graph.
EC_KPI_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_KPI.GUID, specifying the KPI to plot on this graph.
COLOUR	NUMBER(9)		No	The colour of the line.
WIDTH	NUMBER(2)		No	The width of the line.

Indexes

Name	Type	Columns
SPRT_EC_PERFMON_KPI_XREF_IDX1	NORMAL	EC_PERFMON_GUID
SPRT_EC_PERFMON_KPI_XREF_IDX2	NORMAL	EC_KPI_GUID
SPRT_EC_PERFMON_KPI_XREF_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_PERFMON_KPI_XREF_FK2	EC_KPI_GUID	SPRT_EC_KPI	CASCADE
SPRT_EC_PERFMON_KPI_XREF_FK1	EC_PERFMON_GUID	SPRT_EC_PERFMON	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_PM_KPI_SRV_XREF_FK1	SPRT_EC_PERFMON_KPI_SRV_XREF	EC_PERFMON_KPI_XREF_GUID	CASCADE

SPRT_EC_PERFMON_UI_STATE

This table holds the location of each performance monitoring graph defined in the UI layout for each user.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_USER_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_USER.GUID, specifying the user this layout information is for.
TAB_NAME	NVARCHAR2(128)		No	The name of the tab this monitor will be displayed on.
TAB_ORDER	NUMBER(4)		No	The order in which the tab will appear across the top of the UI, starting with 0.
COL_NUM	NUMBER(4)		No	The column number that the monitor will be displayed in.
VPOS	NUMBER(4)		No	The vertical order of the this monitor within the column.

Indexes

Name	Type	Columns
SPRT_EC_PERFMON_UI_STATE_IDX1	NORMAL	EC_USER_GUID
SPRT_EC_PERFMON_UI_STATE_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_PERFMON_UI_STATE_FK1	EC_USER_GUID	SPRT_EC_USER	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_PERFMON_FK1	SPRT_EC_PERFMON	EC_PERFMON_UI_STATE_GUID	CASCADE

SPRT_EC_PLUGIN_REGISTRY

This table holds the list of plugins that are present in the system. Most of these plugins are extended by tables that are specific to the plugin type. This table holds the metadata application to most or all plugin types.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
TYPE	VARCHAR2(32)		No	The type of plugin. One of: ACTION, TECHNICAL_CONFIGURATION, CSR_MODULE, ACS_PREPROCESSOR.
NAME	NVARCHAR2(256)		No	The name of the plugin.
NAME_TOKEN	NVARCHAR2(256)		No	The property used for internationalization of the plugin name.
GLOBAL_CONFIG_URL	NVARCHAR2(256)		Yes	The URL of the global configuration screen for the plugin. This is NULL if no global configuration screen is provided. This has the format "internal:<identifier>" for build-in plugins which have their UI component built-in to the primary Service Gateway UI.
STATUS	VARCHAR2(32)		No	One of: ENABLED, DISABLED.
CLASS_NAME	NVARCHAR2(256)	NULL	Yes	The name of the class acting as the programmatic entry point to the plugin, implementing an interface specific to the plugin type.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
I18N_PROPERTIES_FILE	NVARCHAR2(256)		Yes	The name of a properties file used by the plugin for localization.

Indexes

Name	Type	Columns
SPRT_EC_PLUGIN_REGISTRY_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_TC_PLUGIN_FK1	SPRT_SG_TC_PLUGIN	EC_PLUGIN_REGISTRY_GUID	CASCADE
SPRT_SG_CSR_MODULE_FK1	SPRT_SG_CSR_MODULE	EC_PLUGIN_REGISTRY_GUID	NO ACTION
SPRT_SG_ACTION_FK1	SPRT_SG_ACTION	EC_PLUGIN_REGISTRY_GUID	NO ACTION
SPRT_SG_ACS_PREPROCESSOR_FK1	SPRT_SG_ACS_PREPROCESSOR	EC_PLUGIN_REGISTRY_GUID	NO ACTION
SPRT_EC_PLUGREG_ROLE_XREF_FK1	SPRT_EC_PLUGIN_REG_ROLE_XREF	EC_PLUGIN_REGISTRY_GUID	CASCADE

SPRT_EC_PLUGIN_REG_ROLE_XREF

This table maintains a list of roles required by a user to access a plugin.

Field Name	Type	Default	Nullable	Description
EC_PLUGIN_REGISTRY_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_PLUGIN_REGISTRY.GUID.
EC_ROLE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_ROLE.GUID.

Indexes

Name	Type	Columns
SPRT_EC_PLUGINREG_ROLE_XREF_PK	UNIQUE	EC_PLUGIN_REGISTRY_GUID, EC_ROLE_GUID
SPRT_EC_PLUGINREG_ROLE_XR_IDX1	NORMAL	EC_PLUGIN_REGISTRY_GUID
SPRT_EC_PLUGINREG_ROLE_XR_IDX2	NORMAL	EC_ROLE_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_PLUGREG_ROLE_XREF_FK1	EC_PLUGIN_REGISTRY_GUID	SPRT_EC_PLUGIN_REGISTRY	CASCADE
SPRT_EC_PLUGREG_ROLE_XREF_FK2	EC_ROLE_GUID	SPRT_EC_ROLE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_PREF_GROUP

This table contains the preference groups that are used to logically group preferences into related categories.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.
NAME	NVARCHAR2(256)		No	The group name.
I18N_DISPLAY_KEY	NVARCHAR2(256)	NULL	Yes	The display key for the group name, used for UI localization.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_PREF_GROUP_PK	UNIQUE	ID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_SYSTEM_PREF_FK1	SPRT_EC_SYSTEM_PREF	GROUP_ID	CASCADE

SPRT_EC_PRODUCT

This table holds a list of products that are installed.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Well-known and constant ID per product.
NAME	NVARCHAR2(256)		No	The English name of the product.
PROPERTY_TOKEN	NVARCHAR2(256)		No	The property used for localization.
INSTALLED	NUMBER(1)		No	Indicates whether or not the product is the product actually installed. Products that aren't installed are allowed to exist here to maintain foreign key relationships for default data and *during* installation of a product. 0 = not installed, 1 = installed.
URL	NVARCHAR2(256)	NULL	Yes	URL of the installed product.

Field Name	Type	Default	Nullable	Description
INSTALLED_VERSION	NVARCHAR2(32)	NULL	Yes	Version number of the product installed.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_PRODUCT_PK	UNIQUE	ID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_ACTION_CONF_FK2	SPRT_SG_ACTION_CONF	EC_PRODUCT_ID	NO ACTION
SPRT_EC_SYSTEM_PREF_FK2	SPRT_EC_SYSTEM_PREF	EC_PRODUCT_ID	CASCADE
SPRT_EC_ROLE_FK1	SPRT_EC_ROLE	EC_PRODUCT_ID	CASCADE
SPRT_EC_METRICS_FK1	SPRT_EC_METRICS_DEF	EC_PRODUCT_ID	CASCADE

SPRT_EC_REALM

This table maintains the realms defined in the system, which are used for content-based access control. Any object that is confined to a realm is associated with one of the records in this table. Only users that are associated with the realm of the object may see the object.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
NAME	NVARCHAR2(64)		No	The display name of the realm.
DESCRIPTION	NVARCHAR2(256)	NULL	Yes	An optional description of the realm.
APPLICATION_DEFAULT	CHAR(1)	'N'	No	If 'Y', this is the default realm for new devices. Only one record in this table may have this field set to 'Y'.
CREATED	DATE	SYSDATE	No	Date upon creation.

Field Name	Type	Default	Nullable	Description
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_REALM_IDX1	UNIQUE	NAME
SPRT_EC_REALM_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_TC_FK1	SPRT_SG_TC	EC_REALM_GUID	CASCADE
SPRT_SG_SMM_DEF_FK1	SPRT_SG_SMM_DEF	EC_REALM_GUID	NO ACTION
SPRT_SG_POLICY_FK1	SPRT_SG_POLICY	REALM_GUID	NO ACTION
SPRT_SG_CWMPPARAM_MAP_FK1	SPRT_SG_CWMPPARAM_MAP	EC_REALM_GUID	NO ACTION
SPRT_SG_CSR_RTP_FK1	SPRT_SG_CSR_RTP	EC_REALM_GUID	CASCADE
SPRT_SG_CSR_DIAG_SERVER_FK1	SPRT_SG_CSR_DIAG_SERVER	EC_REALM_GUID	CASCADE
SPRT_EC_USER_REALM_XREF_FK2	SPRT_EC_USER_REALM_XREF	EC_REALM_GUID	CASCADE
SPRT_EC_SUBSCRIBER_FK1	SPRT_EC_SUBSCRIBER	EC_REALM_GUID	NO ACTION
SPRT_EC_SERVICE_FK2	SPRT_EC_SERVICE	EC_REALM_GUID	NO ACTION
SPRT_EC_REPORT_REALM_XREF_FK2	SPRT_EC_REPORT_REALM_XREF	EC_REALM_GUID	CASCADE
SPRT_EC_NETBLOCK_FK1	SPRT_EC_NETBLOCK	EC_REALM_GUID	NO ACTION
SPRT_EC_MENU_OPTION_FK1	SPRT_EC_MENU_OPTION	EC_REALM_GUID	CASCADE
SPRT_EC_HARDWARE_FK1	SPRT_EC_HARDWARE	EC_REALM_GUID	NO ACTION
SPRT_EC_GROUP_REALM_XREF_FK2	SPRT_EC_GROUP_REALM_XREF	EC_REALM_GUID	CASCADE
SPRT_EC_FIRMWARE_FK1	SPRT_EC_FIRMWARE	EC_REALM_GUID	NO ACTION
SPRT_EC_FILESERVER_FK1	SPRT_EC_FILESERVER	EC_REALM_GUID	NO ACTION
SPRT_EC_FILE_FK1	SPRT_EC_FILE	EC_REALM_GUID	NO ACTION
SPRT_EC_DEVICE_FK4	SPRT_EC_DEVICE	EC_REALM_GUID	NO ACTION

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_CAPABILITY_FK2	SPRT_EC_CAPABILITY	EC_REALM_GUID	NO ACTION
SPRT_EC_ATTR_GROUP_FK1	SPRT_EC_ATTR_GROUP	REALM_GUID	CASCADE
SPRT_EC_AD_FK2	SPRT_EC_AD	EC_REALM_GUID	CASCADE

SPRT_EC_RECORD_PURGING

This tables contains the queries that are executed each time the purgeRecords job is run by the timer. They are generally used to prune historical tables using delete statements, but update statements may be used as well to reset records after a certain time. System preferences can be referenced within the queries, by specifying the name (SPRT_EC_SYSTEM_PREF.NAME) within braces, which will be replaced with the preference value before they are executed. The special token {now} will be replaced by a Timestamp object with the value of the current time.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
DEFAULT_STMT	NVARCHAR2(1333)		No	The default query to run if a query for the specific database type is not present.
ORACLE_STMT	NVARCHAR2(1333)		Yes	The query to run against an Oracle database.
SQLSERVER_STMT	NVARCHAR2(1333)		Yes	This column is no longer used.

Indexes

Name	Type	Columns
SPRT_EC_RECORD_PURGING_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_REPORT

This table holds the report definitions. A report is defined almost entirely within an XML document, which is stored in the XML column. Some of the element values from the XML document are extracted and stored in separate columns in this table, to enable querying on that data. When modifying a record directly, care should be taken to ensure that the XML content is synchronized with the extracted fields, since the extracted fields may be overwritten the next time the report is modified via the UI.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
NAME	NVARCHAR2(200)		Yes	The name of the report.
PATH	NVARCHAR2(200)		Yes	The location in the tree menu that this report will appear.
VERSION	NVARCHAR2(20)		Yes	The version of Service Gateway this report was added in.
EC_REPORT_XSL_GROUP_ID	NUMBER(9)		Yes	Foreign key to SPRT_EC_REPORT_XSL_GROUP.ID. This specifies the set of stylesheets used to render this report.
LASTMOD	DATE	SYSDATE	Yes	The date and time the report definition was last modified.
XML	NCLOB(4000)		Yes	The XML report definition.
DISPLAY_ORDER	NUMBER(9)	0	Yes	This column is not currently used.
ATTRIBUTES	NUMBER(2)	1	Yes	This is a bitfield, with each bit being a boolean value. bit 1 = hidden report, bit 2 = contains a Graph element.
REALM_ACCESS	NUMBER(1)	0	Yes	This column specifies which realms this report is available to. One of: NONE, ALL, SELECTED. If NONE, the report will only be available to users that are not realm-constrained. If ALL, all users will be able to use the report. If SELECTED, then only those realms explicitited associated with the report can view and run the report.

Indexes

Name	Type	Columns
SPRT_EC_REPORT_IDX1	NORMAL	EC_REPORT_XSL_GROUP_ID
SPRT_EC_REPORT_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_REPORT_FK	EC_REPORT_XSL_GROUP_ID	SPRT_EC_REPORT_XSL_GROUP	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_REPORT_SAVE_FK1	SPRT_EC_REPORT_SAVE	EC_REPORT_GUID	CASCADE
SPRT_EC_REPORT_REALM_XREF_FK1	SPRT_EC_REPORT_REALM_XREF	EC_REPORT_GUID	CASCADE
SPRT_EC_REPORT_LOG_FK1	SPRT_EC_REPORT_LOG	EC_REPORT_GUID	CASCADE
SPRT_EC_REPORT_JOB_FK2	SPRT_EC_REPORT_JOB	EC_REPORT_GUID	CASCADE

SPRT_EC_REPORT_JOB

This table holds a schedule for a report. Zero or more schedules for a given report may be defined. The timings and recurrence of the scheduled report are held in the SPRT_EC_JOB table.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.
EC_JOB_ID	NUMBER(9)		No	Foreign key to SPRT_EC_JOB.ID.
EC_REPORT_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_REPORT.GUID.
ENABLED	CHAR(1)	'N'	No	If 'Y', then this schedule is enabled. If 'N', it will be ignored.
SEND_EMAIL	CHAR(1)	'N'	No	If 'Y', an email will be sent when the report executes.
TO_LIST	NVARCHAR2(400)		Yes	A comma-delimited list of recipients for the email.
SENDER	NVARCHAR2(100)		Yes	The email address the email will appear from.
SUBJECT	NVARCHAR2(100)		Yes	The subject of the email message.
TYPE	NVARCHAR2(32)		Yes	The stylesheet to use to format the report.
BASEURL	NVARCHAR2(100)		Yes	The base URL, detected during setup of the scheduled, that will be used in the email when providing a link to the report.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_REPORT_JOB_IDX1	NORMAL	EC_REPORT_GUID
SPRT_EC_REPORT_JOB_IDX2	NORMAL	EC_JOB_ID
SPRT_EC_REPORT_JOB_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_REPORT_JOB_FK1	EC_JOB_ID	SPRT_EC_JOB	CASCADE
SPRT_EC_REPORT_JOB_FK2	EC_REPORT_GUID	SPRT_EC_REPORT	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_REPORT_JOB_PARAM_FK1	SPRT_EC_REPORT_JOB_PARAM	EC_REPORT_JOB_ID	CASCADE

SPRT_EC_REPORT_JOB_PARAM

This table contains the parameters required by a report that has been scheduled.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.
EC_REPORT_JOB_ID	NUMBER(9)		No	Foreign key to SPRT_EC_REPORT_JOB.ID.
NAME	NVARCHAR2(200)		Yes	The name of the parameter.
VALUE	NVARCHAR2(400)		Yes	The value of the parameter.

Indexes

Name	Type	Columns
SPRT_EC_REPORT_JOB_PARAM_IDX1	NORMAL	EC_REPORT_JOB_ID
SPRT_EC_REPORT_JOB_PARAM_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_REPORT_JOB_PARAM_FK1	EC_REPORT_JOB_ID	SPRT_EC_REPORT_JOB	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_REPORT_LOG

A log of reports that have been executed.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_REPORT_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_REPORT.GUID, indicating the report that was executed.
RUN_BY_USERNAME	NVARCHAR2(32)		No	The username of the user that executed the report.
RUN_DATE	DATE		No	The date and time the report was executed.
RUN_DURATION	NUMBER(9)		No	The amount of time taken to execute the report, in milliseconds.

Indexes

Name	Type	Columns
SPRT_EC_REPORT_LOG_IDX1	NORMAL	EC_REPORT_GUID
SPRT_EC_REPORT_LOG_IDX2	NORMAL	RUN_DATE
SPRT_EC_REPORT_LOG_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_REPORT_LOG_FK1	EC_REPORT_GUID	SPRT_EC_REPORT	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_REPORT_REALM_XREF

This table maintains the list of realms that a report is available to, if it has been configured to be restricted to a subset of all realms.

Field Name	Type	Default	Nullable	Description
EC_REPORT_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_REPORT.GUID.
EC_REALM_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_REALM.GUID.

Indexes

Name	Type	Columns
SPRT_EC_REPORT_REALM_XREF_IDX1	NORMAL	EC_REPORT_GUID
SPRT_EC_REPORT_REALM_XREF_IDX2	NORMAL	EC_REALM_GUID
SPRT_EC_REPORT_REALM_XREF_PK	UNIQUE	EC_REPORT_GUID, EC_REALM_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_REPORT_REALM_XREF_FK2	EC_REALM_GUID	SPRT_EC_REALM	CASCADE
SPRT_EC_REPORT_REALM_XREF_FK1	EC_REPORT_GUID	SPRT_EC_REPORT	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_REPORT_SAVE

This table retains a copy of the results of all reports executed.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
EC_REPORT_GUID	VARCHAR2(36)		No	Foreign Key to SPRT_EC_REPORT.GUID, indicating the report definition that was used to generate this result.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
TEMPORARY	CHAR(1)	'Y'	No	If 'Y', this report result will only be kept for a short period of time. If 'N', the report will be retained for a longer period, specified in system preferences.
XML	NCLOB(4000)		Yes	The report results in XML format.

Indexes

Name	Type	Columns
SPRT_EC_REPORT_SAVE_IDX1	NORMAL	EC_REPORT_GUID
SPRT_EC_REPORT_SAVE_IDX2	NORMAL	TEMPORARY, CREATED
SPRT_EC_REPORT_SAVE_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_REPORT_SAVE_FK1	EC_REPORT_GUID	SPRT_EC_REPORT	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_REPORT_XSL

This table holds the style sheets available to transform raw report results into a specific format (HTML, CSV, etc). The style sheets can be grouped, but only one record of each TYPE may belong to a single group.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.
EC_REPORT_XSL_GROUP_ID	NUMBER(9)		No	Foreign key to SPRT_EX_REPORT_XSL_GROUP.ID. The group that this style sheet belongs to.
TYPE	NUMBER(2)		No	The type of output this style sheet produces. One of: 1 (HTML), 2 (E-Mail), 3 (CSV), 4 (Graph), 5 (Other).
STANDARD	CHAR(1)	'N'	No	One of 'Y' or 'N'. If 'Y', then the style sheet is a built-in default, and cannot be modified via the UI.
XSL	NCLOB(4000)		Yes	The XSL content.
CREATED	DATE		No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE		No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_REPORT_XSL_IDX1	UNIQUE	EC_REPORT_XSL_GROUP_ID, TYPE
SPRT_EC_REPORT_XSL_IDX2	NORMAL	EC_REPORT_XSL_GROUP_ID
SPRT_EC_REPORT_XSL_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_REPORT_XSL_FK1	EC_REPORT_XSL_GROUP_ID	SPRT_EC_REPORT_XSL_GROUP	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_REPORT_XSL_GROUP

This table holds the groups of style sheets that are available for use by a report. A style sheet group may contain one or more style sheet, both only one of per format (html, csv, email, graph).

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.
NAME	NVARCHAR2(200)		No	The name of the group.
STANDARD	CHAR(1)	'N'	No	If 'Y', this is a built in style sheet group that cannot be modified via the UI, and is subject to being overwritten during an upgrade.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_RPTXSL_GRP_PK	UNIQUE	ID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_REPORT_XSL_FK1	SPRT_EC_REPORT_XSL	EC_REPORT_XSL_GROUP_ID	CASCADE
SPRT_EC_REPORT_FK	SPRT_EC_REPORT	EC_REPORT_XSL_GROUP_ID	CASCADE

SPRT_EC_ROLE

This table maintains the list of roles available to be associated with groups or users. Roles cannot be created or modified via the UI.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
ROLENAME	NVARCHAR2(256)		No	This is the role name used programatically within the application and application server descriptors.
DESCRIPTION	NVARCHAR2(256)	NULL	Yes	This is a short description of the role.
DELETABLE	CHAR(1)	'Y'	No	This field is not currently used.
DISPLAYABLE	CHAR(1)	'Y'	No	If 'Y', the role will be visible in the UI to assign to groups. If 'N', it will not be.
EC_PRODUCT_ID	NUMBER(9)		No	This field is not currently used.
CATEGORY	NUMBER(9)	NULL	Yes	This field is not currently used.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_ROLE_IDX1	UNIQUE	ROLENAME
SPRT_EC_ROLE_IDX2	NORMAL	EC_PRODUCT_ID
SPRT_EC_ROLE_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_ROLE_FK1	EC_PRODUCT_ID	SPRT_EC_PRODUCT	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_CSRMOD_ROLE_XREF_FK2	SPRT_SG_CSRMODULE_ROLE_XREF	EC_ROLE_GUID	CASCADE
SPRT_EC_USER_ROLE_XREF_FK2	SPRT_EC_USER_ROLE_XREF	EC_ROLE_GUID	CASCADE
SPRT_EC_PLUGREG_ROLE_XREF_FK2	SPRT_EC_PLUGIN_REG_ROLE_XREF	EC_ROLE_GUID	CASCADE
SPRT_EC_MENU_OPTION_FK2	SPRT_EC_MENU_OPTION	EC_ROLE_GUID	CASCADE
SPRT_EC_GROUP_ROLE_XREF_FK2	SPRT_EC_GROUP_ROLE_XREF	EC_ROLE_GUID	CASCADE

SPRT_EC_SCHEDULE

This table holds the schedules for each job managed by the job manager. This includes scheduled reports.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary key.
EC_JOB_ID	NUMBER(9)	NULL	Yes	Foreign key to SPRT_EC_JOB.ID.
START_TIME	DATE	NULL	Yes	Scheduled start time for the job.
MINUTE	NUMBER(2)	NULL	Yes	Minute value in the timestamp.
HOUR	NUMBER(2)	NULL	Yes	Hour value in the timestamp.
DAY_OF_MONTH	NUMBER(2)	NULL	Yes	Day of the month value in the timestamp.
MONTH	NUMBER(2)	NULL	Yes	Month value on which this job must run.
DAY_OF_WEEK	NUMBER(1)	NULL	Yes	Day of the week on which this job must run.
LAST_RUN	DATE	NULL	Yes	Last time this job was run.
IS_ENABLED	CHAR(1)	'Y'	No	If 'Y', this job can be run. If 'N', this job cannot be run.
IS_RECURRING	CHAR(1)	'N'	No	This job will run at the next scheduled time. If this value is 'N', the job will only run once.

Field Name	Type	Default	Nullable	Description
IS_ALWAYS_RUNNING	CHAR(1)	'N'	No	If this field is 'Y', it indicates that the job is always running as part of a system job.
INTERVAL	NUMBER(5)	NULL	Yes	The interval in minutes at which a user may want to run a job.
END_DATE	DATE		Yes	In a recurring job with an end date, this is the end date. If a recurring job has no end date then this is NULL.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_SCHEDULE_IDX1	NORMAL	EC_JOB_ID
SPRT_EC_SCHEDULE_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_SCHEDULE_FK1	EC_JOB_ID	SPRT_EC_JOB	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_SCHEMA_VERSION

This table holds a single record containing the current version of the schema.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.
VERSION	NVARCHAR2(64)		No	The version of enCore that this schema is compatible with.

Indexes

Name	Type	Columns
SPRT_EC_SCHEMA_VERSION_PK	UNIQUE	ID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_SERVER

This table holds a list of servers known to the system.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SERVER_NAME	NVARCHAR2(256)		No	The name of the server.
DESCRIPTION	NVARCHAR2(256)	NULL	Yes	An optional description of the server.
HOSTNAME	NVARCHAR2(256)		No	The hostname of the server.
PORT	NUMBER(9)		No	The primary port the server is listening on.
SERVER_TYPE	VARCHAR2(32)	'UNKNOWN'	No	The type of server. One of: ACS, ACS_API, APP_SERVER, DATABASE, STUN, UNKNOWN.
CONFIGURATION	VARCHAR2(4000)	NULL	Yes	This column is not currently used.
CURRENT_STATUS	VARCHAR2(32)	'UNKNOWN'	No	The current status, one of: STARTUP, RUNNING, SHUTDOWN, UNKNOWN.
CURRENT_STATUS_TIMESTAMP	DATE	SYSDATE	No	The date and time the status field was last updated.
SERVER_LOAD	NUMBER(11)	0	No	The current load of this server.
SERVER_LOAD_CONTRIBUTOR	VARCHAR2(32)	'NONE'	No	The current source of the highest load. One of: THREAD, CPU, MEMORY, DATABASE, KPI, NONE
LOAD_CONTRIBUTOR_GUID	VARCHAR2(36)	NULL	Yes	If SERVER_LOCAL_CONTRIBUTOR is KPI, this column holds the GUID of the KPI that provided the highest load.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_SERVER_IDX1	UNIQUE	SERVER_NAME
SPRT_EC_SERVER_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_ACS_PREPROCESSOR_FK2	SPRT_SG_ACS_PREPROCESSOR	EC_SERVER_GUID	NO ACTION
SPRT_SG_ACS_EVENTMGMT_FK1	SPRT_SG_ACS_EVENTMGMT	EC_SERVER_GUID	NO ACTION
SPRT_EC_SERVER_STATUS_FK1	SPRT_EC_SERVER_STATUS	EC_SERVER_GUID	CASCADE
SPRT_EC_SERVER_OPTION_FK2	SPRT_EC_SERVER_OPTION	EC_SERVER_GUID	CASCADE
SPRT_EC_PM_KPI_SRV_XREF_FK2	SPRT_EC_PERFMON_KPI_SRV_XREF	EC_SERVER_GUID	CASCADE

SPRT_EC_SERVER_LOAD_METRIC

This table maintains the list of KPIs that are used to determine the overall load of an application server.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_KPI_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_KPI.GUID.
THRESHOLD	NUMBER(11)		Yes	This is specified for KPIs that do not return a percentage, and represents the value of the KPI that means 100% load, used to derive a percentage load value to use.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_SERVERLOAD_METRIC_IDX1	NORMAL	EC_KPI_GUID
SPRT_EC_SERVER_LOAD_METRIC_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_SERVER_LOAD_METRIC_FK1	EC_KPI_GUID	SPRT_EC_KPI	NO ACTION

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_SERVER_OPTION

This table maintains the current option values for each server.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_SERVER_OPTION_DEF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_SERVER_OPTION.GUID, indicating the option this value is for.
EC_SERVER_GUID	VARCHAR2(36)	NULL	Yes	Foreign key to SPRT_EC_SERVER.GUID, indicating the server this option value is for.
OPTION_VALUE	NVARCHAR2(1024)	NULL	Yes	The value of the option.
ACCESS_TYPE	VARCHAR2(32)	'LOCAL'	No	This indicates if the option value was configured locally to the server (such as a properties file), or remotely (in this table). If it was configured locally, the option value in this record should be considered read-only. One of: LOCAL, REMOTE.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_SERVER_OPTION_IDX1	NORMAL	EC_SERVER_OPTION_DEF_GUID
SPRT_EC_SERVER_OPTION_IDX2	NORMAL	EC_SERVER_GUID
SPRT_EC_SERVER_OPTION_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_SERVER_OPTION_FK2	EC_SERVER_GUID	SPRT_EC_SERVER	CASCADE
SPRT_EC_SERVER_OPTION_FK1	EC_SERVER_OPTION_DEF_GUID	SPRT_EC_SERVER_OPTION_DEF	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_SERVER_OPTION_DEF

This table contains the definitions of options available to servers.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SERVER_TYPE	VARCHAR2(32)	'UNKNOWN'	No	The type of server this option can be used with.
OPTION_NAME	NVARCHAR2(256)	NULL	Yes	The name of this option.
I18N_DISPLAY_KEY	NVARCHAR2(256)	NULL	Yes	The property used for internationalization of the option name.
OPTION_TYPE	VARCHAR2(32)	'READ_ONLY'	No	The type of access permitted for this option. One of: READ_ONLY, NOT_OVERRIDABLE, OVERRIDABLE. An OVERRIDABLE option can be edited on a per-server basis. A NOT_OVERRIDABLE option can only have its default modified. A READ_ONLY option cannot be modified at all.
RESTART_REQUIRED	VARCHAR2(32)	'FALSE'	No	If TRUE, then a restart of the server is required after this option is modified.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_SERVER_OPTION_DEF_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_SERVER_OPTION_ENUM_FK1	SPRT_EC_SERVER_OPTION_ENUM	EC_SERVER_OPTION_DEF_GUID	CASCADE
SPRT_EC_SERVER_OPTION_FK1	SPRT_EC_SERVER_OPTION	EC_SERVER_OPTION_DEF_GUID	CASCADE

SPRT_EC_SERVER_OPTION_ENUM

This table contains the lists of possible values for options which contain dropdown lists.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_SERVER_OPTION_DEF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_SERVER_OPTION_DEF.GUID. The definition this value is available for.
I18N_DISPLAY_KEY	NVARCHAR2(256)	NULL	Yes	The property used for internationalization of this option value.
ENUM_VALUE	NVARCHAR2(64)		No	A possible value for this option.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_SERVER_OPTION_ENUM_IX1	NORMAL	EC_SERVER_OPTION_DEF_GUID
SPRT_EC_SERVER_OPTION_ENUM_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_SERVER_OPTION_ENUM_FK1	EC_SERVER_OPTION_DEF_GUID	SPRT_EC_SERVER_OPTION_DEF	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_SERVER_STATUS

This table maintains a history of status and runtime information for each server.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_SERVER_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_SERVER.GUID.
STATUS	VARCHAR2(32)	'UNKNOWN'	No	The status of the server at the time the record was written. One of: STARTUP, RUNNING, SHUTDOWN, UNKNOWN.
STATUS_TIMESTAMP	DATE	SYSDATE	No	The date and time the record was written.
AVAILABLE_PROCESSORS	NUMBER(10)		Yes	The number of processors available to the server process.
CPU_LOAD_AVERAGE	NUMBER(9)		Yes	The load average reported by the operating system that this server is running on.
FREE_MEMORY	NUMBER(19)		Yes	The amount of free memory in bytes, reported by the JVM.
MAX_MEMORY	NUMBER(19)		Yes	The maximum available memory in bytes, reported by the JVM.
TOTAL_MEMORY	NUMBER(19)		Yes	The total allocated memory in bytes, reported by the JVM.
THREAD_COUNT	NUMBER(10)		Yes	The current number of threads running in the JVM.
MAX_THREADS	NUMBER(9)		Yes	The maximum amount of threads available.
UPTIME	NUMBER(19)		Yes	The uptime of the JVM.

Indexes

Name	Type	Columns
SPRT_EC_SERVER_STATUS_IDX1	NORMAL	STATUS_TIMESTAMP
SPRT_EC_SERVER_STATUS_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_SERVER_STATUS_FK1	EC_SERVER_GUID	SPRT_EC_SERVER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_SERVICE

This table maintains the list of services known to the system.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.
NAME	NVARCHAR2(64)		No	Service name.
CODE	NVARCHAR2(64)		Yes	Optional service code, which can be used to map this service to a billing system record.
EC_REALM_GUID	VARCHAR2(36)		No	The realm that this service can be used within.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_SERVICE_IDX1	UNIQUE	NAME, EC_REALM_GUID
SPRT_EC_SERVICE_IDX2	NORMAL	EC_REALM_GUID
SPRT_EC_SERVICE_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_SERVICE_FK2	EC_REALM_GUID	SPRT_EC_REALM	NO ACTION

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_SERVICE_CONF_FK1	SPRT_SG_SERVICE_CONF	EC_SERVICE_ID	CASCADE
SPRT_SG_ACT_SERVICE_SUB_I_FK2	SPRT_SG_ACT_SERVICE_SUB_I	SERVICE_ID	SET NULL
SPRT_EC_SUB_SER_XR_FK2	SPRT_EC_SUB_SERVICE_XREF	EC_SERVICE_ID	CASCADE
SPRT_EC_SERVICE_ATTR_FK2	SPRT_EC_SERVICE_ATTR	OBJECT_ID	CASCADE
SPRT_EC_DEV_SER_XR_FK2	SPRT_EC_DEVICE_SERVICE_XREF	EC_SERVICE_ID	CASCADE

SPRT_EC_SERVICE_ATTR

This table maintains the attributes and values associated with a service.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
ATTR_DEF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_ATTR_DEF.GUID.
OBJECT_ID	NUMBER(9)		No	Foreign key to SPRT_EC_SERVICE.GUID.
ATTR_INDEX	NUMBER(5)		No	The index value used for arrays of complex attributes. For simple attributes, this value is 0.
ATTR_VALUE	NVARCHAR2(1333)		Yes	The value of the attribute.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_SERVICE_ATTR_IDX1	NORMAL	OBJECT_ID
SPRT_EC_SERVICE_ATTR_IDX2	NORMAL	ATTR_DEF_GUID
SPRT_EC_SERVICE_ATTR_PK	UNIQUE	GUID
SPRT_EC_SERVICE_ATTR_UK	UNIQUE	ATTR_DEF_GUID, OBJECT_ID, ATTR_INDEX

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_SERVICE_ATTR_FK1	ATTR_DEF_GUID	SPRT_EC_ATTR_DEF	NO ACTION
SPRT_EC_SERVICE_ATTR_FK2	OBJECT_ID	SPRT_EC_SERVICE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_SMTP_SERVER

A list of SMTP servers used to dispatch email messages from the system.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SMTP_HOST	NVARCHAR2(256)		No	The SMTP Server address.
SMTP_PORT	NUMBER(9)	25	No	The SMTP Server port.
AUTH_REQUIRED	NVARCHAR2(32)	'FALSE'	No	Indicates whether or not authentication is required to access this SMTP server. If this is set to 'TRUE' then authentication must succeed, even if the SMTP server does not strictly require it.
AUTH_USER	NVARCHAR2(256)	NULL	Yes	The username to use during SMTP authentication.
AUTH_PASSWORD	NVARCHAR2(256)	NULL	Yes	The password to use during SMTP authentication.
PRIORITY	NUMBER(9)		No	The priority order for this SMTP Server.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_SMTP_SERVER_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_SUBSCRIBER

This table holds information about each subscriber.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary key.
FIRST_NAME	NVARCHAR2(64)	NULL	Yes	Subscriber first name.
MIDDLE_NAME	NVARCHAR2(64)	NULL	Yes	Subscriber middle name.
LAST_NAME	NVARCHAR2(64)	NULL	Yes	Subscriber last name.
COMPANY_NAME	NVARCHAR2(128)	NULL	Yes	Subscriber company name.
PHONE_NUMBER	NVARCHAR2(64)	NULL	Yes	Subscriber phone number.
BILLING_NUMBER	NVARCHAR2(32)	NULL	Yes	Subscriber billing number.
ADDRESS	NVARCHAR2(128)	NULL	Yes	Subscriber address.
ADDRESS2	NVARCHAR2(128)	NULL	Yes	Subscriber address 2.
CITY	NVARCHAR2(64)	NULL	Yes	Subscriber city.
STATE	NVARCHAR2(64)	NULL	Yes	Subscriber state/province.
COUNTRY	NVARCHAR2(64)	NULL	Yes	Subscriber country.
EMAIL_ADDRESS	NVARCHAR2(128)	NULL	Yes	Subscriber email address.
POSTAL_CODE	NVARCHAR2(64)	NULL	Yes	Subscriber postal/zip code.
EC_REALM_GUID	VARCHAR2(36)	NULL	Yes	The realm to which this subscriber belongs. This is NULL for Enterprise account types.
ACCOUNT_TYPE	NUMBER(2)	0	No	The type of subscriber account. 0 = Normal, 1 = Enterprise.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.

Field Name	Type	Default	Nullable	Description
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_SUBSCRIBER_IDX1	FUNCTION-BASED	UPPER(REPLACE("FIRST_NAME",U' '))
SPRT_EC_SUBSCRIBER_IDX2	FUNCTION-BASED	UPPER(REPLACE("LAST_NAME",U' '))
SPRT_EC_SUBSCRIBER_IDX3	FUNCTION-BASED	UPPER("ADDRESS")
SPRT_EC_SUBSCRIBER_IDX4	FUNCTION-BASED	"SPRT_EC_UTIL"."TRIMPHONENUMBER"("PHONE_NUMBER")
SPRT_EC_SUBSCRIBER_IDX5	FUNCTION-BASED	UPPER("EMAIL_ADDRESS")
SPRT_EC_SUBSCRIBER_IDX6	FUNCTION-BASED	UPPER("BILLING_NUMBER")
SPRT_EC_SUBSCRIBER_IDX7	NORMAL	EC_REALM_GUID
SPRT_EC_SUBSCRIBER_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_SUBSCRIBER_FK1	EC_REALM_GUID	SPRT_EC_REALM	NO ACTION

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_SUBSCRIBER_USR_XR_FK1	SPRT_EC_SUBSCRIBER_USER_XREF	EC_SUBSCRIBER_ID	CASCADE
SPRT_EC_SUBSCRIBER_DEV_XR_FK1	SPRT_EC_SUBSCRIBER_DEVICE_XREF	EC_SUBSCRIBER_ID	CASCADE
SPRT_EC_SUBSCRIBER_ATTR_FK2	SPRT_EC_SUBSCRIBER_ATTR	OBJECT_ID	CASCADE
SPRT_EC_SUB_SER_XR_FK1	SPRT_EC_SUB_SERVICE_XREF	EC_SUBSCRIBER_ID	CASCADE

SPRT_EC_SUBSCRIBER_ATTR

This table maintains the attributes and values associated with a subscriber.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.

Field Name	Type	Default	Nullable	Description
ATTR_DEF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_ATTR_DEF.GUID.
OBJECT_ID	NUMBER(9)		No	Foreign key to SPRT_EC_SUBSCRIBER.ID.
ATTR_INDEX	NUMBER(5)		No	The index value used for arrays of complex attributes. For simple attributes, this value is 0.
ATTR_VALUE	NVARCHAR2(1333)		Yes	The value of the attribute.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_SUBSCRIBER_ATTR_IDX1	NORMAL	ATTR_DEF_GUID
SPRT_EC_SUBSCRIBER_ATTR_IDX2	NORMAL	OBJECT_ID
SPRT_EC_SUBSCRIBER_ATTR_PK	UNIQUE	GUID
SPRT_EC_SUBSCRIBER_ATTR_UK	UNIQUE	ATTR_DEF_GUID, OBJECT_ID, ATTR_INDEX

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_SUBSCRIBER_ATTR_FK1	ATTR_DEF_GUID	SPRT_EC_ATTR_DEF	NO ACTION
SPRT_EC_SUBSCRIBER_ATTR_FK2	OBJECT_ID	SPRT_EC_SUBSCRIBER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_SUBSCRIBER_DEVICE_XREF

This table maintains the list of devices associated with a subscriber. A subscriber can be associated with more than one device, but a device cannot be associated with more than one subscriber.

Field Name	Type	Default	Nullable	Description
EC_SUBSCRIBER_ID	NUMBER(9)		No	Foreign key to SPRT_EC_SUBSCRIBER.ID.

Field Name	Type	Default	Nullable	Description
EC_DEVICE_ID	NUMBER(9)		No	Foreign key to SPRT_EC_DEVICE.ID.

Indexes

Name	Type	Columns
SPRT_EC_SUBSCRIBER_DEV_XR_IDX1	UNIQUE	EC_DEVICE_ID
SPRT_EC_SUBSCRIBER_DEV_XR_IDX2	NORMAL	EC_SUBSCRIBER_ID
SPRT_EC_SUBSCRIBER_DEV_XR_PK	UNIQUE	EC_SUBSCRIBER_ID, EC_DEVICE_ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_SUBSCRIBER_DEV_XR_FK2	EC_DEVICE_ID	SPRT_EC_DEVICE	CASCADE
SPRT_EC_SUBSCRIBER_DEV_XR_FK1	EC_SUBSCRIBER_ID	SPRT_EC_SUBSCRIBER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_SUBSCRIBER_USER_XREF

This table maintains the list of subscribers associated with an enterprise user.

Field Name	Type	Default	Nullable	Description
EC_SUBSCRIBER_ID	NUMBER(9)		No	Foreign key to SPRT_EC_SUBSCRIBER.ID.
EC_USER_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_USER.GUID.

Indexes

Name	Type	Columns
SPRT_EC_SUBSCRIBER_USR_XR_IDX1	NORMAL	EC_USER_GUID
SPRT_EC_SUBSCRIBER_USR_XR_IDX2	NORMAL	EC_SUBSCRIBER_ID
SPRT_EC_SUBSCRIBER_USR_XR_PK	UNIQUE	EC_SUBSCRIBER_ID, EC_USER_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_SUBSCRIBER_USR_XR_FK1	EC_SUBSCRIBER_ID	SPRT_EC_SUBSCRIBER	CASCADE

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_SUBSCRIBER_USR_XR_FK2	EC_USER_GUID	SPRT_EC_USER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_SUB_SERVICE_XREF

This table maintains the list of services associated with each subscriber. When the system needs to determine the services associated with a device, those services directly associated via the SPRT_EC_DEVICE_SERVICE_XREF table are merged with those associated with the subscriber of the device, via this table.

Field Name	Type	Default	Nullable	Description
EC_SUBSCRIBER_ID	NUMBER(9)		No	Foreign key to SPRT_EC_SUBSCRIBER.ID.
EC_SERVICE_ID	NUMBER(9)		No	Foreign key to SPRT_EC_SERVICE.ID.

