

ZephyrTel Mobile Messaging

Release 19.4.0

Release Notes

ZMM-RN_19.4.0 Rev A

April 2021

ZephyrTel

CloudForward

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1 Introduction

1.1 About this Document

This document contains a brief description of the new functionality added, as well as all improvements, changes and corrections made in ZephyrTel Mobile Messaging release 19.4.0.

Since the available functions are licensed and depend on the specific ZephyrTel Mobile Messaging implementation, not all functions and/or applications contained in this document may be relevant or applicable to the ZephyrTel Mobile Messaging system you will be working with.

All new functionality of ZephyrTel Mobile Messaging release 19.4.0 is described in this document.

1.2 Scope

This document covers the release 19.4.0 of the ZephyrTel Mobile Messaging Product Family.

1.3 Intended Audience

This document is meant for all of you interested in how ZephyrTel Mobile Messaging can best be used, but mainly for:

- ▶ **Implementation Engineers**, who are responsible for the pre-installation, on-site installation and configuration of the Messaging product in the end-user environment.
- ▶ **Maintenance and Support Engineers**, who are responsible for maintaining the total system environment of which ZephyrTel Mobile Messaging is a part.
- ▶ **Network Operators**, who are in charge of the daily operation of the ZephyrTel Mobile Messaging systems and infrastructure.

1.4 Documentation Conventions

The following typographic conventions are used in this document.

Typeface or Symbol	Meaning/Used for	Example
Courier	Refers to a keyboard key, system command, label, button, filename, window, or other computer component or output.	The directory <code>billing</code> contains... Click the <code>Cancel</code> button to...
<courier>	Serves as a placeholder for variable text that the user will replace, as appropriate to its context.	Use the file name <code><systemname>.pl</code> for...
[]	Refers the user to external documentation listed in the References section.	[1]
<i>Italic</i>	Emphasises a new word or term of significance.	apply a <i>style</i> to the...
☐	Denotes a “note”, a piece of text alongside the normal text requiring extra attention.	☐ Note that the system is usually...
\(Unix)	Denotes line continuation; the character should be ignored as the user types the example, and <code>Enter</code> should only be pressed after the last line.	<code>% grep searchkey \ data/*.dat</code>
-	Bridges two keystrokes that should be pressed simultaneously.	Please press <code>Ctrl-C</code> to abort.

New Feature Enhancements

19.4.0

Feature ID	Summary	Component	Bug number
NN-29283	5G Domain Selection in IPSMGW	RTR-R04.13.04.00 Tools-R04.12.04.00	NN-29534 NN-29552
NN-29322	SRISM Loop Avoidance on HLR by changing NP	RTR-R04.13.04.01 Tools-R04.12.04.01	NN-29546

Resolved PRs

19.4.0

Jira ID	Summary	Component
NN-29310	Mapping of mapError / Internal Error and RP-ERROR	RTR-R04.13.04.05
NN-29399	iiwCntShPullResponseSuccess is not updated after a successful response in UDA (sh-Pull response)	IIW-R01.08.04.01
NN-29563	Lithium - PBC lacks incoming variable for ext.attributes (porting to HEAD)	PBC-R02.11.04.00
NN-29564	Lithium - PBC lacks incoming variable for ext.attributes (porting to HEAD) -- Documentation	ZMM_PBC_R02.11.04_Operator_Manual_19.4_rev_a
NN-29371	MGR: Privilege assignment fails for "Applications" only	MGR-R04.15.04.00
NN-29328	smsContents field of tp_fcdr are garbled when command is used with --output=/dirname	RTR-R04.13.04.03

SNMP Traps

19.4.0

Name of the Trap	Component	Bug	Change
None			

Compatibility Matrix

This is the list of component releases that are certified to work together. The compatibility matrix is always included in the release notes to prevent unsupported installations.

- ☐ The new component versions in the maintenance releases are highlighted in bold and italics.

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Release	19.4.0
RTR	R04.13.04.05
HUB	R04.12.05.01
AMS	R01.13.01.00
IIW	R01.08.04.01
PBC	R02.11.04.00
FAF	R02.12.05.01
EC-ABM	R01.11.05.00
BAT	R02.09.05.00
MGR	R04.15.04.00
MGRP	R01.01.05.00
STV	R04.14.01.00
LGP	R02.09.10.00
CCI	R02.11.01.00
LGR	R01.06.04.00
EMG	R01.09.05.00
DMF	R01.02.05.00
DMFOAM	R01.02.05.00
REI	R01.01.05.00
Tools	R04.12.04.02
Open Source	R05.02.09.00
SPF	R01.10.05.00
SSI	R01.09.05.00
XS-ARP	R01.08.05.00
XS-BWL	R02.08.05.00
XS-CPY	R02.09.05.00
XS-DIL	R02.09.05.00
XS-FWD	R02.09.05.00
XS-INT	R01.03.05.00
XS-MLC	R01.12.05.00
XS-MOD	R01.12.05.00
XS-SIG	R01.08.05.00
XS-TIE	R01.11.05.00
ECI	R01.06.07.00
MySQL 5.6	5.6.49
MySQL Cluster 7.4	7.4.29
Apache Tomcat	7.0.105
BDB - RHEL	5.3.21
RHEL 64 bit	7.9

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**AMS R01.13.01.00
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1.R01.13.01.00

1.1. Introduction

This document reflects the contents of the AMS R01.13.01.00.

This release contains:

- ▶ Some messages in AMS not attempted for delivery at various retry intervals (Ref: NN29459)

1.2. New Functionality

None

1.3. Improvements and Changes

1.3.1. Some messages in AMS not attempted for delivery at various retry intervals

RN-AMS-0001	Some messages in AMS not attempted for delivery at various retry intervals (Ref: NN29459)
Release:	R01.13.01.00
Type of change:	<input type="checkbox"/> New Functionality <input checked="" type="checkbox"/> Improvement <input type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	✓ ZTPS-11277
Affected items:	✓ AMS
Description:	<p>A new semi-static configuration parameter “amsrecipientbufferblackoutperiod” is introduced to AMS. The description is the following:</p> <p>amsrecipientbufferblackoutperiod</p> <p>Mandatory/Optional Optional</p> <p>Location Common configuration file</p> <p>Description Blackout in seconds if the recipient buffer fails to send out a message to any Router because of the system/network error. The blackout period will reduce the chance when the situation is further deteriorated because of the immediate retry attempts. Default is 0, meaning immediate retry is triggered without blackout for this recipient buffer. The value range is [0, 60]. NOTE: the blackout period is triggered after the network/system issue already happened. It reduces the chance of deterioration of the existing issue, but it cannot avoid the issue like congestion from happening. Such system/network issues can be triggered by many reasons. Performance tuning is needed to avoid such system/network issues.</p>
Impact:	None

1.4. Software Corrections

None

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BAT R02.09.05.00
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1 R02.09.05.00

1.1 Introduction

This chapter reflects the contents of BAT R02.09.05.00.
This release contains:

- Update copyright statement for ZephyrTel [BAT] (Ref: NN28906)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [BAT]

RN-BAT-0001	Update copyright statement for ZephyrTel [BAT] (Ref: NN28906)
Release:	R02.09.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	ALL
Description:	The copyright and other statements are changed from NewNet to ZephyrTel.
Impact:	None

1.4 Software Corrections

None

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**CCI R02.10.05.00
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1 R02.10.05.00

1.1 Introduction

This chapter reflects the contents of the CCI R02.10.05.00.

This release contains:

- ▶ Update copyright statement for ZephyrTel [CCI] (Ref: NN28893)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [CCI]

RN-CCI-0001	▶ Update copyright statement for ZephyrTel [CCI] (Ref: NN28893)
Release:	R02.10.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N/A
Affected items:	✓ CCI
Description:	The copyright and other statements are changed from NewNet to ZephyrTel
Impact:	N/A

1.4 Software Corrections

None

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DMFOAM R01.02.05.00
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1 R01.02.05.00

1.1 Introduction

This document reflects the contents of the DMFOAM R01.02.05.00.