Indexes

Name	Type	Columns
SPRT_EC_SUB_SER_XR_IDX1	NORMAL	EC_SUBSCRIBER_ID
SPRT_EC_SUB_SER_XR_IDX2	NORMAL	EC_SERVICE_ID
SPRT_EC_SUB_SER_XR_PK	UNIQUE	EC_SUBSCRIBER_ID, EC_SERVICE_ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_SUB_SER_XR_FK2	EC_SERVICE_ID	SPRT_EC_SERVICE	CASCADE
SPRT_EC_SUB_SER_XR_FK1	EC_SUBSCRIBER_ID	SPRT_EC_SUBSCRIBER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_SYSTEM_KEY

This table holds the list of system keys for the device and subscriber tables. This allows control over how many of the built-in fields on these tables are used, as well as allows custom fields to be added to the SPRT_EC_DEVICE table. The actual addition of the field must have already been carried out by the installation process or after the fact by a DBA.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary key.
I18N_DISPLAY_KEY	NVARCHAR2(256)		No	The property used for internationalization of the name of the system key.
TABLE_NAME	NVARCHAR2(64)		No	The name of the table the key resides in.
FIELD_NAME	NVARCHAR2(64)		No	The name of the field the key resides in.
FORMAT	NVARCHAR2(768)		Yes	A regular expression specifying the required format of the value of the system key.
SYSTEM_KEY_TYPE	NUMBER(3)		No	Currently, the only valid value for this field is 1.
IS_ENABLED	CHAR(1)	'Y'	No	If 'Y', the system key is available for user, otherwise 'N'.
IS_SYSTEM_DEFINED	CHAR(1)	'Y'	No	If 'Y', the system key is defined as part of the base product. If 'N', it has been added during installation or after.
IS_UNIQUE	CHAR(1)	'Y'	No	If 'Y', the value of the system key is assumed to be unique. A check is done prior to updating a record to ensure no other record has the same value.
IS_CLEAR_DUPLICATES	CHAR(1)	'N'	No	If 'Y', and if IS_UNIQUE is 'Y', then any duplicate system key values found while saving a record due to an automated process will be set to NULL. This does not apply to manually edited records.
IS_SEARCHABLE	CHAR(1)	'Y'	No	If 'Y', the system key will appear in search dropdowns for the record. Otherwise 'N'.
IS_DISPLAYED_SEARCH_RESULT	CHAR(1)	'Y'	No	If 'Y', the system key will appear in search results for the record. Otherwise 'N'.
IS_USER_WRITABLE	CHAR(1)	'Y'	No	If 'Y', the system key will be editable on edit screens of the record. Otherwise 'N'.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
TRANSFORM_SCRIPT	CLOB(4000)		Yes	An optional JavaScript script that provides two methods to transform a Display value to a Storage value and vice versa.
TRANSFORM_TEST_VALUE	NVARCHAR2(128)	NULL	Yes	A value to use to validate the two methods in the TRANSFORM_SCRIPT.

Indexes

Name	Type	Columns
SPRT_EC_SYSTEM_KEY_PK	UNIQUE	ID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_CWMPPARAM_MAP_FK2	SPRT_SG_CWMPPARAM_MAP	EC_SYSTEM_KEY_ID	CASCADE

SPRT_EC_SYSTEM_PREF

This table holds the system-wide preferences definitions and current values.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary key. When adding customer preferences, an ID larger than 10000 should be used.
GROUP_ID	NUMBER(9)	0	No	Foreign key to SPRT_EC_PREF_GROUP.ID. The preference group to which this preference belongs.
EC_PRODUCT_ID	NUMBER(9)		No	The product this preference is used by.
NAME	NVARCHAR2(64)		No	Unique preference reference name.
I18N_DISPLAY_KEY	NVARCHAR2(256)	NULL	Yes	The property used for internationalization of the preference name.
PREF_TYPE	NUMBER(1)		No	Preference type for the preference: 0 = String, 1 = Boolean, 2 = Long, 3 = Double.
VALUE	NVARCHAR2(1333)		No	Application preferences value. In the case of Boolean, 'Y' means true and 'N' means false.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Field Name	Type	Default	Nullable	Description
OVERRIDE_TYPE	VARCHAR2(32)	'NOT_OVERRIDABLE'	No	This field specifies whether the system-wide value for the preference may be specified on a per user basis, either by the user themselves (OVERRIDABLE) or an administrator (ADMIN_OVERRIDABLE). A value of NOT_OVERRIDABLE indicates that only a single system-wide value is permitted. A value of READ_ONLY implies NOT_OVERRIDABLE and further indicates that the value cannot be changed via the UI.
CACHEABLE	CHAR(1)	'Y'	No	If this flag is 'N', the value of the preference will not be cached in memory, requiring a database lookup each time it is needed.

Indexes

Name	Type	Columns
SPRT_EC_SYSTEM_PREF_IDX1	UNIQUE	EC_PRODUCT_ID, NAME
SPRT_EC_SYSTEM_PREF_IDX2	NORMAL	GROUP_ID
SPRT_EC_SYSTEM_PREF_IDX3	NORMAL	EC_PRODUCT_ID
SPRT_EC_SYSTEM_PREF_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_SYSTEM_PREF_FK1	GROUP_ID	SPRT_EC_PREF_GROUP	CASCADE
SPRT_EC_SYSTEM_PREF_FK2	EC_PRODUCT_ID	SPRT_EC_PRODUCT	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_EC_USER_PREF_FK1	SPRT_EC_USER_PREF	EC_SYSTEM_PREF_ID	CASCADE
SPRT_EC_SYSTEM_PREF_OPT_FK1	SPRT_EC_SYSTEM_PREF_OPTION	EC_SYSTEM_PREF_ID	CASCADE

SPRT_EC_SYSTEM_PREF_OPTION

This table contains the lists of possible values for preferences which contain dropdown lists.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.

Field Name	Type	Default	Nullable	Description
EC_SYSTEM_PREF_ID	NUMBER(9)	NULL	Yes	Foreign key to SPRT_EC_SYSTEM_PREF.ID. The preference this value is available for.
OPTION_TEXT	NVARCHAR2(64)		No	The option name displayed in the UI.
OPTION_VALUE	NVARCHAR2(64)		No	The option value stored in SPRT_EC_SYSTEM_PREF.VALUE when this option is selected.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_SYSTEM_PREF_OPT_IDX1	NORMAL	EC_SYSTEM_PREF_ID
SPRT_EC_SYSTEM_PREF_OPT_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_SYSTEM_PREF_OPT_FK1	EC_SYSTEM_PREF_ID	SPRT_EC_SYSTEM_PREF	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_TEMP_FILE

This table is used to hold a file temporarily until it has been committed to a specific table. For example, when a new object is being created via the UI which requires a file to be specified, the file is uploaded to the system and stored in this table until the record has been created for the object, after which the file is moved from this table to the proper record. There is a purging job to remove stale records, such as when a file was uploaded, but the creation was subsequently aborted or abandoned.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
FILEDATA	BLOB(4000)		No	The temporary file content.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.

Indexes

Name	Type	Columns
SPRT_EC_TEMP_FILE_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_USER

This table contains all of the users known to the system, and is used for authentication by the application server.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
USERNAME	NVARCHAR2(256)		No	Username of user.
DESCRIPTION	NVARCHAR2(256)	NULL	Yes	Optional description for the user.
FIRST_NAME	NVARCHAR2(64)	NULL	Yes	User's first name.
LAST_NAME	NVARCHAR2(64)	NULL	Yes	User's last name.
EMAIL_ADDRESS	NVARCHAR2(256)	NULL	Yes	User's email address.
PASSWORD	NVARCHAR2(64)		No	User's password (hashed).
DELETABLE	CHAR(1)	'Y'	No	Indicates whether or not this user can be deleted via the UI.
DISPLAYABLE	CHAR(1)	'Y'	No	Indicates whether or not this user is visible via the UI.
IS_REALM_USER	CHAR(1)	'N'	No	Indicates whether or not this user is realm-constrained.
IS_ENTERPRISE_USER	CHAR(1)	'N'	No	Indicates whether or not this user is enterprise-constrained.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
EXPIRY	DATE	NULL	Yes	Expiry date after which the user can no longer log in.

Field Name	Type	Default	Nullable	Description
PW_CHANGE_DATE	DATE	SYSDATE	No	The date and time when the user most recently changed their password.
PW_MAX_AGE_DAYS	NUMBER(9)	0	No	The number of days the user's password is allowed to remain unchanged. Once the age has been reached, the user is forced to change their password the next time they log in. A value of 0 disables this feature.
PW_MIN_AGE_MINUTES	NUMBER(9)	0	No	The minimum allowable minutes between password changes. If a user attempts to change their password twice within the specified time, they will be denied. This minimum does not apply if the user is forced to change their password after an administrator sets a temporary password and forces a change upon next login. Administrators are not subject to the minimum password age restriction.
PW_WARN_PERIOD_DAYS	NUMBER(9)	0	No	When a user logs in within the specified window (in days) before their password expires, they will be presented with a pop-up warning message notifying them of the amount of time they have left before their password expires. A value of 0 will disable this feature.
PW_FORCE_CHANGE_ON_LOGIN	CHAR(1)	'N'	No	A value of 'Y' will cause the system to prompt the user to change their password the next time they log in. Once they have done so, this value is reset to 'N'.
PW_HISTORY_LENGTH	NUMBER(9)	0	No	This specifies the number of previous passwords for the user that will be stored. When the user changes their own password, they will not be able to use any of these previous passwords. A value of 0 will disable this feature. Regardless of this setting, a user will never be able to set a new password to the same as their current password.

Indexes

Name	Type	Columns
SPRT_EC_USER_IDX1	UNIQUE	USERNAME
SPRT_EC_USER_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_USER_EVENTHOOK_FK1	SPRT_SG_USER_EVENTHOOK	EC_USER_GUID	CASCADE
SPRT_SG_USER_ACTION_XREF_FK1	SPRT_SG_USER_ACTION_XREF	EC_USER_GUID	CASCADE

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_CSR_UI_STATE_SRH_FK1	SPRT_SG_CSR_UI_STATE_SRH	EC_USER_GUID	CASCADE
SPRT_SG_CSR_UI_STATE_FK1	SPRT_SG_CSR_UI_STATE	EC_USER_GUID	CASCADE
SPRT_EC_USER_ROLE_XREF_FK1	SPRT_EC_USER_ROLE_XREF	EC_USER_GUID	CASCADE
SPRT_EC_USER_REALM_XREF_FK1	SPRT_EC_USER_REALM_XREF	EC_USER_GUID	CASCADE
SPRT_EC_USER_PW_HISTORY_FK1	SPRT_EC_USER_PW_HISTORY	EC_USER_GUID	CASCADE
SPRT_EC_USER_PREF_FK2	SPRT_EC_USER_PREF	EC_USER_GUID	CASCADE
SPRT_EC_USER_PRNTUSR_XRF_FK2	SPRT_EC_USER_PARENTUSER_XREF	EC_PARENTUSER_GUID	CASCADE
SPRT_EC_USER_PRNTUSR_XRF_FK1	SPRT_EC_USER_PARENTUSER_XREF	EC_USER_GUID	CASCADE
SPRT_EC_USER_GROUP_XREF_FK1	SPRT_EC_USER_GROUP_XREF	EC_USER_GUID	CASCADE
SPRT_EC_SUBSCRIBER_USR_XR_FK2	SPRT_EC_SUBSCRIBER_USER_XREF	EC_USER_GUID	CASCADE
SPRT_EC_PERFMON_UI_STATE_FK1	SPRT_EC_PERFMON_UI_STATE	EC_USER_GUID	CASCADE

SPRT_EC_USER_GROUP_XREF

This table maintains the group membership for each user.

Field Name	Type	Default	Nullable	Description
EC_USER_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_USER.GUID.
EC_GROUP_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_GROUP.GUID.

Indexes

Name	Type	Columns
SPRT_EC_USER_GROUP_XREF_IDX1	NORMAL	EC_USER_GUID
SPRT_EC_USER_GROUP_XREF_IDX2	NORMAL	EC_GROUP_GUID
SPRT_EC_USER_GROUP_XREF_PK	UNIQUE	EC_USER_GUID, EC_GROUP_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_USER_GROUP_XREF_FK2	EC_GROUP_GUID	SPRT_EC_GROUP	CASCADE
SPRT_EC_USER_GROUP_XREF_FK1	EC_USER_GUID	SPRT_EC_USER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_USER_PARENTUSER_XREF

This table maintains the relationship between enterprise users. Enterprise users can only manage other users if they are specifically associated with each other. Circular/meshed relationships between groups of users is supported.

Field Name	Type	Default	Nullable	Description
EC_USER_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_USER.GUID.
EC_PARENTUSER_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_USER.GUID.

Indexes

Name	Type	Columns
SPRT_EC_USER_PRNTUSR_XREF_IDX1	NORMAL	EC_USER_GUID
SPRT_EC_USER_PRNTUSR_XREF_IDX2	NORMAL	EC_PARENTUSER_GUID
SPRT_EC_USER_PRNTUSR_XRF_PK	UNIQUE	EC_USER_GUID, EC_PARENTUSER_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_USER_PRNTUSR_XRF_FK2	EC_PARENTUSER_GUID	SPRT_EC_USER	CASCADE
SPRT_EC_USER_PRNTUSR_XRF_FK1	EC_USER_GUID	SPRT_EC_USER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_USER_PREF

This table maintains the user-specific preference values for those system preferences that may be overridden. If a user does not have a preference value specified in this table for an overridable preference, the system-wide preference will be used.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.
EC_SYSTEM_PREF_ID	NUMBER(9)		No	The system preference that is being overridden for a user.
EC_USER_GUID	VARCHAR2(36)		No	User whose preference this is.

Field Name	Type	Default	Nullable	Description
VALUE	NVARCHAR2(1333)		No	User preference value.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_EC_USER_PREF_IDX1	UNIQUE	EC_SYSTEM_PREF_ID, EC_USER_GUID
SPRT_EC_USER_PREF_IDX2	NORMAL	EC_SYSTEM_PREF_ID
SPRT_EC_USER_PREF_IDX3	NORMAL	EC_USER_GUID
SPRT_EC_USER_PREF_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_USER_PREF_FK1	EC_SYSTEM_PREF_ID	SPRT_EC_SYSTEM_PREF	CASCADE
SPRT_EC_USER_PREF_FK2	EC_USER_GUID	SPRT_EC_USER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_USER_PW_HISTORY

This table maintains a history of recently used passwords, per user, as per user configuration (see SPRT_EC_USER.PW_HISTORY_LENGTH)

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_USER_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_USER.GUID.
PASSWORD	NVARCHAR2(64)	NULL	Yes	A password previously used by the user.
CREATED	DATE	SYSDATE	No	Date upon creation.

Indexes

Name	Type	Columns
SPRT_EC_USER_PW_HISTORY_IDX1	NORMAL	EC_USER_GUID
SPRT_EC_USER_PW_HISTORY_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_USER_PW_HISTORY_FK1	EC_USER_GUID	SPRT_EC_USER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_USER_REALM_XREF

This table maintains the list of realms that a realm-constrained user is constrained to.

Field Name	Type	Default	Nullable	Description
EC_USER_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_USER.GUID.
EC_REALM_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_REALM.GUID.

Indexes

Name	Type	Columns
SPRT_EC_USER_REALM_XREF_IDX1	NORMAL	EC_USER_GUID
SPRT_EC_USER_REALM_XREF_IDX2	NORMAL	EC_REALM_GUID
SPRT_EC_USER_REALM_XREF_PK	UNIQUE	EC_USER_GUID, EC_REALM_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_USER_REALM_XREF_FK2	EC_REALM_GUID	SPRT_EC_REALM	CASCADE
SPRT_EC_USER_REALM_XREF_FK1	EC_USER_GUID	SPRT_EC_USER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_EC_USER_ROLE_XREF

This table maintains a list of roles directly associated with a user. Roles cannot be associated with users directly via the UI, only through groups. The system does however, use this mechanism to associate EJB level roles to users when they are created.

Field Name	Type	Default	Nullable	Description
EC_USER_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_USER.GUID.
EC_ROLE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_ROLE.GUID.

Indexes

Name	Type	Columns
SPRT_EC_USER_ROLE_XREF_IDX1	NORMAL	EC_USER_GUID
SPRT_EC_USER_ROLE_XREF_IDX2	NORMAL	EC_ROLE_GUID
SPRT_EC_USER_ROLE_XREF_PK	UNIQUE	EC_USER_GUID, EC_ROLE_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_EC_USER_ROLE_XREF_FK2	EC_ROLE_GUID	SPRT_EC_ROLE	CASCADE
SPRT_EC_USER_ROLE_XREF_FK1	EC_USER_GUID	SPRT_EC_USER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_ACS

This table maintains the identities of the ACS servers (CWMP protocol servers) known to the system.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
ACS_NAME	NVARCHAR2(256)		No	The configured name of this ACS server.
HOSTNAME	NVARCHAR2(256)		Yes	The hostname of this ACS server.
IPADDRESS	VARCHAR2(256)		Yes	The IP Address of this ACS server.
CWMP_DATACOLLECTION	CHAR(1)		Yes	If 'Y', then data connection is enabled for this ACS, which will be stored in the SPRT_NC_CWMP_SESSION table and its child tables.

Indexes

Name	Type	Columns
SPRT_NC_ACS_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_NC_CWMP_SESSNDTL_FK2	SPRT_NC_CWMP_SESSIONDETAIL	NC_ACS_GUID	NO ACTION
SPRT_NC_CWMP_SESSION_FK1	SPRT_NC_CWMP_SESSION	NC_ACS_GUID	CASCADE
FK_SPRT_NC_ACS_STATUS_1	SPRT_NC_ACS_STATUS	NC_ACS_GUID	CASCADE

SPRT_NC_ACS_STATUS

This table is the parent table of a set of tables that contain historical information about each ACS server.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
NC_ACS_GUID	VARCHAR2(36)		No	Foreign key to SPRT_NC_ACS.GUID.
STATUS_TIMESTAMP	DATE		No	The date and time that the status of this ACS was recorded.
STATUS_TYPE	VARCHAR2(16)		No	The status of this ACS server at the time specified by STATUS_TIMESTAMP. One of: STARTUP, RUNNING, SHUTDOWN, UNKNOWN.

Indexes

Name	Type	Columns
IX_SPRT_NC_ACS_STATUS_1	NORMAL	STATUS_TIMESTAMP
IX_SPRT_NC_ACS_STATUS_2	NORMAL	NC_ACS_GUID
SPRT_NC_ACS_STATUS_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
FK_SPRT_NC_ACS_STATUS_1	NC_ACS_GUID	SPRT_NC_ACS	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_NC_ACS_STATUS_TICKLE_FK1	SPRT_NC_ACS_STATUS_TICKLE	NC_ACS_STATUS_GUID	CASCADE
FK_SPRT_NC_ACS_STATUS_RT_1	SPRT_NC_ACS_STATUS_RUNTIME	NC_ACS_STATUS_GUID	CASCADE
SPRT_NC_ACS_STATUS_ERROR_FK1	SPRT_NC_ACS_STATUS_ERROR	NC_ACS_STATUS_GUID	CASCADE

SPRT_NC_ACS_STATUS_ERROR

This table holds errors that occurred during the interval between heart messages from an ACS.

Field Name	Type	Default	Nullable	Description
NC_ACS_STATUS_GUID	VARCHAR2(36)		No	Foreign key to SPRT_NC_STATUS.GUID.
NC_CPE_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_NC_CPE.GUID, specifying the device that encountered the error.
REMOTE_ADDR	VARCHAR2(256)		Yes	The IP address of the device that encountered the error.
EVENT_TYPE	VARCHAR2(32)		No	The type of error event. One of: DEVICE_AUTH_FAILURE_DIGEST, DEVICE_AUTH_FAILURE_BASIC, MALFORMED_DEVICE_MESSAGE.

Indexes

Name	Type	Columns
SPRT_NC_ACS_STATUS_ERROR_IDX1	NORMAL	NC_ACS_STATUS_GUID
SPRT_NC_ACS_STATUS_ERROR_IDX2	NORMAL	NC_CPE_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_NC_ACS_STATUS_ERROR_FK1	NC_ACS_STATUS_GUID	SPRT_NC_ACS_STATUS	CASCADE
SPRT_NC_ACS_STATUS_ERROR_FK2	NC_CPE_GUID	SPRT_NC_CPE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_ACS_STATUS_RUNTIME

This table contains runtime statistics taken at the time a heartbeat message was received from an ACS.

Field Name	Type	Default	Nullable	Description
NC_ACS_STATUS_GUID	VARCHAR2(36)		No	Foreign key to SPRT_NC_ACS_STATUS.GUID, indicating the ACS server and time this status was received.
AVAILABLE_PROCESSORS	NUMBER(10)		Yes	The number of processors available to the ACS server process.
CPU_LOAD_AVERAGE	NUMBER(9)		Yes	The load average reported by the operating system that this ACS is running on.
FREE_MEMORY	NUMBER(19)		Yes	The amount of free memory in bytes, reported by the JVM.
MAX_MEMORY	NUMBER(19)		Yes	The maximum available memory in bytes, reported by the JVM.
TOTAL_MEMORY	NUMBER(19)		Yes	The total allocated memory in bytes, reported by the JVM.
THREAD_COUNT	NUMBER(10)		Yes	The current number of threads running in the JVM.
MAX_THREADS	NUMBER(9)		Yes	The maximum amount of threads available.
UPTIME	NUMBER(19)		Yes	The uptime of the JVM.

Indexes

Name	Type	Columns
IX_SPRT_NC_ACS_STATUS_RT_1	NORMAL	NC_ACS_STATUS_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
FK_SPRT_NC_ACS_STATUS_RT_1	NC_ACS_STATUS_GUID	SPRT_NC_ACS_STATUS	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_ACS_STATUS_TICKLE

This table maintains a record for each connection request (tickle) issued to a device.

Field Name	Type	Default	Nullable	Description
NC_ACS_STATUS_GUID	VARCHAR2(36)		No	The parent record, indicating the ACS server that reported this event, and the time that it was reported.
NC_CPE_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_NC_CPE.GUID. The device to which a connection request was attempted.
EVENT_TYPE	VARCHAR2(32)		No	One of: TICKLE_SUCCESS, TICKLE_HTTP503, TICKLE_FAIL, TICKLE_AUTHORIZED_FAIL.
TOTAL_TIME	NUMBER(10)		Yes	The time taken to carry out or attempt the connection request.

Indexes

Name	Type	Columns
SPRT_NC_ACS_STATUS_TICKLE_IDX1	NORMAL	NC_ACS_STATUS_GUID
SPRT_NC_ACS_STATUS_TICKLE_IDX2	NORMAL	NC_CPE_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_NC_ACS_STATUS_TICKLE_FK1	NC_ACS_STATUS_GUID	SPRT_NC_ACS_STATUS	CASCADE
SPRT_NC_ACS_STATUS_TICKLE_FK2	NC_CPE_GUID	SPRT_NC_CPE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_CPE

This table maintains the detail about a device, specific to the CWMP protocol.

Field Name	Type	Default	Nullable	Description
NC_CPE_GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary key.
NC_CPE_MANUFACTURER	NVARCHAR2(64)		No	The manufacturer reported by the device.
NC_CPE_OUI	NVARCHAR2(6)		No	The OUI reported by the device.
NC_CPE_PRODUCT_CLASS	NVARCHAR2(64)		Yes	The product class reported by the device.
NC_CPE_SERIAL_NUMBER	NVARCHAR2(64)		No	The serial number reported by the device.

Field Name	Type	Default	Nullable	Description
NC_CPE_HTTP_GET_URL	NVARCHAR2(256)	' '	Yes	The connection request URL provided by the device. This is used to initiate a connection to the device.
NC_CPE_WAN_IP	VARCHAR2(39)	NULL	Yes	The WAN IP address reported by the device. If the device reports multiple IP addresses, ACS configuration is used to select the most appropriate one.
NC_CPE_HARDWARE_VERSION	NVARCHAR2(64)		Yes	The hardware version reported by the device.
NC_CPE_SOFTWARE_VERSION	NVARCHAR2(64)		Yes	The firmware version reported by the device.
NC_CPE_SPEC_VERSION	CHAR(10)		Yes	The specification version reported by the device.
NC_CPE_PROV_CODE	NVARCHAR2(64)		Yes	The provisioning code reported by the device.
NC_CPE_BOOT_TIME	DATE		Yes	This column is not currently used.
NC_CPE_LAST_CONTACT_TIME	DATE		Yes	The last time the device was in communication with the ACS.
NC_CPE_REMOTE_ADDR	VARCHAR2(39)		Yes	This is the REMOTE_ADDR included in the TCP header, from the device that delivered the inform.
NC_CPE_CONN_REQUEST_USERNAME	NVARCHAR2(256)		Yes	The username to use during authentication with this device when issuing a connection request.
NC_CPE_CONN_REQUEST_PASSWORD	NVARCHAR2(256)		Yes	The password to use during authentication with this device when issuing a connection request.
NC_CPE_STUN_ENABLE	CHAR(1)		Yes	If 'Y', this device has STUN enabled. Otherwise 'N'.
NC_CPE_STUN_SERVER_ADDRESS	NVARCHAR2(256)		Yes	The server address for the STUN server for this device.
NC_CPE_STUN_SERVER_PORT	NUMBER(5)		Yes	The server port for the STUN server for this device.
NC_CPE_STUN_USERNAME	NVARCHAR2(256)		Yes	The server username for the STUN server for this device.
NC_CPE_STUN_PASSWORD	NVARCHAR2(256)		Yes	The server password for the STUN server for this device.
NC_CPE_UDP_CONN_REQUEST_ADDR	NVARCHAR2(256)		Yes	The UDP tickle address for the device for use with STUN.

Field Name	Type	Default	Nullable	Description
NC_CPE_NAT_DETECTED	CHAR(1)		Yes	If 'Y', the device has reported that it is behind a NAT device. Otherwise 'N'.
EC_DEVICE_ID	NUMBER(9)		Yes	Foreign key to SPRT_EC_DEVICE.ID.
NC_CPE_ACS_USERNAME	NVARCHAR2(256)		Yes	The username required to be supplied by the device, with CWMP authentication is enabled.
NC_CPE_ACS_PASSWORD	NVARCHAR2(256)		Yes	The password required to be supplied by the device, with CWMP authentication is enabled.
NC_CPE_ACS_AUTH_OVERRIDE	NUMBER(2)		Yes	This specified the authentication mode for this device, if the server-wide setting is not suitable. One of: 0 (None), 1 (Basic), 2 (Digest), 3 (Digest-Session), 4 (No Override)
NC_CPE_ACS_NONCE	NVARCHAR2(256)		Yes	The current Digest nonce for this device. If null then this there is no current nonce and the ACS will set a new nonce to use for the next CWMP session.
NC_CPE_ACS_AUTH_FAIL_COUNT	NUMBER(2)		Yes	The number of times this device has failed auth challenges.
NC_CPE_ACS_AUTH_PROV_FLAG	CHAR(1)		Yes	Returns the state of auth provisioning. When auth provisioning is in progress this will be 'Y'. When provisioning is complete this is 'N'. When the device is marked to reprovision auth this is 'R'. On the next Inform after provisioning is complete this is set to null. When it is null the ACS will start challenging the device for authentication.
NC_CPE_ACS_CR_REPROV_FLAG	CHAR(1)		Yes	Returns the state of connection request re-provisioning. When connection request re-provisioning is requested, this is set to "R". When re-provisioning is complete this is set to null.
NC_CPE_TR069_DATA_MODEL	NUMBER(1)		Yes	This indicates the Data Model Root of the device. One of: 0 (InternetGatewayDevice), 1 (Device).
NC_CPE_MAC_ADDRESS	VARCHAR2(12)		Yes	The MAC Address reported by the device. The MAC Address is only stored in this field, and in SPRT_EC_DEVICE, when the option to do so is enabled.
NC_CPE_PPP_USERNAME	NVARCHAR2(256)		Yes	The PPP Username reported by the device. The PPP Username is only stored in this field, and in SPRT_EC_DEVICE, when the option to do so is enabled.
NC_CPE_WAN_CONNECTION_TYPE	VARCHAR2(32)		Yes	One of: IP, PPP. This indicates the type of WAN interface the device is using, which influences the choice of file server the device will be directed towards for file downloads.

Indexes

Name	Type	Columns
IX_NC_CPE_WAN_IP	NORMAL	NC_CPE_WAN_IP
IX_SPRT_NC_CPE_1	NORMAL	NC_CPE_SERIAL_NUMBER
IX_SPRT_NC_CPE_2	NORMAL	EC_DEVICE_ID
IX_SPRT_NC_CPE_4	NORMAL	NC_CPE_STUN_USERNAME
IX_SPRT_NC_CPE_5	FUNCTION-BASED	TO_CHAR('NC_CPE_LAST_CONTACT_TIME','YYYY-MM-DD HH24:MI:SS')
PK_NC_CPE	UNIQUE	NC_CPE_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
FK_SPRT_NC_CPE_1	EC_DEVICE_ID	SPRT_EC_DEVICE	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
FK_SPRT_NC_SHARED_DATA_1	SPRT_NC_SHARED_DATA	NC_CPE_GUID	CASCADE
FK_SPRT_NC_SWQ_1	SPRT_NC_SERVER_WAITING_QUEUE	NC_CPE_GUID	CASCADE
FK_SPRT_NC_REQUEST_1	SPRT_NC_REQUEST	NC_CPE_GUID	CASCADE
SPRT_NC_INFRM_EVNT_CLM_FK1	SPRT_NC_INFORM_EVENT_CLAIM	NC_CPE_GUID	CASCADE
SPRT_NC_INFORM_EVENT_FK1	SPRT_NC_INFORM_EVENT	NC_CPE_GUID	CASCADE
FK_SPRT_NC_EVENT_LISTENER_1	SPRT_NC_EVENT_LISTENER	NC_CPE_GUID	CASCADE
SPRT_NC_DEVICERECORDING_FK1	SPRT_NC_DEVICERECORDING	NC_CPE_GUID	CASCADE
SPRT_NC_CWMP_SESSION_FK2	SPRT_NC_CWMP_SESSION	NC_CPE_GUID	CASCADE
SPRT_NC_CWMP_LAST_SESS_FK1	SPRT_NC_CWMP_LAST_SESSION	NC_CPE_GUID	CASCADE
SPRT_NC_CPE_WF_STATE_FK1	SPRT_NC_CPE_WF_STATE	NC_CPE_GUID	CASCADE
SPRT_NC_CPE_FW_UPGRADE_FK1	SPRT_NC_CPE_FW_UPGRADE	NC_CPE_GUID	CASCADE
SPRT_NC_CPE_CONNECTION_FK1	SPRT_NC_CPE_CONNECTION	NC_CPE_GUID	CASCADE
SPRT_NC_ACS_STATUS_TICKLE_FK2	SPRT_NC_ACS_STATUS_TICKLE	NC_CPE_GUID	CASCADE
SPRT_NC_ACS_STATUS_ERROR_FK2	SPRT_NC_ACS_STATUS_ERROR	NC_CPE_GUID	CASCADE

SPRT_NC_CPE_CONNECTION

This table is used to keep track of the connection status (either currently in a session, or not) for each CWMP capable device.

Field Name	Type	Default	Nullable	Description
NC_CPE_CONNECTION_GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary key.
NC_CPE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_NC_CPE.GUID.
NC_CPE_CONNECTION	NUMBER(1)		Yes	One of: 0 (not connected), 1 (connected).

Indexes

Name	Type	Columns
SPRT_NC_CPE_CONNECTION_IDX1	NORMAL	NC_CPE_GUID
PK_NC_CPE_CONNECTION	UNIQUE	NC_CPE_CONNECTION_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_NC_CPE_CONNECTION_FK1	NC_CPE_GUID	SPRT_NC_CPE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_CPE_FW_UPGRADE

This table logs every firmware upgrade attempt in progress, completed or abandoned.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(10)		No	Primary Key.
NC_CPE_GUID	VARCHAR2(36)		No	Foreign Key to SPRT_NC_CPE.GUID. This is the device that is being upgraded.
EC_FIRMWARE_GUID	VARCHAR2(36)		Yes	Foreign Key to SPRT_EC_FIRMWARE.GUID. This is the firmware that the device is being upgraded to.
EC_FILE_ID	NUMBER(9)		Yes	Foreign Key to SPRT_EC_FILE.ID. This is the file that the device is being upgraded to.
OLD_FIRMWARE_GUID	VARCHAR2(36)		Yes	Foreign Key to SPRT_EC_FIRMWARE.GUID. This is the firmware of the device before the upgrade.

Field Name	Type	Default	Nullable	Description
TRIGGER_TIMESTAMP	DATE		Yes	This is the date and time that the firmware upgrade was triggered.
DOWNLOAD_REQUEST_TIMESTAMP	DATE		Yes	This is the date and time the download request was sent to the device.
DOWNLOAD_RESPONSE_TIMESTAMP	DATE		Yes	This is the date and time the download response was received from the device.
TRANSFER_COMPLETE_TIMESTAMP	DATE		Yes	This is the date and time the transfer complete RPC was received from the device.
TRANSFER_COMPLETE_INFORM_TS	DATE		Yes	This is the date and time the transfer complete inform was received from the device.
POST_UPGRADE_BOOT_TIMESTAMP	DATE		Yes	This is the date and time the BOOT inform event type which followed the upgrade was received from the device.
ATTEMPT_COUNT	NUMBER(6)		Yes	The number of times the firmware upgrade was attempted.
URL	NVARCHAR2(1000)	NULL	Yes	The URL of the firmware file that was sent to the device.
STATUS	VARCHAR2(32)		Yes	The last known status of this firmware upgrade attempt. One of: PENDING, IN_PROGRESS, COMPLETE, FAILED, NOT_RESPONDING, TIMED_OUT.
FAULT_CODE	NUMBER(9)		Yes	The SOAP fault code received from the device upon failure, if any.
FAULT_DETAIL	NVARCHAR2(1024)		Yes	The SOAP fault detail received from the device upon failure, if any.
FAULT_TIMESTAMP	DATE		Yes	This is the date and time a SOAP fault was received from the device.
CREATED	DATE		No	Date upon creation.
MODIFIED	DATE		No	Date upon last modification.

Indexes

Name	Type	Columns
SPRT_NC_CPE_FW_UPGRADE_IDX1	NORMAL	NC_CPE_GUID
SPRT_NC_CPE_FW_UPGRADE_IDX2	NORMAL	TRIGGER_TIMESTAMP
SPRT_NC_CPE_FW_UPGRADE_IDX3	NORMAL	EC_FIRMWARE_GUID
SPRT_NC_CPE_FW_UPGRADE_IDX4	NORMAL	EC_FILE_ID
SPRT_NC_CPE_FW_UPGRADE_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_NC_CPE_FW_UPGRADE_FK3	EC_FILE_ID	SPRT_EC_FILE	SET NULL
SPRT_NC_CPE_FW_UPGRADE_FK2	EC_FIRMWARE_GUID	SPRT_EC_FIRMWARE	SET NULL
SPRT_NC_CPE_FW_UPGRADE_FK1	NC_CPE_GUID	SPRT_NC_CPE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_CPE_WF_STATE

This table keeps track of the current workflow state for each CWMP capable device.

Field Name	Type	Default	Nullable	Description
NC_CPE_WF_STATE_GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary key.
NC_CPE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_NC_CPE.GUID.
NC_CPE_WORKFLOW_STATE	VARCHAR2(32)		Yes	The current workflow state for this device.
NC_CPE_IN_PROGRESS	CHAR(1)	'N'	No	If 'Y', the workflow state is one that indicates that the device is currently busy.

Indexes

Name	Type	Columns
SPRT_NC_CPE_WF_STATE_IDX1	NORMAL	NC_CPE_GUID
SPRT_NC_CPE_WF_STATE_IDX2	NORMAL	NC_CPE_IN_PROGRESS
PK_NC_CPE_WF_STATE	UNIQUE	NC_CPE_WF_STATE_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_NC_CPE_WF_STATE_FK1	NC_CPE_GUID	SPRT_NC_CPE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_CWMP_DISCARDED_EVENT

This table contains a record for each event discarded due to session throttling or event prioritization, if discard statistics is enabled.

Field Name	Type	Default	Nullable	Description
UNIQUE_ID_STRING	NVARCHAR2(128)		Yes	The unique ID string of the device from which the event was discarded.
REMOTE_ADDR	VARCHAR2(39)		Yes	The source IP address of the device from which the event was discarded.
CREATED	DATE	SYSDATE	No	Date upon creation.
DISCARD_REASON	VARCHAR2(32)		Yes	The reason the event was discarded. One of: PRIORITY, THROTTLE.
SYSTEM_LOAD	NUMBER(6)		Yes	The system load at the time the event was discarded.
MINIMUM_LOAD_PRIORITY	NUMBER(2)		Yes	The configured minimum load for the priority calculated for the event.
CALCULATED_EVENT_PRIORITY	NUMBER(2)		Yes	The priority calculated for the event.
THRESHOLD_TRIGGER	VARCHAR2(32)		Yes	If session throttling was responsible for discarding the event, this indicates whether the IP address or the remote IP address exceeded the configured threshold. One of: UNIQUE_ID, REMOTE_ADDR.
THRESHOLD_TIMEFRAME	VARCHAR2(32)		Yes	If session throttling was responsible for discarding the event, this indicates which timeframe threshold was exceeded. One of: ONE_MINUTE, FIVE_MINUTE, FIFTEEN_MINUTE.
THRESHOLD_CONFIGURED_COUNT	NUMBER(5)		Yes	The configured threshold for session throttling.
THRESHOLD_CURRENT_COUNT	NUMBER(5)		Yes	The number of events received within the threshold timeframe that was exceeded.

Indexes

Name	Type	Columns
SPRT_NC_CWMP_EVENT_IDX1	NORMAL	UNIQUE_ID_STRING
SPRT_NC_CWMP_EVENT_IDX2	NORMAL	REMOTE_ADDR
SPRT_NC_CWMP_EVENT_IDX3	NORMAL	CREATED

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_CWMP_LAST_SESSION

This table contains a record for each device, which points to the most recent record in SPRT_NC_CWMP_SESSION for the device, so that information pertaining to the same session can be associated with the existing record in that table.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
NC_CPE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_NC_CPE.GUID.
NC_CWMP_SESSION_GUID	VARCHAR2(36)		No	Foreign key to SPRT_NC_CWMP_SESSION.GUID.
PARENT_CREATED	DATE		No	The CREATED timestamp of the record referenced by NC_CWMP_SESSION_GUID.

Indexes

Name	Type	Columns
SPRT_NC_CWMP_LAST_SESS_IDX1	NORMAL	NC_CPE_GUID
SPRT_NC_CWMP_LAST_SESS_IDX2	NORMAL	NC_CWMP_SESSION_GUID
SPRT_NC_CWMP_LAST_SESS_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_NC_CWMP_LAST_SESS_FK1	NC_CPE_GUID	SPRT_NC_CPE	CASCADE
SPRT_NC_CWMP_LAST_SESS_FK2	NC_CWMP_SESSION_GUID	SPRT_NC_CWMP_SESSION	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_CWMP_SESSION

This table, along with SPRT_NC_CWMP_SESSION_DETAIL and SPRT_NC_CWMP_SESSION_PARAM, record every CWMP session with every device that connects to an ACS that is configured to record sessions.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
NC_ACS_GUID	VARCHAR2(36)		No	Foreign key to SPRT_NC_ACS.GUID.
NC_CPE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_NC_CPE.GUID.
INFORM_TYPE	VARCHAR2(1024)		Yes	A comma-delimited list of the Event Codes present in the inform message.
START_TIME	DATE		No	The date and time that the session started.
END_TIME	DATE		Yes	The date and time that the session ended.
CREATED	DATE		No	Date upon creation.

Indexes

Name	Type	Columns
SPRT_NC_CWMP_SESSION_IDX1	NORMAL	NC_ACS_GUID
SPRT_NC_CWMP_SESSION_IDX2	NORMAL	NC_CPE_GUID
SPRT_NC_CWMP_SESSION_IDX3	NORMAL	START_TIME
SPRT_NC_CWMP_SESSION_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_NC_CWMP_SESSION_FK1	NC_ACS_GUID	SPRT_NC_ACS	CASCADE
SPRT_NC_CWMP_SESSION_FK2	NC_CPE_GUID	SPRT_NC_CPE	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_NC_CWMP_SESSPARAM_FK1	SPRT_NC_CWMP_SESSIONPARAM	NC_CWMP_SESSION_GUID	CASCADE
SPRT_NC_CWMP_SESSNDTL_FK1	SPRT_NC_CWMP_SESSIONDETAIL	NC_CWMP_SESSION_GUID	CASCADE
SPRT_NC_CWMP_LAST_SESS_FK2	SPRT_NC_CWMP_LAST_SESSION	NC_CWMP_SESSION_GUID	CASCADE

SPRT_NC_CWMP_SESSIONDETAIL

This table holds a history of request/response exchanges between a device and the ACS.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(12)		No	Primary key.
NC_CWMP_SESSION_GUID	VARCHAR2(36)		No	The session this request/response occurred within.
NC_ACS_GUID	VARCHAR2(36)		No	Foreign key to SPRT_NC_ACS.GUID, the ACS that recorded the exchange.
REQUEST_EVENT	VARCHAR2(32)		Yes	The type of request from the device. One of: INFORM, TRANSFER_COMPLETE, ACS_RPC, MALFORMED_DEVICE_MESSAGE, DEVICE_RPC_RESPONSE, DEVICE_FAULT_RESPONSE, DEVICE_EMPTY_POST, DEVICE_AUTH_SUCCESS, DEVICE_AUTH_FAILURE_BASIC, DEVICE_AUTH_FAILURE_DIGEST.
RESPONSE_EVENT	VARCHAR2(32)		Yes	The type of response from the ACS. One of: INFORM_RESPONSE, TRANSFER_COMPLETE_RESPONSE, ACS_RPC_RESPONSE, ACS_FAULT_RESPONSE, DEVICE_RPC, ACS_EMPTY_POST, ACS_AUTH_CHALLENGE.
HTTP_PARSE_TIME	NUMBER(9)		Yes	The time in milliseconds to parse the HTTP request.
SOAP_PARSE_TIME	NUMBER(9)		Yes	The time in milliseconds to parse the SOAP message.
COUNT_RMI_CALLS	NUMBER(4)		Yes	The number of RMI calls made to the application server to carry out the work required by the request.
RMI_CALL_TIME	NUMBER(9)		Yes	The time spent making RMI calls to the application server to carry out the work required by the request.
TOTAL_TIME	NUMBER(9)		Yes	The total time taken to respond to the request from the device.
PARENT_CREATED	DATE		No	The date and time that the parent record was created.