This release contains:

- Update copyright statement for ZephyrTel [DMFOAM] (Ref: NN28906)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [DMFOAM]

RN-DMFOAM-0001	Update copyright statement for ZephyrTel [DMFOAM] (Ref: NN28906)
Release:	R01.02.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	ALL
Description:	The copyright and other statements are changed from NewNet to ZephyrTel.
Impact:	None

1.4 Software Corrections

None

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DMF R01.02.05.00
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1 R01.02.05.00

1.1 Introduction

This document reflects the contents of the DMF R01.02.05.00.

This release contains:

- ▶ Update copyright statement for ZephyrTel [DMF] (Ref: NN28906)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [DMF]

RN-DMF-0001	Update copyright statement for ZephyrTel [DMF] (Ref: NN28906)
Release:	R01.02.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	<input checked="" type="checkbox"/> DMF
Description:	The copyright and other statements are changed from NewNet to ZephyrTel.
Impact:	None

1.4 Software Corrections

None

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ECABM R01.11.05.00

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1 R01.11.05.00

1.1 Introduction

This chapter reflects the contents of the ECABM R01.11.05.00.

This release contains:

- Update copyright statement for ZephyrTel [ECABM] (Ref: NN28906)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [ECABM]

RN-ECABM-0001	Update copyright statement for ZephyrTel [ECABM] (Ref: NN28906)
Release:	R01.11.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	ALL
Description:	The copyright and other statements are changed from NewNet to ZephyrTel.
Impact:	None

1.4 Software Corrections

None

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**ECI R01.06.07.00
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1 R01.06.07.00

1.1 Introduction

This chapter reflects the contents of the ECI R01.06.07.00.

This release contains:

- Update the ECI library with the latest ECI-interface changes [ECI] (Ref: NN29111)

1.2 New Functionality

None

1.3 Improvements and Changes

None

1.4 Software Corrections

1.4.1 ECI library is synched with the latest changes with ECI-interface

RN-ECI-0001	ECI library is synched with the latest changes with ECI-interface (Ref: NN29111)
Release:	R01.06.07.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input checked="" type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	None
Description:	The ECI library is updated with the latest changes to ECI-interface
Impact:	N.A.

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EMG R01.09.05.00
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1 R01.09.05.00

1.1 Introduction

This chapter reflects the contents of the EMG R01.09.05.00.

This release contains:

- ▶ Update copyright statement for ZephyrTel [EMG] (Ref: NN28906)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [EMG]

RN-EMG-0001	Update copyright statement for ZephyrTel [EMG] (Ref: NN28906)
Release:	R01.09.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	ALL
Description:	The copyright and other statements are changed from NewNet to ZephyrTel.
Impact:	None

1.4 Software Corrections

None

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**FAF R02.12.05.00
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1 R02.12.05.00

1.1 Introduction

This chapter reflects the contents of the FAF R02.12.05.00.

This release contains:

- Update copyright statement for ZephyrTel [FAF] (Ref: NN28746)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [FAF]

RN-FAF-0001	Update copyright statement for ZephyrTel [FAF] (Ref: NN28746)
Release:	R02.12.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	ALL
Description:	The copyright and other statements are changed from NewNet to ZephyrTel.
Impact:	N.A.

1.4 Software Corrections

None

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HUB R04.12.05.00
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1 R04.12.05.00

1.1 Introduction

This document reflects the contents of the HUB R04.12.05.00.

This release contains:

- Update copyright statement for ZephyrTel [HUB] (Ref: NN28746)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [HUB]

RN-HUB-0001	Update copyright statement for ZephyrTel [HUB] (Ref: NN28746)
Release:	R04.12.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	✓ HUB
Description:	The copyright and other statements are changed from NewNet to ZephyrTel.
Impact:	None

1.4 Software Corrections

None

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IIW R01.08.04.01
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1	R01.08.04.01	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
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1.4.1	iiwCntShPullResponseSuccess is not updated after a successful response in UDA (sh-Pull response) [IIW]	1

1 R01.08.04.01

1.1 Introduction

This document reflects the contents of the IIW R01.08.04.01

This release contains:

- ▶ `iiwCntShPullResponseSuccess` is not updated after a successful response in UDA (sh-Pull response) [IIW] (Ref: NN29399)

1.2 New Functionality

None

1.3 Improvements and Changes

None.

1.4 Software Corrections

1.4.1 `iiwCntShPullResponseSuccess` is not updated after a successful response in UDA (sh-Pull response) [IIW]

RN-IIW-0001	<code>iiwCntShPullResponseSuccess</code> is not updated after a successful response in UDA (sh-Pull response) [IIW] (Ref: NN29399)
Release:	R01.08.04.01
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input checked="" type="checkbox"/> Correction
Feature or CSR:	✓ ZTPS-18117
Affected items:	✓ IIW
Description:	When data from Diameter is received for Location Information then there was a problem with increasing <code>iiwCntShPullResponseSuccess.0</code> counter value". This issue has been fixed.
Impact:	➤ None

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LGP R02.09.10.00
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1.4	Software Corrections	1

1 R02.09.10.00

1.1 Introduction

This document reflects the contents of the LGP R02.09.10.00.

This release contains:

- ▶ Enhancements for Ultracard/Multi-sim solution - Log MT Imei [LGP] (Ref: NN29214)

1.2 New Functionality

1.2.1 Enhancements for Ultracard/Multi-sim solution - Log MT Imei [LGP]

RN-LGP-0001	Enhancements for Ultracard/Multi-sim solution - Log MT Imei [LGP] (Ref: NN29214)
Release:	R02.09.10.00
Type of change:	<input checked="" type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	✓ NN29087
Affected items:	✓ LGP
Description:	LGP has been enhanced to support additional field for SIP IMEI parameter.
Impact:	None

1.3 Improvements and Changes

None

1.4 Software Corrections

None

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LGR R01.05.09.01
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2	R01.05.09.01	4
2.1	Introduction	4
2.2	New Functionality	4
2.3	Improvements and Changes	4
2.3.1	Replace GUI NewNet support link with ZT support site link [LGR]	4
2.4	Software Corrections	4

1 R01.05.09.00

1.1 Introduction

This document reflects the contents of the LGR R01.05.09.01.

This release contains:

- ▶ LGR Report Generation for external Ldap users is throwing an error (Ref: NN28163)

1.2 New Functionality

1.2.1 LGR Report Generation for external Ldap users is throwing an error

RN-LGR-0001	LGR Report Generation for external Ldap users is throwing an error (Ref: NN28163)
Release:	R01.05.09.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input checked="" type="checkbox"/> Correction
Feature or CSR:	✓ NN28163
Affected items:	✓ LGR
Description:	LGR is now fixed to be able to schedule/run reports with Ldap users.
Impact:	NA

1.3 Improvements and Changes

None.

1.4 Software Corrections

None.

2 R01.05.09.01

2.1 Introduction

This document reflects the contents of the LGR R01.05.09.01.

This release contains:

- ▶ Replace GUI NewNet support link with ZT support site link [LGR] (Ref: NN28211)

2.2 New Functionality

None.

2.3 Improvements and Changes

2.3.1 Replace GUI NewNet support link with ZT support site link [LGR]

RN-LGR-0002	Replace GUI NewNet support link with ZT support site link [LGR] (Ref: NN28211)
Release:	R01.05.09.01
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	✓ NN28211
Affected items:	✓ LGR
Description:	LGR is now updated to have links to ZephyrTel web site.
Impact:	✓ None

2.4 Software Corrections

None.

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MGR R04.15.04.00
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1	R04.15.04.00	1
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1.3.1	MGR: Privilege assignment fails for "Applications" only [MGR]	1

1 R04.15.04.00

This chapter reflects the contents of the MGR R04.15.04.00.

This release contains:

- ▶ MGR: Privilege assignment fails for "Applications" only (Ref: NN29371)

1.1 New Functionality

None

1.2 Improvements and Changes

None

1.3 Software Corrections

1.3.1 MGR: Privilege assignment fails for "Applications" only [MGR]

RN-MGR-0001	MGR: Privilege assignment fails for "Applications" only [MGR] (Ref: NN29371)
Release:	R04.15.04.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input checked="" type="checkbox"/> Correction
Feature or CSR:	ZTPS-17912
Affected items:	✓ MGR
Description:	MGR has been fixed to handle a scenario, where privilege assignment failed to set the privileges in the section "SMS Applications" for "Applications" only.
Impact:	None

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1 R01.01.05.00

1.1 Introduction

This chapter reflects the contents of the MGRP R01.01.05.00.

This release contains:

- ▶ Update copyright statement for ZephyrTel (Ref: NN28893)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update the copyright statement for ZephyrTel [MGRP]

RN-MGR-0001	Update copyright statement for ZephyrTel [MGRP] (Ref: NN28893)
Release:	R01.01.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N/A
Affected items:	MGRP
Description:	The copyright and other statements are changed from NewNet to ZephyrTel
Impact:	N/A

1.4 Software Corrections

None

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**Open Source R05.02.09.00
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1 R05.02.09.00

1.1 Introduction

This chapter reflects the contents of the packaged Open Source R05.02.09.00.

The release contains:

- Routine OpenSource Updates (18.9) (Ref: NN29016)

Refer to the annex for a complete listing of the contents of the Open Source packages.

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Routine OpenSource updates (18.9)

RN-OS-0001	Routine OpenSource updates (18.9) (Ref: NN29016)
Release:	R05.02.09.00
Type of change:	<input type="checkbox"/> New Functionality <input checked="" type="checkbox"/> Improvement <input type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A
Affected items:	Open Source
Description:	Description : Routine GENERAL OPEN SOURCE UPDATES (18.9) Resolution : Following Open Source components are updated to latest versions MySQL : 5.6.49 Cluster : 7.4.29 Apache Tomcat : 7.0.105
Impact:	N.A.

1.4 Software Corrections

None

Annexes

Open Source Packages – RHEL7

Open Source R05.02.09.00 for Red Hat Enterprise Linux 7 contains the following open source packages:

Name	Version	License
TextPassMm	1.4.2	BSD with advertising
TextPassMySQL-client-enterprise-gpl	5.6.49	Copyright 2000-2008 MySQL AB, 2008-2020 Oracle and/or its affiliates. All rights reserved. Use is subject to license terms. Under GPL license as shown in the Description field.
TextPassPerl-AnyData	0.110	Artistic/GPL
TextPassC-ares	1.10.0	GPL+ or Artistic
TextPassTshark	1.6.14	GPL
TextPassPerl-Apache2-REST	0.07	GPL+ or Artistic
TextPassPerl-Apache-AuthCookie	3.19	Artistic/GPL
TextPassPerl-DBIx-ContextualFetch	1.03	Artistic
TextPassPerl-Class-AutoAccess	0.03	Artistic/GPL
TextPassPerl-Apache-Session-Wrapper	0.34	GPL+ or Artistic
TextPassPerl-UNIVERSAL-moniker	0.08	Artistic/GPL
TextPassPerl-Data-Page	2.02	Artistic/GPL
TextPassPerl-Tie-EncryptedHash	1.24	Artistic/GPL
TextPassPerl-Text-TabularDisplay	1.34	Artistic/GPL
TextPassPerl-Term-Prompt	1.04	GPL+ or Artistic
TextPassPerl-Array-Compare	1.18	GPL+ or Artistic
TextPassPerl-ChartDirector	6.0	NewNet
TextPassPerl-Class-Accessor-Chained	0.01	GPL+ or Artistic
TextPassPerl-Class-Base	0.05	Artistic/GPL
TextPassPerl-Class-C3-XS	0.13	Artistic/GPL
TextPassPerl-File-Rsync	0.43	GPL or Artistic
TextPassPerl-Math-Pari	2.01080605	Artistic/GPL
TextPassPerl-Class-Loader	2.03	Artistic/GPL
TextPassPerl-Crypt-Random	1.25	Artistic/GPL
TextPassPerl-Net-SMPP	1.12	GPL or Artistic
TextPassPerl-Class-Date	1.1.10	GPL+ or Artistic
TextPassPerl-Class-MakeMethods	1.01	Artistic/GPL
TextPassPerl-Class-Std	0.011	GPL+ or Artistic
TextPassPerl-Class-Std-Utills	0.0.3	Artistic/GPL
TextPassPerl-Config-Std	0.900	Artistic
TextPassPerl-Convert-ASCII-Armour	1.4	Artistic/GPL

Name	Version	License
TextPassPerl-Crypt-IDEA	1.08	Artistic/GPL
TextPassPerl-JSON-DWIW	0.47	Artistic
TextPassPerl-Net-UCP-Common	0.05	GPL+ or Artistic
TextPassPerl-Net-UCP-IntTimeout	0.05	GPL+ or Artistic
TextPassPerl-Net-UCP-TransactionManager	0.02	GPL+ or Artistic
TextPassPerl-Class-C3	0.24	Artistic/GPL
TextPassPerl-Net-UCP	0.41	GPL+ or Artistic
TextPassPerl-Crypt-Primes	0.5	distributable
TextPassPerl-ExtUtils-MakeMaker-Coverage	0.05	GPL+ or Artistic
TextPassPerl-Crypt-RSA	1.99	Artistic/GPL
TextPassPerl-Net-SSH-Perl	1.34	Artistic
TextPassPerl-Net-SFTP	0.1	GPL+ or Artistic
TextPassPerl-Class-Trigger	0.14	Artistic/GPL
TextPassPerl-Class-Container	0.12	GPL+ or Artistic
TextPassPerl-Class-C3-Componentised	1.001000	Artistic/GPL
TextPassPerl-Class-DBI	3.0.17	Artistic/GPL
TextPassPerl-DBD-AnyData	0.110	Artistic/GPL
TextPassPerl-Pod-WSDL	0.061	GPL+ or Artistic
TextPassPerl-Net-SMTP_auth	0.08	Artistic/GPL
TextPassPerl-Net-SSH-Expect	1.09	GPL+ or Artistic
TextPassPerl-SQL-Abstract	1.5	GPL+ or Artistic
TextPassPerl-SQL-Abstract-Limit	0.141	GPL+ or Artistic
TextPassPerl-ExtUtils-XSBuilder	0.28	Artistic
TextPassPerl-Class-Accessor-Grouped	0.09	Artistic/GPL
TextPassPerl-Template-Toolkit	2.24	GPL or Artistic
TextPassPerl-Text-RecordParser	1.5.0	Artistic/GPL
TextPassPerl-SQL-Translator	0.11007	Artistic/GPL
TextPassPerl-DBD-Multi	0.16	Artistic/GPL
TextPassPerl-DBIx-Class	0.08012	GPL+ or Artistic
TextPassPerl-Ima-DBI	0.35	Artistic/GPL
TextPassPerl-Apache-Test	1.38	Artistic/GPL
TextPassPerl-Apache-AuthCookie	3.19	Artistic/GPL
TextPassPerl-Apache-DBI	1.11	GPL+ or Artistic
TextPassPerl-Unix-PID	0.23	Artistic/GPL
TextPassMySQL-Cluster-client	7.4.29	Copyright 2000-2008 MySQL AB, 2008-2020 Oracle and/or its affiliates All rights reserved. Use is subject to ISV license terms.
TextPassMySQL-Cluster-management	7.4.29	Copyright 2000-2008 MySQL AB, 2008-2020 Oracle and/or its affiliates All rights reserved. Use is subject to ISV license terms.

Name	Version	License
TextPassMySQL-Cluster-server	7.4.29	Copyright 2000-2008 MySQL AB, 2008-2020 Oracle and/or its affiliates All rights reserved. Use is subject to ISV license terms.
TextPassMySQL-Cluster-tools	7.4.29	Copyright 2000-2008 MySQL AB, 2008-2020 Oracle and/or its affiliates All rights reserved. Use is subject to ISV license terms.
TextPassMySQL-server-enterprise-gpl	5.6.49	Copyright 2000-2008 MySQL AB, 2008-2020 Oracle and/or its affiliates All rights reserved. Use is subject to license terms. Under GPL license as shown in the Description field.
TextPassMySQL-shared-enterprise-gpl	5.6.49	Copyright 2000-2008 MySQL AB, 2008-2020 Oracle and/or its affiliates All rights reserved. Use is subject to license terms. Under GPL license as shown in the Description field.
TextPassApache Tomcat	7.0.105	Apache License Version 2.0, January 2004, http://www.apache.org/licenses/
TextPassPerl-Linux-Notify2	1.22	GPL+ or Artistic
TextPassJPam	1.0.0	Apache License Version 2.0.