Indexes

Name	Type	Columns
SPRT_NC_CWMP_SESSNDTL_IDX1	NORMAL	NC_CWMP_SESSION_GUID
SPRT_NC_CWMP_SESSNDTL_IDX2	NORMAL	NC_ACS_GUID
SPRT_NC_CWMP_SESSNDTL_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_NC_CWMP_SESSNDTL_FK2	NC_ACS_GUID	SPRT_NC_ACS	NO ACTION

Name	Local Column	Foreign Table	Delete Rule
SPRT_NC_CWMP_SESSNDTL_FK1	NC_CWMP_SESSION_GUID	SPRT_NC_CWMP_SESSION	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_CWMP_SESSIONPARAM

This table maintains a history of all inform parameters send in a session.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
NC_CWMP_SESSION_GUID	VARCHAR2(36)		No	Foreign key to SPRT_NC_CWMP_SESSION.GUID, indicating the session that this parameter was provided in.
NAME	VARCHAR2(256)		No	The name of the parameter from the inform message.
VALUE	NVARCHAR2(1000)		Yes	The value of the parameter from the inform message.
PARENT_CREATED	DATE		No	The date and time that the parent record was created.

Indexes

Name	Type	Columns
SPRT_NC_CWMP_SESSPARAM_IDX2	NORMAL	NC_CWMP_SESSION_GUID
SPRT_NC_CWMP_SESSPARAM_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_NC_CWMP_SESSPARAM_FK1	NC_CWMP_SESSION_GUID	SPRT_NC_CWMP_SESSION	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_DEVICERECORDING

This table is used by a feature that is only available at an API level to record sessions with individual devices.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.

Field Name	Type	Default	Nullable	Description
NC_CPE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_NC_CPE.GUID.
LABEL	VARCHAR2(36)		Yes	The user-definable label for this device recording session.
DATA_TIMESTAMP	DATE		No	The date and time this data was captured.
DIRECTION	VARCHAR2(32)		No	One of: ACSTODEVICE, DEVICETOACS.
DATA	CLOB(4000)		Yes	The data passed.

Indexes

Name	Type	Columns
SPRT_NC_DEVICERECORDING_IDX1	NORMAL	LABEL, ID
SPRT_NC_DEVICERECORDING_IDX2	NORMAL	NC_CPE_GUID, ID
SPRT_NC_DEVICERECORDING_IDX3	NORMAL	NC_CPE_GUID
SPRT_NC_DEVICERECORDING_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_NC_DEVICERECORDING_FK1	NC_CPE_GUID	SPRT_NC_CPE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_EVENT_LISTENER

This table is used by the CWMP protocol server to notify the ACS API that it currently has a session open and idle with a device, and that it should be notified on the given URL if new work for the device is placed in the server waiting queue.

Field Name	Type	Default	Nullable	Description
NC_ELR_GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
NC_CPE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_NC_CPE.GUID.
NC_ELR_EVENT_TYPE	NVARCHAR2(36)		No	This is always RPC.
NC_ELR_INSTANCE_KEY	NVARCHAR2(128)		No	A unique key for referencing this listener.

Field Name	Type	Default	Nullable	Description
NC_ELR_LISTENER_URL	NVARCHAR2(256)		No	The URL of the ACS servlet is has subscribed and awaits the event.
NC_ELR_TIMESTAMP	DATE	SYSDATE	No	The date and time the event listener subscribed.

Indexes

Name	Type	Columns
SPRT_NC_EVENT_LISTENER_PK	UNIQUE	NC_ELR_GUID
IX_SPRT_NC_EVENT_LISTENER_1	NORMAL	NC_CPE_GUID
IX_SPRT_NC_EVENT_LISTENER_2	NORMAL	NC_CPE_GUID, NC_ELR_INSTANCE_KEY

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
FK_SPRT_NC_EVENT_LISTENER_1	NC_CPE_GUID	SPRT_NC_CPE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_INFORM_EVENT

This table maintains a queue of incoming inform messages for each device, along with a list of event codes present in the inform. The message is queued in this table until all event codes within the inform have been processed. Multiple informs per device may be queued up. Limits on the number of informs per device are configured via system preferences.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(12)		No	Primary key.
NC_CPE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_NC_CPE.GUID, indicating the device that sent the inform message.
IS_BOOTSTRAP	CHAR(1)		Yes	'Y' if this inform contains a BOOTSTRAP event code, otherwise 'N'.
IS_BOOT	CHAR(1)		Yes	'Y' if this inform contains a BOOT event code, otherwise 'N'.
IS_PERIODIC	CHAR(1)		Yes	'Y' if this inform contains a PERIODIC event code, otherwise 'N'.
IS_SCHEDULED	CHAR(1)		Yes	'Y' if this inform contains a SCHEDULED event code, otherwise 'N'.
IS_VALUE_CHANGE	CHAR(1)		Yes	'Y' if this inform contains a VALUE CHANGE event code, otherwise 'N'.

Field Name	Type	Default	Nullable	Description
IS_KICKED	CHAR(1)		Yes	'Y' if this inform contains a KICKED event code, otherwise 'N'.
IS_CONNECTION_REQUEST	CHAR(1)		Yes	'Y' if this inform contains a CONNECTION REQUEST event code, otherwise 'N'.
IS_TRANSFER_COMPLETE	CHAR(1)		Yes	'Y' if this inform contains a TRANSFER COMPLETE event code, otherwise 'N'.
IS_DIAGNOSTICS_COMPLETE	CHAR(1)		Yes	'Y' if this inform contains a DIAGNOSTICS COMPLETE event code, otherwise 'N'.
OTHER_METHOD_NAME	NVARCHAR2(64)		Yes	If the inform contained an event code starting with "M", it is stored here.
VENDOR_SPECIFIC_NAME	NVARCHAR2(64)		Yes	If the inform contained a vendor specific event code starting with "X", it is stored here.
UNRECOGNIZED_NAME	NVARCHAR2(64)		Yes	Any other event code not represented above is stored here.
EVENT_DETAIL	CLOB(4000)		Yes	The inform SOAP message.
CREATED	DATE		Yes	Date upon creation.
MODIFIED	DATE		Yes	Date upon last modification.

Indexes

Name	Type	Columns
SPRT_NC_INFORM_EVENT_IDX1	NORMAL	NC_CPE_GUID, ID
SPRT_NC_INFORM_EVENT_IDX2	NORMAL	NC_CPE_GUID
SPRT_NC_INFORM_EVENT_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_NC_INFORM_EVENT_FK1	NC_CPE_GUID	SPRT_NC_CPE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_INFORM_EVENT_CLAIM

This table stores an event claim, which is a request from some part of the system to redirect the next event of a certain type for a certain device, instead of allowing it to be processed by the default workflow. A series of 'Y' or 'N' flags indicate which events will trigger the claim. Once a claim has been triggered, it is removed from this table.

Field Name	Type	Default	Nullable	Description
NC_CPE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_NC_CPE.GUID. The device this claim is for.
IS_BOOTSTRAP	CHAR(1)		Yes	One of: Y, N.
IS_BOOT	CHAR(1)		Yes	One of: Y, N.
IS_PERIODIC	CHAR(1)		Yes	One of: Y, N.
IS_SCHEDULED	CHAR(1)		Yes	One of: Y, N.
IS_VALUE_CHANGE	CHAR(1)		Yes	One of: Y, N.
IS_KICKED	CHAR(1)		Yes	One of: Y, N.
IS_CONNECTION_REQUEST	CHAR(1)		Yes	One of: Y, N.
IS_TRANSFER_COMPLETE	CHAR(1)		Yes	One of: Y, N.
IS_DIAGNOSTICS_COMPLETE	CHAR(1)		Yes	One of: Y, N.
OTHER_METHOD_NAME	NVARCHAR2(64)		Yes	A method name that will trigger the claim (beginning with "M").
VENDOR_SPECIFIC_NAME	NVARCHAR2(64)		Yes	A vendor specific name that will trigger the claim (beginning with "X").
UNRECOGNIZED_NAME	NVARCHAR2(64)		Yes	An unrecognized name that will trigger the claim (none of the above).
CLAIMER_NAME	NVARCHAR2(256)		Yes	An identifier used to indicate the source of the claim.
JMS_NOTIFY_NAME	VARCHAR2(256)		Yes	The JNDI name of a JMS queue on which to post a message when this claim is triggered.
SELECTOR_PROPERTY_NAME	VARCHAR2(64)		Yes	The name of the message property to send with the JMS message.
SELECTOR_PROPERTY_VALUE	VARCHAR2(128)		Yes	The value of the message property to send with the JMS message.
CREATED	DATE		Yes	Date upon creation.
MODIFIED	DATE		Yes	Date upon last modification.

Indexes

Name	Type	Columns
SPRT_NC_INFRM_EVNT_CLM_IDX1	NORMAL	NC_CPE_GUID
SPRT_NC_INFRM_EVENT_CLM_IDX2	FUNCTION-BASED	TO_CHAR("CREATED", 'YYYY-MM-DD HH24:MI:SS')

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_NC_INFRM_EVNT_CLM_FK1	NC_CPE_GUID	SPRT_NC_CPE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_PARAM_TYPES

This table contains the subelements of complex parameter types referenced in `sprt_nc_rpcnames`. It is read-only and static information that is read once and cached by each ACS.

Field Name	Type	Default	Nullable	Description
NC_RPCPT_ID	NUMBER(10)		No	This column is not currently used.
NC_RPCPT_NAME	NVARCHAR2(256)		No	The name of the complex type.
NC_RPCPT_SUB_TYPES	NVARCHAR2(1024)		Yes	Comma-delimited list of subtypes for this type.
NC_RPCPT_ROWGUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	This column is not currently used.

Indexes

Name	Type	Columns
PK_NC_P_TYPES	UNIQUE	NC_RPCPT_ROWGUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_REQUEST

This table holds a record for each request made to a device, mapping it to the SWQ entry that originated the request, so that the response can be mapped back to the SWQ entry.

Field Name	Type	Default	Nullable	Description
NC_REQ_GUID	VARCHAR2(36)		No	A unique GUID for this request, used as the value of the ID element in the SOAP header when sending the request to the device, and returned by the device in the header of the response.
NC_REQ_ENVELOPE_ID	NVARCHAR2(36)		No	Always the same value as NC_REQ_GUID.

Field Name	Type	Default	Nullable	Description
NC_CPE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_NC_CPE.NC_CPE_GUID. The device this request is linked to.
NC_REQ_INITIATOR	NUMBER(10)		Yes	This column is not currently used and always set to 1.
NC_REQ_RPC_TYPE	NUMBER(10)		Yes	The RPC Type, mapping to SPRT_NC_RPCNAMES.NC_RPCN_ID.
NC_REQ_STATUS	NUMBER(10)		Yes	0 = open, 1 = closed.
NC_REQ_START_TIME	DATE	SYSDATE	Yes	The time the request record was inserted.
NC_REQ_ADMIN_REQUEST_GUID	VARCHAR2(36)		Yes	A reference to the record in SPRT_NC_SERVER_WAITING_QUEUE which spawned this request.

Indexes

Name	Type	Columns
IX_SPRT_NC_REQUEST_1	NORMAL	NC_CPE_GUID
IX_SPRT_NC_REQUEST_2	NORMAL	NC_REQ_ENVELOPE_ID
PK_NC_REQUEST	UNIQUE	NC_REQ_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
FK_SPRT_NC_REQUEST_1	NC_CPE_GUID	SPRT_NC_CPE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_RPCNAMES

This table contains the details for each supported RPC, used to generate the SOAP request to a device.

Field Name	Type	Default	Nullable	Description
NC_RPCN_NAME	NVARCHAR2(256)		Yes	The name of an RPC the ACS may send to a device.
NC_RPCN_ID	NUMBER(10)		No	An internal identifier for this RPC.
NC_RPCN_PARAMS	NVARCHAR2(512)		Yes	The names of the arguments for the RPC.

Field Name	Type	Default	Nullable	Description
NC_RPCN_PARAM_TYPES	NVARCHAR2(1024)		Yes	The types of the arguments for the RPC.
NC_RPCN_ROWGUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	This column is not currently used.
NC_RPCN_DISP_NAME	NVARCHAR2(32)		Yes	This column is not currently used.
NC_RPCN_DESC	NVARCHAR2(1024)		Yes	This column is not currently used.
NC_RPCN_URL	NVARCHAR2(256)		Yes	This column is not currently used.
NC_RPCN_PRODUCT	NUMBER(10)	1	Yes	This column is not currently used.

Indexes

Name	Type	Columns
PK_NC_RPCNAMES	UNIQUE	NC_RPCN_ROWGUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_SERVER_WAITING_QUEUE

This table is used to queue outgoing RPCs for devices. A record exists in this table before the RPC is sent, while waiting for a device session, and it is deleted once the RPC has completed (which may be beyond the initial RPC response, in the case of Download).

Field Name	Type	Default	Nullable	Description
NC_SWQ_ADMIN_REQUEST_GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	The unique GUID for the request made via the ACS API.
NC_SWQ_PRECEDING_AR_GUID	VARCHAR2(36)	'0'	No	The admin request guid that must be completed before this request will be sent to the device. 0 if there is no previous request.
NC_CPE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_NC_CPE.GUID, specifying the device this command has been queued for.
NC_SWQ_STATUS	NUMBER(10)		Yes	The status of this queued request. 0 = Not Sent, 1 = Sent, 2 = Acknowledged.
NC_SWQ_RPC_TYPE	NUMBER(10)		Yes	The RPC Type, mapping to SPRT_NC_RPCNAMES.NC_RPCN_ID. A value of 0 marks the end of provisioning.

Field Name	Type	Default	Nullable	Description
NC_SWQ_SEQUENCE	NUMBER(10)		Yes	Controls the order that requests are selected to send to the device. Lower sequence numbers are selected first.
NC_SWQ_RPC_NAME	NVARCHAR2(30)		No	The name of the queued RPC.
NC_SWQ_RPC_PARAM_LIST	BLOB(4000)		Yes	The list of parameters specific to the RPC, stored as a serialized list of Java objects.
NC_SWQ_ACS_AUTH_RPC	CHAR(1)		Yes	A 'Y' or 'N' boolean flag indicating if this swq entry is being made as part of auth provisioning. Some RPC response handlers do special processing for responses to ACS auth provisioning RPCs.
NC_SWQ_TRACKING_ID	NUMBER(9)		Yes	The tracking ID used for firmware upgrades, referencing a record in SPRT_NC_CPE_FW_UPGRADE. It allows the ACS to know that the download is tracked so it can use this to update the tracking record. This is null if the download is not tracked.
NC_SWQ_TIMESTAMP	DATE		Yes	The time the record was created.

Indexes

Name	Type	Columns
PK_NC_S_WT_QUE	UNIQUE	NC_CPE_GUID, NC_SWQ_ADMIN_REQUEST_GUID
SPRT_NC_SWQ_IDX1	NORMAL	NC_CPE_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
FK_SPRT_NC_SWQ_1	NC_CPE_GUID	SPRT_NC_CPE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_NC_SHARED_DATA

This table is used to store temporary data that must be shared between Tomcat servers or persisted across multiple device sessions.

Field Name	Type	Default	Nullable	Description
LOOKUP_KEY	NVARCHAR2(36)		No	A context-specific key a process uses to store and retrieve the data (e.g. CPE_GUID, session GUID, etc.)
CONTEXT	NUMBER(4)		No	A value indicating the process that stored the information and thus the type of information stored in the LOOKUP_KEY and DATA fields of the record. One of: 0 (APISESSION), 50 (APITRANSFERCOMPLETESESSION), 75 (APIDIAGNOSTICSCOMPLETESESSION), 80 (APIDUSTATECHANGECOMPLETESESSION), 100 (BOOTDOWNLOADCONFIG), 200 (BOOTDOWNLOADFIRMWARE), 300 (BOOTDOWNLOADRESULT), 400 (BOOTDOWNLOADCPECONFIG), 500 (BOOTSETPARAMETERVALUES), 600 (DOWNLOADCONTENT), 650 (UPLOADREQUEST), 700 (BOOTPPP), 800 (BOOTVENDORTEMPLATE), 900 (CPEPARAMSUPDATE), 1000 (RECORDEDXML), 1100 (CWMPSESSIONID - obsolete), 1200 (FIRMWAREUPGRADECOUNT).
DATA	BLOB(4000)		Yes	The context-specific data.
NC_CPE_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_NC_CPE.NC_CPE_GUID. The device this data pertains to.

Indexes

Name	Type	Columns
SPRT_NC_SHARED_DATA_IDX1	NORMAL	NC_CPE_GUID
SPRT_NC_SHARED_DATA_PK	UNIQUE	LOOKUP_KEY, CONTEXT

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
FK_SPRT_NC_SHARED_DATA_1	NC_CPE_GUID	SPRT_NC_CPE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACS_EVENTMGMT

This table holds the configuration content for the event management features, per ACS.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.

Field Name	Type	Default	Nullable	Description
EC_SERVER_GUID	VARCHAR2(36)	NULL	Yes	Foreign key to SPRT_EC_SERVER.GUID, specifying the ACS for which this configuration applies.
CONFIG	NCLOB(4000)	NULL	Yes	The XML configuration file for event management, which is passed to the ACS.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_ACS_EVENTMGMT_PK	UNIQUE	GUID
SPRT_SG_ACS_EVENTMGMT_IDX1	NORMAL	EC_SERVER_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACS_EVENTMGMT_FK1	EC_SERVER_GUID	SPRT_EC_SERVER	NO ACTION

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACS_PREPROCESSOR

This table holds the configuration content for a preprocessor plugin, which is used to manipulate incoming CWMP messages before parsing and processing them.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
EC_PLUGIN_REGISTRY_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_PLUGIN_REGISTRY.GUID, specifying the plugin that will be used to carry out the preprocessing.
EC_SERVER_GUID	VARCHAR2(36)	NULL	Yes	Foreign key to SPRT_EC_SERVER.GUID, specifying the ACS for which this configuration applies.

Field Name	Type	Default	Nullable	Description
DESCRIPTION	NVARCHAR2(256)	NULL	Yes	An optional description of the purpose of this preprocessor.
ORDINAL	NUMBER(9)		No	The order in which this preprocessor should be executed on each inform.
CONFIG	NCLOB(4000)	NULL	Yes	A text-based configuration file, specific to the plugin selected.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_ACS_PREPROCESSOR_PK	UNIQUE	GUID
SPRT_SG_ACS_PREPROCESSOR_IDX1	NORMAL	EC_SERVER_GUID
SPRT_SG_ACS_PREPROCESSOR_IDX2	NORMAL	EC_PLUGIN_REGISTRY_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACS_PREPROCESSOR_FK1	EC_PLUGIN_REGISTRY_GUID	SPRT_EC_PLUGIN_REGISTRY	NO ACTION
SPRT_SG_ACS_PREPROCESSOR_FK2	EC_SERVER_GUID	SPRT_EC_SERVER	NO ACTION

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACTION

This table holds the list of installed policy actions.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
EC_PLUGIN_REGISTRY_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_PLUGIN_REGISTRY.GUID.
NAME	NVARCHAR2(256)		No	The name of the action.

Field Name	Type	Default	Nullable	Description
DESCRIPTION	NVARCHAR2(768)		Yes	The description of the action.
NAME_TOKEN	NVARCHAR2(256)		Yes	The token that is used by the UI for internationalization for the name field.
DESCRIPTION_TOKEN	NVARCHAR2(256)		Yes	The token that is used by the UI for internationalization for the description field.
STATUS	VARCHAR2(32)		No	Administrative status of the action. One of: ENABLED, DISABLED.
VERSION	NVARCHAR2(128)		Yes	Version of this action.
INSTANCE_CONFIG_URL	NVARCHAR2(768)		Yes	The URL of a Flash application that allows this action to be configured. For actions embedded in the Service gateway UI, this will have the format "internal: <name>". If the action does not have an instance configuration UI screen, this will be NULL.
JNDI_NAME	NVARCHAR2(768)		Yes	The JNDI name for the action. If this action cannot be configured programmatically, this will be NULL.
REQUIRE_DEVICE_CONTEXT	VARCHAR2(32)		No	Either TRUE or FALSE. A value of TRUE means that this action must execute in the context of a device, such as an action to upgrade the firmware on a device. A value of FALSE means that this action can be executed whether there is a device context or not, such as an email action, and can thus be used as a policy completion or failure action.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_ACTION_PK	UNIQUE	GUID
SPRT_SG_ACTION_IDX1	NORMAL	EC_PLUGIN_REGISTRY_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACTION_FK1	EC_PLUGIN_REGISTRY_GUID	SPRT_EC_PLUGIN_REGISTRY	NO ACTION

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_USER_ACTION_XREF_FK2	SPRT_SG_USER_ACTION_XREF	SG_ACTION_GUID	CASCADE
SPRT_SG_ACTION_RESULT_FK1	SPRT_SG_ACTION_RESULT	SG_ACTION_GUID	CASCADE
SPRT_SG_ACTION_CONF_FK1	SPRT_SG_ACTION_CONF	SG_ACTION_GUID	CASCADE

SPRT_SG_ACTION_CONF

This table holds the config stubs for the action instances, used to link an action to the action-specific configuration table.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
SG_ACTION_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACTION.GUID.
EC_PRODUCT_ID	NUMBER(9)		No	Foreign key to ENCORE_PRODUCT.ID.
STATUS	VARCHAR2(32)		No	One of ENABLED, DISABLED.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
SG_POLICY_ACT_HISTORY_GUID	VARCHAR2(36)	NULL	Yes	A reference to the current action history record for this action instance.

Indexes

Name	Type	Columns
SPRT_SG_ACTION_CONF_IDX1	NORMAL	SG_ACTION_GUID
SPRT_SG_ACTION_CONF_IDX2	NORMAL	EC_PRODUCT_ID
SPRT_SG_ACTION_CONF_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACTION_CONF_FK2	EC_PRODUCT_ID	SPRT_EC_PRODUCT	NO ACTION
SPRT_SG_ACTION_CONF_FK1	SG_ACTION_GUID	SPRT_SG_ACTION	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_ACT_CWMP_DM_I_FK1	SPRT_SG_ACT_CWMP_DM_I	SG_ACTION_CONF_GUID	CASCADE
SPRT_SG_ACT_VC_SNMP_I_FK1	SPRT_SG_ACT_VC_SNMP_I	SG_ACTION_CONF_GUID	CASCADE
SPRT_SG_ACT_UNCOND_I_FK1	SPRT_SG_ACT_UNCOND_I	SG_ACTION_CONF_GUID	CASCADE
SPRT_SG_ACT_SMM_I_FK1	SPRT_SG_ACT_SMM_I	SG_ACTION_CONF_GUID	CASCADE
SPRT_SG_ACT_SERVICE_SUB_I_FK1	SPRT_SG_ACT_SERVICE_SUB_I	SG_ACTION_CONF_GUID	CASCADE
SPRT_SG_ACT_RESTORE_I_FK1	SPRT_SG_ACT_RESTORE_I	SG_ACTION_CONF_GUID	CASCADE
SPRT_SG_ACT_FIRMWARE_I_FK1	SPRT_SG_ACT_FIRMWARE_I	SG_ACTION_CONF_GUID	CASCADE
SPRT_SG_ACT_EMAIL_I_FK1	SPRT_SG_ACT_EMAIL_I	SG_ACTION_CONF_GUID	CASCADE
SPRT_SG_ACT_DMT_I_FK1	SPRT_SG_ACT_DMT_I	SG_ACTION_CONF_GUID	CASCADE
SPRT_SG_ACT_CWMPGET_I_FK1	SPRT_SG_ACT_CWMPGET_I	SG_ACTION_CONF_GUID	CASCADE
SPRT_SG_ACT_CWMPGET4ATTR_I_FK1	SPRT_SG_ACT_CWMPGET4ATTR_I	SG_ACTION_CONF_GUID	CASCADE
SPRT_SG_ACT_CONFSNAPSHOT_I_FK1	SPRT_SG_ACT_CONFIG_SNAPSHOT_I	SG_ACTION_CONF_GUID	CASCADE
SPRT_SG_ACT_BACKUP_I_FK1	SPRT_SG_ACT_BACKUP_I	SG_ACTION_CONF_GUID	CASCADE

SPRT_SG_ACTION_RESULT

This table holds the list default workflow decision codes for each possible result code from an action. This table is populated using initial data when the action is installed.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
SG_ACTION_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_SG_ACTION.GUID. This field will be NULL for action results that are internal to the workflow engine.
NAME	NVARCHAR2(256)		No	The name of the action result.
NAME_TOKEN	NVARCHAR2(256)		Yes	The token that is used by the UI for internationalization for the name field.
RESULT_CODE	VARCHAR2(32)		No	A numeric value assigned to this result. This value is specific to the action. Action results that are internal to the workflow engine and apply to all actions will be a negative numeric value.
DEFAULT_WORKFLOW	VARCHAR2(32)		No	Default workflow decision.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_ACTION_RESULT_IDX1	NORMAL	SG_ACTION_GUID
SPRT_SG_ACTION_RESULT_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACTION_RESULT_FK1	SG_ACTION_GUID	SPRT_SG_ACTION	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_BACKUP_CXT

This table is used to keep track of the currently executing configuration backup for a device, so that when the device completes the process, control can be redirected to the proper workflow.

Field Name	Type	Default	Nullable	Description
EC_DEVICE_ID	NUMBER(9)		No	Foreign key to ENCORE_DEVICE.ID.
SG_POLICY_ACTION_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACT_FIRMWARE_I.GUID.

Indexes

Name	Type	Columns
SPRT_SG_ACT_BACKUP_CXT_IDX1	NORMAL	EC_DEVICE_ID
SPRT_SG_ACT_BACKUP_CXT_IDX2	NORMAL	SG_POLICY_ACTION_GUID
SPRT_SG_ACT_BACKUP_CXT_PK	UNIQUE	SG_POLICY_ACTION_GUID, EC_DEVICE_ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_BACKUP_CXT_FK1	EC_DEVICE_ID	SPRT_EC_DEVICE	CASCADE
SPRT_SG_ACT_BACKUP_CXT_FK2	SG_POLICY_ACTION_GUID	SPRT_SG_POLICY_ACTION	NO ACTION

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_BACKUP_I

This table holds the action specific configuration for an instance of the configuration backup policy action.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
SG_ACTION_CONF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACTION_CONF.GUID, linking this plugin specific configuration to the action in the workflow.
BACKUP_REASON	NVARCHAR2(256)		Yes	The reason for the backup.
LAST_KNOWN_GOOD	VARCHAR2(32)		No	One of TRUE or FALSE. When TRUE, successful backups will be marked as the last known good configuration for the device.

Indexes

Name	Type	Columns
SPRT_SG_ACT_BACKUP_I_PK	UNIQUE	GUID
SPRT_SG_ACT_BACKUP_I_UK	UNIQUE	SG_ACTION_CONF_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_BACKUP_I_FK1	SG_ACTION_CONF_GUID	SPRT_SG_ACTION_CONF	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_CONFIG_SNAPSHOT_I

This table holds the action specific configuration for an instance of the configuration snapshot policy action.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
SG_ACTION_CONF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACTION_CONF.GUID, linking this plugin specific configuration to the action in the workflow.
DESCRIPTION	VARCHAR2(1024)		Yes	A description to set on the snapshots taken.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_ACT_CFG_SNAPSHOT_I_IDX1	NORMAL	SG_ACTION_CONF_GUID
SPRT_SG_ACT_CONFSNAPSHOT_I_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_CONF_SNAPSHOT_I_FK1	SG_ACTION_CONF_GUID	SPRT_SG_ACTION_CONF	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_CWMPGET4ATTR_I

This table holds the action specific configuration for an instance of the Get Parameter (for Attributes) policy action.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
PROBE_METHOD	VARCHAR2(32)		No	One of: FULL_TREE, WALK_TREE.
SG_ACTION_CONF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACTION_CONF.GUID, linking this plugin specific configuration to the action in the workflow.
OVERWRITE_VALUES	VARCHAR2(32)		No	On of: TRUE, FALSE.

Indexes

Name	Type	Columns
SPRT_SG_ACT_CWMPGET4ATTR_I_PK	UNIQUE	GUID
SPRT_SG_ACT_CWMPGET4ATTR_I_UK	UNIQUE	SG_ACTION_CONF_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_CWMPGET4ATTR_I_FK1	SG_ACTION_CONF_GUID	SPRT_SG_ACTION_CONF	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_ACT_CWMPGT4ATTR_MP_FK1	SPRT_SG_ACT_CWMPGET4ATTR_MAP	SG_ACT_CWMPGET4ATTR_I_GUID	CASCADE

SPRT_SG_ACT_CWMPGET4ATTR_MAP

This table stores the list of parameters and device attribute mappings, building on the base object specified in the parent table SPRT_SG_ACT_CWMPGET4ATTR_I.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_ACT_CWMPGET4ATTR_I_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACT_CWMPGET4ATTR_I.GUID.
PARAM_NAME	VARCHAR2(1024)		No	The full parameter name.
ATTR_DEF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_ATTR_DEF.GUID.
ATTR_INDEX	NUMBER(5)		No	The index value used for arrays of complex attributes. For simple attributes, this value is 0.

Indexes

Name	Type	Columns
SPRT_SG_ACT_CWMPGT4ATTR_MAP_PK	UNIQUE	GUID
SPRT_SG_ACT_CWMPGT4ATTR_MAP_UK	UNIQUE	ATTR_DEF_GUID, SG_ACT_CWMPGET4ATTR_I_GUID, ATTR_INDEX
SPRT_SG_ACT_CWMPGT4ATTR_MP_IX1	NORMAL	SG_ACT_CWMPGET4ATTR_I_GUID
SPRT_SG_ACT_CWMPGT4ATTR_MP_IX2	NORMAL	ATTR_DEF_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_CWMPGT4ATTR_MP_FK2	ATTR_DEF_GUID	SPRT_EC_ATTR_DEF	NO ACTION

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_CWMPGT4ATTR_MP_FK1	SG_ACT_CWMPGET4ATTR_I_GUID	SPRT_SG_ACT_CWMPGET4ATTR_I	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_CWMPGET_I

This table holds the action specific configuration for an instance of the Get Parameter Values (Database Storage) policy action.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_ACTION_CONF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACTION_CONF.GUID, linking this plugin specific configuration to the action in the workflow.
DATASOURCE	VARCHAR2(256)		No	The JNDI name of the datasource to use to store the parameter values.
TABLE_NAME	VARCHAR2(64)		No	The table name to use to store the parameter values.
BASE_OBJECT	VARCHAR2(1000)		No	The base object of which all other objects are children of.
PROBE_METHOD	VARCHAR2(32)		No	One of: WALK_TREE, FULL_TREE.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_ACT_CWMPGET_I_IDX1	NORMAL	SG_ACTION_CONF_GUID
SPRT_SG_ACT_CWMPGET_I_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_CWMPGET_I_FK1	SG_ACTION_CONF_GUID	SPRT_SG_ACTION_CONF	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_ACT_CWMPGET_VAR_FK1	SPRT_SG_ACT_CWMPGET_VAR	SG_ACT_CWMPGET_I_GUID	CASCADE
SPRT_SG_ACT_CWMPGET_MAP_FK1	SPRT_SG_ACT_CWMPGET_MAPPING	SG_ACT_CWMPGET_I_GUID	CASCADE
SPRT_SG_ACT_CWMPGET_IFILT_FK1	SPRT_SG_ACT_CWMPGET_IFILT	SG_ACT_CWMPGET_I_GUID	CASCADE

SPRT_SG_ACT_CWMPGET_IFILT

This table stores the filter list per index in the base parameter name specified in the parent table SPRT_SG_ACT_CWMPGET_I.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_ACT_CWMPGET_I_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACT_CWMPGET_I.GUID.
ORDINAL	NUMBER(9)		No	The index number (first, second, etc.. occurrence of {i} in the full parameter name) to which this filter applies.
FILTER_LIST	VARCHAR2(128)		Yes	A comma delimited list of explicit index numbers. If NULL, then no filtering will be done.

Indexes

Name	Type	Columns
SPRT_SG_ACT_CWMPGET_IFILT_IDX1	NORMAL	SG_ACT_CWMPGET_I_GUID
SPRT_SG_ACT_CWMPGET_IFILT_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_CWMPGET_IFILT_FK1	SG_ACT_CWMPGET_I_GUID	SPRT_SG_ACT_CWMPGET_I	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_CWMPGET_MAPPING

This table stores the list of parameter mappings, building on the base object specified in the parent table SPRT_SG_ACT_CWMPGET_I.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_ACT_CWMPGET_I_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACT_CWMPGET_I.GUID.
PARAM_SUFFIX	VARCHAR2(1000)		No	The parameter name starting after the base_object in the parent record.
FIELD_NAME	VARCHAR2(128)		No	Database column name to populate with the value of the parameter.

Indexes

Name	Type	Columns
SPRT_SG_ACT_CWMPGET_MAPPI_IDX1	NORMAL	SG_ACT_CWMPGET_I_GUID
SPRT_SG_ACT_CWMPGET_MAP_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_CWMPGET_MAP_FK1	SG_ACT_CWMPGET_I_GUID	SPRT_SG_ACT_CWMPGET_I	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_CWMPGET_STATS

This table is an example table that can be used by the CWMP Get Parameter Value (Database Storage) policy action.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary key.
DEVICE_UNIQUE_ID	NVARCHAR2(128)	NULL	Yes	Device's Unique ID String.
POLICY_GUID	VARCHAR2(36)	NULL	Yes	The GUID of the policy which triggered the policy action.
DATA01	NVARCHAR2(128)	NULL	Yes	Data field.

Field Name	Type	Default	Nullable	Description
DATA02	NVARCHAR2(128)	NULL	Yes	Data field.
DATA03	NVARCHAR2(128)	NULL	Yes	Data field.
DATA04	NVARCHAR2(128)	NULL	Yes	Data field.
DATA05	NVARCHAR2(128)	NULL	Yes	Data field.
DATA06	NVARCHAR2(128)	NULL	Yes	Data field.
DATA07	NVARCHAR2(128)	NULL	Yes	Data field.
DATA08	NVARCHAR2(128)	NULL	Yes	Data field.
DATA09	NVARCHAR2(128)	NULL	Yes	Data field.
DATA10	NVARCHAR2(128)	NULL	Yes	Data field.
CREATED	DATE	SYSDATE	No	Date upon creation.

Indexes

There are no indexes defined for this table.

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_CWMPGET_VAR

This table stores the list of variables mappings for the action configuration specified by the parent table SPRT_SG_ACT_CWMPGET_I.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_ACT_CWMPGET_I_GUID	VARCHAR2(36)		No	Reference to the parent record in SPRT_SG_ACT_CWMPGET_I.
VARIABLE	VARCHAR2(32)		No	One of the built-in variables supported by this plugin: <code>TIMESTAMP</code> , <code>DEVICE_ID</code> , <code>DEVICE_MAC</code> , <code>DEVICE_IP</code> , <code>DEVICE_UNIQUE_ID</code> , <code>BASE_OBJECT</code> , <code>OBJECT_INDEX</code> , <code>EXECUTION_GROUP</code> , <code>POLICY_IDENTIFIER</code> .
FIELD_NAME	VARCHAR2(128)		No	Field name to populate with the value of the built-in field.

Indexes

Name	Type	Columns
SPRT_SG_ACT_CWMPGET_VAR_IDX1	NORMAL	SG_ACT_CWMPGET_I_GUID
SPRT_SG_ACT_CWMPGET_VAR_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_CWMPGET_VAR_FK1	SG_ACT_CWMPGET_I_GUID	SPRT_SG_ACT_CWMPGET_I	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_CWMP_DM_G

This table maps a defined capability to a set of unit tests that are used to determine whether the device in question supports that data model.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_CAPABILITY_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_CAPABILITY.GUID.
MAP_TARGET	VARCHAR2(32)		No	Valid values are HW_ONLY, FW_ONLY, and BOTH_HW_AND_FW. This setting defines whether the capability should map to the hardware only, the firmware only, or both the hardware and the firmware.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_ACT_CWMP_DM_G_IDX1	NORMAL	EC_CAPABILITY_GUID
SPRT_SG_ACT_CWMP_DM_G_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_CWMP_DM_G_FK1	EC_CAPABILITY_GUID	SPRT_EC_CAPABILITY	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SG_ACT_CWMP_DM_TEST_FK1	SPRT_SG_ACT_CWMP_DM_TEST	SG_ACT_CWMP_DM_G_GUID	CASCADE

SPRT_SG_ACT_CWMP_DM_I

This table holds the action specific configuration for an instance of the Data Model Capability Discovery policy action.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_ACTION_CONF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACTION_CONF.GUID, linking this plugin specific configuration to the action in the workflow.
PROBE_METHOD	VARCHAR2(32)	'FULL_TREE'	No	One of: WALK_TREE, FULL_TREE.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_ACT_CWMP_DM_I_PK	UNIQUE	GUID
SPRT_SG_ACT_CWMP_DM_I_UK	UNIQUE	SG_ACTION_CONF_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_CWMP_DM_I_FK1	SG_ACTION_CONF_GUID	SPRT_SG_ACTION_CONF	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_CWMP_DM_TEST

This table holds the test cases that are used by the Data Model Discovery action to evaluate whether a device supports a given data model.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
OBJECT_NAME	VARCHAR2(256)		No	The object name on which the test is carried out.
TEST_TYPE	VARCHAR2(32)		No	One of: EXISTENCE, ABSENCE, WRITABLE, VALUE.
COMPARISON_TYPE	VARCHAR2(32)		Yes	For a test type of VALUE, this specified the type of test performed on the value. One of: EQUALITY, RANGE, REGULAR_EXPRESSION, LIST.
SG_ACT_CWMP_DM_G_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SC_ACT_CWMP_DM_G.GUID.

Indexes

Name	Type	Columns
SG_ACT_CWMP_DM_TEST_PK	UNIQUE	GUID
SPRT_SG_ACT_CWMP_DM_TEST_IDX1	NORMAL	SG_ACT_CWMP_DM_G_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SG_ACT_CWMP_DM_TEST_FK1	SG_ACT_CWMP_DM_G_GUID	SPRT_SG_ACT_CWMP_DM_G	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SG_ACT_CWMP_DM_TEST_VAL_FK1	SPRT_SG_ACT_CWMP_DM_TEST_VAL	SG_ACT_CWMP_DM_TEST_GUID	CASCADE

SPRT_SG_ACT_CWMP_DM_TEST_VAL

This table holds the values that the unit tests use when determining whether a data model is supported on a device. The test type, as defined in SPRT_SG_ACT_CWMP_DM_TEST determines the number of entries that are in this table for each record in the SPRT_SG_ACT_CWMP_DM_TEST table. If the test type is EQUALITY or REGULAR_EXPRESSION, there will only be a single record in this table. If the test type is RANGE, there will be two records in this table, one for each end of the range. Both of these values are included in the range. If the test type is LIST, there will be one record in this table for each item in the list.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
VALUE	NVARCHAR2(768)		Yes	The value that is used by the unit test.
SG_ACT_CWMP_DM_TEST_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACT_CWMP_DM_TEST.GUID.

Indexes

Name	Type	Columns
SG_ACT_CWMP_DM_TEST_VAL_PK	UNIQUE	GUID
SPRT_SG_ACT_CWMP_DM_TST_V_IDX1	NORMAL	SG_ACT_CWMP_DM_TEST_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SG_ACT_CWMP_DM_TEST_VAL_FK1	SG_ACT_CWMP_DM_TEST_GUID	SPRT_SG_ACT_CWMP_DM_TEST	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_CWMP_RPC_CAP_XREF

This table identifies the RPC methods that need to be present in order for the capability to match during RPC Method discovery.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
SG_ACT_CWMP_RPC_METHOD_G_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACT_CWMP_METHOD_G.GUID.
SG_ACT_CWMP_RPC_METHOD_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACT_CWMP_METHOD.GUID.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_ACT_CWMP_RPC_CAP_X_PK	UNIQUE	GUID
SPRT_SG_ACT_CWMP_RPC_CP_X_IDX1	NORMAL	SG_ACT_CWMP_RPC_METHOD_G_GUID
SPRT_SG_ACT_CWMP_RPC_CP_X_IDX2	NORMAL	SG_ACT_CWMP_RPC_METHOD_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_CWMP_RPC_CAP_X_FK2	SG_ACT_CWMP_RPC_METHOD_GUID	SPRT_SG_ACT_CWMP_RPC_METHOD	CASCADE
SPRT_SG_ACT_CWMP_RPC_CAP_X_FK1	SG_ACT_CWMP_RPC_METHOD_G_GUID	SPRT_SG_ACT_CWMP_RPC_METHOD_G	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_CWMP_RPC_METHOD

This table holds the TR-069 RPC methods that can be mapped to capabilities. This table allows for new methods, as well as vendor-specific RPC methods, to be easily added to the list of available RPCs. The default RPC methods that are included with the SG installation will be flagged as system-owned.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
NAME	VARCHAR2(256)		No	The name of the RPC method.
IS_SYSTEM_DEFINED	CHAR(1)		No	A boolean field where a value of 'Y' indicates that this is a system-owned field that cannot be deleted or modified. A value of 'N' indicates that this is not a system-owned field, and that edits and deletes are permitted.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_ACT_CWMP_RPCMETHOD_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_ACT_CWMP_RPC_CAP_X_FK2	SPRT_SG_ACT_CWMP_RPC_CAP_XREF	SG_ACT_CWMP_RPC_METHOD_GUID	CASCADE

SPRT_SG_ACT_CWMP_RPC_METHOD_G

This table maps the RPC methods to capabilities. It allows the capability to map to just the hardware, just the firmware, or the combination of hardware and firmware.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
EC_CAPABILITY_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_CAPABILITY.GUID.
MAP_TARGET	VARCHAR2(32)		No	Valid values are HW_ONLY, FW_ONLY, and BOTH_HW_AND_FW. This setting defines whether the capability should map to the hardware only, the firmware only, or both the hardware and the firmware.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_ACT_CWMP_RPCMETH_G_PK	UNIQUE	GUID
SPRT_SG_ACT_CWMP_RPC_MD_G_IDX1	NORMAL	EC_CAPABILITY_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_CWMP_RPCMETH_G_FK1	EC_CAPABILITY_GUID	SPRT_EC_CAPABILITY	NO ACTION

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_ACT_CWMP_RPC_CAP_X_FK1	SPRT_SG_ACT_CWMP_RPC_CAP_XREF	SG_ACT_CWMP_RPC_METHOD_G_GUID	CASCADE

SPRT_SG_ACT_DMT_I

This table holds the action specific configuration for an instance of the Data Model Test policy action.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
SG_ACTION_CONF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACTION_CONF.GUID, linking this plugin specific configuration to the action in the workflow.
DESCRIPTION	NVARCHAR2(256)		No	A description of the purpose of the test.
PROBE_METHOD	VARCHAR2(32)	'FULL_TREE'	No	One of: WALK_TREE, FULL_TREE.