Open Source packages replaced by RHEL are listed below.

Previous Package	New Package	Version	Built By	License
TextPassPerl-Algorithm-C3	perl-Algorithm-C3	0.09	Red Hat	GPL+ or Artistic
TextPassPerl-Apache-Session	perl-Apache-Session	1.93	Red Hat	GPL+ or Artistic
TextPassPerl-AppConfig	perl-AppConfig	1.66	Red Hat	GPL+ or Artistic
TextPassPerl -Authen-SASL	perl-Authen-SASL	2.15	Red Hat	GPL+ or Artistic
TextPassPerl-autodie	perl-autodie	2.16	Red Hat	GPL+ or Artistic
TextPassPerl -Bit-Vector	perl-Bit-Vector	7.3	Red Hat	GPL+ or Artistic
TextPassPerl-BSD-Resource	perl-BSD-Resource	1.29.07	Red Hat	GPL+ or Artistic
TextPassPerl -Carp-Clan	perl-Carp-Clan	6.04	Red Hat	GPL+ or Artistic
TextPassPerl-CGI	perl-CGI	3.63	Red Hat	GPL+ or Artistic
TextPassPerl-Class-Accessor	perl-Class-Accessor	0.34	Red Hat	GPL+ or Artistic
TextPassPerl-Class-Data-Inheritable	perl-Class-Data-Inheritable	0.08	Red Hat	GPL+ or Artistic
TextPassPerl-Class-ErrorHandler	perl-Class-ErrorHandler	0.03	Red Hat	GPL+ or Artistic
TextPassPerl-Class-Factory-Util	perl-Class-Factory-Util	1.7	Red Hat	GPL+ or Artistic
TextPassPerl-Class-Inspector	perl-Class-Inspector	1.28	Red Hat	GPL+ or Artistic
TextPassPerl-Class-MethodMaker	perl-Class-MethodMaker	2.2	Red Hat	GPL+ or Artistic
TextPassPerl -Class-Singleton	perl-Class-Singleton	1.4	Red Hat	GPL+ or Artistic
TextPassPerl-Class-XSAccessor	perl-Class-XSAccessor	1.19	Red Hat	GPL+ or Artistic
TextPassPerl-Clone	perl-Clone	0.34	Red Hat	GPL+ or Artistic
TextPassPerl-common-sense	perl-common-sense	3.6	Red Hat	GPL+ or Artistic
TextPassPerl -compress-Raw-Zlib	perl-compress-Raw-Zlib	2.061	Red Hat	GPL+ or Artistic

Previous Package	New Package	Version	Built By	License
TextPassPerl-Compress-Zlib	perl-compress-Zlib	2.061	Red Hat	GPL+ or Artistic
TextPassPerl-Convert-ASN1	perl-Convert-ASN1	0.26	Red Hat	GPL+ or Artistic
TextPassPerl-Convert-BER	perl-Convert-BER	1.32	Red Hat	GPL+ or Artistic
TextPassPerl-Convert-PEM	perl-Convert-PEM	0.08	Red Hat	GPL+ or Artistic
TextPassPerl-Crypt-CBC	perl-Crypt-CBC	2.33	Red Hat	GPL+ or Artistic
TextPassPerl-Crypt-DES_EDE3	perl-Crypt-DES_EDE3	0.01	Red Hat	GPL+ or Artistic
TextPassPerl-Crypt-DES	perl-Crypt-DES	2.05	Red Hat	GPL+ or Artistic
TextPassPerl -Crypt-DH	perl-Crypt-DH	0.07	Red Hat	GPL+ or Artistic
TextPassPerl -Crypt-DSA	perl-Crypt-DSA	1.17	Red Hat	GPL+ or Artistic
TextPassPerl -Crypt-Ssleay	perl-Crypt-Ssleay	0.64	Red Hat	GPL+ or Artistic
TextPassPerl-Data-Buffer	perl-Data-Buffer	0.04	Red Hat	GPL+ or Artistic
TextPassPerl-Data-UUID	perl-Data-UUID	1.219	Red Hat	GPL+ or Artistic
TextPassPerl -Date-Calc	perl-Date-Calc	6.3	Red Hat	GPL+ or Artistic
TextPassPerl-DateManip	perl-DateManip	6.41	Red Hat	GPL+ or Artistic
TextPassPerl -DateTime-Format-Builder	perl-DateTime-Format-Builder	0.81	Red Hat	GPL+ or Artistic
TextPassPerl -DateTime-Format-HTTP	perl-DateTime-Format-HTTP	0.4	Red Hat	GPL+ or Artistic
TextPassPerl -DateTime-Format-Ibeat	perl-DateTime-Format-Ibeat	0.161	Red Hat	GPL+ or Artistic
TextPassPerl -DateTime-Format-Mail	perl-DateTime-Format-Mail	0.3001	Red Hat	GPL+ or Artistic
TextPassPerl -DateTime-Format-MySQL	perl-DateTime-Format-MySQL	0.04	Red Hat	GPL+ or Artistic
TextPassPerl -DateTime-Locale	perl-DateTime-Locale	0.45	Red Hat	GPL+ or Artistic
TextPassPerl -DateTime	perl-DateTime	1.04	Red Hat	GPL+ or Artistic
TextPassPerl -DateTime-TimeZone	perl-DateTime-TimeZone	1.63	Red Hat	GPL+ or Artistic
TextPassPerl-DBD-CSV	perl-DBD-CSV	0.38	Red Hat	GPL+ or Artistic
TextPassPerl -DBD-MySQL	perl-DBD-MySQL	4.023	Red Hat	GPL+ or Artistic
TextPassPerl -DBD-SQLite	perl-DBD-SQLite	1.39	Red Hat	GPL+ or Artistic
TextPassPerl-DBI	perl-DBI	1.627	Red Hat	GPL+ or Artistic
TextPassPerl-Devel-Cycle	perl-Devel-Cycle	1.11	Red Hat	GPL+ or Artistic
TextPassPerl-Devel-Leak	perl-Devel-Leak	0.03	Red Hat	GPL+ or Artistic
TextPassPerl-Devel-StackTrace	perl-Devel-StackTrace	1.3	Red Hat	GPL+ or Artistic
TextPassPerl -Devel-Symdump	perl-Devel-Symdump	2.1	Red Hat	GPL+ or Artistic
TextPassPerl -Digest-CRC	perl-Digest-CRC	0.18	Red Hat	GPL+ or Artistic
TextPassPerl -Digest-HMAC	perl-Digest-HMAC	1.03	Red Hat	GPL+ or Artistic
TextPassPerl -Digest-MD2	perl-Digest-MD2	2.04	Red Hat	GPL+ or Artistic
TextPassPerl -Digest-SHA1	perl-Digest-SHA1	2.13	Red Hat	GPL+ or Artistic
TextPassPerl -Digest-SHA	perl-Digest-SHA	5.85	Red Hat	GPL+ or Artistic
TextPassPerl -Email-Date-Format	perl-Email-Date-Format	1.002	Red Hat	GPL+ or Artistic
TextPassPerl -Error	perl-Error	0.1702	Red Hat	GPL+ or Artistic
TextPassPerl -Exception-Class	perl-Exception-Class	1.37	Red Hat	GPL+ or Artistic