Indexes

Name	Type	Columns
SPRT_SG_ACT_DMT_I_PK	UNIQUE	GUID
SPRT_SG_ACT_DMT_I_UK	UNIQUE	SG_ACTION_CONF_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_DMT_I_FK1	SG_ACTION_CONF_GUID	SPRT_SG_ACTION_CONF	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SG_ACT_DMT_TEST_FK1	SPRT_SG_ACT_DMT_TEST	SG_ACT_DMT_I_GUID	CASCADE

SPRT_SG_ACT_DMT_TEST

This table holds the tests that are used by the Data Model Test action.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
OBJECT_NAME	VARCHAR2(256)		No	The object name on which the test is carried out.
TEST_TYPE	VARCHAR2(32)		No	One of: EXISTENCE, ABSENCE, WRITABLE, VALUE.

Field Name	Type	Default	Nullable	Description
COMPARISON_TYPE	VARCHAR2(32)		Yes	For a test type of VALUE, this specifies the type of test performed on the value. One of: EQUALITY, RANGE, REGULAR_EXPRESSION, LIST.
SG_ACT_DMT_I_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACT_DMT_I.GUID.

Indexes

Name	Type	Columns
SG_ACT_DMT_TEST_PK	UNIQUE	GUID
SPRT_SG_ACT_DMT_TEST_IDX1	NORMAL	SG_ACT_DMT_I_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SG_ACT_DMT_TEST_FK1	SG_ACT_DMT_I_GUID	SPRT_SG_ACT_DMT_I	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SG_ACT_DMT_TEST_VAL_FK1	SPRT_SG_ACT_DMT_TEST_VAL	SG_ACT_DMT_TEST_GUID	CASCADE

SPRT_SG_ACT_DMT_TEST_VAL

This table holds the values that the unit tests use when determining whether a data model is supported on a device. The test type, as defined in SPRT_SG_ACT_DMT_TEST, determines the number of entries that are in this table for each record in the SPRT_SG_ACT_DMT_TEST table. If the test type is EQUALITY or REGULAR_EXPRESSION, there will only be a single record in this table. If the test type is RANGE, there will be two records in this table, one for each end of the range. Both of these values are included in the range. If the test type is LIST, there will be one record in this table for each item in the list.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
TEST_VALUE	NVARCHAR2(768)		Yes	The value that is used by the unit test.
SG_ACT_DMT_TEST_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACT_DMT_TEST.GUID.

Indexes

Name	Type	Columns
SG_ACT_DMT_TEST_VAL_PK	UNIQUE	GUID
SPRT_SG_ACT_DMT_TEST_VAL_IDX1	NORMAL	SG_ACT_DMT_TEST_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SG_ACT_DMT_TEST_VAL_FK1	SG_ACT_DMT_TEST_GUID	SPRT_SG_ACT_DMT_TEST	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_EMAIL_I

This table holds the configuration options for an instance of the email policy action.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
SG_ACTION_CONF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACTION_CONF.GUID, linking this plugin specific configuration to the action in the workflow.
RECIPIENT	VARCHAR2(3200)		No	A comma-delimited list of recipient email addresses.
SENDER	VARCHAR2(256)		No	The sender of the email.
SUBJECT	VARCHAR2(256)		No	The subject line for the email.
BODY	CLOB(4000)		No	The body of the email.

Indexes

Name	Type	Columns
SPRT_SG_ACT_EMAIL_I_PK	UNIQUE	GUID
SPRT_SG_ACT_EMAIL_I_UK	UNIQUE	SG_ACTION_CONF_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_EMAIL_I_FK1	SG_ACTION_CONF_GUID	SPRT_SG_ACTION_CONF	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_FIRMWARE_I

This table holds the action specific configuration for an instance of the firmware upgrade policy action.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
SG_ACTION_CONF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACTION_CONF.GUID, linking this plugin specific configuration to the action in the workflow.
EC_FW_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_EC_FIRMWARE.GUID. If specified, this is the specific firmware that the device will be upgraded to.
USE_RECOMMENDED	CHAR(1)		No	If 'Y', the firmware that is flagged as "Recommended" for the device hardware will be used.
FORCE_UPGRADE	CHAR(1)	'N'	No	If 'Y', the upgrade will proceed even if the device already appears to be at the specified firmware.
USE_UPGRADEPATH	CHAR(1)	'N'	No	If 'Y', the upgrade path configured for the current hardware and firmware will be used.

Indexes

Name	Type	Columns
SPRT_SG_ACT_FIRMWARE_I_IDX1	NORMAL	EC_FW_GUID
SPRT_SG_ACT_FIRMWARE_I_PK	UNIQUE	GUID
SPRT_SG_ACT_FIRMWARE_I_UK	UNIQUE	SG_ACTION_CONF_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_FIRMWARE_I_FK2	EC_FW_GUID	SPRT_EC_FIRMWARE	SET NULL
SPRT_SG_ACT_FIRMWARE_I_FK1	SG_ACTION_CONF_GUID	SPRT_SG_ACTION_CONF	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_FW_CONTEXT

This table is used to keep track of the currently executing firmware action for a device, so that when the device completes the upgrade process, control can be redirected to the proper workflow.

Field Name	Type	Default	Nullable	Description
EC_DEVICE_ID	NUMBER(9)		No	Foreign key to ENCORE_DEVICE.ID.
SG_POLICY_ACTION_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACT_FIRMWARE_I.GUID.

Indexes

Name	Type	Columns
SPRT_SG_ACT_FW_CONTEXT_IDX1	NORMAL	EC_DEVICE_ID
SPRT_SG_ACT_FW_CONTEXT_IDX2	NORMAL	SG_POLICY_ACTION_GUID
SPRT_SG_ACT_FW_CONTEXT_PK	UNIQUE	SG_POLICY_ACTION_GUID, EC_DEVICE_ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_FW_CONTEXT_FK1	EC_DEVICE_ID	SPRT_EC_DEVICE	CASCADE
SPRT_SG_ACT_FW_CONTEXT_FK2	SG_POLICY_ACTION_GUID	SPRT_SG_POLICY_ACTION	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_RESTORE_CXT

This table is used to keep track of the currently executing configuration restore for a device, so that when the device completes the process, control can be redirected to the proper workflow.

Field Name	Type	Default	Nullable	Description
EC_DEVICE_ID	NUMBER(9)		No	Foreign key to ENCORE_DEVICE.ID.
SG_POLICY_ACTION_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACT_FIRMWARE_I.GUID.

Indexes

Name	Type	Columns
SPRT_SG_ACT_RESTORE_CXT_IDX1	NORMAL	EC_DEVICE_ID
SPRT_SG_ACT_RESTORE_CXT_IDX2	NORMAL	SG_POLICY_ACTION_GUID
SPRT_SG_ACT_RESTORE_CXT_PK	UNIQUE	SG_POLICY_ACTION_GUID, EC_DEVICE_ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_RESTORE_CXT_FK1	EC_DEVICE_ID	SPRT_EC_DEVICE	CASCADE
SPRT_SG_ACT_RESTORE_CXT_FK2	SG_POLICY_ACTION_GUID	SPRT_SG_POLICY_ACTION	NO ACTION

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_RESTORE_I

This table holds the action specific configuration for an instance of the Configuration Restore policy action.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
SG_ACTION_CONF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACTION_CONF.GUID, linking this plugin specific configuration to the action in the workflow.

Field Name	Type	Default	Nullable	Description
USE_LATEST_IF_NO_LKG	VARCHAR2(32)		No	Valid values are TRUE and FALSE. If TRUE, the most recent backup will be used to restore, if there is no backup flagged as the "Last Known Good" configuration.
LOCK_CONFIGURATION	VARCHAR2(32)		No	Valid values are TRUE and FALSE. If TRUE, the device configuration will be locked after the configuration has been restored.

Indexes

Name	Type	Columns
SPRT_SG_ACT_RESTORE_I_PK	UNIQUE	GUID
SPRT_SG_ACT_RESTORE_I_UK	UNIQUE	SG_ACTION_CONF_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_RESTORE_I_FK1	SG_ACTION_CONF_GUID	SPRT_SG_ACTION_CONF	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_SERVICE_SUB_I

This table holds the action specific configuration for an instance of the Service Subscription policy action.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
SG_ACTION_CONF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACTION_CONF.GUID, linking this plugin specific configuration to the action in the workflow.
SERVICE_ID	NUMBER(9)		Yes	Foreign Key to SPRT_EC_SERVICE.ID. The service that will be associated or unassociated from the device.
SERVICE_NAME	NVARCHAR2(192)		No	The name of the service referenced by SERVICE_ID.
SUBSCRIPTION_ACTION	VARCHAR2(32)	'ADD'	No	Valid values are: ADD, REMOVE. Specified whether to add or remove the service from the device.

Indexes

Name	Type	Columns
SPRT_SG_ACT_SERVICE_SUB_I_IDX1	NORMAL	SERVICE_ID
SPRT_SG_ACT_SERVICE_SUB_I_PK	UNIQUE	GUID
SPRT_SG_ACT_SERVICE_SUB_I_UK	UNIQUE	SG_ACTION_CONF_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_SERVICE_SUB_I_FK2	SERVICE_ID	SPRT_EC_SERVICE	SET NULL
SPRT_SG_ACT_SERVICE_SUB_I_FK1	SG_ACTION_CONF_GUID	SPRT_SG_ACTION_CONF	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_SMM_CONTEXT

This table is used to keep track of the currently executing software module management action for a device, so that when the device completes the process, control can be redirected to the proper workflow.

Field Name	Type	Default	Nullable	Description
EC_DEVICE_ID	NUMBER(9)		No	Foreign key to ENCORE_DEVICE.ID.
SG_POLICY_ACTION_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACT_FIRMWARE_I.GUID.

Indexes

Name	Type	Columns
SPRT_SG_ACT_SMM_CONTEXT_IDX1	NORMAL	EC_DEVICE_ID
SPRT_SG_ACT_SMM_CONTEXT_IDX2	NORMAL	SG_POLICY_ACTION_GUID
SPRT_SG_ACT_SMM_CONTEXT_PK	UNIQUE	SG_POLICY_ACTION_GUID, EC_DEVICE_ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_SMM_CONTEXT_FK1	EC_DEVICE_ID	SPRT_EC_DEVICE	CASCADE
SPRT_SG_ACT_SMM_CONTEXT_FK2	SG_POLICY_ACTION_GUID	SPRT_SG_POLICY_ACTION	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_SMM_I

This table holds the action specific configuration for an instance of the Software Module Management policy action.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
SG_ACTION_CONF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACTION_CONF.GUID, linking this plugin specific configuration to the action in the workflow.
SG_SMM_DEF_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_SG_SMM_DEF.GUID. This specifies the Software Module to install or uninstall.
OPERATION	VARCHAR2(32)	'INSTALL'	No	One of: INSTALL, UNINSTALL.
LOAD_DEPENDENCIES	CHAR(1)	'N'	No	If 'Y', then any other Software Modules that this one depends on will be installed before this one, if not already present on the device.
IGNORE_RESOURCE_LIMITS	CHAR(1)	'N'	No	If 'Y', the software module will be installed without first checking to ensure there is enough storage space and runtime memory to support the module.

Indexes

Name	Type	Columns
SPRT_SG_ACT_SMM_I_UK	UNIQUE	SG_ACTION_CONF_GUID
SPRT_SG_ACT_SMM_I_IDX1	NORMAL	SG_SMM_DEF_GUID
SPRT_SG_ACT_SMM_I_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_SMM_I_FK1	SG_ACTION_CONF_GUID	SPRT_SG_ACTION_CONF	CASCADE
SPRT_SG_ACT_SMM_I_FK2	SG_SMM_DEF_GUID	SPRT_SG_SMM_DEF	SET NULL

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_SYNC_SESSION

This table holds the session records for Configuration Synchronization sessions which are in progress.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_DEVICE_ID	NUMBER(9)		No	Reference to SPRT_EC_DEVICE.ID.
SG_ACTION_STUB_GUID	VARCHAR2(36)		No	Reference to SPRT_SG_ACTION_CONF.GUID.

Indexes

Name	Type	Columns
SPRT_SG_ACT_SYNC_SESSION_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_UNCOND_I

This table holds the action specific configuration for an instance of the Unconditional Result policy action.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
SG_ACTION_CONF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACTION_CONF.GUID, linking this plugin specific configuration to the action in the workflow.
RESULT	VARCHAR2(32)		No	The workflow result to return. One of: PASS, FAIL, SKIP.
DELAY	NUMBER(9)	0	No	A delay in milliseconds before returning the result.

Indexes

Name	Type	Columns
SPRT_SG_ACT_UNCOND_I_PK	UNIQUE	GUID
SPRT_SG_ACT_UNCOND_I_UK	UNIQUE	SG_ACTION_CONF_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_UNCOND_I_FK1	SG_ACTION_CONF_GUID	SPRT_SG_ACTION_CONF	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_ACT_VC_SNMP_I

This table holds the action specific configuration for an instance of the Forward Value Change to SNMP Manager policy action.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
SG_ACTION_CONF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACTION_CONF.GUID, linking this plugin specific configuration to the action in the workflow.
HOSTNAME	NVARCHAR2(192)		No	The hostname of the SNMP Manager to forward the value change content to.
COMM_STRING	NVARCHAR2(192)		No	The community string to use when communicating with the SNMP Manager.
DESCRIPTION	NVARCHAR2(256)		No	A description to pass along in the SNMP Trap.

Indexes

Name	Type	Columns
SPRT_SG_ACT_VC_SNMP_I_PK	UNIQUE	GUID
SPRT_SG_ACT_VC_SNMP_I_UK	UNIQUE	SG_ACTION_CONF_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_ACT_VC_SNMP_I_FK1	SG_ACTION_CONF_GUID	SPRT_SG_ACTION_CONF	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SG_ACT_VC_SNMP_TEST_FK1	SPRT_SG_ACT_VC_SNMP_TEST	SG_ACT_VC_SNMP_I_GUID	CASCADE

SPRT_SG_ACT_VC_SNMP_TEST

This table holds the test cases that are used by the Forward Value Change to SNMP Manager policy action.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_ACT_VC_SNMP_I_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACT_VC_SNMP_I.GUID
OBJECT_NAME	VARCHAR2(256)		No	The object name on which the test is carried out.
COMPARISON_TYPE	VARCHAR2(32)		Yes	Specifies the type of test performed on the value. One of: RANGE, REGULAR_EXPRESSION, LIST.

Indexes

Name	Type	Columns
SG_ACT_VC_SNMP_TEST_PK	UNIQUE	GUID
SPRT_SG_ACT_VC_SNMP_TEST_IDX1	NORMAL	SG_ACT_VC_SNMP_I_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SG_ACT_VC_SNMP_TEST_FK1	SG_ACT_VC_SNMP_I_GUID	SPRT_SG_ACT_VC_SNMP_I	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SG_ACT_VC_SNMP_TEST_VAL_FK1	SPRT_SG_ACT_VC_SNMP_TEST_VAL	SG_ACT_VC_SNMP_TEST_GUID	CASCADE

SPRT_SG_ACT_VC_SNMP_TEST_VAL

This table holds the values that the unit tests use when determining whether a VALUE CHANGE inform should be forwarded. The comparison type, as defined in SPRT_SG_ACT_VC_SNMP_TEST, determines the number of entries that are in this table for each record in the SPRT_SG_ACT_VC_SNMP_TEST table. If the test type is REGULAR_EXPRESSION, there will only be a single record in this table. If the test type is RANGE, there will be two records in this table; one for each end of the range. Both of these values are included in the range. If the test type is LIST, there will be one record in this table for each item in the list.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
TEST_VALUE	NVARCHAR2(768)		Yes	The value that is used by the unit test.
SG_ACT_VC_SNMP_TEST_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACT_VC_SNMP_TEST.GUID.

Indexes

Name	Type	Columns
SG_ACT_VC_SNMP_TEST_VAL_PK	UNIQUE	GUID
SPRT_SG_ACT_VC_SNMP_TST_V_IDX1	NORMAL	SG_ACT_VC_SNMP_TEST_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SG_ACT_VC_SNMP_TEST_VAL_FK1	SG_ACT_VC_SNMP_TEST_GUID	SPRT_SG_ACT_VC_SNMP_TEST	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_CONDITION

This table serves as the entry point into a condition, and acts as the stub by which an element that uses conditions can reference said condition. All other elements that comprise the condition will reference the record in this table.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.

Field Name	Type	Default	Nullable	Description
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_CONDITION_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_SERVICE_TC_XREF_FK3	SPRT_SG_SERVICE_TC_XREF	SG_CONDITION_GUID	NO ACTION
SPRT_SG_POLICY_ACTION_FK2	SPRT_SG_POLICY_ACTION	SG_CONDITION_GUID	NO ACTION
SPRT_SG_POLICY_FK3	SPRT_SG_POLICY	SG_CONDITION_GUID	NO ACTION
SPRT_SG_EXPRESSION_FK1	SPRT_SG_EXPRESSION	SG_CONDITION_GUID	CASCADE
SPRT_SG_CSR_RTP_FK2	SPRT_SG_CSR_RTP	SG_CONDITION_GUID	NO ACTION

SPRT_SG_CSRMODULE_ROLE_XREF

This table maintains a list of roles associated with a custom CSR module. If a user has at least one of the roles associated with the CSR module, they are permitted to use the module. If there are no roles associated with the CSR module, then any user may use it. This table is not used for built-in modules.

Field Name	Type	Default	Nullable	Description
SG_CSR_MODULE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_CSR_MODULE.GUID.
EC_ROLE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_ROLE.GUID.

Indexes

Name	Type	Columns
SPRT_SG_CSRMODULE_ROLE_XR_IDX1	NORMAL	SG_CSR_MODULE_GUID
SPRT_SG_CSRMODULE_ROLE_XR_IDX2	NORMAL	EC_ROLE_GUID
SPRT_SG_CSRMOD_ROLE_XREF_PK	UNIQUE	SG_CSR_MODULE_GUID, EC_ROLE_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CSRMOD_ROLE_XREF_FK2	EC_ROLE_GUID	SPRT_EC_ROLE	CASCADE
SPRT_SG_CSRMOD_ROLE_XREF_FK1	SG_CSR_MODULE_GUID	SPRT_SG_CSR_MODULE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_CSR_DIAG_SERVER

This table maintains the set of diagnostic servers known to the system.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
EC_REALM_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_REALM.GUID. The realm that this diagnostic server belongs to.
HOSTNAME	NVARCHAR2(256)		No	The external hostname or IP Address for this diagnostic server. This is the hostname that will be sent to devices.
DESCRIPTION	NVARCHAR2(256)	NULL	Yes	An optional description of this diagnostic server.
PORT	NUMBER(9)		No	The port the server is listening on for requests from devices.
SERVER_TYPE	VARCHAR2(32)		No	The type (protocol) of file server. Either HTTP or FTP.
SUPPORTS_UPLOAD	CHAR(1)	'N'	No	Indicator of whether or not the diagnostic server supports upload diagnostics.
SUPPORTS_DOWNLOAD	CHAR(1)	'N'	No	Indicator of whether or not the diagnostic server supports download diagnostics.
USERNAME	NVARCHAR2(256)	NULL	Yes	If authentication is required to access files from the file server, this is the username that devices will be told to use.
PASSWORD	NVARCHAR2(256)	NULL	Yes	If authentication is required to access files from the file server, this is the password that devices will be told to use.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.

Field Name	Type	Default	Nullable	Description
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_CSR_DIAG_SERVER_IDX1	NORMAL	EC_REALM_GUID
SPRT_SG_CSR_DIAG_SERVER_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CSR_DIAG_SERVER_FK1	EC_REALM_GUID	SPRT_EC_REALM	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_CSR_DIAG_SVR_PATH_FK1	SPRT_SG_CSR_DIAG_SERVER_PATH	SG_CSR_DIAG_SERVER_GUID	CASCADE

SPRT_SG_CSR_DIAG_SERVER_PATH

This tables contains a record for each file used by the diagnostic server.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
SG_CSR_DIAG_SERVER_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_CSR_DIAG_SERVER.GUID.
PATH_TYPE	VARCHAR2(32)		No	Specifies what type of diagnostic server this file is for. One of UPLOAD, DOWNLOAD.
PATH	NVARCHAR2(256)		No	The filename including the full path.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_CSR_DIAG_SVR_PATH_IDX1	NORMAL	SG_CSR_DIAG_SERVER_GUID
SPRT_SG_CSR_DIAG_SVR_PATH_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CSR_DIAG_SVR_PATH_FK1	SG_CSR_DIAG_SERVER_GUID	SPRT_SG_CSR_DIAG_SERVER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_CSR_MODULE

This table maintains custom CSR modules.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
EC_PLUGIN_REGISTRY_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_PLUGIN_REGISTRY.GUID.
NAME	NVARCHAR2(256)		No	Name of the custom module.
NAME_TOKEN	NVARCHAR2(256)		Yes	The property used for internationalization of the custom module name.
URL	NVARCHAR2(768)		Yes	URL specifying the location of custom CSR module user interface.
HEIGHT	NUMBER(9)		Yes	Height, in pixels, for the module within the CSR user interface.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
WIDTH	NUMBER(9)	NULL	Yes	Width, in pixels, for the module within the CSR user interface.

Indexes

Name	Type	Columns
SPRT_SG_CSR_MODULE_IDX1	NORMAL	EC_PLUGIN_REGISTRY_GUID
SPRT_SG_CSR_MODULE_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CSR_MODULE_FK1	EC_PLUGIN_REGISTRY_GUID	SPRT_EC_PLUGIN_REGISTRY	NO ACTION

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_CSRMOD_ROLE_XREF_FK1	SPRT_SG_CSRMODULE_ROLE_XREF	SG_CSR_MODULE_GUID	CASCADE

SPRT_SG_CSR_RTP

This table defines real-time probe parameters, which can be retrieved from a device via the CSR user interface. Real-time probes can be restricted to view-only or can allow modification of parameters on devices. Access to real-time probes can be controlled via device capabilities as well as the user's group associations.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_REALM_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_REALM.GUID.
NAME	NVARCHAR2(256)		No	The display name of the real-time probe.
DESCRIPTION	NVARCHAR2(256)	NULL	Yes	An optional description of the real-time probe.
MATCH_TYPE	VARCHAR2(32)		No	Defines the real-time probe capability match type. The value can be either MATCH_ANY, which means that the device can have any of the capabilities in the list in order for it to be displayed in the CSR, or MATCH_ALL, which means that the device must have all the capabilities in the list in order for it to be displayed in the CSR.

Field Name	Type	Default	Nullable	Description
PROBE_TYPE	VARCHAR2(32)	'READ_ONLY'	No	Defines the real-time probe type. The value can be either READ_ONLY, which means that the probe only allows read-only access to the parameters defined in the probe, or READ_WRITE, which means that the probe allows read access for all the parameters defined in the probe, and write-access to any parameters defined in the probe whose meta-data defines them as being writable.
SG_CONDITION_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_SG_CONDITION.GUID, which holds the filter condition definition for this real-time probe.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
PROBE_METHOD	VARCHAR2(32)		No	Defines the real-time probe method. The value can be either FULL_TREE, which means that the probe will perform a GetParameterNames on the full tree from the least common parameter, then compare the list with the parameters requested for the real-time probe, or WALK_TREE, which means that the probe will perform a GetParameterNames on a single level at a time and walk down the tree to determine all the branches and nodes.
VIEW_TYPE	VARCHAR2(32)	'RECORD'	No	Defines the real-time probe display type. Value can be either RECORD, which means the UI will display a single record at a time, with a dropdown to select the current record (by indices) for view/edit, or TABLE, which means the UI will display all records in a tabular format, allowing view and edit, as well as adding and deletion of rows.

Indexes

Name	Type	Columns
SPRT_SG_CSR_RTP_IDX1	UNIQUE	NAME, EC_REALM_GUID
SPRT_SG_CSR_RTP_IDX2	NORMAL	EC_REALM_GUID
SPRT_SG_CSR_RTP_IDX3	NORMAL	SG_CONDITION_GUID
SPRT_SG_CSR_RTP_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CSR_RTP_FK1	EC_REALM_GUID	SPRT_EC_REALM	CASCADE
SPRT_SG_CSR_RTP_FK2	SG_CONDITION_GUID	SPRT_SG_CONDITION	NO ACTION

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_CSR_RTP_PARAM_FK1	SPRT_SG_CSR_RTP_PARAM	SG_CSR_RTP_GUID	CASCADE
SPRT_SG_CSR_RTP_GRP_XREF_FK1	SPRT_SG_CSR_RTP_GRP_XREF	SG_CSR_RTP_GUID	CASCADE
SPRT_SG_CSR_RTP_CAP_XREF_FK1	SPRT_SG_CSR_RTP_CAP_XREF	SG_CSR_RTP_GUID	CASCADE

SPRT_SG_CSR_RTP_CAP_XREF

This table maintains the list of capabilities associated with each real-time probe.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_CSR_RTP_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_CSR_RTP.GUID.
EC_CAP_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_CAPABILITY.GUID

Indexes

Name	Type	Columns
SPRT_SG_CSR_RTP_CAP_XREF_IDX1	UNIQUE	SG_CSR_RTP_GUID, EC_CAP_GUID
SPRT_SG_CSR_RTP_CAP_XREF_IDX2	NORMAL	SG_CSR_RTP_GUID
SPRT_SG_CSR_RTP_CAP_XREF_IDX3	NORMAL	EC_CAP_GUID
SPRT_SG_CSR_RTP_CAP_XREF_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CSR_RTP_CAP_XREF_FK2	EC_CAP_GUID	SPRT_EC_CAPABILITY	CASCADE
SPRT_SG_CSR_RTP_CAP_XREF_FK1	SG_CSR_RTP_GUID	SPRT_SG_CSR_RTP	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_CSR_RTP_GRP_XREF

This table maintains the list of groups associated with each real-time probe.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_CSR_RTP_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_CSR_RTP.GUID.
EC_GROUP_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_GROUP.GUID.

Indexes

Name	Type	Columns
SPRT_SG_CSR_RTP_GRP_XREF_PK	UNIQUE	SG_CSR_RTP_GUID, EC_GROUP_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CSR_RTP_GRP_XREF_FK2	EC_GROUP_GUID	SPRT_EC_GROUP	CASCADE
SPRT_SG_CSR_RTP_GRP_XREF_FK1	SG_CSR_RTP_GUID	SPRT_SG_CSR_RTP	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_CSR_RTP_PARAM

This table holds the parameters, and their optional validation information, associated with a real-time probe.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_CSR_RTP_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_CSR_RTP.GUID.
PARAM_NAME	NVARCHAR2(256)		No	Full path of parameter name.
DISPLAY_NAME	NVARCHAR2(256)		No	Display name of the parameter.
ORDINAL	NUMBER(9)		No	The order in which the parameters are displayed in the real-time probe CSR module.
VALIDATION_TYPE	VARCHAR2(32)	'ANY'	No	Enumeration that defines the types of values for a real-time probe parameter. It holds the validation type for specified value, if real-time probe is READ-WRITE. Can be one of: LIST, which is a list of valid values, RANGE, which specifies the low-end and the high-end of the range, inclusive, REGULAR_EXPRESSION, which defines a regular expression that the specified value must match, or ANY, which means that any value may be specified.

Field Name	Type	Default	Nullable	Description
PARAM_ACCESS_TYPE	VARCHAR2(32)	'r'	No	The parameter access type. Either 'r' for read-only, or 'w' for writable.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_CSR_RTP_PARAM_IDX1	NORMAL	SG_CSR_RTP_GUID
SPRT_SG_CSR_RTP_PARAM_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CSR_RTP_PARAM_FK1	SG_CSR_RTP_GUID	SPRT_SG_CSR_RTP	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_CSR_RTP_PARAM_VAL_FK1	SPRT_SG_CSR_RTP_PARAM_VALUE	SG_CSR_RTP_PARAM_GUID	CASCADE

SPRT_SG_CSR_RTP_PARAM_VALUE

This table holds the validation values for real-time probe parameters. The comparison type, as defined in SPRT_SG_CSR_RTP_PARAM determines the number of entries that are in this table for each record in the SPRT_SG_CSR_RTP_PARAM table. If the test type is REGULAR_EXPRESSION, there will only be a single record in this table. If the test type is RANGE, there will be two records in this table; one for each end of the range. Both of these values are included in the range. If the test type is LIST, there will be one record in this table for each item in the list.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.

Field Name	Type	Default	Nullable	Description
SG_CSR_RTP_PARAM_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_CSR_RTP_PARAM.GUID.
VALUE	NVARCHAR2(768)		No	The value that is used by the validation.
ALIAS	NVARCHAR2(768)	NULL	Yes	Optional textual representation of the value.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_CSR_RTP_PARAM_VALUE_PK	UNIQUE	GUID
SPRT_SG_CSR_RTP_PARAM_VAL_IDX1	NORMAL	SG_CSR_RTP_PARAM_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CSR_RTP_PARAM_VAL_FK1	SG_CSR_RTP_PARAM_GUID	SPRT_SG_CSR_RTP_PARAM	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_CSR_UI_STATE

This table holds the CSR user interface state for users and groups. The state includes the tabs, modules, and their respective positions in the layout. A state is saved for either a user or a group.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_USER_GUID	VARCHAR2(36)	NULL	Yes	Foreign key to SPRT_EC_USER.GUID. If specified, indicates the user for which the UI state belongs.
EC_GROUP_GUID	VARCHAR2(36)	NULL	Yes	Foreign key to SPRT_EC_GROUP.GUID. If specified, indicates the group for which the UI state belongs.

Field Name	Type	Default	Nullable	Description
SG_CSR_MODULE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_CSR_MODULE.GUID.
TAB_NAME	NVARCHAR2(128)		No	The name of the tab for the current module.
TAB_ORDER	NUMBER(4)		No	The order in which the tabs are displayed in CSR UI.
COL_NUM	NUMBER(4)		No	The column position of the module.
VPOS	NUMBER(4)		No	The vertical position of the module.
MODULE_STATE	VARCHAR2(256)	NULL	Yes	Module-specific configuration. Currently used by the Real-time probe module to store the default real-time probe, and by the device summary module to store displayed fields.

Indexes

Name	Type	Columns
SPRT_SG_CSR_UI_STATE_IDX1	NORMAL	EC_USER_GUID
SPRT_SG_CSR_UI_STATE_IDX2	NORMAL	EC_GROUP_GUID
SPRT_SG_CSR_UI_STATE_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CSR_UI_STATE_FK2	EC_GROUP_GUID	SPRT_EC_GROUP	CASCADE
SPRT_SG_CSR_UI_STATE_FK1	EC_USER_GUID	SPRT_EC_USER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_CSR_UI_STATE_SRH

This table holds the CSR user interface search result headers state for users and groups.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_USER_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_EC_USER.GUID. If specified, indicates the user for which the UI state search result headers belong.

Field Name	Type	Default	Nullable	Description
EC_GROUP_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_EC_GROUP.GUID. If specified, indicates the group for which the UI state search result headers belong.
HEADER_ORDER	NUMBER(9)		Yes	The order in which the headers are displayed in the search results.
HEADER_ID	NUMBER(9)		Yes	Internal identifier used to indicate which field this header is for.
HEADER_NAME	NVARCHAR2(256)		Yes	Internal identifier used to indicate which field holds the data for the column.
I18N_DISPLAY_KEY	NVARCHAR2(256)		Yes	The property used for internationalization of the header name.
DB_TABLE_NAME	NVARCHAR2(64)		Yes	For system key fields, the name of the table the key resides in.
DB_COLUMN_NAME	NVARCHAR2(64)		Yes	For system key fields, the name of the field the key resides in.

Indexes

Name	Type	Columns
SPRT_SG_CSR_UI_STATE_SRH_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CSR_UI_STATE_SRH_FK2	EC_GROUP_GUID	SPRT_EC_GROUP	CASCADE
SPRT_SG_CSR_UI_STATE_SRH_FK1	EC_USER_GUID	SPRT_EC_USER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_CWMPPARAM_MAP

This table maintains parameter mappings, which can be used to map the value of parameters contained within a device event (CWMP Inform message) to device attributes and system keys. Each time a device event is received, the parameters and values sent are compared against the mappings defined here, and upon a match, the specified field on the device is updated.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.

Field Name	Type	Default	Nullable	Description
EC_REALM_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_REALM.GUID.
OBJECT_NAME	VARCHAR2(256)		No	The name of the object or parameter contained within the inform to map to a field on the device.
COMPARISON_TYPE	VARCHAR2(32)	'EQUALITY'	No	Type of comparison to be performed on the parameter value. One of: EQUALITY, meaning the parameter value matches the specified value, RANGE, which specifies the low-end and the high-end of the range, inclusive, LIST, which is a list of valid values, or REGULAR_EXPRESSION, which defines a regular expression that the parameter value must match.
TEST_TYPE	VARCHAR2(32)	'VALUE'	No	Type of test performed on the parameter value. Either EXISTENCE, meaning we are only checking if the parameter exists in the inform, or VALUE, meaning we are comparing against one or more values as specified by COMPARISON_TYPE.
MAP_TYPE	VARCHAR2(32)	'ATTRIBUTE'	No	Which object the parameter value will be mapped to. Either ATTRIBUTE, which means a device attribute, or SYSTEM_KEY, which means a device system key.
CLEAR_FAILED_MATCH	CHAR(1)	'N'	No	Boolean, Y/N, indicating whether value will be cleared from the device if a parameter is present in the inform, but the test does not pass. In the case of a Map Type of attribute, the attribute will be removed from the device. For a system key, the system key value will be set to an empty string.
EC_SYSTEM_KEY_ID	NUMBER(9)	NULL	Yes	Foreign key to SPRT_EC_SYSTEM_KEY.ID, if the MAP_TYPE is SYSTEM_KEY.
EC_ATTR_DEF_GUID	VARCHAR2(36)	NULL	Yes	Foreign key to SPRT_EC_ATTR_DEF.GUID, if the MAP_TYPE is ATTRIBUTE.
ATTR_INDEX	NUMBER(5)	0	Yes	The index value used for arrays of complex attributes. For simple attributes, this value is 0.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
TRANSFORM_SCRIPT	CLOB(4000)		Yes	A JavaScript script which may contain a method used to transform the parameter value into the storage value, if a different format is required.
TRANSFORM_TEST_VALUE	NVARCHAR2(128)	NULL	Yes	The value that is used to test the validity of the TRANSFORM_SCRIPT.

Indexes

Name	Type	Columns
SPRT_SG_CWMPPARAM_MAP_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CWMPPARAM_MAP_FK3	EC_ATTR_DEF_GUID	SPRT_EC_ATTR_DEF	CASCADE
SPRT_SG_CWMPPARAM_MAP_FK1	EC_REALM_GUID	SPRT_EC_REALM	NO ACTION
SPRT_SG_CWMPPARAM_MAP_FK2	EC_SYSTEM_KEY_ID	SPRT_EC_SYSTEM_KEY	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_CWMPPARAM_VAL_FK1	SPRT_SG_CWMPPARAM_VAL	SG_CWMPPARAM_MAP_GUID	CASCADE

SPRT_SG_CWMPPARAM_VAL

This table holds the comparison values for parameter mappings. The comparison type, as defined in SPRT_SG_CWMP_PARAM, determines the number of entries that are in this table for each record in the SPRT_SG_CWMPPARAM_MAP table. If the comparison type is EQUALITY or REGULAR_EXPRESSION, there will only be a single record in this table. If the comparison type is RANGE, there will be two records in this table; one for each end of the range. Both of these values are included in the range. If the comparison type is LIST, there will be one record in this table for each item in the list.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_CWMPPARAM_MAP_GUID	VARCHAR2(36)	NULL	Yes	Foreign key to SPRT_SG_CWMPPARAM_MAP.GUID.
VALUE	NVARCHAR2(1333)	NULL	Yes	The value that is used by the comparison.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_CWMPPARAM_VAL_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CWMPPARAM_VAL_FK1	SG_CWMPPARAM_MAP_GUID	SPRT_SG_CWMPPARAM_MAP	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_CWMP_DATA_MODEL

This table holds the definitions for data models. Data models are associated with device capabilities.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_CAPABILITY_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_CAPABILITY.GUID.
NAME	NVARCHAR2(256)		No	Display name for the data model.
TYPE	NUMBER(1)		No	Numerical representation of the data model type. One of: (0) InternetGatewayDevice, (1) Device, or (2) Services.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
STATUS	VARCHAR2(32)	'VALID'	No	Status of the data model. One of: NONE, meaning there is no status. VALID, which means the data model can be used within the system. IMPORTING, which means the data model is currently being imported from a data model definition. REMOVING, meaning the data model is in the process of being removed from the system.

Indexes

Name	Type	Columns
SPRT_SG_CWMP_DATA_MODEL_IDX1	UNIQUE	NAME
SPRT_SG_CWMP_DATA_MODEL_IDX2	NORMAL	EC_CAPABILITY_GUID
SPRT_SG_CWMP_DATA_MODEL_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CWMP_DATA_MODEL_FK	EC_CAPABILITY_GUID	SPRT_EC_CAPABILITY	NO ACTION

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_CWMP_PARAM_FK2	SPRT_SG_CWMP_PARAM	SG_CWMP_DATA_MODEL_GUID	NO ACTION

SPRT_SG_CWMP_FILE_TYPE

This table contains the CWMP file type name that is used when sending a file to a device.

Field Name	Type	Default	Nullable	Description
ID	NUMBER(9)		No	Primary Key.
NAME	NVARCHAR2(256)		No	The string to send in the CWMP Download RPC when sending a file of the type referenced by FILE_TYPE.
FILE_TYPE	NUMBER(9)		No	The file type ID corresponding to SPRT_EC_FILE_TYPE.ID.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_CWMP_FILE_TYPE_IDX1	NORMAL	FILE_TYPE
SPRT_SG_CWMP_FILE_TYPE_PK	UNIQUE	ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CWMP_FILE_TYPE_FK1	FILE_TYPE	SPRT_EC_FILE_TYPE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_CWMP_ICACHE

This is the device index cache table. This maintains a cache of the indices of objects that the system has created or discovered. This cache is used by the CWMP Parameter Template plugin to determine if an object has already been created by the system, and to allow other templates to reference an object index by name before it has been created by the device. It will also record whether or not the system created the object, or if it already existed on the device.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_DEVICE_ID	NUMBER(9)		No	Foreign key to SPRT_EC_DEVICE.ID.
OBJ_NAME	VARCHAR2(400)		No	Full object name, up to but not including the index.
INDEX_VALUE	NUMBER(9)		No	The index for this object.
INDEX_NAME	NVARCHAR2(256)		Yes	An optional name for this index.
ADDED_BY_SG	CHAR(1)		No	Y if Service Gateway added this object, otherwise N.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.

Indexes

Name	Type	Columns
SPRT_SG_CWMP_ICACHE_IDX1	NORMAL	EC_DEVICE_ID
SPRT_SG_CWMP_ICACHE_PK	UNIQUE	GUID
SPRT_SG_CWMP_ICACHE_UK	UNIQUE	EC_DEVICE_ID, INDEX_NAME

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CWMP_ICACHE_FK	EC_DEVICE_ID	SPRT_EC_DEVICE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_CWMP_PARAM

This table maintains sets of objects and parameters for each data model.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
PARENT_GUID	VARCHAR2(36)	NULL	Yes	Reference to SPRT_SG_CWMP_PARAM.GUID. If not specified, this record is the parent node, otherwise this specifies the record which is the parent of this record.
SG_CWMP_DATA_MODEL_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_CWMP_DATA_MODEL.GUID.
NAME	NVARCHAR2(256)		No	Full parameter name.
DATA_TYPE	NUMBER(2)		No	The data type of the parameter. One of: (0) Object, (1) String, (2) Integer, (3) Unsigned Integer, (4) Boolean, (5) Date/Time, or (6) Base64 Binary
DATA_ACCESS	NUMBER(2)		No	The parameter access restrictions. One of: (0) No Access, (1) Read Only, (2) Write Only, (3) Read/Write, (5) Conditional Read Only, (6) Conditional Write Only, (7) Condition Read/Write, (9) Optional Read Only, (10) Optional Write Only, (11) Optional Read/Write, (15) Required Read Optional Write, (19) Required Read Conditional Write, or (23) Conditional Read Optional Write
MAXLENGTH	NUMBER(9)	NULL	Yes	Optionally specifies the maximum length of value for the parameter.
MINVAL	NUMBER(9)	NULL	Yes	Optionally specifies the minimum value for the parameter.
MAXVAL	NUMBER(9)	NULL	Yes	Optionally specifies the maximum value for the parameter.
DESCRIPTION	NVARCHAR2(1333)	NULL	Yes	Optional parameter description.
TRACKED	VARCHAR2(32)	'FALSE'	No	TRUE/FALSE indicating whether the parameter is being tracked.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_CWMP_PARAM_IDX1	UNIQUE	NAME, SG_CWMP_DATA_MODEL_GUID
SPRT_SG_CWMP_PARAM_IDX2	NORMAL	PARENT_GUID
SPRT_SG_CWMP_PARAM_IDX3	NORMAL	SG_CWMP_DATA_MODEL_GUID
SPRT_SG_CWMP_PARAM_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CWMP_PARAM_FK2	SG_CWMP_DATA_MODEL_GUID	SPRT_SG_CWMP_DATA_MODEL	NO ACTION
SPRT_SG_CWMP_PARAM_FK1	PARENT_GUID	SPRT_SG_CWMP_PARAM	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_CWMP_PARAM_FK1	SPRT_SG_CWMP_PARAM	PARENT_GUID	CASCADE

SPRT_SG_CWMP_PCACHE

This is the device parameter cache table which stores parameter values that are deemed important enough to keep record of in the database.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_DEVICE_ID	NUMBER(9)		No	Foreign key to SPRT_EC_DEVICE.ID.
PARAM_NAME	VARCHAR2(256)		No	Full parameter name.
PARAM_VALUE	NVARCHAR2(1333)		Yes	Parameter value.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.

Indexes

Name	Type	Columns
SPRT_SG_CWMP_PCACHE_IDX1	NORMAL	EC_DEVICE_ID
SPRT_SG_CWMP_PCACHE_PK	UNIQUE	GUID
SPRT_SG_CWMP_PCACHE_UK	UNIQUE	EC_DEVICE_ID, PARAM_NAME

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CWMP_PCACHE_FK	EC_DEVICE_ID	SPRT_EC_DEVICE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_CWMP_SNAPSHOT

This table, along with SPRT_SG_CWMP_SNAPSHOT_PARAM, holds snapshots of a subset for device parameters.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_DEVICE_ID	NUMBER(9)		No	Foreign key to SPRT_EC_DEVICE.ID.
DESCRIPTION	VARCHAR2(1024)	NULL	Yes	Optional description of the snapshot.
SNAPSHOT_DATE	DATE	SYSDATE	No	Date the configuration snapshot was taken.

Indexes

Name	Type	Columns
SPRT_SG_CWMP_SNAPSHOT_IDX1	NORMAL	EC_DEVICE_ID
SPRT_SG_CWMP_SNAPSHOT_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CWMP_SNAPSHOT_FK1	EC_DEVICE_ID	SPRT_EC_DEVICE	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_CWMP_SNAPSHOT_PRM_FK1	SPRT_SG_CWMP_SNAPSHOT_PARAM	SG_CWMP_SNAPSHOT_GUID	CASCADE

SPRT_SG_CWMP_SNAPSHOT_PARAM

This table, along with SPRT_SG_CWMP_SNAPSHOT, holds snapshots of a subset for device parameters.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.

Field Name	Type	Default	Nullable	Description
SG_CWMP_SNAPSHOT_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_CWMP_SNAPSHOT.GUID.
PARAM_NAME	VARCHAR2(768)		No	Full parameter name.
PARAM_VALUE	NVARCHAR2(1333)		Yes	Parameter value.

Indexes

Name	Type	Columns
SPRT_SG_CWMP_SNAPSHOT_PARAM_PK	UNIQUE	GUID
SPRT_SG_CWMP_SNAPSHOT_PAR_IDX1	NORMAL	SG_CWMP_SNAPSHOT_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_CWMP_SNAPSHOT_PRM_FK1	SG_CWMP_SNAPSHOT_GUID	SPRT_SG_CWMP_SNAPSHOT	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_DBOR_CONFCODE

This table holds a piece of compiled configuration for a specific device. The compiled configuration could be either "apply" or "undo" configuration. Once configuration has been delivered to a device, it is removed from the database to conserve space, and only a hashcode of the content remains in this table. In the case of undo templates, the compiled configuration may persist indefinitely, for the case where a service is removed from a device and the configuration that was the reciprocal of the apply configuration needs to be delivered.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_DBOR_TC_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_DBOR_TC.GUID.
CONFCODE	BLOB(4000)	NULL	Yes	Plugin specific compiled configuration.
HASHCODE	VARCHAR2(32)	NULL	Yes	An MD5 hash of the confcode (which persists even after the confcode has been set to NULL).
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_DBOR_CONFCODE_IDX1	NORMAL	SG_DBOR_TC_GUID
SPRT_SG_DBOR_CONFCODE_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_DBOR_CONFCODE_FK1	SG_DBOR_TC_GUID	SPRT_SG_DBOR_TC	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_DBOR_TC_FK6	SPRT_SG_DBOR_TC	UNDO_DBOR_CONF_GUID	NO ACTION
SPRT_SG_DBOR_TC_FK5	SPRT_SG_DBOR_TC	APPLY_DBOR_CONF_GUID	NO ACTION

SPRT_SG_DBOR_TC

The Database of Record table maintains the list of templates currently applied to the device, or are in the process of being applied or removed.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_DEVICE_ID	NUMBER(9)		No	Foreign Key to SPRT_EC_DEVICE.ID.
SG_TC_GUID	VARCHAR2(36)		No	The technical configuration record on which this DBoR item is based.
STATUS	VARCHAR2(32)		No	Enum indicating status of this piece of configuration in relation to this device. One of: ACTIVE, UNDO_PENDING, APPLY_PENDING, UNDO_IN_PROGRESS, APPLY_IN_PROGRESS
APPLY_ORDINAL	NUMBER(9)	NULL	Yes	The order in which any APPLY_PENDING actions should be undone.
REPLACE_DBOR_TC_GUID	VARCHAR2(36)	NULL	Yes	The GUID of another item in the DBoR that this item is intended to replace.
DRIVER	VARCHAR2(32)		No	Indication why a template was set. One of: SERVICE, DEVICE, OTHER.

Field Name	Type	Default	Nullable	Description
SG_SERVICE_CONF_GUID	VARCHAR2(36)	NULL	Yes	If this entry is driven by a service, this is a reference to the service.
APPLY_DBOR_CONF_GUID	VARCHAR2(36)	NULL	Yes	A pointer to the compiled apply configuration for this entry.
UNDO_DBOR_CONF_GUID	VARCHAR2(36)	NULL	Yes	A pointer to the compiled undo configuration for this entry.
DELIVERED_DATE	DATE	NULL	Yes	Date the configuration was delivered.
STATUS_DATE	DATE	NULL	Yes	Date the status field was last updated.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
APPLY_GROUP	NVARCHAR2(64)	NULL	Yes	If the template supports combing multiple instances of itself into one execution, the execution group for applying the config is specfied here.
UNDO_GROUP	NVARCHAR2(64)	NULL	Yes	If the template supports combing multiple instances of itself into one execution, the execution group for undoing the config is specfied here.
REBOOT_TYPE	VARCHAR2(32)	'NONE'	Yes	One of: AFTER_TECH_CONFIG, NONE.

Indexes

Name	Type	Columns
SPRT_SG_DBOR_TC_IDX1	NORMAL	EC_DEVICE_ID
SPRT_SG_DBOR_TC_IDX2	NORMAL	SG_TC_GUID
SPRT_SG_DBOR_TC_IDX3	NORMAL	REPLACE_DBOR_TC_GUID
SPRT_SG_DBOR_TC_IDX4	NORMAL	SG_SERVICE_CONF_GUID
SPRT_SG_DBOR_TC_IDX5	NORMAL	APPLY_DBOR_CONF_GUID
SPRT_SG_DBOR_TC_IDX6	NORMAL	UNDO_DBOR_CONF_GUID
SPRT_SG_DBOR_TC_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_DBOR_TC_FK1	EC_DEVICE_ID	SPRT_EC_DEVICE	CASCADE
SPRT_SG_DBOR_TC_FK6	UNDO_DBOR_CONF_GUID	SPRT_SG_DBOR_CONFCODE	NO ACTION
SPRT_SG_DBOR_TC_FK5	APPLY_DBOR_CONF_GUID	SPRT_SG_DBOR_CONFCODE	NO ACTION
SPRT_SG_DBOR_TC_FK3	REPLACE_DBOR_TC_GUID	SPRT_SG_DBOR_TC	SET NULL
SPRT_SG_DBOR_TC_FK4	SG_SERVICE_CONF_GUID	SPRT_SG_SERVICE_CONF	NO ACTION
SPRT_SG_DBOR_TC_FK2	SG_TC_GUID	SPRT_SG_TC	NO ACTION

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_DBOR_TC_FK3	SPRT_SG_DBOR_TC	REPLACE_DBOR_TC_GUID	SET NULL
SPRT_SG_DBOR_CONFCODE_FK1	SPRT_SG_DBOR_CONFCODE	SG_DBOR_TC_GUID	CASCADE

SPRT_SG_DEVICE_TC

This table holds the templates associated directly to a device. These are sometimes referred to as "overrides" since they alter the set of configuration dictated by the service configuration, even if they don't always override a piece of configuration. There are three types of such "overrides": PREPEND and APPEND will cause the configuration item to be applied before or after the service configuration, respectively. REPLACE will cause the specific item of configuration supplied by the service configuration to be replaced with a new item. If the item to be replaced would not be delivered, the replacement item will not be delivered either. If there are multiple instances of the technical configuration to be replaced, they are all replaced. An ordinal may be specified to provide a delivery order within the confines of the override type.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_DEVICE_ID	NUMBER(9)		No	The device this configuration applies to.
ORDINAL	NUMBER(9)		No	Specifies the order in which the items are prepended or appended to service configuration.
OVERRIDE_TC_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_TC.GUID, specifying the template to associate with the device.
OVERRIDE_TYPE	VARCHAR2(32)		No	One of: REPLACE, PREPEND, APPEND.

Field Name	Type	Default	Nullable	Description
REPLACE_TC_GUID	VARCHAR2(36)	NULL	Yes	Foreign key to SPRT_SG_TC.GUID. If this template exists in the service configuration, it will be replaced by the one specified by OVERRIDE_TC_GUID.
DELIVERY_RULE	VARCHAR2(32)		No	One of: ONCE, ALWAYS, ON_CHANGE.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_DEVICE_TC_IDX1	NORMAL	EC_DEVICE_ID
SPRT_SG_DEVICE_TC_IDX2	NORMAL	OVERRIDE_TC_GUID
SPRT_SG_DEVICE_TC_IDX3	NORMAL	REPLACE_TC_GUID
SPRT_SG_DEVICE_TC_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_DEVICE_TC_FK1	EC_DEVICE_ID	SPRT_EC_DEVICE	CASCADE
SPRT_SG_DEVICE_TC_FK3	REPLACE_TC_GUID	SPRT_SG_TC	NO ACTION
SPRT_SG_DEVICE_TC_FK2	OVERRIDE_TC_GUID	SPRT_SG_TC	NO ACTION

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_DM_DEF

This table holds the Data Model Definitions that have been uploaded.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
DEFNAME	NVARCHAR2(256)		No	The name of the definition.

Field Name	Type	Default	Nullable	Description
DESCRIPTION	NVARCHAR2(1333)	NULL	Yes	An optional description of the definition.
SPEC	NVARCHAR2(256)		No	The spec identifier of the definition.
STATUS	VARCHAR2(32)		No	This column is not currently used, and should always contain the value NEW.
XMLDATA	NCLOB(4000)	NULL	Yes	The XML content of the definition.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_DM_DEF_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_EXPRESSION

This table defines each expression of the condition.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_CONDITION_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_CONDITION.GUID.
ORDINAL	NUMBER(9)		No	The order that this expression falls within the condition.
PAREN_OPEN	VARCHAR2(32)		Yes	Specifies the number of open parentheses and negation operators that precede the expression.
PAREN_CLOSE	NUMBER(9)		Yes	Specifies the number of closing parentheses for this expression. This is used to control precedence order within the condition, and represents the number of closing parentheses for this condition.

Field Name	Type	Default	Nullable	Description
NEXT_EXPRESSION_OPERATOR	VARCHAR2(32)		Yes	Specifies the logical operator to use when evaluating the next expression in the list, if any. If this field is specified, but there aren't any more expressions following this one (i.e. with a higher ordinal value), the operator is ignored.
CONDITION_TYPE	VARCHAR2(32)		No	Specifies the manner in which this expression is interpreted and evaluated. Valid values are: GUID, ATTRIBUTE, PROPERTY, SYSTEM_KEY.
OBJECT_TYPE	VARCHAR2(32)		No	Specifies the object that this expression applies to. Valid values are: HARDWARE, FIRMWARE, CAPABILITY, ADMINISTRATIVE_DOMAIN, SERVICE, DEVICE, SUBSCRIBER.
OBJECT_ATTRIBUTE	VARCHAR2(36)		Yes	Holds the GUID for the specified attribute on the specified OBJECT_TYPE. This field is only valid if the CONDITION_TYPE is set to ATTRIBUTE, AND if the specified OBJECT_TYPE supports attributes (HARDWARE, FIRMWARE, ADMINISTRATIVE_DOMAIN, SERVICE, DEVICE, SUBSCRIBER).
OBJECT_PROPERTY	VARCHAR2(64)		Yes	The name of the column for the specified OBJECT_TYPE. This field is only valid if the CONDITION_TYPE is set to PROPERTY.
OPERAND	VARCHAR2(32)		No	This is the logical operand that is used for evaluating this expression. Only the equality operand is currently supported. Valid value is EQUALS.
VALUE	VARCHAR2(1024)		Yes	Specifies the value that the expression will be evaluated against. This field will hold the object GUID if the CONDITION_TYPE is 0. Note that no foreign key definition is used on this column as it needs to reference several different types of objects. The enCore notification engine will have to be used by the objects referenced by the OBJECT_TYPE column to ensure that the parent objects are not deleted if an expression references them.
IS_MASK	VARCHAR2(32)		No	Specifies whether the value for this expression is an exact value or a mask that includes a trailing wildcard. Valid values are: FALSE, TRUE.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
OBJECT_ATTRIBUTE_MATCH	VARCHAR2(32)	'NONE'	Yes	For complex attributes, this specifies which index values are compared and what constitutes a match. ANY: if any attribute in the array matches, the expression evaluates as true. ALL: only if every attribute in the array matches, will the expression evaluate as true. SPECIFIC: only if a specific index value matches, as specified by OBJECT_ATTRIBUTE_INDEX, will the expression evaluate as true. NONE is the default value used for simple attributes and other condition types.
OBJECT_ATTRIBUTE_INDEX	NUMBER(9)	0	No	The specific index of a complex attribute to test when OBJECT_ATTRIBUTE_MATCH is set to SPECIFIC.

Indexes

Name	Type	Columns
SPRT_SG_EXPRESSION_IDX1	NORMAL	SG_CONDITION_GUID
SPRT_SG_EXPRESSION_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_EXPRESSION_FK1	SG_CONDITION_GUID	SPRT_SG_CONDITION	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_POLICY

This table defines a Service Gateway Policy, which is used to execute workflow in the context of a device. Note that while the primary purpose of the policy is to execute workflow in the context of a device, the deactivation action and the completion workflow do not, and can not, execute in the context of a device, as the context of a device is not applicable in those instances.

Note that only timer-driven policies (or policies that are both timer and event-driven) will execute completion actions. For policies that process devices ONCE_ONLY, the completion actions will be executed once all devices have been attempted, regardless of the result. For policies that process devices ONCE_PER_PERIOD, the completion actions will be executed at the end of each period.

With regards to ONCE_PER_PERIOD policies, there is no concept of a carry over from one period to another if not all devices get processed (or attempted) within that period. For instance, if some of the devices still have a status of UNATTEMPTED at the end of the period, regardless of the reason, they do not get priority during the next period.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
REALM_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_REALM.GUID. Specifies the realm this policy operates within.
NAME	NVARCHAR2(192)		No	The name of the policy.
DESCRIPTION	NVARCHAR2(768)		Yes	An optional description of the policy.
ADMINISTRATIVE_STATUS	VARCHAR2(32)		No	Indicates whether the policy is enabled or disabled. Valid options are: ENABLED, DISABLED.

Field Name	Type	Default	Nullable	Description
STATUS	VARCHAR2(32)		No	Current state of the policy. Valid options are: INCOMPLETE, CONFIGURED, BUILDING_FROM_CONFIGURED, BUILDING_FROM_CONFIGURED_FAILED, PENDING, BUILDING_FROM_PENDING, BUILDING_FROM_PENDING_FAILED, APPROVED, BUILDING_FROM_APPROVED, BUILDING_FROM_APPROVED_FAILED, ACTIVE, DEACTIVATED, BUILDING_FROM_ACTIVE, BUILDING_FROM_ACTIVE_FAILED, GOING_TO_STOPPED, BUILDING_FROM_STOPPED, BUILDING_FROM_STOPPED_FAILED, STOPPED, COMPLETED.
PRECEDENCE	NUMBER(9)		No	Used as a tie breaker if multiple policies match the filter conditions for a given device. Note that this field is used to determine precedence for event-driven policies, not timer-driven workflows. A lower value means higher precedence.
POLICY_TRIGGER	VARCHAR2(32)		No	Indicates how the policy can be triggered. Valid options are: EVENT_DRIVEN, TIMER_DRIVEN, EVENT_AND_TIMER_DRIVEN.
DEVICE_PROCESSING_POLICY	VARCHAR2(32)		No	Indicates the frequency with which the policy should process a given device. Valid options are: ONCE_PER_EVENT, ONCE_PER_TIME_PERIOD. Note that the ONCE_PER_TIME_PERIOD option refers to how frequently the device will be processed for each DEVICE_PROCESSION_PERIOD, regardless of whether the policy was trigger by an event or by the timer. For the ONCE_PER_TIME_PERIOD to have an effect, the active time for the policy (both event and timer) has to extend beyond a single DEVICE_PROCESSING_PERIOD.
DEVICE_PROCESSING_PERIOD	VARCHAR2(32)		Yes	Specifies the period for processing a device when a ONCE_PER_TIME_PERIOD DEVICE_PROCESSING_POLICY is specified. Valid options are: MONTHLY, WEEKLY, DAILY, HOURLY
EVENT_HOOK_BITMASK	NUMBER(9)		Yes	Specifies the event hook that can trigger this policy. This is implemented as a bitmask, although the system only currently supports one hook being set per policy. Valid bitmask values are: 0 - None 1 - BOOTSTRAP 2 - ACTIVATION 4 - PRE_UPGRADE 8 - POST_UPGRADE 16 - CONFIGURATION 32 - VALUE_CHANGE 64 - PERIODIC 128 - SCHEDULED 256 - WEB_IDENTITY 512 - DOWNLOAD_REQUEST
EVENT_CONCURRENCY_LIMIT	NUMBER(9)		Yes	The maximum number of devices that can be acted upon simultaneously in response to events.

Field Name	Type	Default	Nullable	Description
CONCURRENCY_LIMIT_ACTION	VARCHAR2(32)		Yes	The action to take if the EVENT_CONCURRENCY_LIMIT is reached. Valid options are: IGNORE - the event will be discarded. QUEUE_INDEFINITELY - the event will be queued in the device hold table until it is processed. QUEUE_WITH_DURATION - the event will be queued in the device hold table until it is processed, or until the CONCURRENCY_LIMIT_WINDOW is reached.
CONCURRENCY_LIMIT_WINDOW	NUMBER(9)		Yes	The amount of time in minutes to queue an event when the CONCURRENCY_LIMIT_ACTION is set to QUEUE_WITH_DURATION.
SKIPPED_DEVICE_POLICY	VARCHAR2(32)		Yes	For policies with a POLICY_TRIGGER of EVENT_AND_TIMER_DRIVEN, indicates whether to trigger the workflow on the device if the device has already been attempted due to the timer and was skipped. Valid options are: PROCESS_SKIPPED_DEVICE_ONLY PROCESS_ALL_DEVICES
TIMER_ACTIVE_DAYS	NUMBER(9)		Yes	A bitmask field that indicates which days of the week that a policy can be active triggered by the timer. Valid values are: 0 - None 1 - SUNDAY 2 - MONDAY 4 - TUESDAY 8 - WEDNESDAY 16 - THURSDAY 32 - FRIDAY 64 - SATURDAY
TIMER_ACTIVE_START_TIME	NUMBER(9)		Yes	The start time that the policy can be triggered by the timer. This column signifies the start of the maintenance window. It stores the number of minutes since midnight. The minimum value for this column is 0, which is midnight.
TIMER_ACTIVE_DURATION	NUMBER(9)		Yes	The length of a maintenance window, in minutes.
TARGET_DEV_LIST_STATUS	NUMBER(9)		Yes	The status values to match when basing the device list on a previous policy run. Bitmask of: (1) Unattempted, (2) Succeeded, (4) Failed, (8) Skipped, and (16) In Progress
TARGET_DEV_LIST_REFERENCE_GUID	VARCHAR2(36)		Yes	References SPRT_SG_POLICY.GUID, specifying the GUID of the policy to base the device list on, when generating the policy device list from a previous policy run.
DEVICES_PER_LAUNCH	NUMBER(9)		Yes	The maximum number of devices to launch per policy each time the executePolicies timer job is invoked.
LAUNCH_THREADS	NUMBER(9)	1	Yes	The number of threads used when launching a list of devices of a scheduled policy.

Field Name	Type	Default	Nullable	Description
TIMER_CONCURRENCY_LIMIT	NUMBER(9)		Yes	The maximum number of devices that can be acted upon simultaneously triggered by a timer.
EC_JOB_ID	NUMBER(9)		Yes	This field is not currently used.
FILTER_EVALUATION_PERIOD	VARCHAR2(32)		Yes	This specifies the frequency at which filters (if any) are re-evaluated and the policy device list is updated. Valid options are: NEVER, ONCE_PER_PERIOD, ONCE_PER_ACTIVE_WINDOW. If set to either ONCE_PER_PERIOD or ONCE_PER_ACTIVE_WINDOW, the device list will be rebuilt prior to any devices are processed for either the period or the timer active window, respectively. Note that if the active window runs all day on two consecutive days, that will still be treated as two separate active windows, so there can be a maximum of seven active windows per week.
FAILURE_THRESHOLD_STATE	VARCHAR2(32)		No	Indicates whether the Deactivation Threshold is enabled. Valid options are: ENABLED, DISABLED.
FAILURE_THRESHOLD_COUNT	NUMBER(9)		Yes	Specifies the total number of devices that can fail (within the FAILURE_THRESHOLD_WINDOW) before a policy will be automatically deactivated. The number of failed devices must be exceeded (not equalled) before the policy is deactivated.
FAILURE_THRESHOLD_WINDOW	NUMBER(9)		Yes	Defines the length of the rolling window, in minutes, for which the failure threshold count is calculated. The fact that this is a rolling window is important because any failures that occurred outside that rolling window are not taken into consideration when determining if the failure threshold has been exceeded.
SG_CONDITION_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_SG_CONDITION.GUID, which holds the filter condition definition for this policy.
EVENT_ACTIVE_DAYS	NUMBER(9)		Yes	A bitmask field that indicates which days of the week that a policy can be active for event triggers. Valid values are: 0 - None 1 - SUNDAY 2 - MONDAY 4 - TUESDAY 8 - WEDNESDAY 16 - THURSDAY 32 - FRIDAY 64 - SATURDAY
EVENT_ACTIVE_START_TIME	NUMBER(9)		Yes	The start time that the policy can be active for event triggers. It stores the number of minutes since midnight. The minimum value for this column is 0, which is midnight.
EVENT_ACTIVE_DURATION	NUMBER(9)		Yes	The length of time the policy is active, past the start time, for event triggered policies.

Field Name	Type	Default	Nullable	Description
DEVICE_LIST_TYPE	VARCHAR2(32)		Yes	Enum that defines how the device list for a timer-driven policy is created. Valid options are: UNDEFINED, FILTERS, CSV.
DEVICE_LIST_KEY_TYPE	VARCHAR2(32)		Yes	Enum that defines the type of key that is used in the CSV_CONTENTS for building the device list. Valid options are: SUBSCRIBER_ACCOUNT_NUMBER, COMPANY_NAME, PHONE_NUMBER, MAC_ADDRESS, SERIAL_NUMBER, UNIQUE_ID_STRING, CUSTOM_SYSTEM_KEY.
CSV_CONTENTS	NCLOB(4000)		Yes	The contents of any CSV-provided device list.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
CONCURRENCY_LIMIT_ACTION_WF	VARCHAR2(32)		Yes	Workflow Action to follow if concurrency limit has been reached and event is going to be discarded. Either STOP_PASS or STOP_FAIL.
DEV_LIST_GEN_START_TIME	DATE	NULL	Yes	Date upon start of device list generation.
DEV_LIST_GEN_END_TIME	DATE	NULL	Yes	Date upon end of device list generation.
SKIPPED_DELAY_TIME	NUMBER(9)	3600	Yes	The minimum number of seconds that must elapse before a skipped device is reattempted.

Indexes

Name	Type	Columns
SPRT_SG_POLICY_IDX1	NORMAL	REALM_GUID
SPRT_SG_POLICY_IDX2	NORMAL	EC_JOB_ID
SPRT_SG_POLICY_IDX3	NORMAL	SG_CONDITION_GUID
SPRT_SG_POLICY_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_POLICY_FK2	EC_JOB_ID	SPRT_EC_JOB	NO ACTION
SPRT_SG_POLICY_FK1	REALM_GUID	SPRT_EC_REALM	NO ACTION
SPRT_SG_POLICY_FK3	SG_CONDITION_GUID	SPRT_SG_CONDITION	NO ACTION

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_POLICY_INVALID_DEV_FK1	SPRT_SG_POLICY_INVALID_DEVICE	SG_POLICY_GUID	CASCADE
SPRT_SG_POL_EXEC_HIST_FK1	SPRT_SG_POLICY_EXEC_HISTORY	SG_POLICY_GUID	CASCADE
SPRT_SG_POLICY_DEV_HOLD_FK1	SPRT_SG_POLICY_DEVICE_HOLD	SG_POLICY_GUID	CASCADE
SPRT_SG_POLICY_DEVICE_FK1	SPRT_SG_POLICY_DEVICE	SG_POLICY_GUID	CASCADE
SPRT_SG_POLICY_ACTION_FK1	SPRT_SG_POLICY_ACTION	SG_POLICY_GUID	CASCADE

SPRT_SG_POLICY_ACTION

This table maps the policy action instances that are included in a policy. Any action, whether it requires a device context or not, can be included. All actions, whether workflow, workflow failure, deactivation, or completion, are held in this table.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
SG_POLICY_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_POLICY.GUID. The policy that the action is associate with.
SG_ACTION_CONF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACTION_CONF.GUID, linking this plugin specific configuration to the action in the workflow.
NAME	NVARCHAR2(256)		No	The name of the action. This is copied from the SPRT_SG_ACTION table so that it is retained for historical purposes in case the actual action is removed from the system.
NAME_TOKEN	NVARCHAR2(256)		Yes	The token that is used by the UI for internationalization for the name field. This is copied from the SPRT_SG_ACTION table so that it is retained for historical purposes in case the actual action is removed from the system.
ORDINAL	NUMBER(5)		No	The order of this action within the workflow for this policy.
TYPE	VARCHAR2(32)		No	Enum for WORKFLOW, WORKFLOW_FAILURE, DEACTIVATION, or COMPLETION.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.

Field Name	Type	Default	Nullable	Description
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
SG_CONDITION_GUID	VARCHAR2(36)		Yes	A reference to optional conditions that must evaluate to TRUE in order for this action to be executed.
TIMEOUT	NUMBER(9)	0	No	The time between retries of this action, if it fails.
RETRIES	NUMBER(9)	0	No	The number of retries after the initial attempt.

Indexes

Name	Type	Columns
SPRT_SG_POLICY_ACTION_IDX1	NORMAL	SG_POLICY_GUID
SPRT_SG_POLICY_ACTION_IDX2	NORMAL	SG_CONDITION_GUID
SPRT_SG_POLICY_ACTION_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_POLICY_ACTION_FK2	SG_CONDITION_GUID	SPRT_SG_CONDITION	NO ACTION
SPRT_SG_POLICY_ACTION_FK1	SG_POLICY_GUID	SPRT_SG_POLICY	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_POLICY_ACTION_WF_FK1	SPRT_SG_POLICY_ACTION_WF	SG_POLICY_ACTION_GUID	CASCADE
SPRT_SG_ACT_SMM_CONTEXT_FK2	SPRT_SG_ACT_SMM_CONTEXT	SG_POLICY_ACTION_GUID	CASCADE
SPRT_SG_ACT_RESTORE_CXT_FK2	SPRT_SG_ACT_RESTORE_CXT	SG_POLICY_ACTION_GUID	NO ACTION
SPRT_SG_ACT_FW_CONTEXT_FK2	SPRT_SG_ACT_FW_CONTEXT	SG_POLICY_ACTION_GUID	CASCADE
SPRT_SG_ACT_BACKUP_CXT_FK2	SPRT_SG_ACT_BACKUP_CXT	SG_POLICY_ACTION_GUID	NO ACTION

SPRT_SG_POLICY_ACTION_HISTORY

This table holds policy execution history for each action that is executed in the context of a device. This includes the workflow failure action.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
SG_POLICY_ACTION_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_SG_POLICY_ACTION.GUID. A DELETE SET NULL rule is used on this relationship to set this field to NULL if the policy action record is deleted. We do not delete this record, as we want to retain historical data until the policy itself is removed.
SG_POLICY_EXEC_HISTORY_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_SG_POLICY_EXEC_HISTORY.GUID.
SG_POLICY_DEV_HISTORY_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_SG_POLICY_DEVICE_HISTORY.GUID.
ACTION_NAME	NVARCHAR2(256)		No	The name of the action, copied from the SPRT_SG_ACTION table. It is copied to ensure historical data in case the action is deleted.
ACTION_NAME_TOKEN	NVARCHAR2(256)		Yes	The name token for the action, copied from the SPRT_SG_ACTION table. It is copied to ensure historical data in case the action is deleted.
ACTION_EXEC_START_TIME	DATE		Yes	The time that the action execution was initiated in the context of the device.
ACTION_EXEC_END_TIME	DATE		Yes	The time that the action result was received by the workflow.
ACTION_TRIGGER	VARCHAR2(32)		No	The method used to trigger this action: MANUAL_TRIGGER, TIMER_TRIGGER, or EVENT_TRIGGER.
RESULT_CODE	NUMBER(9)		Yes	The result code returned by the action.
WORKFLOW	VARCHAR2(32)		Yes	The workflow decision made based on the result code and configuration. One of CONTINUE, STOP_FAIL, STOP_PASS, STOP_SKIP.
MESSAGE	VARCHAR2(1024)		Yes	The message returned by the action, if any.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Field Name	Type	Default	Nullable	Description
ORDINAL	NUMBER(5)		No	The order of the action in the workflow.
IN_PROGRESS	CHAR(1)	'N'	No	If 'Y', then this action is still in progress.
RETRY	NUMBER(9)	0	No	The retry counter, which is initially set to the maximum retry count, and decremented by one for each subsequent retry, until either this count reached 0, or a result code that does not cause a retry is returned.

Indexes

Name	Type	Columns
SPRT_SG_POLICY_ACT_HIST_IDX1	NORMAL	SG_POLICY_EXEC_HISTORY_GUID, ACTION_EXEC_START_TIME
SPRT_SG_POLICY_ACT_HIST_IDX2	NORMAL	SG_POLICY_DEV_HISTORY_GUID
SPRT_SG_POLICY_ACT_HIST_IDX3	NORMAL	SG_POLICY_EXEC_HISTORY_GUID
SPRT_SG_POLICY_ACT_HIST_IDX4	NORMAL	ACTION_EXEC_START_TIME
SPRT_SG_POLICY_ACT_HIST_IDX5	FUNCTION-BASED	IN_PROGRESS, TO_CHAR("ACTION_EXEC_START_TIME", 'YYYY-MM-DD HH24:MI:SS')
SPRT_SG_POL_ACT_HIST_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_POLICY_ACTION_WF

This table defines the workflow for each policy action instance that is included in a policy. Initially this will map to the values stored in SPRT_SG_ACTION_RESULT, but can be modified on a per-action instance basis.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
SG_POLICY_ACTION_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_POLICY_ACTION.GUID.

Field Name	Type	Default	Nullable	Description
NAME	NVARCHAR2(256)		No	The name of the action. This is copied from the SPRT_SG_ACTION_RESULT table so that it is retained for historical purposes in case the actual action is removed from the system.
NAME_TOKEN	NVARCHAR2(256)		Yes	The token that is used by the UI for internationalization for the name field. This is copied from the SPRT_SG_ACTION table so that it is retained for historical purposes in case the actual action is removed from the system.
RESULT_CODE	VARCHAR2(32)		No	Result code from the action. This will be an Enum. Values to be defined during implementation.
DEFAULT_WORKFLOW	VARCHAR2(32)		No	CONTINUE, STOP_SKIP, STOP_PASS, and STOP_FAIL.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
RETRY	CHAR(1)	'N'	No	If 'Y', this action result will invoke the retry mechanism configured for the policy action instance.

Indexes

Name	Type	Columns
SPRT_SG_POLICY_ACTION_WF_IDX1	NORMAL	SG_POLICY_ACTION_GUID
SPRT_SG_POLICY_ACTION_WF_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_POLICY_ACTION_WF_FK1	SG_POLICY_ACTION_GUID	SPRT_SG_POLICY_ACTION	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_POLICY_DEVICE

This table maintains devices currently being executed by a policy.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
SG_POLICY_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_POLICY.GUID.
EC_DEVICE_ID	NUMBER(9)		No	Reference to SPRT_EC_DEVICE.ID.
ADD_METHOD	VARCHAR2(32)		No	Method in which the device was added to the policy execution. One of: FILTERS, meaning it was added via conditions, CSV, meaning device was added by parsing a specified device list, QUEUED, meaning it was added by the device event exceeded the maximum concurrency and was queued, or HISTORY, meaning it was added by building the device list via another process policy device list.
CALLER_ID	VARCHAR2(36)		Yes	The trigger of the device, when the device is queued from exceeding policy concurrency limits.
STATUS	VARCHAR2(32)		No	Device status within the policy. Value is always IN_PROGRESS.
EXECUTION_START_TIME	DATE		Yes	Date which the policy execution for this device started.
EXECUTION_END_TIME	DATE		Yes	Date which the policy execution for this devices ended.
EXECUTION_TRIGGER	VARCHAR2(32)		No	What triggered the execution of the device. One of: MANUAL, meaning the policy was started manually, SCHEDULED, meaning the policy started based on the configured schedule, EVENT, meaning a device event triggered the policy execution, or NEVER, meaning the device has been added to be executed but execution has not yet started.
EVENT_DETAIL	CLOB(4000)		Yes	A copy of the inform event that triggered the policy, if applicable.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
SG_ACTION_CONF_GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Foreign key to SPRT_SG_ACTION_CONF.GUID, linking this plugin specific configuration to the action in the workflow.
SG_POLICY_EXEC_HISTORY_GUID	VARCHAR2(36)	NULL	Yes	Reference to SPRT_SG_POLICY_EXEC_HISTORY.GUID.
SG_POLICY_DEV_HISTORY_GUID	VARCHAR2(36)	NULL	Yes	Reference to SPRT_SG_POLICY_DEVICE_HISTORY.GUID.

Field Name	Type	Default	Nullable	Description
SG_POLICY_ACT_HISTORY_GUID	VARCHAR2(36)	NULL	Yes	Reference to SPRT_SG_POLICY_ACTION_HISTORY.GUID.
INVOCATION_ID	VARCHAR2(36)	'None'	No	Unique identifier used to track, through logging, the device through policy execution.
RETRY	CHAR(1)	'N'	No	Boolean, Y/N, indicating whether the execution is a retry.
RETRY_COUNTER	NUMBER(9)	0	No	Counter of the number of retries that have occurred for this execution.
RETRY_TIME	DATE	SYSDATE	No	Date of the last attempt to execute the device.
STATUS_TIMESTAMP	DATE	SYSDATE	No	The date and time that STATUS was most recently changed.

Indexes

Name	Type	Columns
SPRT_SG_POLICY_DEVICE_IDX1	NORMAL	SG_POLICY_GUID, STATUS
SPRT_SG_POLICY_DEVICE_IDX2	UNIQUE	EC_DEVICE_ID
SPRT_SG_POLICY_DEVICE_IDX3	NORMAL	SG_POLICY_GUID
SPRT_SG_POLICY_DEVICE_IDX5	NORMAL	CREATED
SPRT_SG_POLICY_DEVICE_IDX6	NORMAL	SG_POLICY_GUID, STATUS, EC_DEVICE_ID
SPRT_SG_POLICY_DEVICE_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_POLICY_DEVICE_FK1	SG_POLICY_GUID	SPRT_SG_POLICY	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_POLICY_DEVICE_HISTORY

This table holds policy execution history for each device processed by a policy. If the policy device processing type is either ONCE_ONLY or ONCE_PER_PERIOD, there will only be one record for each device in this table for each record in the SPRT_SG_POLICY_EXEC_HISTORY table. If the policy device processing type is ONCE_PER_EVENT, this table could contain multiple records for a given device for a single record in the SPRT_SG_POLICY_EXEC_HISTORY table.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
SG_POLICY_EXEC_HISTORY_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_POLICY_EXEC_HISTORY.GUID.
SG_POLICY_DEVICE_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_SG_POLICY_DEVICE.GUID.
UNIQUE_ID_STRING	NVARCHAR2(128)		No	The unique ID string of the device that was processed during this policy execution segment. This is not a foreign key relationship to the ENCORE_DEVICE table, as we want to retain this information for historical purposes if the actual device is deleted from inventory.
IP_ADDRESS	VARCHAR2(39)		Yes	The IP address of this device at the time of the device execution. This value is copied in as we want to retain this information for historical purposes if the actual device is deleted from inventory.
EXECUTION_START_TIME	DATE		Yes	The date and time that the device started execution of the first action.
EXECUTION_END_TIME	DATE		Yes	The date and time that the device finished execution. This represents the time that the last action result that was executed in the context of this device, and will be updated after each action is executed.
EXECUTION_TRIGGER	VARCHAR2(32)		Yes	One of: MANUAL_TRIGGER, TIMER_TRIGGER, EVENT_TRIGGER.
STATUS	VARCHAR2(32)		No	One of: FAILED, IN_PROGRESS, SKIPPED, SUCCEEDED, UNATTEMPTED.
MESSAGE	VARCHAR2(1024)		Yes	An optional message used to store the failure reason for the device if the policy action fails.
EVENT_DETAIL	CLOB(4000)		Yes	A copy of the inform event that triggered the policy, if applicable.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_POLICY_DEV_HIST_IDX1	NORMAL	SG_POLICY_EXEC_HISTORY_GUID, CREATED
SPRT_SG_POLICY_DEV_HIST_IDX2	NORMAL	SG_POLICY_EXEC_HISTORY_GUID, UNIQUE_ID_STRING
SPRT_SG_POLICY_DEV_HIST_IDX3	NORMAL	SG_POLICY_EXEC_HISTORY_GUID, EXECUTION_END_TIME
SPRT_SG_POLICY_DEV_HIST_IDX4	NORMAL	SG_POLICY_EXEC_HISTORY_GUID
SPRT_SG_POLICY_DEV_HIST_IDX5	NORMAL	SG_POLICY_DEVICE_GUID
SPRT_SG_POLICY_DEV_HIST_IDX6	NORMAL	STATUS
SPRT_SG_POLICY_DEV_HIST_IDX7	NORMAL	EXECUTION_END_TIME
SPRT_SG_POLICY_DEV_HIST_IDX8	NORMAL	SG_POLICY_DEVICE_GUID, STATUS
SPRT_SG_POL_DEV_HIST_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_POLICY_DEVICE_HOLD

This table maintains devices which have been queued for execution within a given policy. Policy device lists can be generated by conditions, specified via a CSV list, taken from another policy's device list, or may also be queued when concurrency limits are reached.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
SG_POLICY_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_POLICY.GUID.
EC_DEVICE_ID	NUMBER(9)		No	Reference to SPRT_EC_DEVICE.ID.
ADD_METHOD	VARCHAR2(32)		No	Method in which the device was added to this table. One of: FILTERS, meaning it was added via conditions, CSV, meaning device was added by parsing a specified device list, QUEUED, meaning it was added by the device event exceeded the maximum concurrency and was queued, or HISTORY, meaning it was added by building the device list via another process policy device list.

Field Name	Type	Default	Nullable	Description
EVENT_DETAIL	CLOB(4000)		Yes	The inform SOAP message, when the device is queued from exceeding policy concurrency limits.
CALLER_ID	VARCHAR2(36)		Yes	The trigger of the device, when the device is queued from exceeding policy concurrency limits.
STATUS	VARCHAR2(32)		No	Status of device. Either UNATTEMPTED or SKIPPED.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
STATUS_TIMESTAMP	DATE	SYSDATE	No	The date and time that STATUS was most recently changed.

Indexes

Name	Type	Columns
SPRT_SG_POLICY_DEV_HOLD_IDX1	NORMAL	SG_POLICY_GUID
SPRT_SG_POLICY_DEV_HOLD_IDX2	NORMAL	EC_DEVICE_ID
SPRT_SG_POLICY_DEV_HOLD_IDX3	NORMAL	CREATED
SPRT_SG_POLICY_DEV_HOLD_IDX4	NORMAL	SG_POLICY_GUID, EC_DEVICE_ID
SPRT_SG_POLICY_DEV_HOLD_PK	UNIQUE	GUID
SPRT_SG_POLICY_DEV_HOLD_IDX5	FUNCTION-BASED	TO_CHAR('STATUS_TIMESTAMP','YYYY-MM-DD HH24:MI:SS')

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_POLICY_DEV_HOLD_FK1	SG_POLICY_GUID	SPRT_SG_POLICY	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_POLICY_EXECUTION

This table holds a single record that is used as a lock for policy execution job.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
EXECUTION_TIME	DATE	SYSDATE	No	The time the lock was last acquired. This is not cleared or updated when the lock is released.
EXECUTION_INTERVAL	NUMBER(9)	60	No	This field is not currently used.
IS_LOCKED	NVARCHAR2(32)		No	'Y' if the lock is currently held by a policy execution job. 'N' if the lock is not held.

Indexes

Name	Type	Columns
SPRT_SG_POLICY_EXECUTION_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_POLICY_EXEC_HISTORY

This table holds policy execution history. If the policy device processing type is ONCE_PER_EVENT or ONCE_ONLY, there will typically be a one-to-one mapping between this table and the SPRT_SG_POLICY table. If the device processing is set to ONCE_PER_PERIOD, there will typically be one entry in this table for each period.

The reason for the term "typically" is because there is an exception to this, and that is when the failure threshold for the policy has been exceeded. In that case, it is possible to re-enable the policy and allow it to continue executing. If that is the case, a new record will be created in this table to cover the newly reactivated policy.

The success, failed and skipped counts stored in this table are not necessarily updated in real-time. They are only updated periodically (e.g. every 5 seconds, at most) to reduce the number of updates to this table. This can be controlled through configuration.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.