Previous Package	New Package	Version	Built By	License
TextPassPerl -Expect	perl-Expect	1.21	Red Hat	GPL+ or Artistic
TextPassPerl-ExtUtils-CBuilder	perl-ExtUtils-Cbuilder	0.28.2	Red Hat	GPL+ or Artistic
TextPassPerl-ExtUtils-Embed	perl-ExtUtils-Embed	1.3	Red Hat	GPL+ or Artistic
TextPassPerl-ExtUtils-MakeMaker	perl-ExtUtils-MakeMaker	6.68	Red Hat	GPL+ or Artistic
TextPassPerl-ExtUtils-ParseXS	perl-ExtUtils-ParseXS	3.18	Red Hat	GPL+ or Artistic
TextPassPerl -FCGI	perl-FCGI	0.74	Red Hat	GPL+ or Artistic
TextPassPerl-File-Fetch	perl-File-Fetch	0.42	Red Hat	GPL+ or Artistic
TextPassPerl-File-Remove	perl-File-Remove	1.52	Red Hat	GPL+ or Artistic
TextPassPerl-File-ShareDir	perl-File-ShareDir	1.03	Red Hat	GPL+ or Artistic
TextPassPerl -File-Which	perl-File-Which	1.09	Red Hat	GPL+ or Artistic
TextPassPerl -GD	perl-GD	2.49	Red Hat	GPL+ or Artistic
TextPassPerl -GraphViz	perl-GraphViz	2.14	Red Hat	GPL+ or Artistic
TextPassPerl -GSSAPI	perl-GSSAPI	0.28	Red Hat	GPL+ or Artistic
TextPassPerl -HTML-Parser	perl-HTML-Parser	3.71	Red Hat	GPL+ or Artistic
TextPassPerl -HTML-Tagset	perl-HTML-Tagset	3.2	Red Hat	GPL+ or Artistic
TextPassPerl -IO-Compress-Base	perl-IO-Compress-Base	2.061	Red Hat	GPL+ or Artistic
TextPassPerl-IO-Compress-Bzip2	perl-IO-Compress-Bzip2	2.061	Red Hat	GPL+ or Artistic
TextPassPerl-IO-Compress-Zlib	perl-IO-Compress-Zlib	2.061	Red Hat	GPL+ or Artistic
TextPassPerl -IO-stringy	perl-IO-stringy	2.11	Red Hat	GPL+ or Artistic
TextPassPerl -IO-Tty	perl-IO-Tty	1.1	Red Hat	GPL+ or Artistic
TextPassPerl-IO-Zlib	perl-IO-Zlib	1.1	Red Hat	GPL+ or Artistic
TextPassPerl-IPC-Cmd	perl-IPC-Cmd	0.8	Red Hat	GPL+ or Artistic
TextPassPerl -IPC-Run	perl-IPC-Run	0.92	Red Hat	GPL+ or Artistic
TextPassPerl -IPC-Run3	perl-IPC-Run3	0.045	Red Hat	GPL+ or Artistic
TextPassPerl-IPC-System-Simple	perl-IPC-System-Simple	1.25	Red Hat	GPL+ or Artistic
TextPassPerl-Jcode	perl-Jcode	2.07	Red Hat	GPL+ or Artistic
TextPassPerl -JSON	perl-JSON	2.59	Red Hat	GPL+ or Artistic
TextPassPerl -JSON-Any	perl-JSON-Any	1.32	Red Hat	GPL+ or Artistic
TextPassPerl -JSON-XS	perl-JSON-XS	3.01	Red Hat	GPL+ or Artistic
TextPassPerl-libapreq2	perl-libapreq2	2.13	Red Hat	GPL+ or Artistic
TextPassPerl-libs	perl-libs	5.16.3	Red Hat	GPL+ or Artistic
TextPassPerl -libwww-perl	perl-libwww-perl	6.05	Red Hat	GPL+ or Artistic
TextPassPerl -libxml-perl	perl-libxml-perl	0.08	Red Hat	GPL+ or Artistic
TextPassPerl-List-MoreUtils	perl-List-MoreUtils	0.33	Red Hat	GPL+ or Artistic
TextPassPerl-Locale-Maketext-Simple	perl-Locale-Maketext-Simple	0.21	Red Hat	GPL+ or Artistic
TextPassPerl-Log-Dispatch	perl-Log-Dispatch	2.41	Red Hat	GPL+ or Artistic
TextPassPerl-Log-Dispatch-FileRotate	perl-Log-Dispatch-FileRotate	1.19	Red Hat	GPL+ or Artistic
TextPassPerl-Log-Log4perl	perl-Log-Log4perl	1.42	Red Hat	GPL+ or Artistic

Previous Package	New Package	Version	Built By	License
TextPassPerl-Log-Message	perl-Log-Message	0.08	Red Hat	GPL+ or Artistic
TextPassPerl-Log-Message-Simple	perl-Log-Message	0.19	Red Hat	GPL+ or Artistic
TextPassPerl-Mail-Sender	perl-Mail-Sender	0.8.23	Red Hat	GPL+ or Artistic
TextPassPerl-Mail-Sendmail	perl-Mail-Sendmail	0.79	Red Hat	GPL+ or Artistic
TextPassPerl-MailTools	perl-MailTools	2.12	Red Hat	GPL+ or Artistic
TextPassPerl-Math-GMP	perl-Math-GMP	2.07	Red Hat	GPL+ or Artistic
TextPassPerl-MIME-Lite	perl-MIME-Lite	3.03	Red Hat	GPL+ or Artistic
TextPassPerl-MIME-Types	perl-MIME-Types	1.38	Red Hat	GPL+ or Artistic
TextPassPerl-Module-Build	perl-Module-Build	0.40.05	Red Hat	GPL+ or Artistic
TextPassPerl-Module-CoreList	perl-Module-CoreList	2.76.02	Red Hat	GPL+ or Artistic
TextPassPerl-Module-Find	perl-Module-Find	0.12	Red Hat	GPL+ or Artistic
TextPassPerl-Module-Install	perl-Module-Install	1.06	Red Hat	GPL+ or Artistic
TextPassPerl-Module-Load	perl-Module-Load	0.24	Red Hat	GPL+ or Artistic
TextPassPerl-Module-Load-Conditional	perl-Module-Load-Conditional	0.24	Red Hat	GPL+ or Artistic
TextPassPerl-Module-Loaded	perl-Module-Loaded	0.08	Red Hat	GPL+ or Artistic
TextPassPerl-Module-Pluggable	perl-Module-Pluggable	4.8	Red Hat	GPL+ or Artistic
TextPassPerl-Module-ScanDeps	perl-Module-ScanDeps	1.1	Red Hat	GPL+ or Artistic
TextPassPerl-MRO-Compat	perl-MRO-Compat	0.12	Red Hat	GPL+ or Artistic
TextPassPerl-Net-SFTP-Foreign	perl-Net-SFTP-Foreign	1.81	Red Hat	GPL+ or Artistic
TextPassPerl-Net-SNMP	perl-Net-SNMP	6.0.1	Red Hat	GPL+ or Artistic
TextPassPerl-Object-Accessor	perl-Object-Accessor	0.42	Red Hat	GPL+ or Artistic
TextPassPerl-OLE-Storage_Lite	perl-OLE-Storage_Lite	0.19	Red Hat	GPL+ or Artistic
TextPassPerl-Params-Check	perl-Params-Check	0.38	Red Hat	GPL+ or Artistic
TextPassPerl-Params-Util	perl-Params-Util	1.07	Red Hat	GPL+ or Artistic
TextPassPerl-Params-Validate	perl-Params-Validate	1.08	Red Hat	GPL+ or Artistic
TextPassPerl-PAR-Dist	perl-PAR-Dist	0.49	Red Hat	GPL+ or Artistic
TextPassPerl-Perl-Parse-RecDescent	perl-Perl-Parse-RecDescent	1.967009	Red Hat	GPL+ or Artistic
TextPassPerl-Path-Class	perl-Path-Class	0.33	Red Hat	GPL+ or Artistic
TextPassPerl-Pod-Coverage	perl-Pod-Coverage	0.23	Red Hat	GPL+ or Artistic
TextPassPerl-Pod-Escapes	perl-Pod-Escapes	1.04	Red Hat	GPL+ or Artistic
TextPassPerl-Pod-POM	perl-Pod-POM	0.27	Red Hat	GPL+ or Artistic
TextPassPerl-Pod-Simple	perl-Pod-Simple	3.28	Red Hat	GPL+ or Artistic
TextPassPerl-Probe-Perl	perl-Probe-Perl	0.02	Red Hat	GPL+ or Artistic
TextPassPerl-Readonly	perl-Readonly	1.03	Red Hat	GPL+ or Artistic
TextPassPerl-REST-Client	perl-REST-Client	272	Red Hat	GPL+ or Artistic
TextPassPerl-Scope-Guard	perl-Scope-Guard	0.2	Red Hat	GPL+ or Artistic
TextPassPerl-SOAP-Lite	perl-SOAP-Lite	1.1	Red Hat	GPL+ or Artistic
TextPassPerl-Sort-Versions	perl-Sort-Versions	1.5	Red Hat	GPL+ or Artistic
TextPassPerl-Spiffy	perl-Spiffy	0.31	Red Hat	GPL+ or Artistic
TextPassPerl-Spreadsheet-ParseExcel	perl-Spreadsheet-ParseExcel	0.59	Red Hat	GPL+ or Artistic

Previous Package	New Package	Version	Built By	License
TextPassPerl-SQL-Statement	perl-SQL-Statement	1.405	Red Hat	GPL+ or Artistic
TextPassPerl-String-Escape	perl-String-Escape	2010.002	Red Hat	GPL+ or Artistic
TextPassPerl-Sub-Identify	perl-Sub-Identify	0.04	Red Hat	GPL+ or Artistic
TextPassPerl-Sub-Name	perl-Sub-Name	0.09	Red Hat	GPL+ or Artistic
TextPassPerl-Sub-Uplevel	perl-Sub-Uplevel	0.24	Red Hat	GPL+ or Artistic
TextPassPerl-Sys-CPU	perl-Sys-CPU	0.54	Red Hat	GPL+ or Artistic
TextPassPerl -Sys-SigAction	perl-Sys-SigAction	0.2	Red Hat	GPL+ or Artistic
TextPassPerl -Term-ProgressBar	perl-Term-ProgressBar	2.16	Red Hat	GPL+ or Artistic
TextPassPerl-Term-UI	perl-Term-UI	0.36	Red Hat	GPL+ or Artistic
TextPassPerl-TermReadKey	perl-TermReadKey	2.3	Red Hat	GPL+ or Artistic
TextPassPerl -Test-Base	perl-Test-Base	0.62	Red Hat	GPL+ or Artistic
TextPassPerl-Test-Deep	perl-Test-Deep	0.11	Red Hat	GPL+ or Artistic
TextPassPerl-Test-Exception	perl-Test-Exception	0.32	Red Hat	GPL+ or Artistic
TextPassPerl-Test-Harness	perl-Test-Harness	3.28	Red Hat	GPL+ or Artistic
TextPassPerl-Test-Memory-Cycle	perl-Test-Memory-Cycle	1.04	Red Hat	GPL+ or Artistic
TextPassPerl-Test-NoWarnings	perl-Test-NoWarnings	1.04	Red Hat	GPL+ or Artistic
TextPassPerl-Test-Pod	perl-Test-Pod	1.48	Red Hat	GPL+ or Artistic
TextPassPerl-Test-Pod-Coverage	perl-Test-Pod-Coverage	1.08	Red Hat	GPL+ or Artistic
TextPassPerl-Test-Script	perl-Test-Script	1.07	Red Hat	GPL+ or Artistic
TextPassPerl-Test-Simple	perl-Test-Simple	0.98	Red Hat	GPL+ or Artistic
TextPassPerl-Test-Tester	perl-Test-Tester	0.109	Red Hat	GPL+ or Artistic
TextPassPerl-Test-Warn	perl-Test-Warn	0.24	Red Hat	GPL+ or Artistic
TextPassPerl -Text-Autoformat	perl-Text-Autoformat	1.669004	Red Hat	GPL+ or Artistic
TextPassPerl-Text-CSV_XS	perl-Text-CSV_XS	1	Red Hat	GPL+ or Artistic
TextPassPerl Text-Reform	perl-Text-Reform	1.2	Red Hat	GPL+ or Artistic
TextPassPerl-Tie-IxHash	perl-Tie-IxHash	1.22	Red Hat	GPL+ or Artistic
TextPassPerl-TimeDate	perl-TimeDate	2.3	Red Hat	GPL+ or Artistic
TextPassPerl-Time-HiRes	perl-Time-HiRes	1.9725	Red Hat	GPL+ or Artistic
TextPassPerl-Tree-DAG_Node	perl-Tree-DAG_Node	1.12	Red Hat	GPL+ or Artistic
TextPassPerl-URI	perl-URI	1.6	Red Hat	GPL+ or Artistic
TextPassPerl-version	perl-version	0.99.07	Red Hat	GPL+ or Artistic
TextPassPerl-Text-CSV_XS	perl-Text-CSV_XS	1	Red Hat	GPL+ or Artistic
TextPassPerl Text-Reform	perl-Text-Reform	1.2	Red Hat	GPL+ or Artistic
TextPassPerl-Tie-IxHash	perl-Tie-IxHash	1.22	Red Hat	GPL+ or Artistic
TextPassPerl-TimeDate	perl-TimeDate	2.3	Red Hat	GPL+ or Artistic
TextPassPerl-Time-HiRes	perl-Time-HiRes	1.9725	Red Hat	GPL+ or Artistic
TextPassPerl-Tree-DAG_Node	perl-Tree-DAG_Node	1.12	Red Hat	GPL+ or Artistic
TextPassPerl-URI	perl-URI	1.6	Red Hat	GPL+ or Artistic
TextPassPerl-version	perl-version	0.99.07	Red Hat	GPL+ or Artistic
TextPassPerl-XML-DOM	perl-XML-DOM	1.44	Red Hat	GPL+ or Artistic

Previous Package	New Package	Version	Built By	License
TextPassPerl-XML-LibXML	perl-XML-LibXML	2.0018	Red Hat	GPL+ or Artistic
TextPassPerl-XML-LibXML-Common	perl-XML-LibXML-Common	2.0018	Red Hat	GPL+ or Artistic
TextPassPerl-XML-LibXSLT	perl-XML-LibXSLT	1.8	Red Hat	GPL+ or Artistic
TextPassPerl-XML-NamespaceSupport	perl-XML-NamespaceSupport	1.11	Red Hat	GPL+ or Artistic
TextPassPerl-XML-Parser	perl-XML-Parser	2.41	Red Hat	GPL+ or Artistic
TextPassPerl-XML-RegExp	perl-XML-RegExp	0.04	Red Hat	GPL+ or Artistic
TextPassPerl-XML-SAX	perl-XML-SAX	0.99	Red Hat	GPL+ or Artistic
TextPassPerl-XML-Simple	perl-XML-Simple	2.2	Red Hat	GPL+ or Artistic
TextPassPerl-XML-Twig	perl-XML-Twig	3.44	Red Hat	GPL+ or Artistic
TextPassPerl-XML-Writer	perl-XML-Writer	0.623	Red Hat	GPL+ or Artistic
TextPassPerl-XML-XPath	perl-XML-XPath	1.13	Red Hat	GPL+ or Artistic
TextPassPerl-YAML	perl-YAML	0.84	Red Hat	GPL+ or Artistic
TextPassPerl-YAML-Syck	perl-YAML-Syck	1.27	Red Hat	GPL+ or Artistic
TextPassPerl-YAML-Tiny	perl-YAML-Tiny	1.51	Red Hat	GPL+ or Artistic
TextPassRsync	rsync	3.1.2	Red Hat	GPL+ or Artistic
TextPassNet-snmp	net-snmp	5.7.2	Red Hat	GPL+ or Artistic
TextPassNet-snmp-libs	net-snmp-libs	5.7.2	Red Hat	GPL+ or Artistic
TextPassNet-snmp-perl	net-snmp-perl	5.7.2	Red Hat	GPL+ or Artistic
TextPassNet-snmp-utils	net-snmp-utils	5.7.2	Red Hat	GPL+ or Artistic
TextPassPerl-Email-Valid	Perl-Email-Valid	1.198	Red Hat	GPL+ or Artistic
TextPassLibxml2	libxml2	2.9.1	Red Hat	GPL+ or Artistic
TextPassBerkeleydb	db4	5.3.21	Red Hat	GPL+ or Artistic
TextPassLm_sensors	lm_sensors	3.4.0	Red Hat	GPL+ or Artistic
TextPassLibapreq2	libapreq2	2.13	Red Hat	GPL+ or Artistic
TextPassC-ares	c-ares	1.1	Red Hat	GPL+ or Artistic
TextPassHttpd	httpd	2.4.6	Red Hat	GPL+ or Artistic
TextPassLibxslt	libxslt	1.1.28	Red Hat	GPL+ or Artistic
TextPassBerkeleydb	libdb	5.3.21	Red Hat	GPL+ or Artistic
TextPassMod_perl	mod_perl	2.0.10	Red Hat	GPL+ or Artistic
TextPassMod_ssl	mod_ssl	2.4.6	Red Hat	GPL+ or Artistic
TextPassPerl	perl	5.16.3	Red Hat	GPL+ or Artistic

ZephyrTel Mobile Messaging

PBC R02.11.04.00
Release Notes

ZephyrTel

CloudForward

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1 R02.11.04.00

1.1 Introduction

This chapter reflects the contents of the PBC R02.11.04.00.