Field Name	Type	Default	Nullable	Description
SG_POLICY_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_POLICY.GUID.
START_TRIGGER	VARCHAR2(32)		Yes	Indicates the trigger that started this execution segment: One of: MANUAL_TRIGGER, TIMER_TRIGGER, EVENT_TRIGGER.
STARTED_BY	NVARCHAR2(32)		Yes	The user who started the policy execution. It will either be the system user if the policy was started by the timer or a device event, or the logged in user if the policy was started manually via the UI.
END_TRIGGER	VARCHAR2(36)		Yes	Indicates the reason this execution segment ended. One of: MANUAL_STOP, END_OF_PERIOD, FAILURE_THRESHOLD_EXCEEDED, ALL_DEVICES_PROCESSED.
STOPPED_BY	NVARCHAR2(32)		Yes	The user who stopped the policy execution. It will either be the system user if the segment ends as a result of the period ending or the failure threshold being exceeded, or the logged-in user if the policy is stopped via the UI.
EXEC_START_TIME	DATE		Yes	Date and time of the first device execution. May be NULL if no devices have been processed yet.
EXEC_END_TIME	DATE		Yes	Date and time of the last device execution. May be NULL if no devices have been processed yet.
SUCCESS_COUNT	NUMBER(9)		Yes	Total devices processed by this policy execution segment with a status of SUCCEEDED. If this is a ONCE_PER_EVENT policy, then each event from the same device will increment this count.
FAILED_COUNT	NUMBER(9)		Yes	Total devices processed by this policy execution segment with a status of FAILED. If this is a ONCE_PER_EVENT policy, then each event from the same device will increment this count.
SKIPPED_COUNT	NUMBER(9)		Yes	Total devices processed by this policy execution segment with a status of SKIPPED. This field only makes sense for timer-driven policies. If this is a ONCE_PER_EVENT policy, then each event from the same device will increment this count.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_POLICY_EXEC_HIST_IDX1	NORMAL	SG_POLICY_GUID
SPRT_SG_POL_EXEC_HIST_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_POL_EXEC_HIST_FK1	SG_POLICY_GUID	SPRT_SG_POLICY	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_POLICY_HIST_LOCK

This table holds a single record that is used as a lock for the run aged results job.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
EXECUTION_TIME	DATE	SYSDATE	No	The time the lock was last acquired. This is not cleared or updated when the lock is released.
EXECUTION_INTERVAL	NUMBER(9)	60	No	This column is not currently used.
IS_LOCKED	NVARCHAR2(32)		No	'Y' if the lock is currently held by a run aged results job. 'N' if the lock is not held.

Indexes

Name	Type	Columns
SPRT_SG_POLICY_HIST_LOCK_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_POLICY_INVALID_DEVICE

This table holds the list of devices specified in a CSV file that do not actually exist in the DB.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
SG_POLICY_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_POLICY.GUID.
CSV_KEY_VALUE	NVARCHAR2(1024)		No	The device key value specified in the CSV contents.
FAILURE_REASON	NVARCHAR2(512)		No	The reason why the device key is not valid.

Indexes

Name	Type	Columns
SPRT_SG_POLICY_INVALID_DEV_PK	UNIQUE	GUID
SPRT_SG_POLICY_INVALID_DV_IDX1	NORMAL	SG_POLICY_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_POLICY_INVALID_DEV_FK1	SG_POLICY_GUID	SPRT_SG_POLICY	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_POLICY_RETRY_LOCK

This table holds a single record that is used as a lock for the policy action retry job.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)	RAWTOHEX(sys_guid())	No	Primary Key.
RETRY_TIME	DATE	SYSDATE	No	The time the lock was last acquired. This is not cleared or updated when the lock is released.
RETRY_INTERVAL	NUMBER(9)	60	No	This field is not currently used.
IS_LOCKED	NVARCHAR2(32)		No	'Y' if the lock is currently held by an application server status job. 'N' if the lock is not held.

Indexes

Name	Type	Columns
SPRT_SG_POLICY_RETRY_LOCK_PK	UNIQUE	GUID

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_SERVICE_CONF

This table contains one and only one entry for each service that has technical configuration association with it. This table is used to store the order in which configuration for multiple services is delivered.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
EC_SERVICE_ID	NUMBER(9)		No	Foreign key to ENCORE_SERVICE.ID.
PRIORITY	NUMBER(9)		No	This value defines the order that the services will be delivered to a device. Lower number is higher priority.

Indexes

Name	Type	Columns
SPRT_SG_SERVICE_CONF_PK	UNIQUE	GUID
SPRT_SG_SERVICE_CONF_UK	UNIQUE	EC_SERVICE_ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_SERVICE_CONF_FK1	EC_SERVICE_ID	SPRT_EC_SERVICE	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_SERVICE_TC_XREF_FK1	SPRT_SG_SERVICE_TC_XREF	SG_SERVICE_CONF_GUID	CASCADE
SPRT_SG_DBOR_TC_FK4	SPRT_SG_DBOR_TC	SG_SERVICE_CONF_GUID	NO ACTION

SPRT_SG_SERVICE_TC_XREF

This table contains a record for each template associated with a service.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
SG_SERVICE_CONF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_SERVICE_CONF.GUID, specifying the service this template is associated with.
SG_TC_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_TC.GUID, specifying the template.
SG_CONDITION_GUID	VARCHAR2(36)		Yes	Optional additional conditions to be AND'd with the conditions associated with the template, which must be met before the template can be applied to a device.
DELIVERY_RULE	VARCHAR2(32)		No	Specifies when the template is sent to a device, one of: ONCE, ALWAYS, ON_CHANGE.
PRIORITY	NUMBER(9)		No	The delivery priority of technical configuration within a service. Lower number is higher priority.

Indexes

Name	Type	Columns
SPRT_SG_SERVICE_TC_XREF_IDX1	NORMAL	SG_SERVICE_CONF_GUID
SPRT_SG_SERVICE_TC_XREF_IDX2	NORMAL	SG_TC_GUID
SPRT_SG_SERVICE_TC_XREF_IDX3	NORMAL	SG_CONDITION_GUID
SPRT_SG_SERVICE_TC_XREF_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_SERVICE_TC_XREF_FK3	SG_CONDITION_GUID	SPRT_SG_CONDITION	NO ACTION
SPRT_SG_SERVICE_TC_XREF_FK1	SG_SERVICE_CONF_GUID	SPRT_SG_SERVICE_CONF	CASCADE
SPRT_SG_SERVICE_TC_XREF_FK2	SG_TC_GUID	SPRT_SG_TC	NO ACTION

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_SMM_DEF

This table maintains software modules definitions. Software Modules are applications that run on end-user devices that support the Software Module Management portion of the CWMP 1.2 specification.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_REALM_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_REALM.GUID.
EC_FILE_ID	NUMBER(9)		Yes	Foreign key to SPRT_EC_FILE.ID. Optional, specifies the file containing the actual binary content of the software module.
NAME	NVARCHAR2(256)		No	A short name for this software module.
DESCRIPTION	NVARCHAR2(1333)		Yes	Optional description of the software module.
VERSION	NVARCHAR2(32)		Yes	The version of the module.
UUID	NVARCHAR2(36)		Yes	For future use, currently holds same value as GUID field.
REQUIRED_DISK_SPACE	NUMBER(9)		Yes	The estimated required disk space, in kB, when installed on a device. This is used during the optional pre-check when determining if there is enough space on the device to install the module.
REQUIRED_RUNTIME_MEMORY	NUMBER(9)		Yes	The estimated required runtime memory, in kB, when running on the device. This is used during the optional pre-check when determining if there is enough runtime memory to install the module.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_SMM_DEF_PK	UNIQUE	GUID
SPRT_SG_SMM_DEF_IDX1	NORMAL	EC_REALM_GUID
SPRT_SG_SMM_IDX2	NORMAL	EC_FILE_ID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_SMM_DEF_FK2	EC_FILE_ID	SPRT_EC_FILE	NO ACTION
SPRT_SG_SMM_DEF_FK1	EC_REALM_GUID	SPRT_EC_REALM	NO ACTION

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_TCP_CWMPSSM_I_FK2	SPRT_SG_TCP_CWMPSSM_I	SG_SMM_DEF_GUID	CASCADE
SPRT_SG_SMM_DEF_DEP_FK2	SPRT_SG_SMM_DEF_DEPENDENCY	DEPENDENCY	CASCADE
SPRT_SG_SMM_DEF_DEP_FK1	SPRT_SG_SMM_DEF_DEPENDENCY	SG_SMM_DEF_GUID	CASCADE
SPRT_SG_ACT_SMM_I_FK2	SPRT_SG_ACT_SMM_I	SG_SMM_DEF_GUID	SET NULL

SPRT_SG_SMM_DEF_DEPENDENCY

This table maintains dependencies between software modules. Dependencies can be set to enable automatic installation of prerequisite software modules.

Field Name	Type	Default	Nullable	Description
SG_SMM_DEF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_SMM_DEF.GUID.
DEPENDENCY	VARCHAR2(36)		No	Foreign key to SPRT_SG_SMM_DEF.GUID, indicating the other software module this one depends on.

Indexes

Name	Type	Columns
SPRT_SG_SMM_DEF_DEP_PK	UNIQUE	SG_SMM_DEF_GUID, DEPENDENCY
SPRT_SG_SMM_DEF_DEP_IDX1	NORMAL	SG_SMM_DEF_GUID
SPRT_SG_SMM_DEF_DEP_IDX2	NORMAL	DEPENDENCY

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_SMM_DEF_DEP_FK2	DEPENDENCY	SPRT_SG_SMM_DEF	CASCADE
SPRT_SG_SMM_DEF_DEP_FK1	SG_SMM_DEF_GUID	SPRT_SG_SMM_DEF	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_TC

This table stores portions of technical configuration (also called Templates). It references the TC_INSTANCE table for apply and undo configuration, to which a chosen technical configuration plugin links the specific configuration.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_REALM_GUID	VARCHAR2(36)		No	Realm to which this technical configuration belongs
NAME	NVARCHAR2(256)		No	Display name of template.
DESCRIPTION	NVARCHAR2(1333)	NULL	Yes	Description of template.
APPLY_TC_INSTANCE_GUID	VARCHAR2(36)	NULL	Yes	The technical configuration instance to apply configuration.
UNDO_TC_INSTANCE_GUID	VARCHAR2(36)	NULL	Yes	The technical configuration instance to undo configuration.
UNDO_ON_REDO	VARCHAR2(32)		No	When set to TRUE, the undo configuration is executed before executing the apply configuration for a template that had previously been applied to a device.
SG_CONDITION_GUID	VARCHAR2(36)	NULL	Yes	Conditions that must be met by a device (and its associated objects) in order for this technical config to be applied to a device.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
REBOOT_TYPE	VARCHAR2(32)	'NONE'	Yes	if set to AFTER_TECH_CONFIG, a reboot command will be sent to the device after this template is applied.

Indexes

Name	Type	Columns
SPRT_SG_TC_IDX1	UNIQUE	NAME, EC_REALM_GUID
SPRT_SG_TC_IDX2	NORMAL	EC_REALM_GUID
SPRT_SG_TC_IDX3	NORMAL	APPLY_TC_INSTANCE_GUID
SPRT_SG_TC_IDX4	NORMAL	UNDO_TC_INSTANCE_GUID
SPRT_SG_TC_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_TC_FK1	EC_REALM_GUID	SPRT_EC_REALM	CASCADE
SPRT_SG_TC_FK3	UNDO_TC_INSTANCE_GUID	SPRT_SG_TC_INSTANCE	SET NULL
SPRT_SG_TC_FK2	APPLY_TC_INSTANCE_GUID	SPRT_SG_TC_INSTANCE	SET NULL

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_SERVICE_TC_XREF_FK2	SPRT_SG_SERVICE_TC_XREF	SG_TC_GUID	NO ACTION
SPRT_SG_DEVICE_TC_FK3	SPRT_SG_DEVICE_TC	REPLACE_TC_GUID	NO ACTION
SPRT_SG_DEVICE_TC_FK2	SPRT_SG_DEVICE_TC	OVERRIDE_TC_GUID	NO ACTION
SPRT_SG_DBOR_TC_FK2	SPRT_SG_DBOR_TC	SG_TC_GUID	NO ACTION

SPRT_SG_TCP_CWMPFILE_I

This is the plugin specific configuration for the CWMP File template plugin.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_TC_INSTANCE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_TC_INSTANCE, which links this plugin specific configuration to a template.
EC_FILE_ID	NUMBER(9)		No	Foreign key to SPRT_EC_FILE.ID, specifying the file to deliver.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.

Indexes

Name	Type	Columns
SPRT_SG_TCP_CWMPFILE_I_IDX1	NORMAL	SG_TC_INSTANCE_GUID
SPRT_SG_TCP_CWMPFILE_I_IDX2	NORMAL	EC_FILE_ID
SPRT_SG_TCP_CWMPFILE_I_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_TCP_CWMPFILE_I_FK2	EC_FILE_ID	SPRT_EC_FILE	NO ACTION
SPRT_SG_TCP_CWMPFILE_I_FK1	SG_TC_INSTANCE_GUID	SPRT_SG_TC_INSTANCE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_TCP_CWMPPARAM

The table holds the plugin specific configuration for the CWMP Parameter template plugin,

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_TC_INSTANCE_GUID	VARCHAR2(36)		Yes	Foreign key to SPRT_SG_TC_INSTANCE, which links this plugin specific configuration to a template.
AGGREGATION_TYPE	VARCHAR2(32)	'INCONF_SEQUENTIAL'	No	The type of RPC aggregation specified for this template. NONE - Do not aggregate RPCs. INCONF_SEQUENTIAL - Combine adjacent SetParameterValue and SetParameterAttribute calls within a single configuration into single RPCs and maintain ordering. CROSSCONF_VALUE_AGGRESSIVE - Combine all SetParameterValue calls across multiple configurations into a single RPC.

Indexes

Name	Type	Columns
SPRT_SG_TCP_CWMPPARAM_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_TCP_CWMPPARAM_FK1	SG_TC_INSTANCE_GUID	SPRT_SG_TC_INSTANCE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_TCP_CWMPPARAM_CMD

This table contains a record for each command associated with an instance of the CWMP Parameter template plugin.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_TC_INSTANCE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_TC_INSTANCE.GUID, linking this configuration to a template.
ORDINAL	NUMBER(9)		No	The order in which the commands will be carried out.
COMMAND_TYPE	VARCHAR2(32)		No	Indicates the type of command. Note that there is not a directly relationship between these command types and the RPCs sent to the device. Many commands may be combined into one RPC and one command may result in many RPCs. The possible values are: SET_PARAM, UNSET_PARAM, ADD_OBJECT, DELETE_OBJECT, SET_NOTIFICATION, SET_ACCESSLIST.
TARGET_NAME	VARCHAR2(256)		No	The parameter name, partial path name or object name to operate on (note: indices will contain {i}).
VALUE	NVARCHAR2(1333)	NULL	Yes	The value for a SET_PARAM, the notification value (0,1,2) for SET_NOTIFICATION, comma separated list for SET_ACCESSLIST and NULL for ADD_OBJECT/DELETE_OBJECT.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.
PARAMETER_TYPE	VARCHAR2(32)		No	The type of the object or parameter specified in TARGET_NAME. One of: OBJECT, STRING, INTEGER, UNSIGNED_INT, DATE/TIME, BASE64_BINARY.

Indexes

Name	Type	Columns
SPRT_SG_TCP_CWMPPARAM_CMD_IDX1	NORMAL	SG_TC_INSTANCE_GUID
SPRT_SG_TCP_CWMPPARAM_CMD_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_TCP_CWMPPARAM_CMD_FK1	SG_TC_INSTANCE_GUID	SPRT_SG_TC_INSTANCE	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_TCP_CWMPPARAM_WQ_FK2	SPRT_SG_TCP_CWMPPARAM_WQ	SG_TCP_CWMPPARAM_CMD_GUID	CASCADE
SPRT_SG_TCP_CWMPPARAM_IND_FK1	SPRT_SG_TCP_CWMPPARAM_IND	SG_TCP_CWMPPARAM_CMD_GUID	CASCADE

SPRT_SG_TCP_CWMPPARAM_IND

This table contains a record for each index within the TARGET_NAME field of the SPRT_SG_TCP_CWMPTEMP_CMD record referenced by SPRT_SG_TCP_CWMPTEMP_CMD_GUID.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_TCP_CWMPPARAM_CMD_GUID	VARCHAR2(36)		No	Foreign key to SG_TCP_CWMPPARAM_CMD.GUID.
ORDINAL	NUMBER(9)		No	The index number within the TARGET_NAME reference that this record refers to. The first occurrence of {i} is 1, the second is 2, and so on.
INDEX_POLICY	VARCHAR2(32)		No	The rule for handling this index. One of: CREATE_NEW - Create a new object - no index value preference or requirement. PREFER_VALUE - Prefer a specific value, but create object if it doesn't exist. REQUIRE_VALUE - Require a specific value. It is an error if it does not already exist.
INDEX_VALUE	VARCHAR2(1000)	NULL	Yes	The preferred index value or name to use to provide the value for this index.
ASSIGN_INDEX_NAME	VARCHAR2(128)		No	The index name to set with the value determined for this index.

Indexes

Name	Type	Columns
SPRT_SG_TCP_CWMPPARAM_IND_IDX1	NORMAL	SG_TCP_CWMPPARAM_CMD_GUID
SPRT_SG_TCP_CWMPPARAM_IND_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_TCP_CWMPPARAM_IND_FK1	SG_TCP_CWMPPARAM_CMD_GUID	SPRT_SG_TCP_CWMPPARAM_CMD	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_TCP_CWMPPARAM_QUEUE

This table is used to accumulate the configuration for a series of templates that have the ability to be aggregated together to optimize the device interaction. As each eligible template is processed, the compiled configuration is stored here. When the final eligible template is processed, all of the queued configuration is retrieved and cleared from this table, to be aggregated and delivered to the device.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_DEVICE_ID	NUMBER(9)		No	Foreign key to SPRT_EC_DEVICE.ID.
AGGREGATION_GROUP	NVARCHAR2(64)		No	An identifier for the group of templates that are being aggregated. Currently, only a single aggregation group is supported by the UI, so the only value that will appear in this column is AUTO_GROUP.
ORDINAL	NUMBER(9)		No	The order in which the compiled configuration was queued.
CONFCODE	BLOB(4000)		No	The template specific compiled configuration.

Indexes

There are no indexes defined for this table.

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_TCP_CWMPPARAM_WQ

This table is not currently used.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_DEVICE_ID	NUMBER(9)		No	Reference to a device.
SG_TCP_CWMPPARAM_CMD_GUID	VARCHAR2(36)		No	Reference to a command to carry out.
ORDINAL	NUMBER(9)		No	The order in which to carry out the commands.

Indexes

Name	Type	Columns
SPRT_SG_TCP_CWMPPARAM_WQ_IDX1	NORMAL	SG_TCP_CWMPPARAM_CMD_GUID
SPRT_SG_TCP_CWMPPARAM_WQ_IDX2	NORMAL	EC_DEVICE_ID
SPRT_SG_TCP_CWMPPARAM_WQ_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_TCP_CWMPPARAM_WQ_FK1	EC_DEVICE_ID	SPRT_EC_DEVICE	CASCADE
SPRT_SG_TCP_CWMPPARAM_WQ_FK2	SG_TCP_CWMPPARAM_CMD_GUID	SPRT_SG_TCP_CWMPPARAM_CMD	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_TCP_CWMP SMM_I

The configuration specific to the CWMP Software Module template plugin.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_TC_INSTANCE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_TC_INSTANCE.GUID, which links this plugin specific configuration to a template.

Field Name	Type	Default	Nullable	Description
SG_SMM_DEF_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_SMM_DEF.GUID. This specifies the Software Module to install or uninstall.
OPERATION	VARCHAR2(32)	'INSTALL'	No	One of: INSTALL, UNINSTALL.
LOAD_DEPENDENCIES	CHAR(1)	'N'	No	If 'Y', then any other Software Modules that this one depends on will be installed before this one, if not already present on the device.
IGNORE_RESOURCE_LIMITS	CHAR(1)	'N'	No	If 'Y', the software module will be installed without first checking to ensure there is enough storage space and runtime memory to support the module.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.

Indexes

Name	Type	Columns
SPRT_SG_TCP_CWMPSSMM_I_PK	UNIQUE	GUID
SPRT_SG_TCP_CWMPSSMM_I_IDX1	NORMAL	SG_TC_INSTANCE_GUID
SPRT_SG_TCP_CWMPSSMM_I_IDX2	NORMAL	SG_SMM_DEF_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_TCP_CWMPSSMM_I_FK2	SG_SMM_DEF_GUID	SPRT_SG_SMM_DEF	CASCADE
SPRT_SG_TCP_CWMPSSMM_I_FK1	SG_TC_INSTANCE_GUID	SPRT_SG_TC_INSTANCE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_TCP_CWMPTEMPLATE_I

This is the plugin specific configuration for the CWMP Template plugin.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_TC_INSTANCE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_TC_INSTANCE.GUID, which links this plugin specific configuration to a template.
TEMPLATE_TEXT	CLOB(4000)		No	The content of the configuration, which may contain Velocity script elements.
FILENAME	VARCHAR2(256)		No	The filename to use when sending the content to the device.

Field Name	Type	Default	Nullable	Description
CONTAINS_MARKUP	CHAR(1)		No	If 'Y', then TEMPLATE_TEXT should be evaluated as a Velocity script. Otherwise 'N'.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.

Indexes

Name	Type	Columns
SPRT_SG_TCP_CWMPTEMPLATE_I_PK	UNIQUE	GUID
SPRT_SG_TCP_CWMPTEMPLATE_I_IDX1	NORMAL	SG_TC_INSTANCE_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_TCP_CWMPTEMPLATE_I_FK1	SG_TC_INSTANCE_GUID	SPRT_SG_TC_INSTANCE	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_TC_INSTANCE

This table holds a record for each piece of apply or undo configuration associated with a template. The configuration settings specific to the chosen configuration method link to this record.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
SG_TC_PLUGIN_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_TC_PLUGIN.GUID.
CALLER_GUID	VARCHAR2(36)		No	Caller-defined GUID used to identify the owner of the stub.
STATUS	VARCHAR2(32)		No	One of: UNCONFIGURED, CONFIGURED.
ACTION_TYPE	VARCHAR2(32)		No	One of: APPLY, UNDO.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_TC_INSTANCE_IDX1	NORMAL	SG_TC_PLUGIN_GUID
SPRT_SG_TC_INSTANCE_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_TC_INSTANCE_FK1	SG_TC_PLUGIN_GUID	SPRT_SG_TC_PLUGIN	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_TCP_CWMPSSM_I_FK1	SPRT_SG_TCP_CWMPSSM_I	SG_TC_INSTANCE_GUID	CASCADE
SPRT_SG_TCP_CWMPTEMPLATE_I_FK1	SPRT_SG_TCP_CWMPTEMPLATE_I	SG_TC_INSTANCE_GUID	CASCADE
SPRT_SG_TCP_CWMPPARAM_CMD_FK1	SPRT_SG_TCP_CWMPPARAM_CMD	SG_TC_INSTANCE_GUID	CASCADE
SPRT_SG_TCP_CWMPPARAM_FK1	SPRT_SG_TCP_CWMPPARAM	SG_TC_INSTANCE_GUID	CASCADE
SPRT_SG_TCP_CWMPFILE_I_FK1	SPRT_SG_TCP_CWMPFILE_I	SG_TC_INSTANCE_GUID	CASCADE
SPRT_SG_TC_FK3	SPRT_SG_TC	UNDO_TC_INSTANCE_GUID	SET NULL
SPRT_SG_TC_FK2	SPRT_SG_TC	APPLY_TC_INSTANCE_GUID	SET NULL

SPRT_SG_TC_PLUGIN

This table holds a list of available template plugins, and tells the system how to access them programmatically and via the UI.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.
EC_PLUGIN_REGISTRY_GUID	VARCHAR2(36)		No	Foreign Key to SPRT_EC_PLUGIN_REGISTRY.GUID, which provides generic information about the plugin.

Field Name	Type	Default	Nullable	Description
INSTANCE_CONF_URL	VARCHAR2(256)	NULL	Yes	The URL of a Flash application that allows this plugin to be configured. For plugins embedded in the Service Gateway UI, this will have the format "internal: <name>". If the plugin does not have an instance configuration UI screen, this will be NULL.
INSTANCE_CONF_JNDI	VARCHAR2(256)	NULL	Yes	The JNDI name of the EJB interface used to configure and execute the plugin.
INSTANCE_CONF_REQUIRED	VARCHAR2(32)		No	If 'Y', then the plugin provides another database table to hold plugin specific configuration for this template, that must be provided before the template can be executed.
CREATED	DATE	SYSDATE	No	Date upon creation.
CREATED_BY	NVARCHAR2(32)		No	Username of user that created the record.
MODIFIED	DATE	SYSDATE	No	Date upon last modification.
MODIFIED_BY	NVARCHAR2(32)		No	Username of user that last modified the record.

Indexes

Name	Type	Columns
SPRT_SG_TC_PLUGIN_IDX1	NORMAL	EC_PLUGIN_REGISTRY_GUID
SPRT_SG_TC_PLUGIN_PK	UNIQUE	GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_TC_PLUGIN_FK1	EC_PLUGIN_REGISTRY_GUID	SPRT_EC_PLUGIN_REGISTRY	CASCADE

References from other tables

The table below lists the dependencies that records in other tables have on records in this table, and what will happen to the other records if the record in this table is deleted.

Name	Foreign Table	Foreign Column	Delete Rule
SPRT_SG_TC_INSTANCE_FK1	SPRT_SG_TC_INSTANCE	SG_TC_PLUGIN_GUID	CASCADE

SPRT_SG_TC_TEST_RESULT

This table is used to test the asynchronous invocation of a template plugin.

Field Name	Type	Default	Nullable	Description
GUID	VARCHAR2(36)		No	Primary Key.

Field Name	Type	Default	Nullable	Description
CALLER_GUID	VARCHAR2(36)		No	The caller GUID returned by the template invocation response.
EC_DEVICE_ID	NUMBER(9)		No	A reference to a device.
SG_TC_PLUGIN_GUID	VARCHAR2(36)		No	Foreign key to SPRT_RC_PLUGIN.GUID.
SG_TC_INSTANCE_GUID	VARCHAR2(36)		No	Foreign key to SPRT_RC_INSTANCE.GUID.
RESULT_CODE	VARCHAR2(36)		No	The result returned by the template invocation.
RESULT_TIME	DATE	SYSDATE	No	The time that the result was received.
RESULT_MESSAGE	NVARCHAR2(1000)	NULL	Yes	The message received.

Indexes

There are no indexes defined for this table.

Foreign Key Constraints

There are no foreign key constraints defined for this table.

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_USER_ACTION_XREF

This table associates a user with the policy actions they are permitted to access. If there are no entries for a user, it is implied that they are allowed access to all actions.

Field Name	Type	Default	Nullable	Description
EC_USER_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_USER.GUID.
SG_ACTION_GUID	VARCHAR2(36)		No	Foreign key to SPRT_SG_ACTION.GUID.

Indexes

Name	Type	Columns
SPRT_SG_USER_ACTION_XREF_IDX1	NORMAL	EC_USER_GUID
SPRT_SG_USER_ACTION_XREF_IDX2	NORMAL	SG_ACTION_GUID
SPRT_SG_USER_ACTION_XREF_PK	UNIQUE	EC_USER_GUID, SG_ACTION_GUID

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_USER_ACTION_XREF_FK1	EC_USER_GUID	SPRT_EC_USER	CASCADE
SPRT_SG_USER_ACTION_XREF_FK2	SG_ACTION_GUID	SPRT_SG_ACTION	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

SPRT_SG_USER_EVENTHOOK

This table associates a user with the policy event hooks they are permitted to access. If there are no entries for a user, it is implied that they are allowed access to all event hooks.

Field Name	Type	Default	Nullable	Description
EC_USER_GUID	VARCHAR2(36)		No	Foreign key to SPRT_EC_USER.GUID.
EVENT_HOOK	VARCHAR2(32)		No	The name of an event hook.

Indexes

Name	Type	Columns
SPRT_SG_USER_EVENTHOOK_IDX1	NORMAL	EC_USER_GUID
SPRT_SG_USER_EVENTHOOK_PK	UNIQUE	EC_USER_GUID, EVENT_HOOK

Foreign Key Constraints

The table below lists the dependencies that records in this table have on records in other tables, and what will happen to this record if the record in the other table is deleted.

Name	Local Column	Foreign Table	Delete Rule
SPRT_SG_USER_EVENTHOOK_FK1	EC_USER_GUID	SPRT_EC_USER	CASCADE

References from other tables

There are no other tables that define a foreign key constraint on records in this table.

Chapter 2 Disaster Recovery

This section may be used as input into a disaster recovery plan, by providing guidance for which tables must be backed up, which ones can be ignored, and which tables are left to the discretion of your organization.

The Service Gateway database schema contains many tables which are used for different purposes, such as inventory, control and history. Some of these tables can grow quite large, and are not easily backed up on a regular basis. This section outlines which tables must be backed up, and which ones are optional. For the purpose of this section, we classify the tables into the following categories:

1. Configuration/Inventory – This category makes up the bulk of the Service Gateway tables. These tables are used for storing information required for Service Gateway to manage devices. These tables must be backed up.
2. Persistent Control Data – These tables contain records with persistent information which is modified while actions are being performed on a device. These tables must be backed up, and will require some data be modified before the system may return to a normal operating state.
3. Non-Persistent Control Data – These tables only contain data when actions are being performed on devices. These tables do not need to be backed up.
4. History – Data is archived in these tables for reporting. These tables do not need to be backed up, however, if they are, they will consume a high percentage of the space required for the backup.

Configuration Tables

Any table present in the schema which is not mentioned in this document is considered a configuration/inventory table. These tables must be backed up and restored in their entirety.

Persistent Control Data

When restoring these tables, some of the columns must have their values modified for Service Gateway to be returned to an operating state. If the columns are not updated, Service Gateway may think a device is currently in a state of having an action performed on it. Queries are provided for resetting columns to acceptable values.

Table Name	Description
SPRT_EC_JOB_LOCK	This table contains a control record which prevents multiple instances of the timer from executing the executeScheduledJobs job at the same time. After restoring, IS_LOCKED must be reset to 'false' so that executeScheduledJobs can be executed by the timer again. Query: UPDATE SPRT_EC_JOB_LOCK SET IS_LOCKED='false';
SPRT_EC_PARTITION_PURGING_LOCK	This table contains a control record which prevents multiple instances of the timer from executing the purgePartitions job at the same time. After restoring, IS_LOCKED must be reset to 'false' so that purgePartitions can be executed by the timer again. Query: UPDATE SPRT_EC_PARTITION_PURGING_LOCK SET IS_LOCKED='false';
SPRT_NC_CPE_CONNECTION	This table indicates whether or not we have an active session with a device. This is required so the system knows whether or not it has to contact the connection request URL. After restoring, NC_CPE_CONNECTION must be reset to 0. Query: UPDATE SPRT_NC_CPE_CONNECTION SET NC_CPE_CONNECTION=0;

Table Name	Description
SPRT_NC_CPE_WF_STATE	Used by ACSWorkflowMangerBean to keep track of what stage of the workflow a device is in. When restoring data, NC_CPE_WORKFLOW_STATE must be reset to null, and NC_CPE_IN_PROGRESS must be reset to 'N' for all devices so that Service Gateway is able to execute new actions against these devices. Query: UPDATE SPRT_NC_CPE_WF_STATE SET NC_CPE_WORKFLOW_STATE=null, NC_CPE_IN_PROGRESS='N';
SPRT_SG_POLICY_EXECUTION	This table contains a control record which prevents multiple instances of the timer from executing the executePolicies job at the same time. After a data restore, IS_LOCKED must be reset to 'false' so that the timer will begin executing policies again. Query: UPDATE SPRT_SG_POLICY_EXECUTION SET IS_LOCKED='false';
SPRT_SG_POLICY_HIST_LOCK	This table contains a control record which prevents multiple instances of the timer from executing the runAgingResultsCheck job at the same time. After restoring this table, IS_LOCKED must be reset to 'false' so that runAgingResultsCheck can be executed by the timer again. Query: UPDATE SPRT_SG_POLICY_HIST_LOCK SET IS_LOCKED='false';
SPRT_SG_POLICY_RETRY_LOCK	This table contains a control record which prevents multiple instances of the timer from executing the retryDevices job at the same time. After restoring, IS_LOCKED must be reset to 'false' so that retryDevices can be executed by the timer again. Query: UPDATE SPRT_SG_POLICY_HIST_LOCK SET IS_LOCKED='false';

Non-Persistent Control Data

The data in these tables is not required to be restored in a disaster recovery situation. Information stored in these tables is for maintaining state information about a device that is currently involved in a session, or queued events that are no longer meaningful after an extended downtime.

Table Name	Description
SPRT_NC_EVENT_LISTENER	When a device sends an inform to an ACS, subsequent communications with that device must be done by the same ACS until the transaction and subsequent actions performed against that device have been completed. This table is used to track which ACS is currently communicating with a given device so that RPCs may be sent to the proper ACS.
SPRT_NC_INFORM_EVENT	This table is used to queue up device events which need to be processed by the system. The number of events to queue before discarding events is defined in system preferences.
SPRT_NC_INFORM_EVENT_CLAIM	This table is used to track devices which need to be rebooted while doing a configuration sync policy action. When the device sends a new boot upon restarting, having a claim on the device lets the original configuration sync workflow continue.
SPRT_NC_SERVER_WAITING_QUEUE	This table queues RPCs which are to be sent to a device.
SPRT_SG_ACT_BACKUP_CXT	This context table is used to link a device to an executing configuration backup policy action.

Table Name	Description
SPRT_SG_ACT_FW_CONTEXT	This context table is used to link a device to an executing firmware upgrade action.
SPRT_SG_ACT_RESTORE_CXT	This context table is used to link a device to an executing configuration restore action.
SPRT_SG_ACT_SMM_CONTEXT	This context table is used to link a device to a software management module being installed on that device.
SPRT_SG_ACT_SYNC_SESSION	When a transfer complete event arrives, this table is used to associate the device with the policy action that initiated the transfer.
SPRT_SG_POLICY_INVALID_DEVICE	When building a policy device list from a CSV file, this table will be populated if the specified key does not map to a device.
SPRT_SG_TC_TEST_RESULT	This table is used for internal testing and can be ignored.
SPRT_SG_TCP_CWMPARAM_QUEUE	This table is used to aggregate set parameter values across multiple templates. When 'Combine SetParameterValue RPCs across configurations' is selected. This table is only used during a configuration sync.
SPRT_SG_TCP_CWMPARAM_WQ	This table is not currently used by the application.

History Tables

The data archived in these tables is used for reporting and does not need to be backed up. This group of tables uses most of the database space required for a Service Gateway installation, and if these tables are selected for backup, it will consume a considerable amount of storage space.

Table Name	Description
SPRT_EC_AUDIT_LOG	This table is only populated if audit logging is enabled. It contains a record of all changes made via the Service Gateway UI by any user. Audit logging may be toggled by going to Administration > Settings > Preferences > General and selecting "Audit Logging Enabled". The length of time records are retained in SPRT_EC_AUDIT_LOG is controlled by the value located at Administration > Settings > Preferences > Record Purging > Audit Log Expiration Age.
SPRT_EC_JOB_STATUS_HIST	This table contains a history of scheduled internal jobs that have run.
SPRT_EC_METRICS_HIST	This table contains automatically collected counts on the number of devices and system users in the database. This information is not visible in the UI and can only be viewed with a database tool or a custom report.
SPRT_EC_REPORT_LOG	This table contains history showing each time a report was executed. The length of time records are retained in SPRT_EC_REPORT_LOG is controlled by the value located at Administration > Settings > Preferences > Record Purging > Report Log Expiration Age.
SPRT_EC_REPORT_SAVE	This table contains the historical output from saved report runs. The length of time records are retained in SPRT_EC_REPORT_SAVE is controlled by the value located at Administration > Settings > Preferences > Record Purging > Saved Report Expiration Age.

Table Name	Description
SPRT_EC_SERVER_STATUS	This table contains historical information on the health of a server defined within the system. The length of time records are retained in SPRT_EC_SERVER_STATUS is controlled by the value located at Administration > Settings > Preferences > Record Purging > Server Statistics Expiration Age.
SPRT_EC_TEMP_FILE	This table is used to temporarily hold file contents when a file is being uploaded to Service Gateway.
SPRT_NC_ACS	This table contains a single record for each ACS discovered by the system. If these records are not restored they will automatically repopulate when the ACS servers are restarted and register with Service Gateway.
SPRT_NC_ACS_STATUS	This table contains a historical record for each time the ACS sends a status update to the application server. The length of time records are retained in SPRT_NC_ACS_STATUS is controlled by the value located at Administration > Settings > Preferences > Record Purging > ACS Statistics Expiration Age.
SPRT_NC_ACS_STATUS_ERROR	This table contains a historical record for each time the ACS needs to report an error to the application server.
SPRT_NC_ACS_STATUS_RUNTIME	This table contains a historical record for each time the ACS reports status on its running environment.
SPRT_NC_ACS_STATUS_TICKLE	This table contains a historical record for each time the ACS 'tickles' (initiates a connection request) a device.
SPRT_NC_CPE_FW_UPGRADE	This table serves two purposes. The first is to maintain state information while a firmware upgrade is taking place. After the upgrade is complete, the record is modified and persists as a historical record.
SPRT_NC_CWMP_DISCARDED_EVENT	This table contains a list of the events that are discarded by the Event Prioritization and/or Session Throttling features. This table is purged regularly to prevent it from growing too large, and contains data that is only used by reports to show the events that are being discarded.
SPRT_NC_CWMP_LAST_SESSION	This table keeps a historical log of the most recent time a device has been in contact with an ACS. This table is only populated if CWMP logging is enabled. CWMP logging may be toggled by going to Administration > Servers > CWMP and selecting the desired CWMP server and using the CWMP Data Collection checkbox.
SPRT_NC_CWMP_SESSION	This table contains a historical record for each time a device contacts an ACS. This table is only populated if CWMP logging is enabled. CWMP logging may be toggled by going to Administration > Servers > CWMP and selecting the desired CWMP server and using the CWMP Data Collection checkbox. The length of time records are retained in SPRT_NC_CWMP_SESSION is controlled by the value located at Administration > Settings > Preferences > Record Purging > ACS Statistics Expiration Age.
SPRT_NC_CWMP_SESSIONPARAM	This table contains a historical log of parameters contained in the INFORM event from a device. This table is only populated if CWMP logging is enabled. CWMP logging may be toggled by going to Administration > Servers > CWMP and selecting the desired CWMP server and using the CWMP Data Collection checkbox.

Table Name	Description
SPRT_NC_CWMP_SESSIONDETAIL	This table contains a historical log of metrics gathered on each CWMP transaction between an ACS and a device. This table is only populated if CWMP logging is enabled. CWMP logging may be toggled by going to Administration > Servers > CWMP and selecting the desired CWMP server and using the CWMP Data Collection checkbox.
SPRT_NC_DEVICERECORDING	This table contains logs of the XML transferred between an ACS and a device. This information is only logged if the ACS property ENABLE_XML_RECORDING is set to "true" and recording has been requested for a device. Note that this functionality is only available via the Java API.
SPRT_SG_ACT_CWMPGET_STATS	This table is not used, but is a pre-defined placeholder table to use with the CWMP Get for Database Storage workflow action.
SPRT_SG_CWMP_PCACHE	This table caches passwords and other parameters which have been read or written by Service Gateway. If this table is not restored, write only parameters such as WiFi or LAN Management passphrases may be lost.
SPRT_SG_CWMP_SNAPSHOT	This table contains a history of all snapshots taken by the parameter snapshot policy action.
SPRT_SG_CWMP_SNAPSHOT_PARAM	This table contains a history of all the parameters saved for each snapshot policy action that was executed.
SPRT_SG_POLICY_ACTION_HISTORY	This table contains a history record for each time a policy action was executed. The length of time records are retained in SPRT_SG_POLICY_DEVICE_HISTORY is controlled by the value located at Administration > Settings > Preferences > Record Purging > Policy History Expiration Age.
SPRT_SG_POLICY_DEVICE	This table holds a list of devices which are currently being processed by a policy.
SPRT_SG_POLICY_DEVICE_HISTORY	This table contains history record for each time a device was processed by a policy. The length of time records are retained in SPRT_SG_POLICY_DEVICE_HISTORY is controlled by the value located at Administration > Settings > Preferences > Record Purging > Policy History Expiration Age.

Chapter 3 Partitioning

Service Gateway contains several database tables which can grow very large if left unchecked. By default, there is a purging process that uses delete statements to purge records beyond a specified age. The rate these records are deleted can be tuned by controlling the interval between purging query executions and the maximum number of records removed by each execution. For larger systems, the records must be purged very aggressively so that the tables do not grow faster than they can be purged. This can be a balancing act and must occasionally be re-tuned. Constant execution of delete queries and the subsequent rebuilding of indexes causes extra load on the database and is generally an inefficient way to purge records from extremely large tables.

Oracle Enterprise Edition provides a solution to this issue in its table partitioning feature. This approach uses table partitioning to segment a table into time slices of one day. Each of these slices is called a partition. Partitioned tables behave the same way as regular Oracle tables when executing regular DML statements (insert, select, update and delete), but provide a very distinct advantage when it comes to purging a large number of records. Oracle has a "drop partition" statement which quickly removes a whole partition, i.e. a full day's worth of historical data at one time.

Please note that Oracle Table Partitioning is only available when using Oracle Enterprise Edition, which may require an additional license from Oracle.

Benefits of purging using table partitioning

- Delete large amounts of data very quickly
- Segment historical tables across multiple tablespaces
- Reduced load on the system

Permissions

In order for Service Gateway to use partitioning, the Oracle user must have the CREATE TABLE privilege. The Service Gateway installation guide recommends granting CONNECT role to the schema user when the product is first installed. Since the CREATE TABLE privilege is contained within the CONNECT role, no further action is required if CONNECT is already granted to the user.

User Interface

The Service Gateway user interface provides information on the state of partition based record purging. This information may be accessed via the top menu bar by navigating to:

Administration >> Settings >> Record Purging

This gives a user a view into some of the data contained in the SPRT_EC_RECORD_PURGING table, including the parent-child relationships between tables. There are only two fields which may be modified via the UI:

- Record Expiry (days) – The number of days worth of historical data to retain. This value can only be changed for a table of type PARTITION, and is not visible for types DELETE or REFERENCE.
- Tablespace Name – The name of the Oracle tablespace to be used when creating a new partition. This input box can be used in three ways
 - Left blank – The new partitions are created using the Oracle schema's default tablespace
 - Standard text – The new partitions are created in the tablespace specified by this text
 - Velocity script – The new partitions are created in the tablespace specified by the evaluated velocity script. This allows for partitions to be created in different tablespaces (e.g., per day of week, per week of month, round-robin, etc..)

The Partitions tab on this screen can be used to query Oracle and get a report on all the partitions for a given table. On this screen, a user can see all the historical, current and future partitions which are defined in the

system, as well as the number of records in each of these partitions. Please note that the number of records for a partition is only available and accurate after Oracle's stats gathering job has run.