This release contains:

- NN-29563 : Lithium - PBC lacks incoming variable for ext.attributes (porting to HEAD) [PBC] (Ref: NN29563)

1.2 New Functionality

1.2.1 Lithium - PBC lacks incoming variable for ext.attributes (porting to HEAD)[PBC]

RN-PBC-0001	Lithium - PBC lacks incoming variable for ext.attributes (porting to HEAD [PBC] (Ref: NN29563)
Release:	R02.11.04.00
Type of change:	<input checked="" type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	✓ ZTPS-12422
Affected items:	✓ PBC
Description:	<p>A read-only "in.attribute.X" variables to PBC scripts is introduced where X is between [1-32] which can be set by using "MessageFields::externalAttributes" ECI field in EvaluationRequest and TerminationRequest.</p> <p>For example if externalAttributes is set to the following 32 bit string: externalAttributes => '10110001000011110111011100001100' then you can read each binary digit as the following in PBC script:</p> <pre>in.attribute.1 = 1 in.attribute.2 = 0 in.attribute.3 = 1 ... in.attribute.32 = 0</pre>
Impact:	None

1.3 Improvements and Changes

None

1.4 Software Corrections

None

ZephyrTel Mobile Messaging

REI R01.01.05.00
Release Notes

ZephyrTel

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1 R01.01.05.00

1.1 Introduction

This chapter reflects the contents of the REI R01.01.05.00.

This release contains:

- Update copyright statement for ZephyrTel (Ref: NN28893)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel

RN-REI-0001	Update copyright statement for ZephyrTel (Ref: NN28893)
Release:	R01.01.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	ALL
Description:	The copyright and other statements are changed from NewNet to ZephyrTel.
Impact:	N.A.

1.4 Software Corrections

None

ZephyrTel Mobile Messaging

RTR R04.13.04.05
Release Notes

ZephyrTel

CloudForward

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1 R04.13.04.00

1.1 Introduction

This document reflects the contents of the RTR R04.13.04.00.

This release contains:

- ▶ 5G Domain Selection in IPSMGW [RTR] (Ref: NN29534)

1.2 New Functionality

1.2.1 5G Domain Selection in IPSMGW [RTR]

RN-RTR-0001	5G Domain Selection in IPSMGW [RTR] (Ref: NN29534)
Release:	R04.13.04.00
Type of change:	<input checked="" type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	✓ ZTPS-19535
Affected items:	✓ RTR
Description:	RTR has been enhanced such that IPSM-GW can select the target domain when no MME Name can be retrieved from HSS (either UDR failure/timeout, or no valid MME Name available in UDA). In order to choose the target domain in this scenario, the semi-static parameter domainwhennomname of RTR can be used.
Impact:	NA

1.3 Improvements and Changes

None

1.4 Software Corrections

None

2 R04.13.04.01

2.1 Introduction

This document reflects the contents of the RTR R04.13.04.01.

This release contains:

- ▶ SRISM Loop Avoidance on HLR by changing NP [RTR] (Ref: NN29546)

2.2 New Functionality

2.2.1 SRISM Loop Avoidance on HLR by changing NP [RTR]

RN-RTR-0002	▶ SRISM Loop Avoidance on HLR by changing NP [RTR] (Ref: NN29546)
Release:	R04.13.04.01
Type of change:	<input checked="" type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	<input checked="" type="checkbox"/> ZTPS-19535
Affected items:	<input checked="" type="checkbox"/> RTR
Description:	RTR has been enhanced to be able to set the SRI-SM SCCP Calling Party Address Numbering Plan value via 2 new semi-static configuration parameters named smsregsrismscpcpanp and smsmtrismscpcpanp.
Impact:	This functionality requires: > Tools-R04.12.04.01 or later

2.3 Improvements and Changes

None

2.4 Software Corrections

None

3 R04.13.04.03

3.1 Introduction

This document reflects the contents of the RTR R04.13.04.03.

This release contains:

- ▶ smsContents field of tp_fcdr are garbled when command is used with --output=/dirname [RTR] (Ref: NN29328)

3.2 New Functionality

None

3.3 Improvements and Changes

None

3.4 Software Corrections

3.4.1 smsContents field of tp_fcdr are garbled when command is used with --output=/dirname [RTR]

RN-RTR-0003	smsContents field of tp_fcdr are garbled when command is used with --output=/dirname [RTR] (Ref: NN29328)
Release:	R04.13.04.03
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input checked="" type="checkbox"/> Correction
Feature or CSR:	✓ ZTPS-17294
Affected items:	✓ RTR
Description:	In tp_fcdr perl script, there was an encoding problem for Japanese characters in the message content when tp_fcdr script is executed with output file as an argument, which resulted in printing invalid characters in place of the Japanese characters post decoding. This issue has been fixed.
Impact:	NA

4 R04.13.04.05

4.1 Introduction

This document reflects the contents of the RTR R04.13.04.05.

This release contains:

- ▶ Mapping of mapError / Internal Error and RP-ERROR [RTR] (Ref: NN 29310)

4.2 New Functionality

None

4.3 Improvements and Changes

None

4.4 Software Corrections

4.4.1 Mapping of mapError / Internal Error and RP-ERROR [RTR]

RN-RTR-0004	smsContents field of tp_fcdm are garbled when command is used with --output=/dirname [RTR] (Ref: NN29310)
Release:	R04.13.04.05
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input checked="" type="checkbox"/> Correction
Feature or CSR:	✓ ZTPS-17295
Affected items:	✓ RTR
Description:	The MO rule matching in the RTR and the return error from the RTR to IIW was not set to the configured gsm_error. This issue has been fixed.
Impact:	NA

ZephyrTel Mobile Messaging

SPF R01.10.05.00
Release Notes

ZephyrTel

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1 R01.10.05.00

1.1 Introduction

This chapter reflects the contents of the SPF R01.10.05.00.

This release contains:

- Update copyright statement for ZephyrTel [SPF] (Ref: NN28746)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [SPF]

RN-SPF-0001	Update copyright statement for ZephyrTel [SPF] (Ref: NN28746)
Release:	R01.10.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	ALL
Description:	The copyright and other statements are changed from NewNet to ZephyrTel.
Impact:	N.A.

1.4 Software Corrections

None

ZephyrTel Mobile Messaging

SSI R01.09.05.00
Release Notes

ZephyrTel

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1 R01.09.05.00

1.1 Introduction

This chapter reflects the contents of the SSI R01.09.05.00.

This release contains:

- ▶ Update copyright statement for ZephyrTel [SSI] (Ref: NN28746)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [SSI]

RN-SSI-0001	Update copyright statement for ZephyrTel [SSI] (Ref: NN28746)
Release:	R01.09.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	ALL
Description:	The copyright and other statements are changed from NewNet to ZephyrTel.
Impact:	N.A.

1.4 Software Corrections

None

ZephyrTel Mobile Messaging

**STV R04.13.05.00
Release Notes**

ZephyrTel

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1 R04.13.05.00

1.1 Introduction

This document reflects the contents of the STV R04.13.05.00.