Supported Tables

The following tables are supported for purging using the partition purging mechanism:

Table name	Supported Partition Type	Partition Name Format*
SPRT_EC_AUDIT_LOG	Date-range	AUDIT_LOG_YYYYMMDD
SPRT_NC_ACS_STATUS	Date-range	ACS_STATUS_YYYYMMDD
SPRT_NC_ACS_STATUS_ERROR	Reference	
SPRT_NC_ACS_STATUS_RUNTIME	Reference	
SPRT_NC_ACS_STATUS_TICKLE	Reference	
SPRT_NC_CWMP_SESSION	Date-range	CWMP_SESSION_YYYYMMDD
SPRT_NC_CWMP_SESSIONDETAIL	Date-range or Reference	CWMP_SESSIONDETAIL_YYYYMMDD
SPRT_NC_CWMP_SESSIONPARAM	Date-range or Reference	CWMP_SESSIONPARAMS_YYYYMMDD
SPRT_NC_CWMP_LAST_SESSION	Reference	
SPRT_SG_POLICY_ACTION_HISTORY	Date-range	POLICY_ACTION_HISTORY_YYYYMMDD
SPRT_SG_POLICY_DEVICE_HISTORY	Date-range	POLICY_DEVICE_HISTORY_YYYYMMDD

* Partition names are only specified for Date-range partitions. Reference partitions inherit the name from the partition they reference.

Migrating to Partition Based Purging

Partition based purging will not be automatically enabled when upgrading an existing deployment to 4.3.1. Partition based purging can be turned on anytime in the future, for just a subset of tables, or all at once. There is a manual process involving the following steps:

1. Shut down the system
2. Convert the tables from normal to partitioned tables
3. Add historical partitions to the tables
4. Disable the query based purging
5. Enable the partition based purging for the tables
6. Re-start the system

Converting a table

The standard table definitions used by Service Gateway do not allow for table partitioning. Each table to be partitioned will need to be converted from a standard table to a partitioned table. The process to do this is as follows:

1. Drop any indexes, keys, or triggers related to the table that is to be partitioned (table A)
2. Create a new table (table B) with the same columns as table A, but also containing the PARTITION BY statement

3. Swap the contents of the table using "Alter table A exchange partition with table B" syntax
4. Drop table A
5. Rename table B to table A
6. Re-add any indexes, keys, or triggers which were dropped in step 1.

Scripts to convert existing tables can be found in the Appendix A of this document.

Adding historical partitions to a table

After a table has been converted, it only contains one partition – the "default partition". It is suggested that the initial set of partitions be manually created so that the existing records are sliced up by day, and can be purged incrementally (day by day). For example, if 60 days of historical data should be maintained, 60 historical partitions should be created using oracle's "ALTER TABLE SPLIT PARTITION" syntax.

To achieve this, the default partition must have a new partition split from it. In turn, this new partition gets split, and this process carries on until the number of days is reached. Following is an example of how to split SPRT_EC_AUDIT_LOG when that table only has the default partition (AUDIT_LOG_99991231):

```
ALTER TABLE SPRT_EC_AUDIT_LOG SPLIT PARTITION AUDIT_LOG_99991231 at (to_date('20110214
23:59:59','yyyymmdd HH24:MI:SS')) into (partition AUDIT_LOG_20110214, partition AUDIT_LOG_
99991231) UPDATE GLOBAL INDEXES;
ALTER TABLE SPRT_EC_AUDIT_LOG SPLIT PARTITION AUDIT_LOG_20110214 at (to_date('20110213
23:59:59','yyyymmdd HH24:MI:SS')) into (partition AUDIT_LOG_20110213, partition AUDIT_LOG_
20110214) UPDATE GLOBAL INDEXES;
ALTER TABLE SPRT_EC_AUDIT_LOG SPLIT PARTITION AUDIT_LOG_20110213 at (to_date('20110212
23:59:59','yyyymmdd HH24:MI:SS')) into (partition AUDIT_LOG_20110212, partition AUDIT_LOG_
20110213) UPDATE GLOBAL INDEXES;
...
```

Appendix C contains a Perl script as a starting point to help generate the DDL statements needed to create the historical partitions. Note that any tables using reference partitioning will automatically be partitioned based on the partitions of its parent, and manually adding historical partitions is not necessary.

This is a one-time exercise. All future partitions will be created automatically.

If this step is skipped, all records existing at the time the table was converted to a partitioned table will be in the default partition. When future partitions are automatically created, they will fall into the following day's partition and be retained until that day is purged (e.g. after 60 days).

Disable Query Based Purging

The existing purging mechanism based on delete queries is enabled by default for all historical tables. For any tables that will use partition based purging, the query based mechanism should be disabled. This is accomplished by removing records from the SPRT_EC_RECORD_PURGING table using the following query:

```
DELETE FROM SPRT_EC_RECORD_PURGING WHERE GUID='<GUID to delete>';
```

The GUID to delete can be taken from the following table:

When enabling partition purging on ... Delete this GUID

SPRT_EC_AUDIT_LOG 84a7f0e8-2b32-11dc-9bba-85be3f64db08

SPRT_NC_ACS_STATUS c5254156-f531-4cc8-a21f-d14911ac45d1

SPRT_NC_CWMP_SESSION 45d6ad02-5112-493e-ac97-482ddb4fb496

SPRT_SG_POLICY_ACTION_HISTORY fc95ce44-2214-47d7-a13b-0800200c9a66

SPRT_SG_POLICY_DEVICE_HISTORY 8e842399-e929-4cc8-91dd-0800200c9a66

Enabling Partition Based Purging

As of Service Gateway 4.2, there is a table that holds information about tables being purged using oracle partitions. The `SPRT_EC_PARTITION_PURGING` table contains information on the tables using partitioning, the number of days to keep, the tablespace for the partition and whether or not purging is enabled for a given table.

The `STATUS` column must be manually set to "ENABLED" or "DISABLED" to turn partition purging on or off. This is intentionally not available via the User Interface, as other DBA activity is required to make this change. For sets of tables with parent-child relationships, when enabling a parent table, all child tables must also be enabled, or the parent table will not be purged. The relationships between tables can be seen within the user interface.

Specifically, when enabling `SPRT_NC_CWMP_SESSION`, also enable:

- `SPRT_NC_CWMP_SESSIONPARAM`
- `SPRT_NC_CWMP_SESSIONDETAIL`
- `SPRT_NC_CWMP_LAST_SESSION`

When enabling `SPRT_NC_ACS_STATUS`, also enable:

- `SPRT_NC_ACS_STATUS_ERROR`
- `SPRT_NC_ACS_STATUS_RUNTIME`
- `SPRT_NC_ACS_STATUS_TICKLE`

If using Reference Partitioning available in Oracle 11g to partition any tables, `SPRT_EC_PARTITION_PURGING` must have the `PURGE_TYPE` column set to 'REFERENCE', and the `DELETE_QUERY` column set to NULL.

Indexes

There are two options when creating indexes on partitioned tables - Global and Local. Both types of indexes have their strengths and weaknesses as outlined below.

Global

Global indexes are supported from Service Gateway 4.2 onward.

Using global indexes with the "update global indexes" clause on the alter table statement, Oracle guarantees that the index will stay online in a useable state throughout the operation. Any other sessions using the table will neither be blocked nor suffer because the index cannot be used. Because a global index encompasses data in all partitions, a performance hit may occur when updating it after a partition is dropped. As with most Oracle operations, the temporary degradation depends on the speed and configuration of the server and the amount of data in the table which had the dropped partition.

Local

Local indexes are supported as of Service Gateway 4.2.3.

Upon defining a local index, Oracle actually creates a separate index for exactly one partition of the table. This enables Oracle to automatically keep the index partitions in sync with the table partitions, and makes each table-index pair independent. Any actions that make one partition's data invalid or unavailable only affect a single partition. Because each index is local to the partition, a local index may become unusable during some partition operations, such as a split. This requires a second statement to be executed to rebuild the index. Until the index is rebuilt, the index is in an UNUSABLE state and queries on the table may revert to full table scans. It is worth noting that local indexes might improve performance in some situations because Oracle's optimizer might choose to access the partition indexes in parallel.

Local indexes can also pose a problem when dealing with primary keys. A primary key can only be defined as local if one of the columns in the key is a column which is partitioned. The primary keys used by Service Gateway do not include the partitioned column by default, so additional schema changes must be made if the user wishes to make these local indexes.

Automatic Partition Management

Service Gateway automatically creates future partitions and drops old partitions, thus maintaining a rolling set of partitions per table. This analysis is very quick and happens every 15 minutes by default. If desired, this activity may be constrained to a specific window of time each day using the following new system preferences:

- Partition Purging Maintenance Window Start Time (hh:mm)
- Partition Purging Maintenance Window Duration (minutes)

Addition of future partitions to a table

When a record is added to a table which is partitioned, Oracle looks through its list of partition rules and attempts to find a partition which corresponds to the current date. Service Gateway must ensure that future partitions are available for new records, so that when the clock rolls past midnight and the date changes, the partition is already present. To ensure this is the case, Service Gateway creates partitions for the next five calendar days.

If a partition for a given day already exists, such as if it was created manually, SG will leave the partition as is, and only attempt to create partitions beyond that date.

If for some reason a specific partition does not exist, records will be added to the table's "default partition." The default partition is created when the table is first partitioned, and it has a date of Dec 31, 9999, 23:59:59. This means that if Service Gateway tries to use a time which is more than 5 days in the future, or if something has prevented the partitions from being created, there will still be a partition to hold the data. The record will not be lost. If everything is functioning properly, this default partition should never contain any data except during the initial conversion.

If records are entered into this default partition, they will be automatically moved into the correct partition when it is created.

Automatic dropping of old partitions from a table

Once a partition has reached a certain age, as specified by the Record Expiry (days) setting, Service Gateway will drop the partition. This is a very quick operation that happens almost instantaneously. If the table has any child tables (other tables which have a foreign key constraint to the current table), those tables will be purged first. Depending on the table, this may involve dropping the matching partition of the child table, or executing a delete statement on the child table. This ensures that any records in the child table that might be referencing the parent table have been removed, so that a constraint violation will not occur.

Before dropping a partition, any constraints that would inhibit the operation are disabled, and then re-enabled after the partition is dropped.

If there is more than one partition to be dropped, such as when the Record Expiry (days) settings is decreased, then all eligible partitions will be dropped at once.

Conversely, if the Record Expiry (days) has been increased for a table, then no partitions will be dropped until the oldest one has reached the new expiry age.

Foreign Key Changes (Oracle 10g only)

The foreign keys in to the SPRT_NC_CWMP_SESSION and SPRT_NC_ACS_STATUS tables were originally created so that Service Gateway's legacy purging job could remove records using Oracle's "cascade" syntax. These tables are now purged individually with the partition purging job and the foreign keys no longer serve a

useful purpose. If they are not removed, Service Gateway must contend with disabling and enabling them during partition management. If the database is heavily loaded, it is possible that an ORA-00054 error (something else is locking the object you wish to modify) may occur. For these reasons, the re-addition of certain foreign keys is omitted after a table is switched from legacy purging to partition purging. The following foreign keys are not re-added:

- SPRT_NC_CWMP_LAST_SESS_FK2
- SPRT_NC_CWMP_SESSPARAM_FK1
- SPRT_NC_CWMP_SESSNDTL_FK1
- SPRT_NC_ACS_STATUS_ERROR_FK1
- FK_SPRT_NC_ACS_STATUS_RT_1
- SPRT_NC_ACS_STATUS_TICKLE_FK1

Logging

Service Gateway will log messages to Encore.log when an action surrounding partitioning is performed.

- "Future" partition created
- Partition dropped, showing the number of records removed
- Critical error if default partition is missing
- Foreign key disabled
- Foreign key enabled
- Velocity script errors

SQL to partition existing tables in Oracle 10g

Following is the SQL code will convert all supported tables to partitioned tables when using Oracle 10g

SPRT_EC_AUDIT_LOG

```
DROP INDEX SPRT_EC_AUDIT_LOG_IDX1;
DROP INDEX SPRT_EC_AUDIT_LOG_IDX2;
DROP INDEX SPRT_EC_AUDIT_LOG_IDX3;
DROP INDEX SPRT_EC_AUDIT_LOG_IDX4;
DROP INDEX SPRT_EC_AUDIT_LOG_IDX5;

ALTER TABLE SPRT_EC_AUDIT_LOG DROP CONSTRAINT SPRT_EC_AUDIT_LOG_PK;
CREATE TABLE PSPRT_EC_AUDIT_LOG (
  GUID varchar2(36) DEFAULT rawtohex(sys_guid()) NOT NULL,
  SRC_IP varchar2(16) DEFAULT NULL NULL,
  OP_TYPE char(1) NOT NULL,
  DESCR nvarchar2(4000) DEFAULT NULL NULL,
  OBJ_ID number(9) DEFAULT NULL NULL,
  OBJ_GUID varchar2(36) DEFAULT NULL NULL,
  OBJ_TYPE varchar2(32) DEFAULT NULL NULL,
  OBJ_DESCR nvarchar2(100) DEFAULT NULL NULL,
  REFOBJ_ID number(9) DEFAULT NULL NULL,
  REFOBJ_GUID varchar2(36) DEFAULT NULL NULL,
  REFOBJ_TYPE varchar2(32) DEFAULT NULL NULL,
```

```

REFOBJ_DESCR nvarchar2(100) DEFAULT NULL NULL,
CREATED date DEFAULT SYSDATE NOT NULL,
CREATED_BY nvarchar2(32) NOT NULL)
PARTITION BY RANGE (created) (
PARTITION AUDIT_LOG_99991231 VALUES LESS THAN (to_date('99991231 23:59:59','yyyymmdd
HH24:MI:SS')));

ALTER TABLE PSPRT_EC_AUDIT_LOG
EXCHANGE PARTITION AUDIT_LOG_99991231
WITH TABLE SPRT_EC_AUDIT_LOG
WITHOUT VALIDATION
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_EC_AUDIT_LOG;
RENAME PSPRT_EC_AUDIT_LOG TO SPRT_EC_AUDIT_LOG;

```

Recreate indexes as Global

```

CREATE INDEX SPRT_EC_AUDIT_LOG_IDX1 ON SPRT_EC_AUDIT_LOG (OP_TYPE);
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX2 ON SPRT_EC_AUDIT_LOG (OBJ_TYPE);
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX3 ON SPRT_EC_AUDIT_LOG (REFOBJ_TYPE);
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX4 ON SPRT_EC_AUDIT_LOG (CREATED);
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX5 ON SPRT_EC_AUDIT_LOG (CREATED_BY);
ALTER TABLE SPRT_EC_AUDIT_LOG ADD CONSTRAINT SPRT_EC_AUDIT_LOG_PK PRIMARY KEY (GUID);

```

Recreate indexes as Local

```

CREATE INDEX SPRT_EC_AUDIT_LOG_IDX1 ON SPRT_EC_AUDIT_LOG (OP_TYPE) LOCAL;
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX2 ON SPRT_EC_AUDIT_LOG (OBJ_TYPE) LOCAL;
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX3 ON SPRT_EC_AUDIT_LOG (REFOBJ_TYPE) LOCAL;
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX4 ON SPRT_EC_AUDIT_LOG (CREATED) LOCAL;
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX5 ON SPRT_EC_AUDIT_LOG (CREATED_BY) LOCAL;
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX6 ON SPRT_EC_AUDIT_LOG (GUID) LOCAL;

```

SPRT_SG_POLICY_ACTION_HISTORY

```

DROP INDEX SPRT_SG_POLICY_ACT_HIST_IDX1;
DROP INDEX SPRT_SG_POLICY_ACT_HIST_IDX2;
DROP INDEX SPRT_SG_POLICY_ACT_HIST_IDX3;
DROP INDEX SPRT_SG_POLICY_ACT_HIST_IDX4;
DROP INDEX SPRT_SG_POLICY_ACT_HIST_IDX5;
ALTER TABLE SPRT_SG_POLICY_ACTION_HISTORY DROP CONSTRAINT SPRT_SG_POL_ACT_HIST_PK;

CREATE TABLE PSPRT_SG_POLICY_ACTION_HISTORY (
GUID varchar2(36) DEFAULT rawtohex(sys_guid()) NOT NULL,
SG_POLICY_ACTION_GUID varchar2(36) NULL,
SG_POLICY_EXEC_HISTORY_GUID varchar2(36) NULL,
SG_POLICY_DEV_HISTORY_GUID varchar2(36) NULL,
ACTION_NAME nvarchar2(256) NOT NULL,
ACTION_NAME_TOKEN nvarchar2(256) NULL,
ACTION_EXEC_START_TIME date NULL,
ACTION_EXEC_END_TIME date NULL,
ACTION_TRIGGER varchar2(32) NOT NULL,
RESULT_CODE number(9) NULL,
WORKFLOW varchar2(32) NULL,

```

```

MESSAGE varchar2(1024) NULL,
CREATED date DEFAULT SYSDATE NOT NULL,
CREATED_BY nvarchar2(32) NOT NULL,
MODIFIED date DEFAULT SYSDATE NOT NULL,
MODIFIED_BY nvarchar2(32) NOT NULL,
ORDINAL number(5) NOT NULL,
IN_PROGRESS char(1) DEFAULT 'N' NOT NULL,
retry number(9) DEFAULT 0 NOT NULL)
PARTITION BY RANGE (created) (
PARTITION POLICY_ACTION_HISTORY_99991231 VALUES LESS THAN (to_date('99991231
23:59:59','yyyymmdd HH24:MI:SS')));

ALTER TABLE PSPRT_SG_POLICY_ACTION_HISTORY
EXCHANGE PARTITION POLICY_ACTION_HISTORY_99991231
WITH TABLE SPRT_SG_POLICY_ACTION_HISTORY
WITHOUT VALIDATION
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_SG_POLICY_ACTION_HISTORY;
RENAME PSPRT_SG_POLICY_ACTION_HISTORY TO SPRT_SG_POLICY_ACTION_HISTORY;

```

Recreate Indexes as Global

```

CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX1 ON SPRT_SG_POLICY_ACTION_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID,ACTION_EXEC_START_TIME);
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX2 ON SPRT_SG_POLICY_ACTION_HISTORY (SG_POLICY_DEV_
HISTORY_GUID);
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX3 ON SPRT_SG_POLICY_ACTION_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID);
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX4 ON SPRT_SG_POLICY_ACTION_HISTORY (ACTION_EXEC_
START_TIME);
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX5 ON SPRT_SG_POLICY_ACTION_HISTORY (IN_
PROGRESS,TO_CHAR(ACTION_EXEC_START_TIME,'YYYY-MM-DD HH24:MI:SS'));
ALTER TABLE SPRT_SG_POLICY_ACTION_HISTORY ADD CONSTRAINT SPRT_SG_POL_ACT_HIST_PK PRIMARY
KEY (GUID);

```

Recreate Indexes as Local

```

CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX1 ON SPRT_SG_POLICY_ACTION_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID,ACTION_EXEC_START_TIME) LOCAL;
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX2 ON SPRT_SG_POLICY_ACTION_HISTORY (SG_POLICY_DEV_
HISTORY_GUID) LOCAL;
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX3 ON SPRT_SG_POLICY_ACTION_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID) LOCAL;
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX4 ON SPRT_SG_POLICY_ACTION_HISTORY (ACTION_EXEC_
START_TIME) LOCAL;
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX5 ON SPRT_SG_POLICY_ACTION_HISTORY (IN_
PROGRESS,TO_CHAR(ACTION_EXEC_START_TIME,'YYYY-MM-DD HH24:MI:SS')) LOCAL;
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX6 ON SPRT_SG_POLICY_ACTION_HISTORY (GUID) LOCAL;

```

SPRT_SG_POLICY_DEVICE_HISTORY

```

DROP INDEX SPRT_SG_POLICY_DEV_HIST_IDX1;
DROP INDEX SPRT_SG_POLICY_DEV_HIST_IDX2;
DROP INDEX SPRT_SG_POLICY_DEV_HIST_IDX3;
DROP INDEX SPRT_SG_POLICY_DEV_HIST_IDX4;
DROP INDEX SPRT_SG_POLICY_DEV_HIST_IDX5;

```

```

DROP INDEX SPRT_SG_POLICY_DEV_HIST_IDX6;
DROP INDEX SPRT_SG_POLICY_DEV_HIST_IDX7;
DROP INDEX SPRT_SG_POLICY_DEV_HIST_IDX8;
ALTER TABLE SPRT_SG_POLICY_DEVICE_HISTORY DROP CONSTRAINT SPRT_SG_POL_DEV_HIST_PK;

CREATE TABLE PSPRT_SG_POLICY_DEVICE_HISTORY (
  GUID varchar2(36) DEFAULT rawtohex(sys_guid()) NOT NULL,
  SG_POLICY_EXEC_HISTORY_GUID varchar2(36) NOT NULL,
  SG_POLICY_DEVICE_GUID varchar2(36) NULL,
  UNIQUE_ID_STRING nvarchar2(128) NOT NULL,
  IP_ADDRESS varchar2(39),
  EXECUTION_START_TIME date NULL,
  EXECUTION_END_TIME date NULL,
  EXECUTION_TRIGGER varchar2(32) NULL,
  STATUS varchar2(32) NOT NULL,
  MESSAGE varchar2(1024) NULL,
  EVENT_DETAIL clob NULL,
  CREATED date DEFAULT SYSDATE NOT NULL,
  CREATED_BY nvarchar2(32) NOT NULL,
  MODIFIED date DEFAULT SYSDATE NOT NULL,
  MODIFIED_BY nvarchar2(32) NOT NULL)
PARTITION BY RANGE (created) (
  PARTITION POLICY_DEVICE_HISTORY_99991231 VALUES LESS THAN (to_date('99991231
23:59:59','yyyymmdd HH24:MI:SS')));

ALTER TABLE PSPRT_SG_POLICY_DEVICE_HISTORY
EXCHANGE PARTITION POLICY_DEVICE_HISTORY_99991231
WITH TABLE SPRT_SG_POLICY_DEVICE_HISTORY
WITHOUT VALIDATION
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_SG_POLICY_DEVICE_HISTORY;
RENAME PSPRT_SG_POLICY_DEVICE_HISTORY TO SPRT_SG_POLICY_DEVICE_HISTORY;

```

Recreate Indexes as Global

```

CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX1 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID,CREATED);
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX2 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID,UNIQUE_ID_STRING);
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX3 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID,EXECUTION_END_TIME);
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX4 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID);
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX5 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
DEVICE_GUID);
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX6 ON SPRT_SG_POLICY_DEVICE_HISTORY (STATUS);
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX7 ON SPRT_SG_POLICY_DEVICE_HISTORY (EXECUTION_END_
TIME);
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX8 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
DEVICE_GUID,STATUS);
ALTER TABLE SPRT_SG_POLICY_DEVICE_HISTORY ADD CONSTRAINT SPRT_SG_POL_DEV_HIST_PK PRIMARY
KEY (GUID);

```


Recreate Indexes as Local

```

CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX1 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID,CREATED) LOCAL;
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX2 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID,UNIQUE_ID_STRING) LOCAL;
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX3 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID,EXECUTION_END_TIME) LOCAL;
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX4 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID) LOCAL;
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX5 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
DEVICE_GUID) LOCAL;
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX6 ON SPRT_SG_POLICY_DEVICE_HISTORY (STATUS) LOCAL;
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX7 ON SPRT_SG_POLICY_DEVICE_HISTORY (EXECUTION_END_
TIME) LOCAL;
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX8 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
DEVICE_GUID,STATUS) LOCAL;
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX9 ON SPRT_SG_POLICY_DEVICE_HISTORY (GUID) LOCAL;

```

SPRT_NC_CWMP_SESSION

```

DROP INDEX SPRT_NC_CWMP_SESSION_IDX1;
DROP INDEX SPRT_NC_CWMP_SESSION_IDX2;
DROP INDEX SPRT_NC_CWMP_SESSION_IDX3;
ALTER TABLE SPRT_NC_CWMP_LAST_SESSION DROP CONSTRAINT SPRT_NC_CWMP_LAST_SESS_FK2;
ALTER TABLE SPRT_NC_CWMP_SESSIONDETAIL DROP CONSTRAINT SPRT_NC_CWMP_SESSNDTL_FK1;
ALTER TABLE SPRT_NC_CWMP_SESSIONPARAM DROP CONSTRAINT SPRT_NC_CWMP_SESSPARAM_FK1;
ALTER TABLE SPRT_NC_CWMP_SESSION DROP CONSTRAINT SPRT_NC_CWMP_SESSION_PK;
ALTER TABLE SPRT_NC_CWMP_SESSION DROP CONSTRAINT SPRT_NC_CWMP_SESSION_FK1;
ALTER TABLE SPRT_NC_CWMP_SESSION DROP CONSTRAINT SPRT_NC_CWMP_SESSION_FK2;

CREATE TABLE PSPRT_NC_CWMP_SESSION (
  GUID varchar2(36) NOT NULL,
  NC_ACS_GUID varchar2(36) NOT NULL,
  NC_CPE_GUID varchar2(36) NOT NULL,
  INFORM_TYPE varchar2(1024) NULL,
  START_TIME date NOT NULL,
  END_TIME date NULL,
  CREATED date NOT NULL)
PARTITION BY RANGE (created) (
PARTITION CWMP_SESSION_99991231 VALUES LESS THAN (to_date('99991231 23:59:59','yyyymmdd
HH24:MI:SS')));

ALTER TABLE PSPRT_NC_CWMP_SESSION
EXCHANGE PARTITION CWMP_SESSION_99991231
WITH TABLE SPRT_NC_CWMP_SESSION
WITHOUT VALIDATION
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_NC_CWMP_SESSION;
RENAME PSPRT_NC_CWMP_SESSION TO SPRT_NC_CWMP_SESSION;

```

Recreate Indexes as Global

```

CREATE INDEX SPRT_NC_CWMP_SESSION_IDX1 ON SPRT_NC_CWMP_SESSION (NC_ACS_GUID);

```

```

CREATE INDEX SPRT_NC_CWMP_SESSION_IDX2 ON SPRT_NC_CWMP_SESSION (NC_CPE_GUID);
CREATE INDEX SPRT_NC_CWMP_SESSION_IDX3 ON SPRT_NC_CWMP_SESSION (START_TIME);
ALTER TABLE SPRT_NC_CWMP_SESSION ADD CONSTRAINT SPRT_NC_CWMP_SESSION_PK PRIMARY KEY
(GUID);
ALTER TABLE SPRT_NC_CWMP_SESSION ADD CONSTRAINT SPRT_NC_CWMP_SESSION_FK1 FOREIGN KEY ( NC_
ACS_GUID )
REFERENCES SPRT_NC_ACS ( GUID ) ON DELETE CASCADE;
ALTER TABLE SPRT_NC_CWMP_SESSION ADD CONSTRAINT SPRT_NC_CWMP_SESSION_FK2 FOREIGN KEY ( NC_
CPE_GUID )
REFERENCES SPRT_NC_CPE ( NC_CPE_GUID ) ON DELETE CASCADE;

```

Recreate Indexes as Local

```

CREATE INDEX SPRT_NC_CWMP_SESSION_IDX1 ON SPRT_NC_CWMP_SESSION (NC_ACS_GUID) LOCAL;
CREATE INDEX SPRT_NC_CWMP_SESSION_IDX2 ON SPRT_NC_CWMP_SESSION (NC_CPE_GUID) LOCAL;
CREATE INDEX SPRT_NC_CWMP_SESSION_IDX3 ON SPRT_NC_CWMP_SESSION (START_TIME) LOCAL;
CREATE INDEX SPRT_NC_CWMP_SESSION_IDX4 ON SPRT_NC_CWMP_SESSION (GUID) LOCAL;
ALTER TABLE SPRT_NC_CWMP_SESSION ADD CONSTRAINT SPRT_NC_CWMP_SESSION_FK1 FOREIGN KEY ( NC_
ACS_GUID ) REFERENCES SPRT_NC_ACS ( GUID ) ON DELETE CASCADE;
ALTER TABLE SPRT_NC_CWMP_SESSION ADD CONSTRAINT SPRT_NC_CWMP_SESSION_FK2 FOREIGN KEY ( NC_
CPE_GUID ) REFERENCES SPRT_NC_CPE ( NC_CPE_GUID ) ON DELETE CASCADE;

```

SPRT_NC_CWMP_SESSIONDETAIL

Important: SPRT_NC_CWMP_SESSION must be partitioned prior to partitioning this table.

```

DROP INDEX SPRT_NC_CWMP_SESSNDTL_IDX1;
DROP INDEX SPRT_NC_CWMP_SESSNDTL_IDX2;
DROP TRIGGER SPRT_NC_CWMP_SESSIONDETAIL_BIR;
ALTER TABLE SPRT_NC_CWMP_SESSIONDETAIL DROP CONSTRAINT SPRT_NC_CWMP_SESSNDTL_PK;
ALTER TABLE SPRT_NC_CWMP_SESSIONDETAIL DROP CONSTRAINT SPRT_NC_CWMP_SESSNDTL_FK2;

CREATE TABLE PSPRT_NC_CWMP_SESSIONDETAIL (
  ID number(12) NOT NULL,
  NC_CWMP_SESSION_GUID varchar2(36) NOT NULL,
  NC_ACS_GUID varchar2(36) NOT NULL,
  REQUEST_EVENT varchar2(32) NULL,
  RESPONSE_EVENT varchar2(32) NULL,
  HTTP_PARSE_TIME number(9) NULL,
  SOAP_PARSE_TIME number(9) NULL,
  COUNT_RMI_CALLS number(4) NULL,
  RMI_CALL_TIME number(9) NULL,
  TOTAL_TIME number(9) NULL,
  PARENT_CREATED date NOT NULL)
PARTITION BY RANGE (parent_created) (
  PARTITION CWMP_SESSIONDETAIL_99991231 VALUES LESS THAN (to_date('99991231
23:59:59','yyyymmdd HH24:MI:SS')));

ALTER TABLE PSPRT_NC_CWMP_SESSIONDETAIL
EXCHANGE PARTITION CWMP_SESSIONDETAIL_99991231
WITH TABLE SPRT_NC_CWMP_SESSIONDETAIL
WITHOUT VALIDATION
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_NC_CWMP_SESSIONDETAIL;
RENAME PSPRT_NC_CWMP_SESSIONDETAIL TO SPRT_NC_CWMP_SESSIONDETAIL;

```

Recreate Indexes as Global

```
CREATE INDEX SPRT_NC_CWMP_SESSNDTL_IDX1 ON SPRT_NC_CWMP_SESSIONDETAIL (NC_CWMP_SESSION_
GUID);
CREATE INDEX SPRT_NC_CWMP_SESSNDTL_IDX2 ON SPRT_NC_CWMP_SESSIONDETAIL (NC_ACS_GUID);
ALTER TABLE SPRT_NC_CWMP_SESSIONDETAIL ADD CONSTRAINT SPRT_NC_CWMP_SESSNDTL_PK PRIMARY KEY
(ID);
ALTER TABLE SPRT_NC_CWMP_SESSIONDETAIL ADD CONSTRAINT SPRT_NC_CWMP_SESSNDTL_FK2 FOREIGN
KEY ( NC_ACS_GUID ) REFERENCES SPRT_NC_ACS ( GUID );
CREATE OR REPLACE TRIGGER SPRT_NC_CWMP_SESSIONDETAIL_BIR
BEFORE INSERT ON SPRT_NC_CWMP_SESSIONDETAIL
FOR EACH ROW
BEGIN
IF :NEW.ID IS NULL THEN
SELECT SPRT_NC_CWMP_SESSIONDETAIL_SEQ.NEXTVAL INTO :NEW.ID FROM DUAL;
END IF;
END;
/
```

Recreate Indexes as Local

```
CREATE INDEX SPRT_NC_CWMP_SESSNDTL_IDX1 ON SPRT_NC_CWMP_SESSIONDETAIL (NC_CWMP_SESSION_
GUID) LOCAL;
CREATE INDEX SPRT_NC_CWMP_SESSNDTL_IDX2 ON SPRT_NC_CWMP_SESSIONDETAIL (NC_ACS_GUID) LOCAL;
CREATE INDEX SPRT_NC_CWMP_SESSNDTL_IDX3 ON SPRT_NC_CWMP_SESSIONDETAIL (ID) LOCAL;
ALTER TABLE SPRT_NC_CWMP_SESSIONDETAIL ADD CONSTRAINT SPRT_NC_CWMP_SESSNDTL_FK2 FOREIGN
KEY ( NC_ACS_GUID ) REFERENCES SPRT_NC_ACS ( GUID );
CREATE OR REPLACE TRIGGER SPRT_NC_CWMP_SESSIONDETAIL_BIR
BEFORE INSERT ON SPRT_NC_CWMP_SESSIONDETAIL
FOR EACH ROW
BEGIN
IF :NEW.ID IS NULL THEN
SELECT SPRT_NC_CWMP_SESSIONDETAIL_SEQ.NEXTVAL INTO :NEW.ID FROM DUAL;
END IF;
END;
/
```

SPRT_NC_CWMP_SESSIONPARAM

Important: SPRT_NC_CWMP_SESSION must be partitioned prior to partitioning this table.

```
DROP INDEX SPRT_NC_CWMP_SESSPARAM_IDX2;
ALTER TABLE SPRT_NC_CWMP_SESSIONPARAM DROP CONSTRAINT SPRT_NC_CWMP_SESSPARAM_PK;

CREATE TABLE PSPRT_NC_CWMP_SESSIONPARAM (
GUID varchar2(36) NOT NULL,
NC_CWMP_SESSION_GUID varchar2(36) NOT NULL,
NAME varchar2(256) NOT NULL,
VALUE nvarchar2(1000) NULL,
PARENT_CREATED date NOT NULL)
PARTITION BY RANGE (parent_created) (
PARTITION CWMP_SESSIONPARAM_99991231 VALUES LESS THAN (to_date('99991231
23:59:59','yyyymmdd HH24:MI:SS')));

ALTER TABLE PSPRT_NC_CWMP_SESSIONPARAM
```

```

EXCHANGE PARTITION CWMP_SESSIONPARAM_99991231
WITH TABLE SPRT_NC_CWMP_SESSIONPARAM
WITHOUT VALIDATION
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_NC_CWMP_SESSIONPARAM;
RENAME PSPRT_NC_CWMP_SESSIONPARAM TO SPRT_NC_CWMP_SESSIONPARAM;

```

Recreate Indexes as Global

```

CREATE INDEX SPRT_NC_CWMP_SESSPARAM_IDX1 ON SPRT_NC_CWMP_SESSIONPARAM (GUID);
CREATE INDEX SPRT_NC_CWMP_SESSPARAM_IDX2 ON SPRT_NC_CWMP_SESSIONPARAM (NC_CWMP_SESSION_
GUID);

```

Recreate Indexes as Local

```

CREATE INDEX SPRT_NC_CWMP_SESSPARAM_IDX1 ON SPRT_NC_CWMP_SESSIONPARAM (GUID) LOCAL;
CREATE INDEX SPRT_NC_CWMP_SESSPARAM_IDX2 ON SPRT_NC_CWMP_SESSIONPARAM (NC_CWMP_SESSION_
GUID) LOCAL;

```

SPRT_NC_ACS_STATUS

Please note that there it is not possible to create the primary key for this table using a Local Index. Other indexes on this table may be created as Local.

```

DROP INDEX IX_SPRT_NC_ACS_STATUS_1;
DROP INDEX IX_SPRT_NC_ACS_STATUS_2;
ALTER TABLE SPRT_NC_ACS_STATUS DROP CONSTRAINT FK_SPRT_NC_ACS_STATUS_1;
ALTER TABLE SPRT_NC_ACS_STATUS_ERROR DROP CONSTRAINT SPRT_NC_ACS_STATUS_ERROR_FK1;
ALTER TABLE SPRT_NC_ACS_STATUS_RUNTIME DROP CONSTRAINT FK_SPRT_NC_ACS_STATUS_RT_1;
ALTER TABLE SPRT_NC_ACS_STATUS_TICKLE DROP CONSTRAINT SPRT_NC_ACS_STATUS_TICKLE_FK1;
ALTER TABLE SPRT_NC_ACS_STATUS DROP CONSTRAINT SPRT_NC_ACS_STATUS_PK;

CREATE TABLE PSPRT_NC_ACS_STATUS (
  GUID varchar2(36) NOT NULL,
  NC_ACS_GUID varchar2(36) NOT NULL,
  STATUS_TIMESTAMP date NOT NULL,
  STATUS_TYPE varchar2(16) NOT NULL)
PARTITION BY RANGE (status_timestamp) (
  PARTITION ACS_STATUS_99991231 VALUES LESS THAN (to_date('99991231 23:59:59','yyyymmdd
HH24:MI:SS')));

ALTER TABLE PSPRT_NC_ACS_STATUS
EXCHANGE PARTITION ACS_STATUS_99991231
WITH TABLE SPRT_NC_ACS_STATUS
WITHOUT VALIDATION
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_NC_ACS_STATUS;
RENAME PSPRT_NC_ACS_STATUS TO SPRT_NC_ACS_STATUS;

```

Recreate Indexes as Global

```

CREATE INDEX IX_SPRT_NC_ACS_STATUS_1 ON SPRT_NC_ACS_STATUS (STATUS_TIMESTAMP);
CREATE INDEX IX_SPRT_NC_ACS_STATUS_2 ON SPRT_NC_ACS_STATUS (NC_ACS_GUID);
ALTER TABLE SPRT_NC_ACS_STATUS ADD CONSTRAINT SPRT_NC_ACS_STATUS_PK PRIMARY KEY (GUID);

```

```
ALTER TABLE SPRT_NC_ACS_STATUS ADD CONSTRAINT FK_SPRT_NC_ACS_STATUS_1 FOREIGN KEY ( NC_
ACS_GUID ) REFERENCES SPRT_NC_ACS ( GUID ) ON DELETE CASCADE;
```

Recreate Indexes as Local

```
CREATE INDEX IX_SPRT_NC_ACS_STATUS_1 ON SPRT_NC_ACS_STATUS (STATUS_TIMESTAMP) LOCAL;
CREATE INDEX IX_SPRT_NC_ACS_STATUS_2 ON SPRT_NC_ACS_STATUS (NC_ACS_GUID) LOCAL;
CREATE INDEX IX_SPRT_NC_ACS_STATUS_3 ON SPRT_NC_ACS_STATUS (GUID) LOCAL;
ALTER TABLE SPRT_NC_ACS_STATUS ADD CONSTRAINT FK_SPRT_NC_ACS_STATUS_1 FOREIGN KEY ( NC_
ACS_GUID ) REFERENCES SPRT_NC_ACS ( GUID ) ON DELETE CASCADE;
```

SQL to partition existing tables in Oracle 11g

The following SQL will convert all supported tables to a date range partitioned for parent tables and reference partitioned tables for child tables when using Oracle 11g. Note that the scripts for Oracle 10g will still work with Oracle 11g, in cases where the trade-offs of using partitioning outweigh the benefits.

SPRT_EC_AUDIT_LOG

```
DROP INDEX SPRT_EC_AUDIT_LOG_IDX1;
DROP INDEX SPRT_EC_AUDIT_LOG_IDX2;
DROP INDEX SPRT_EC_AUDIT_LOG_IDX3;
DROP INDEX SPRT_EC_AUDIT_LOG_IDX4;
DROP INDEX SPRT_EC_AUDIT_LOG_IDX5;
ALTER TABLE SPRT_EC_AUDIT_LOG DROP CONSTRAINT SPRT_EC_AUDIT_LOG_PK;

CREATE TABLE PSPRT_EC_AUDIT_LOG (
  GUID varchar2(36) DEFAULT rawtohex(sys_guid()) NOT NULL,
  SRC_IP varchar2(16) DEFAULT NULL NULL,
  OP_TYPE char(1) NOT NULL,
  DESCR nvarchar2(4000) DEFAULT NULL NULL,
  OBJ_ID number(9) DEFAULT NULL NULL,
  OBJ_GUID varchar2(36) DEFAULT NULL NULL,
  OBJ_TYPE varchar2(32) DEFAULT NULL NULL,
  OBJ_DESCR nvarchar2(100) DEFAULT NULL NULL,
  REFOBJ_ID number(9) DEFAULT NULL NULL,
  REFOBJ_GUID varchar2(36) DEFAULT NULL NULL,
  REFOBJ_TYPE varchar2(32) DEFAULT NULL NULL,
  REFOBJ_DESCR nvarchar2(100) DEFAULT NULL NULL,
  CREATED date DEFAULT SYSDATE NOT NULL,
  CREATED_BY nvarchar2(32) NOT NULL)
PARTITION BY RANGE (created) (
  PARTITION AUDIT_LOG_99991231 VALUES LESS THAN (to_date('99991231 23:59:59','yyyymmdd
HH24:MI:SS')));

ALTER TABLE PSPRT_EC_AUDIT_LOG
EXCHANGE PARTITION AUDIT_LOG_99991231
WITH TABLE SPRT_EC_AUDIT_LOG
WITHOUT VALIDATION
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_EC_AUDIT_LOG;
RENAME PSPRT_EC_AUDIT_LOG TO SPRT_EC_AUDIT_LOG;
```

Recreate indexes as Global

```
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX1 ON SPRT_EC_AUDIT_LOG (OP_TYPE);
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX2 ON SPRT_EC_AUDIT_LOG (OBJ_TYPE);
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX3 ON SPRT_EC_AUDIT_LOG (REFOBJ_TYPE);
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX4 ON SPRT_EC_AUDIT_LOG (CREATED);
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX5 ON SPRT_EC_AUDIT_LOG (CREATED_BY);
ALTER TABLE SPRT_EC_AUDIT_LOG ADD CONSTRAINT SPRT_EC_AUDIT_LOG_PK PRIMARY KEY (GUID);
```

Recreate indexes as Local

```
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX1 ON SPRT_EC_AUDIT_LOG (OP_TYPE) LOCAL;
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX2 ON SPRT_EC_AUDIT_LOG (OBJ_TYPE) LOCAL;
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX3 ON SPRT_EC_AUDIT_LOG (REFOBJ_TYPE) LOCAL;
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX4 ON SPRT_EC_AUDIT_LOG (CREATED) LOCAL;
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX5 ON SPRT_EC_AUDIT_LOG (CREATED_BY) LOCAL;
CREATE INDEX SPRT_EC_AUDIT_LOG_IDX6 ON SPRT_EC_AUDIT_LOG (GUID) LOCAL;
```

SPRT_SG_POLICY_ACTION_HISTORY

```
DROP INDEX SPRT_SG_POLICY_ACT_HIST_IDX1;
DROP INDEX SPRT_SG_POLICY_ACT_HIST_IDX2;
DROP INDEX SPRT_SG_POLICY_ACT_HIST_IDX3;
DROP INDEX SPRT_SG_POLICY_ACT_HIST_IDX4;
DROP INDEX SPRT_SG_POLICY_ACT_HIST_IDX5;
ALTER TABLE SPRT_SG_POLICY_ACTION_HISTORY DROP CONSTRAINT SPRT_SG_POL_ACT_HIST_PK;
```

```
CREATE TABLE PSPRT_SG_POLICY_ACTION_HISTORY (
  GUID varchar2(36) DEFAULT rawtohex(sys_guid()) NOT NULL,
  SG_POLICY_ACTION_GUID varchar2(36) NULL,
  SG_POLICY_EXEC_HISTORY_GUID varchar2(36) NULL,
  SG_POLICY_DEV_HISTORY_GUID varchar2(36) NULL,
  ACTION_NAME nvarchar2(256) NOT NULL,
  ACTION_NAME_TOKEN nvarchar2(256) NULL,
  ACTION_EXEC_START_TIME date NULL,
  ACTION_EXEC_END_TIME date NULL,
  ACTION_TRIGGER varchar2(32) NOT NULL,
  RESULT_CODE number(9) NULL,
  WORKFLOW varchar2(32) NULL,
  MESSAGE varchar2(1024) NULL,
  CREATED date DEFAULT SYSDATE NOT NULL,
  CREATED_BY nvarchar2(32) NOT NULL,
  MODIFIED date DEFAULT SYSDATE NOT NULL,
  MODIFIED_BY nvarchar2(32) NOT NULL,
  ORDINAL number(5) NOT NULL,
  IN_PROGRESS char(1) DEFAULT 'N' NOT NULL,
  retry number(9) DEFAULT 0 NOT NULL)
PARTITION BY RANGE (created) (
  PARTITION POLICY_ACTION_HISTORY_99991231 VALUES LESS THAN (to_date('99991231
23:59:59','yyyymmdd HH24:MI:SS')));
```

```
ALTER TABLE PSPRT_SG_POLICY_ACTION_HISTORY
EXCHANGE PARTITION POLICY_ACTION_HISTORY_99991231
WITH TABLE SPRT_SG_POLICY_ACTION_HISTORY
```

```

WITHOUT VALIDATION
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_SG_POLICY_ACTION_HISTORY;
RENAME PSPRT_SG_POLICY_ACTION_HISTORY TO SPRT_SG_POLICY_ACTION_HISTORY;

```

Recreate Indexes as Global

```

CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX1 ON SPRT_SG_POLICY_ACTION_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID,ACTION_EXEC_START_TIME);
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX2 ON SPRT_SG_POLICY_ACTION_HISTORY (SG_POLICY_DEV_
HISTORY_GUID);
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX3 ON SPRT_SG_POLICY_ACTION_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID);
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX4 ON SPRT_SG_POLICY_ACTION_HISTORY (ACTION_EXEC_
START_TIME);
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX5 ON SPRT_SG_POLICY_ACTION_HISTORY (IN_
PROGRESS,TO_CHAR(ACTION_EXEC_START_TIME,'YYYY-MM-DD HH24:MI:SS'));
ALTER TABLE SPRT_SG_POLICY_ACTION_HISTORY ADD CONSTRAINT SPRT_SG_POL_ACT_HIST_PK PRIMARY
KEY (GUID);

```

Recreate Indexes as Local

```

CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX1 ON SPRT_SG_POLICY_ACTION_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID,ACTION_EXEC_START_TIME) LOCAL;
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX2 ON SPRT_SG_POLICY_ACTION_HISTORY (SG_POLICY_DEV_
HISTORY_GUID) LOCAL;
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX3 ON SPRT_SG_POLICY_ACTION_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID) LOCAL;
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX4 ON SPRT_SG_POLICY_ACTION_HISTORY (ACTION_EXEC_
START_TIME) LOCAL;
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX5 ON SPRT_SG_POLICY_ACTION_HISTORY (IN_
PROGRESS,TO_CHAR(ACTION_EXEC_START_TIME,'YYYY-MM-DD HH24:MI:SS')) LOCAL;
CREATE INDEX SPRT_SG_POLICY_ACT_HIST_IDX6 ON SPRT_SG_POLICY_ACTION_HISTORY (GUID) LOCAL;

```

SPRT_SG_POLICY_DEVICE_HISTORY

```

DROP INDEX SPRT_SG_POLICY_DEV_HIST_IDX1;
DROP INDEX SPRT_SG_POLICY_DEV_HIST_IDX2;
DROP INDEX SPRT_SG_POLICY_DEV_HIST_IDX3;
DROP INDEX SPRT_SG_POLICY_DEV_HIST_IDX4;
DROP INDEX SPRT_SG_POLICY_DEV_HIST_IDX5;
DROP INDEX SPRT_SG_POLICY_DEV_HIST_IDX6;
DROP INDEX SPRT_SG_POLICY_DEV_HIST_IDX7;
DROP INDEX SPRT_SG_POLICY_DEV_HIST_IDX8;
ALTER TABLE SPRT_SG_POLICY_DEVICE_HISTORY DROP CONSTRAINT SPRT_SG_POL_DEV_HIST_PK;

CREATE TABLE PSPRT_SG_POLICY_DEVICE_HISTORY (
GUID varchar2(36) DEFAULT rawtohex(sys_guid()) NOT NULL,
SG_POLICY_EXEC_HISTORY_GUID varchar2(36) NOT NULL,
SG_POLICY_DEVICE_GUID varchar2(36) NULL,
UNIQUE_ID_STRING nvarchar2(128) NOT NULL,
IP_ADDRESS varchar2(39),
EXECUTION_START_TIME date NULL,
EXECUTION_END_TIME date NULL,
EXECUTION_TRIGGER varchar2(32) NULL,
STATUS varchar2(32) NOT NULL,

```

```

MESSAGE varchar2(1024) NULL,
EVENT_DETAIL clob NULL,
CREATED date DEFAULT SYSDATE NOT NULL,
CREATED_BY nvarchar2(32) NOT NULL,
MODIFIED date DEFAULT SYSDATE NOT NULL,
MODIFIED_BY nvarchar2(32) NOT NULL)
PARTITION BY RANGE (created) (
PARTITION POLICY_DEVICE_HISTORY_99991231 VALUES LESS THAN (to_date('99991231
23:59:59','yyyymmdd HH24:MI:SS')));

ALTER TABLE PSPRT_SG_POLICY_DEVICE_HISTORY
EXCHANGE PARTITION POLICY_DEVICE_HISTORY_99991231
WITH TABLE SPRT_SG_POLICY_DEVICE_HISTORY
WITHOUT VALIDATION
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_SG_POLICY_DEVICE_HISTORY;
RENAME PSPRT_SG_POLICY_DEVICE_HISTORY TO SPRT_SG_POLICY_DEVICE_HISTORY;

```

Recreate Indexes as Global

```

CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX1 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID,CREATED);
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX2 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID,UNIQUE_ID_STRING);
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX3 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID,EXECUTION_END_TIME);
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX4 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID);
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX5 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
DEVICE_GUID);
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX6 ON SPRT_SG_POLICY_DEVICE_HISTORY (STATUS);
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX7 ON SPRT_SG_POLICY_DEVICE_HISTORY (EXECUTION_END_
TIME);
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX8 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
DEVICE_GUID,STATUS);
ALTER TABLE SPRT_SG_POLICY_DEVICE_HISTORY ADD CONSTRAINT SPRT_SG_POL_DEV_HIST_PK PRIMARY
KEY (GUID);

```

Recreate Indexes as Local

```

CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX1 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID,CREATED) LOCAL;
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX2 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID,UNIQUE_ID_STRING) LOCAL;
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX3 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID,EXECUTION_END_TIME) LOCAL;
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX4 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
EXEC_HISTORY_GUID) LOCAL;
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX5 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
DEVICE_GUID) LOCAL;
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX6 ON SPRT_SG_POLICY_DEVICE_HISTORY (STATUS) LOCAL;
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX7 ON SPRT_SG_POLICY_DEVICE_HISTORY (EXECUTION_END_
TIME) LOCAL;
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX8 ON SPRT_SG_POLICY_DEVICE_HISTORY (SG_POLICY_
DEVICE_GUID,STATUS) LOCAL;
CREATE INDEX SPRT_SG_POLICY_DEV_HIST_IDX9 ON SPRT_SG_POLICY_DEVICE_HISTORY (GUID) LOCAL;

```


SPRT_NC_CWMP_SESSION

Note that primary keys are required in order to use reference partitioning, and as such, the key will have to be created regardless of whether or not local or global indexes are used. This means that is not possible to use a local index in place of a primary key. If the use of a local index and not a primary key is absolutely required, please consult the section of this document showing how to partition SPRT_NC_CWMP_SESSION and its children for Oracle 10g.

Important: After partitioning this table, you must proceed with partitioning the SPRT_NC_CWMP_SESSIONDETAIL, SPRT_NC_CWMP_SESSIONPARAM and SPRT_NC_CWMP_LAST_SESSION tables.

```
DROP INDEX SPRT_NC_CWMP_SESSION_IDX1;
DROP INDEX SPRT_NC_CWMP_SESSION_IDX2;
DROP INDEX SPRT_NC_CWMP_SESSION_IDX3;
ALTER TABLE SPRT_NC_CWMP_LAST_SESSION DROP CONSTRAINT SPRT_NC_CWMP_LAST_SESS_FK2;
ALTER TABLE SPRT_NC_CWMP_SESSIONDETAIL DROP CONSTRAINT SPRT_NC_CWMP_SESSNDTL_FK1;
ALTER TABLE SPRT_NC_CWMP_SESSIONPARAM DROP CONSTRAINT SPRT_NC_CWMP_SESSPARAM_FK1;
ALTER TABLE SPRT_NC_CWMP_SESSION DROP CONSTRAINT SPRT_NC_CWMP_SESSION_PK;
ALTER TABLE SPRT_NC_CWMP_SESSION DROP CONSTRAINT SPRT_NC_CWMP_SESSION_FK1;
ALTER TABLE SPRT_NC_CWMP_SESSION DROP CONSTRAINT SPRT_NC_CWMP_SESSION_FK2;

CREATE TABLE PSPRT_NC_CWMP_SESSION (
  GUID varchar2(36) NOT NULL,
  NC_ACS_GUID varchar2(36) NOT NULL,
  NC_CPE_GUID varchar2(36) NOT NULL,
  INFORM_TYPE varchar2(1024) NULL,
  START_TIME date NOT NULL,
  END_TIME date NULL,
  CREATED date NOT NULL)
PARTITION BY RANGE (created) (
  PARTITION CWMP_SESSION_99991231 VALUES LESS THAN (to_date('99991231 23:59:59','yyyymmdd
HH24:MI:SS')));

ALTER TABLE PSPRT_NC_CWMP_SESSION
EXCHANGE PARTITION CWMP_SESSION_99991231
WITH TABLE SPRT_NC_CWMP_SESSION
WITHOUT VALIDATION
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_NC_CWMP_SESSION;
RENAME PSPRT_NC_CWMP_SESSION TO SPRT_NC_CWMP_SESSION;
```

Recreate Indexes as Global

```
CREATE INDEX SPRT_NC_CWMP_SESSION_IDX1 ON SPRT_NC_CWMP_SESSION (NC_ACS_GUID);
CREATE INDEX SPRT_NC_CWMP_SESSION_IDX2 ON SPRT_NC_CWMP_SESSION (NC_CPE_GUID);
CREATE INDEX SPRT_NC_CWMP_SESSION_IDX3 ON SPRT_NC_CWMP_SESSION (START_TIME);
ALTER TABLE SPRT_NC_CWMP_SESSION ADD CONSTRAINT SPRT_NC_CWMP_SESSION_PK PRIMARY KEY
(GUID);
ALTER TABLE SPRT_NC_CWMP_SESSION ADD CONSTRAINT SPRT_NC_CWMP_SESSION_FK1 FOREIGN KEY ( NC_
ACS_GUID ) REFERENCES SPRT_NC_ACS ( GUID ) ON DELETE CASCADE;
ALTER TABLE SPRT_NC_CWMP_SESSION ADD CONSTRAINT SPRT_NC_CWMP_SESSION_FK2 FOREIGN KEY ( NC_
CPE_GUID ) REFERENCES SPRT_NC_CPE ( NC_CPE_GUID ) ON DELETE CASCADE;
```

Recreate Indexes as Local

```
CREATE INDEX SPRT_NC_CWMP_SESSION_IDX1 ON SPRT_NC_CWMP_SESSION (NC_ACS_GUID) LOCAL;
```

```

CREATE INDEX SPRT_NC_CWMP_SESSION_IDX2 ON SPRT_NC_CWMP_SESSION (NC_CPE_GUID) LOCAL;
CREATE INDEX SPRT_NC_CWMP_SESSION_IDX3 ON SPRT_NC_CWMP_SESSION (START_TIME) LOCAL;
ALTER TABLE SPRT_NC_CWMP_SESSION ADD CONSTRAINT SPRT_NC_CWMP_SESSION_PK PRIMARY KEY
(GUID);
ALTER TABLE SPRT_NC_CWMP_SESSION ADD CONSTRAINT SPRT_NC_CWMP_SESSION_FK1 FOREIGN KEY ( NC_
ACS_GUID ) REFERENCES SPRT_NC_ACS ( GUID ) ON DELETE CASCADE;
ALTER TABLE SPRT_NC_CWMP_SESSION ADD CONSTRAINT SPRT_NC_CWMP_SESSION_FK2 FOREIGN KEY ( NC_
CPE_GUID ) REFERENCES SPRT_NC_CPE ( NC_CPE_GUID ) ON DELETE CASCADE;

```

SPRT_NC_CWMP_SESSIONDETAIL

This set of commands includes a TRUNCATE statement. All data will be removed from this table to facilitate a partition exchange. If the data in this table is vital, it is recommended that a backup be performed, and a restore done once the table has been partitioned.

Important: SPRT_NC_CWMP_SESSION must be partitioned prior to partitioning this table.

```

DROP INDEX SPRT_NC_CWMP_SESSNDTL_IDX1;
DROP INDEX SPRT_NC_CWMP_SESSNDTL_IDX2;
DROP TRIGGER SPRT_NC_CWMP_SESSIONDETAIL_BIR;
ALTER TABLE SPRT_NC_CWMP_SESSIONDETAIL DROP CONSTRAINT SPRT_NC_CWMP_SESSNDTL_PK;
ALTER TABLE SPRT_NC_CWMP_SESSIONDETAIL DROP CONSTRAINT SPRT_NC_CWMP_SESSNDTL_FK2;

CREATE TABLE PSPRT_NC_CWMP_SESSIONDETAIL (
  ID number(12) NOT NULL,
  NC_CWMP_SESSION_GUID varchar2(36) NOT NULL,
  NC_ACS_GUID varchar2(36) NOT NULL,
  REQUEST_EVENT varchar2(32) NULL,
  RESPONSE_EVENT varchar2(32) NULL,
  HTTP_PARSE_TIME number(9) NULL,
  SOAP_PARSE_TIME number(9) NULL,
  COUNT_RMI_CALLS number(4) NULL,
  RMI_CALL_TIME number(9) NULL,
  TOTAL_TIME number(9) NULL,
  PARENT_CREATED date NOT NULL,
  CONSTRAINT SPRT_NC_CWMP_SESSNDTL_FK1 FOREIGN KEY (NC_CWMP_SESSION_GUID) REFERENCES SPRT_
NC_CWMP_SESSION(GUID))
PARTITION BY REFERENCE (SPRT_NC_CWMP_SESSNDTL_FK1);

TRUNCATE TABLE SPRT_NC_CWMP_SESSIONDETAIL;
ALTER TABLE PSPRT_NC_CWMP_SESSIONDETAIL
EXCHANGE PARTITION CWMP_SESSION_99991231
WITH TABLE SPRT_NC_CWMP_SESSIONDETAIL
WITHOUT VALIDATION
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_NC_CWMP_SESSIONDETAIL;
RENAME PSPRT_NC_CWMP_SESSIONDETAIL TO SPRT_NC_CWMP_SESSIONDETAIL;

```

Recreate Indexes as Global

```

CREATE INDEX SPRT_NC_CWMP_SESSNDTL_IDX1 ON SPRT_NC_CWMP_SESSIONDETAIL (NC_CWMP_SESSION_
GUID);
CREATE INDEX SPRT_NC_CWMP_SESSNDTL_IDX2 ON SPRT_NC_CWMP_SESSIONDETAIL (NC_ACS_GUID);
ALTER TABLE SPRT_NC_CWMP_SESSIONDETAIL ADD CONSTRAINT SPRT_NC_CWMP_SESSNDTL_PK PRIMARY KEY
(ID);

```

```

ALTER TABLE SPRT_NC_CWMP_SESSIONDETAIL ADD CONSTRAINT SPRT_NC_CWMP_SESSNDTL_FK2 FOREIGN
KEY ( NC_ACS_GUID ) REFERENCES SPRT_NC_ACS ( GUID );
CREATE OR REPLACE TRIGGER SPRT_NC_CWMP_SESSIONDETAIL_BIR
BEFORE INSERT ON SPRT_NC_CWMP_SESSIONDETAIL
FOR EACH ROW
BEGIN
IF :NEW.ID IS NULL THEN
SELECT SPRT_NC_CWMP_SESSIONDETAIL_SEQ.NEXTVAL INTO :NEW.ID FROM DUAL;
END IF;
END;
/

```

Recreate Indexes as Local

```

CREATE INDEX SPRT_NC_CWMP_SESSNDTL_IDX1 ON SPRT_NC_CWMP_SESSIONDETAIL (NC_CWMP_SESSION_
GUID) LOCAL;
CREATE INDEX SPRT_NC_CWMP_SESSNDTL_IDX2 ON SPRT_NC_CWMP_SESSIONDETAIL (NC_ACS_GUID) LOCAL;
CREATE INDEX SPRT_NC_CWMP_SESSNDTL_IDX3 ON SPRT_NC_CWMP_SESSIONDETAIL (ID) LOCAL;
ALTER TABLE SPRT_NC_CWMP_SESSIONDETAIL ADD CONSTRAINT SPRT_NC_CWMP_SESSNDTL_FK2 FOREIGN
KEY ( NC_ACS_GUID ) REFERENCES SPRT_NC_ACS ( GUID );
CREATE OR REPLACE TRIGGER SPRT_NC_CWMP_SESSIONDETAIL_BIR
BEFORE INSERT ON SPRT_NC_CWMP_SESSIONDETAIL
FOR EACH ROW
BEGIN
IF :NEW.ID IS NULL THEN
SELECT SPRT_NC_CWMP_SESSIONDETAIL_SEQ.NEXTVAL INTO :NEW.ID FROM DUAL;
END IF;
END;
/

```

SPRT_NC_CWMP_SESSIONPARAM

This set of commands includes a TRUNCATE statement. All data will be removed from this table to facilitate a partition exchange. If the data in this table is vital, it is recommended that a backup be performed, and a restore done once the table has been partitioned.

Important: SPRT_NC_CWMP_SESSION must be partitioned prior to partitioning this table.

```

DROP INDEX SPRT_NC_CWMP_SESSPARAM_IDX2;
ALTER TABLE SPRT_NC_CWMP_SESSIONPARAM DROP CONSTRAINT SPRT_NC_CWMP_SESSPARAM_PK;

CREATE TABLE PSPRT_NC_CWMP_SESSIONPARAM (
GUID varchar2(36) NOT NULL,
NC_CWMP_SESSION_GUID varchar2(36) NOT NULL,
NAME varchar2(256) NOT NULL,
VALUE nvarchar2(1000) NULL,
PARENT_CREATED date NOT NULL,
CONSTRAINT SPRT_NC_CWMP_SESSPARAM_FK1 FOREIGN KEY (NC_CWMP_SESSION_GUID) REFERENCES SPRT_
NC_CWMP_SESSION(GUID))
PARTITION BY REFERENCE (SPRT_NC_CWMP_SESSPARAM_FK1);

TRUNCATE TABLE SPRT_NC_CWMP_SESSIONPARAM;
ALTER TABLE PSPRT_NC_CWMP_SESSIONPARAM
EXCHANGE PARTITION CWMP_SESSION_99991231
WITH TABLE SPRT_NC_CWMP_SESSIONPARAM
WITHOUT VALIDATION

```

```
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_NC_CWMP_SESSIONPARAM;
RENAME PSPRT_NC_CWMP_SESSIONPARAM TO SPRT_NC_CWMP_SESSIONPARAM;
```

Recreate Indexes as Global

```
CREATE INDEX SPRT_NC_CWMP_SESSPARAM_IDX1 ON SPRT_NC_CWMP_SESSIONPARAM (GUID);
CREATE INDEX SPRT_NC_CWMP_SESSPARAM_IDX2 ON SPRT_NC_CWMP_SESSIONPARAM (NC_CWMP_SESSION_
GUID);
```

Recreate Indexes as Local

```
CREATE INDEX SPRT_NC_CWMP_SESSPARAM_IDX1 ON SPRT_NC_CWMP_SESSIONPARAM (GUID) LOCAL;
CREATE INDEX SPRT_NC_CWMP_SESSPARAM_IDX2 ON SPRT_NC_CWMP_SESSIONPARAM (NC_CWMP_SESSION_
GUID) LOCAL;
```

SPRT_NC_CWMP_LAST_SESSION

This set of commands includes a TRUNCATE statement. All data will be removed from this table to facilitate a partition exchange. If the data in this table is vital, it is recommended that a backup be performed, and a restore done once the table has been partitioned.

Important: SPRT_NC_CWMP_SESSION must be partitioned prior to partitioning this table.

```
DROP INDEX SPRT_NC_CWMP_LAST_SESS_IDX1;
DROP INDEX SPRT_NC_CWMP_LAST_SESS_IDX2;
ALTER TABLE SPRT_NC_CWMP_LAST_SESSION DROP CONSTRAINT SPRT_NC_CWMP_LAST_SESS_PK;
ALTER TABLE SPRT_NC_CWMP_LAST_SESSION DROP CONSTRAINT SPRT_NC_CWMP_LAST_SESS_FK1;

CREATE TABLE PSPRT_NC_CWMP_LAST_SESSION (
  GUID varchar2(36) NOT NULL,
  NC_CPE_GUID varchar2(36) NOT NULL,
  NC_CWMP_SESSION_GUID varchar2(36) NOT NULL,
  PARENT_CREATED date NOT NULL,
  CONSTRAINT SPRT_NC_CWMP_LAST_SESS_FK2 FOREIGN KEY (NC_CWMP_SESSION_GUID) REFERENCES SPRT_
  NC_CWMP_SESSION(GUID))
  PARTITION BY REFERENCE (SPRT_NC_CWMP_LAST_SESS_FK2);

TRUNCATE TABLE SPRT_NC_CWMP_LAST_SESSION;
ALTER TABLE PSPRT_NC_CWMP_LAST_SESSION
  EXCHANGE PARTITION CWMP_SESSION_99991231
  WITH TABLE SPRT_NC_CWMP_LAST_SESSION
  WITHOUT VALIDATION
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_NC_CWMP_LAST_SESSION;
RENAME PSPRT_NC_CWMP_LAST_SESSION TO SPRT_NC_CWMP_LAST_SESSION;
```

Recreate Indexes as Global

```
CREATE INDEX SPRT_NC_CWMP_LAST_SESS_IDX1 ON SPRT_NC_CWMP_LAST_SESSION (NC_CPE_GUID);
CREATE INDEX SPRT_NC_CWMP_LAST_SESS_IDX2 ON SPRT_NC_CWMP_LAST_SESSION (NC_CWMP_SESSION_
GUID);
ALTER TABLE SPRT_NC_CWMP_LAST_SESSION ADD CONSTRAINT SPRT_NC_CWMP_LAST_SESS_PK PRIMARY KEY
  (GUID);
ALTER TABLE SPRT_NC_CWMP_LAST_SESSION ADD CONSTRAINT SPRT_NC_CWMP_LAST_SESS_FK1 FOREIGN
  KEY ( NC_CPE_GUID ) REFERENCES SPRT_NC_CPE ( NC_CPE_GUID ) ON DELETE CASCADE;
```

Recreate Indexes as Local

```
CREATE INDEX SPRT_NC_CWMP_LAST_SESS_IDX1 ON SPRT_NC_CWMP_LAST_SESSION (NC_CPE_GUID) LOCAL;
CREATE INDEX SPRT_NC_CWMP_LAST_SESS_IDX2 ON SPRT_NC_CWMP_LAST_SESSION (NC_CWMP_SESSION_
GUID) LOCAL;
ALTER TABLE SPRT_NC_CWMP_LAST_SESSION ADD CONSTRAINT SPRT_NC_CWMP_LAST_SESS_PK PRIMARY KEY
(GUID);
ALTER TABLE SPRT_NC_CWMP_LAST_SESSION ADD CONSTRAINT SPRT_NC_CWMP_LAST_SESS_FK1 FOREIGN
KEY ( NC_CPE_GUID ) REFERENCES SPRT_NC_CPE ( NC_CPE_GUID ) ON DELETE CASCADE;
```

SPRT_NC_ACS_STATUS

Note that primary keys are required in order to use reference partitioning, and as such, the key will have to be created regardless of whether or not local or global indexes are used. This means that is not possible to use a local index in place of a primary key. If the use of a local index and not a primary key is absolutely required, please consult the section of this document showing how to partition SPRT_NC_ACS_STATUS and its children for Oracle 10g.

```
DROP INDEX IX_SPRT_NC_ACS_STATUS_1;
DROP INDEX IX_SPRT_NC_ACS_STATUS_2;
ALTER TABLE SPRT_NC_ACS_STATUS DROP CONSTRAINT FK_SPRT_NC_ACS_STATUS_1;
ALTER TABLE SPRT_NC_ACS_STATUS_ERROR DROP CONSTRAINT SPRT_NC_ACS_STATUS_ERROR_FK1;
ALTER TABLE SPRT_NC_ACS_STATUS_RUNTIME DROP CONSTRAINT FK_SPRT_NC_ACS_STATUS_RT_1;
ALTER TABLE SPRT_NC_ACS_STATUS_TICKLE DROP CONSTRAINT SPRT_NC_ACS_STATUS_TICKLE_FK1;
ALTER TABLE SPRT_NC_ACS_STATUS DROP CONSTRAINT SPRT_NC_ACS_STATUS_PK;

CREATE TABLE PSPRT_NC_ACS_STATUS (
  GUID varchar2(36) NOT NULL,
  NC_ACS_GUID varchar2(36) NOT NULL,
  STATUS_TIMESTAMP date NOT NULL,
  STATUS_TYPE varchar2(16) NOT NULL)
PARTITION BY RANGE (status_timestamp) (
  PARTITION ACS_STATUS_99991231 VALUES LESS THAN (to_date('99991231 23:59:59','yyyymmdd
HH24:MI:SS')));

ALTER TABLE PSPRT_NC_ACS_STATUS
EXCHANGE PARTITION ACS_STATUS_99991231
WITH TABLE SPRT_NC_ACS_STATUS
WITHOUT VALIDATION
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_NC_ACS_STATUS;
RENAME PSPRT_NC_ACS_STATUS TO SPRT_NC_ACS_STATUS;
```

Recreate Indexes as Global

```
CREATE INDEX IX_SPRT_NC_ACS_STATUS_1 ON SPRT_NC_ACS_STATUS (STATUS_TIMESTAMP);
CREATE INDEX IX_SPRT_NC_ACS_STATUS_2 ON SPRT_NC_ACS_STATUS (NC_ACS_GUID);
ALTER TABLE SPRT_NC_ACS_STATUS ADD CONSTRAINT SPRT_NC_ACS_STATUS_PK PRIMARY KEY (GUID);
ALTER TABLE SPRT_NC_ACS_STATUS ADD CONSTRAINT FK_SPRT_NC_ACS_STATUS_1 FOREIGN KEY ( NC_
ACS_GUID ) REFERENCES SPRT_NC_ACS ( GUID ) ON DELETE CASCADE;
ALTER TABLE SPRT_NC_ACS_STATUS_ERROR ADD CONSTRAINT SPRT_NC_ACS_STATUS_ERROR_FK1 FOREIGN
KEY ( NC_ACS_STATUS_GUID ) REFERENCES SPRT_NC_ACS_STATUS ( GUID ) ON DELETE CASCADE;
ALTER TABLE SPRT_NC_ACS_STATUS_RUNTIME ADD CONSTRAINT FK_SPRT_NC_ACS_STATUS_RT_1 FOREIGN
KEY ( NC_ACS_STATUS_GUID ) REFERENCES SPRT_NC_ACS_STATUS ( GUID ) ON DELETE CASCADE;
```

```
ALTER TABLE SPRT_NC_ACS_STATUS_TICKLE ADD CONSTRAINT SPRT_NC_ACS_STATUS_TICKLE_FK1 FOREIGN
KEY ( NC_ACS_STATUS_GUID ) REFERENCES SPRT_NC_ACS_STATUS ( GUID ) ON DELETE CASCADE;
```

Recreate Indexes as Local

```
CREATE INDEX IX_SPRT_NC_ACS_STATUS_1 ON SPRT_NC_ACS_STATUS (STATUS_TIMESTAMP) LOCAL;
CREATE INDEX IX_SPRT_NC_ACS_STATUS_2 ON SPRT_NC_ACS_STATUS (NC_ACS_GUID) LOCAL;
ALTER TABLE SPRT_NC_ACS_STATUS ADD CONSTRAINT SPRT_NC_ACS_STATUS_PK PRIMARY KEY (GUID);
ALTER TABLE SPRT_NC_ACS_STATUS ADD CONSTRAINT FK_SPRT_NC_ACS_STATUS_1 FOREIGN KEY ( NC_
ACS_GUID ) REFERENCES SPRT_NC_ACS ( GUID ) ON DELETE CASCADE;
ALTER TABLE SPRT_NC_ACS_STATUS_ERROR ADD CONSTRAINT SPRT_NC_ACS_STATUS_ERROR_FK1 FOREIGN
KEY ( NC_ACS_STATUS_GUID ) REFERENCES SPRT_NC_ACS_STATUS ( GUID ) ON DELETE CASCADE;
ALTER TABLE SPRT_NC_ACS_STATUS_RUNTIME ADD CONSTRAINT FK_SPRT_NC_ACS_STATUS_RT_1 FOREIGN
KEY ( NC_ACS_STATUS_GUID ) REFERENCES SPRT_NC_ACS_STATUS ( GUID ) ON DELETE CASCADE;
ALTER TABLE SPRT_NC_ACS_STATUS_TICKLE ADD CONSTRAINT SPRT_NC_ACS_STATUS_TICKLE_FK1 FOREIGN
KEY ( NC_ACS_STATUS_GUID ) REFERENCES SPRT_NC_ACS_STATUS ( GUID ) ON DELETE CASCADE;
```

SPRT_NC_ACS_STATUS_ERROR

This set of commands includes a TRUNCATE statement. All data will be removed from this table to facilitate a partition exchange. If the data in this table is vital, it is recommended that a backup be performed, and a restore done once the table has been partitioned.

```
DROP INDEX SPRT_NC_ACS_STATUS_ERROR_IDX1;
DROP INDEX SPRT_NC_ACS_STATUS_ERROR_IDX2;
ALTER TABLE SPRT_NC_ACS_STATUS_ERROR DROP CONSTRAINT SPRT_NC_ACS_STATUS_ERROR_FK1;
ALTER TABLE SPRT_NC_ACS_STATUS_ERROR DROP CONSTRAINT SPRT_NC_ACS_STATUS_ERROR_FK2;

CREATE TABLE PSPRT_NC_ACS_STATUS_ERROR (
  NC_ACS_STATUS_GUID VARCHAR2(36) NOT NULL,
  NC_CPE_GUID VARCHAR2(36),
  REMOTE_ADDR VARCHAR2(256),
  EVENT_TYPE VARCHAR2(32) NOT NULL,
  CONSTRAINT SPRT_NC_ACS_STATUS_ERROR_FK1 FOREIGN KEY (NC_ACS_STATUS_GUID) REFERENCES SPRT_
NC_ACS_STATUS (GUID) )
PARTITION BY REFERENCE (SPRT_NC_ACS_STATUS_ERROR_FK1);

TRUNCATE TABLE SPRT_NC_ACS_STATUS_ERROR;
ALTER TABLE PSPRT_NC_ACS_STATUS_ERROR
EXCHANGE PARTITION ACS_STATUS_99991231
WITH TABLE SPRT_NC_ACS_STATUS_ERROR
WITHOUT VALIDATION
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_NC_ACS_STATUS_ERROR;
RENAME PSPRT_NC_ACS_STATUS_ERROR TO SPRT_NC_ACS_STATUS_ERROR;
```

Recreate Indexes as Global

```
CREATE INDEX SPRT_NC_ACS_STATUS_ERROR_IDX1 ON SPRT_NC_ACS_STATUS_ERROR (NC_ACS_STATUS_
GUID);
CREATE INDEX SPRT_NC_ACS_STATUS_ERROR_IDX2 ON SPRT_NC_ACS_STATUS_ERROR (NC_CPE_GUID);
ALTER TABLE SPRT_NC_ACS_STATUS_ERROR ADD CONSTRAINT SPRT_NC_ACS_STATUS_ERROR_FK2 FOREIGN
KEY ( NC_CPE_GUID ) REFERENCES SPRT_NC_CPE ( NC_CPE_GUID ) ON DELETE CASCADE;
```

Recreate Indexes as Local

```
CREATE INDEX SPRT_NC_ACS_STATUS_ERROR_IDX1 ON SPRT_NC_ACS_STATUS_ERROR (NC_ACS_STATUS_
GUID) LOCAL;
CREATE INDEX SPRT_NC_ACS_STATUS_ERROR_IDX2 ON SPRT_NC_ACS_STATUS_ERROR (NC_CPE_GUID)
LOCAL;
ALTER TABLE SPRT_NC_ACS_STATUS_ERROR ADD CONSTRAINT SPRT_NC_ACS_STATUS_ERROR_FK2 FOREIGN
KEY ( NC_CPE_GUID ) REFERENCES SPRT_NC_CPE ( NC_CPE_GUID ) ON DELETE CASCADE;
```

SPRT_NC_ACS_STATUS_RUNTIME

This set of commands includes a TRUNCATE statement. All data will be removed from this table to facilitate a partition exchange. If the data in this table is vital, it is recommended that a backup be performed, and a restore done once the table has been partitioned.

```
DROP INDEX IX_SPRT_NC_ACS_STATUS_RT_1;
ALTER TABLE SPRT_NC_ACS_STATUS_RUNTIME DROP CONSTRAINT FK_SPRT_NC_ACS_STATUS_RT_1;

CREATE TABLE PSPRT_NC_ACS_STATUS_RUNTIME (
NC_ACS_STATUS_GUID varchar2(36) NOT NULL,
AVAILABLE_PROCESSORS number(10) NULL,
CPU_LOAD_AVERAGE number(9,2) NULL,
FREE_MEMORY number(19) NULL,
MAX_MEMORY number(19) NULL,
TOTAL_MEMORY number(19) NULL,
THREAD_COUNT number(10) NULL,
MAX_THREADS number(9) NULL,
UPTIME number(19) NULL,
CONSTRAINT FK_SPRT_NC_ACS_STATUS_RT_1 FOREIGN KEY (NC_ACS_STATUS_GUID) REFERENCES SPRT_NC_
ACS_STATUS (GUID) )
PARTITION BY REFERENCE (FK_SPRT_NC_ACS_STATUS_RT_1);

TRUNCATE TABLE SPRT_NC_ACS_STATUS_RUNTIME;
ALTER TABLE PSPRT_NC_ACS_STATUS_RUNTIME
EXCHANGE PARTITION ACS_STATUS_99991231
WITH TABLE SPRT_NC_ACS_STATUS_RUNTIME
WITHOUT VALIDATION
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_NC_ACS_STATUS_RUNTIME;
RENAME PSPRT_NC_ACS_STATUS_RUNTIME TO SPRT_NC_ACS_STATUS_RUNTIME;
```

Recreate Index as Global

```
CREATE INDEX IX_SPRT_NC_ACS_STATUS_RT_1 ON SPRT_NC_ACS_STATUS_RUNTIME (NC_ACS_STATUS_
GUID);
```

Recreate Indexes as Local

```
CREATE INDEX IX_SPRT_NC_ACS_STATUS_RT_1 ON SPRT_NC_ACS_STATUS_RUNTIME (NC_ACS_STATUS_GUID)
LOCAL;
```

SPRT_NC_ACS_STATUS_TICKLE

This set of commands includes a TRUNCATE statement. All data will be removed from this table to facilitate a partition exchange. If the data in this table is vital, it is recommended that a backup be performed, and a

restore done once the table has been partitioned.

```
DROP INDEX SPRT_NC_ACS_STATUS_TICKLE_IDX1;
DROP INDEX SPRT_NC_ACS_STATUS_TICKLE_IDX2;
ALTER TABLE SPRT_NC_ACS_STATUS_TICKLE DROP CONSTRAINT SPRT_NC_ACS_STATUS_TICKLE_FK1;
ALTER TABLE SPRT_NC_ACS_STATUS_TICKLE DROP CONSTRAINT SPRT_NC_ACS_STATUS_TICKLE_FK2;

CREATE TABLE PSPRT_NC_ACS_STATUS_TICKLE (
  NC_ACS_STATUS_GUID varchar2(36) NOT NULL,
  NC_CPE_GUID varchar2(36) NULL,
  EVENT_TYPE varchar2(32) NOT NULL,
  TOTAL_TIME number(10) NULL,
  CONSTRAINT SPRT_NC_ACS_STATUS_TICKLE_FK1 FOREIGN KEY (NC_ACS_STATUS_GUID) REFERENCES SPRT_
  NC_ACS_STATUS(GUID) )
PARTITION BY REFERENCE (SPRT_NC_ACS_STATUS_TICKLE_FK1);

TRUNCATE TABLE SPRT_NC_ACS_STATUS_TICKLE;
ALTER TABLE PSPRT_NC_ACS_STATUS_TICKLE
EXCHANGE PARTITION ACS_STATUS_99991231
WITH TABLE SPRT_NC_ACS_STATUS_TICKLE
WITHOUT VALIDATION
UPDATE GLOBAL INDEXES;

DROP TABLE SPRT_NC_ACS_STATUS_TICKLE;
RENAME PSPRT_NC_ACS_STATUS_TICKLE TO SPRT_NC_ACS_STATUS_TICKLE;
```

Recreate Index as Global

```
CREATE INDEX SPRT_NC_ACS_STATUS_TICKLE_IDX1 ON SPRT_NC_ACS_STATUS_TICKLE (NC_ACS_STATUS_
GUID);
CREATE INDEX SPRT_NC_ACS_STATUS_TICKLE_IDX2 ON SPRT_NC_ACS_STATUS_TICKLE (NC_CPE_GUID);
ALTER TABLE SPRT_NC_ACS_STATUS_TICKLE ADD CONSTRAINT SPRT_NC_ACS_STATUS_TICKLE_FK2 FOREIGN
KEY ( NC_CPE_GUID ) REFERENCES SPRT_NC_CPE ( NC_CPE_GUID ) ON DELETE CASCADE;
```

Recreate Indexes as Local

```
CREATE INDEX SPRT_NC_ACS_STATUS_TICKLE_IDX1 ON SPRT_NC_ACS_STATUS_TICKLE (NC_ACS_STATUS_
GUID) LOCAL;
CREATE INDEX SPRT_NC_ACS_STATUS_TICKLE_IDX2 ON SPRT_NC_ACS_STATUS_TICKLE (NC_CPE_GUID)
LOCAL;
ALTER TABLE SPRT_NC_ACS_STATUS_TICKLE ADD CONSTRAINT SPRT_NC_ACS_STATUS_TICKLE_FK2 FOREIGN
KEY ( NC_CPE_GUID ) REFERENCES SPRT_NC_CPE ( NC_CPE_GUID ) ON DELETE CASCADE;
```

Generation of Historical Partitions

The following is a sample Perl script to help with the generation of the DDL statements to create historical partitions for a newly partitioned table.

```
#!/usr/bin/perl

$NUMDAYS = 45;

# Uncomment for 10g
#%tables = (
#'SPRT_EC_AUDIT_LOG', 'AUDIT_LOG',
```



```

#'SPRT_SG_POLICY_ACTION_HISTORY', 'POLICY_ACTION_HISTORY',
#'SPRT_SG_POLICY_DEVICE_HISTORY', 'POLICY_DEVICE_HISTORY',
#'SPRT_NC_CWMP_SESSION', 'CWMP_SESSION',
#'SPRT_NC_CWMP_SESSIONDETAIL', 'CWMP_SESSIONDETAIL',
#'SPRT_NC_CWMP_SESSIONPARAM', 'CWMP_SESSIONPARAM',
#'SPRT_NC_ACS_STATUS', 'ACS_STATUS'
#);

# Uncomment for 11g
#%tables = (
#'SPRT_EC_AUDIT_LOG', 'AUDIT_LOG',
#'SPRT_SG_POLICY_ACTION_HISTORY', 'POLICY_ACTION_HISTORY',
#'SPRT_SG_POLICY_DEVICE_HISTORY', 'POLICY_DEVICE_HISTORY',
#'SPRT_NC_CWMP_SESSION', 'CWMP_SESSION',
#'SPRT_NC_ACS_STATUS', 'ACS_STATUS'
#);

# Generate array containing today's date plus the previous $NUMDAYS days

$epochdate = time;
for ($x=0; $x<=$NUMDAYS; $x++) {
($second, $minute, $hour, $day, $month, $year) = localtime($epochdate);
$year += 1900;
$month ++;
$day = sprintf("%02d", $day);
$month = sprintf("%02d", $month);
$date = "${year}${month}${day}";
$epochdate -= 86400;
push(@dates, $date);
}

foreach $table (keys %tables) {
$prefix = $tables{$table};
$date = $dates[0];
print "ALTER TABLE $table SPLIT PARTITION ${prefix}_99991231 " .
"at (to_date('${date} 23:59:59', 'yyyymmdd HH24:MI:SS')) into " .
"(partition ${prefix}_${date}, partition ${prefix}_99991231) " .
"UPDATE GLOBAL INDEXES;\n";
for ($x=1; $x<=$NUMDAYS; $x++) {
print "ALTER TABLE $table SPLIT PARTITION ${prefix}_${dates[$x-1]} " .
"at (to_date('${dates[$x]} 23:59:59', 'yyyymmdd HH24:MI:SS')) " .
"into (partition ${prefix}_${dates[$x]}, " .
"partition ${prefix}_${dates[$x-1]}) " .
"UPDATE GLOBAL INDEXES;\n";
}
}
}

```