This release contains:

- ▶ Update copyright statement for ZephyrTel [STV] (Ref: NN28893)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [STV]

RN-STV-0001	Update copyright statement for ZephyrTel (Ref: NN28893)
Release:	R04.13.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	✓ N/A
Affected items:	✓ STV
Description:	The copyright and other statements are changed from NewNet to ZephyrTel.
Impact:	N/A

1.4 Software Corrections

None

ZephyrTel Mobile Messaging

**Tools R04.12.04.01
Release Notes**

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1 R04.12.04.00

1.1 Introduction

This document reflects the contents of the Tools R04.12.04.00.

This release contains:

- 5G Domain Selection in IPSMGW [Tools](Ref: NN-29552)

1.2 New Functionality

1.2.1 5G Domain Selection in IPSMGW [Tools]

RN-Tools-0001	5G Domain Selection in IPSMGW [Tools]((Ref: NN29552)
Release:	R04.12.04.00
Type of change:	<input checked="" type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	✓ ZTPS-19535
Affected items:	✓ Tools
Description:	RTR MIB file has been updated to include the new semi-static parameter named domainwhennomname.
Impact:	This functionality requires: <ul style="list-style-type: none">➤ RTR-R04.13.04.01 or later

1.3 Improvements and Changes

None

1.4 Software Corrections

None

2 R04.12.04.01

2.1 Introduction

This document reflects the contents of the Tools R04.12.04.01.

This release contains:

- SRISM Loop Avoidance on HLR by changing NP [Tools](Ref: NN29546)

2.2 New Functionality

2.2.1 SRISM Loop Avoidance on HLR by changing NP [Tools]

RN-Tools-0002	SRISM Loop Avoidance on HLR by changing NP [Tools] (Ref: NN29546)
Release:	R04.12.04.01
Type of change:	<input checked="" type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	✓ ZTPS-19535
Affected items:	✓ Tools
Description:	RTR MIB has been updated to include the 2 new semi-static parameters named smsregsrismsccpcgpanp and smsmtsrismsccpcgpanp.
Impact:	This functionality requires: <ul style="list-style-type: none">➤ RTR-R04.13.04.01 or later

2.3 Improvements and Changes

None

2.4 Software Corrections

None

ZephyrTel Mobile Messaging

XS-ARP R01.08.05.00

Release Notes

ZephyrTel

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1 R01.08.05.00

1.1 Introduction

This chapter reflects the contents of XS-ARP R01.08.05.00.
This release contains:

- Update copyright statement for ZephyrTel [XSARP] (Ref: NN28895)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [XSARP]

RN-XSARP-0001	Update copyright statement for ZephyrTel [XSARP] (Ref: NN28895)
Release:	R01.08.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	ALL
Description:	The copyright statement is changed from NewNet to ZephyrTel.
Impact:	N.A.

1.4 Software Corrections

None

ZephyrTel Mobile Messaging

XS-BWL R02.08.05.00

Release Notes

ZephyrTel

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1 R02.08.05.00

1.1 Introduction

This chapter reflects the contents of XS-BWL R02.08.05.00.

This release contains:

- Update copyright statement for ZephyrTel [XSBWL] (Ref: NN28895)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [XSBWL]

RN-XSBWL-0001	Update copyright statement for ZephyrTel [XSBWL] (Ref: NN28895)
Release:	R02.08.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	ALL
Description:	The copyright statement is changed from NewNet to ZephyrTel.
Impact:	N.A.

1.4 Software Corrections

None

ZephyrTel Mobile Messaging

XSCP Y R02.09.05.00
Release Notes

ZephyrTel

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1 R02.09.05.00

1.1 Introduction

This document reflects the contents of the XSCPY R02.09.05.00.

This release contains:

- Update copyright statement for ZephyrTel [XSCPY] (Ref: NN28895)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [XSCPY]

RN-XSCPY-0001	Update copyright statement for ZephyrTel [XSCPY] (Ref: NN28895)
Release:	R02.09.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	ALL
Description:	The copyright statement is changed from NewNet to ZephyrTel.
Impact:	N.A.

1.4 Software Corrections

None

ZephyrTel Mobile Messaging

XSDIL R02.08.05.00
Release Notes

ZephyrTel

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1 R02.08.05.00

1.1 Introduction

This document reflects the contents of the XSDIL R02.08.05.00

This release contains:

- Update copyright statement for ZephyrTel [XSDIL] (Ref: NN28895)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [XSDIL]

RN-XSDIL-0001	Update copyright statement for ZephyrTel [XSDIL] (Ref: NN28895)
Release:	R02.08.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	ALL
Description:	The copyright statement is changed from NewNet to ZephyrTel.
Impact:	N.A.

1.4 Software Corrections

None

ZephyrTel Mobile Messaging

XSFWD R02.09.05.00
Release Notes

ZephyrTel

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1 R02.09.05.00

1.1 Introduction

This chapter reflects the contents of the XSFWD R02.09.05.00.

This release contains:

- Update copyright statement for ZephyrTel [XSFWD] (Ref: NN28895)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [XSFWD]

RN-XSFWD-0001	Update copyright statement for ZephyrTel [XSFWD] (Ref: NN28895)
Release:	R02.09.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	ALL
Description:	The copyright statement is changed from NewNet to ZephyrTel.
Impact:	N.A.

1.4 Software Corrections

None

ZephyrTel Mobile Messaging

XSINT R01.03.05.00
Release Notes

ZephyrTel

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1 R01.03.05.00

1.1 Introduction

This chapter reflects the contents of the XSINT R01.03.05.00.

This release contains:

- Update copyright statement for ZephyrTel [XSINT] (Ref:28902)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [XSINT]

RN-XSINT-0001	Update copyright statement for ZephyrTel [XSINT] (Ref:28902)
Release:	R01.03.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	ALL
Description:	The copyright is changed from NewNet to ZephyrTel
Impact:	N.A.

1.4 Software Corrections

None

ZephyrTel Mobile Messaging

XSMC R01.12.05.00
Release Notes

ZephyrTel

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1 R01.12.05.00

1.1 Introduction

This chapter reflects the contents of the XSMLC R01.12.05.00.

This release contains:

- Update copyright statement for ZephyrTel [XSMLC] (Ref:28902)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [XSMLC]

RN-XSMLC-0001	Update copyright statement for ZephyrTel [XSMLC] (Ref:28902)
Release:	R01.12.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A
Affected items:	ALL
Description:	The copyright is changed from NewNet to ZephyrTel
Impact:	N.A.

1.4 Software Corrections

None

ZephyrTel Mobile Messaging

XSMOD R01.12.05.00

Release Notes

ZephyrTel

CloudForward

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1 R01.12.05.00

1.1 Introduction

This chapter reflects the contents of the XSMOD R01.12.05.00.

This release contains:

- Update copyright statement for ZephyrTel [XSMOD] (Ref:28902)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [XSMOD]

RN-XSMOD-0001	Update copyright statement for ZephyrTel [XSMOD] (Ref:28902)
Release:	R01.12.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A
Affected items:	ALL
Description:	The copyright is changed from NewNet to ZephyrTel
Impact:	N.A.

1.4 Software Corrections

None

ZephyrTel Mobile Messaging

XSSIG R01.08.05.00
Release Notes

ZephyrTel

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1 R01.08.05.00

1.1 Introduction

This chapter reflects the contents of the XSSIG R01.08.05.00.

This release contains:

- Update copyright statement for ZephyrTel [XSSIG] (Ref:28902)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [XSSIG]

RN-XSSIG-0001	Update copyright statement for ZephyrTel [XSSIG] (Ref:28902)
Release:	R01.08.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A
Affected items:	ALL
Description:	The copyright is changed from NewNet to ZephyrTel
Impact:	N.A.

1.4 Software Corrections

None

ZephyrTel Mobile Messaging

XSTIE R01.11.05.00
Release Notes

ZephyrTel

CloudForward

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1 R01.11.05.00

1.1 Introduction

This chapter reflects the contents of XSTIE R01.11.05.00.

This release contains:

- Update copyright statement for ZephyrTel [XSTIE] (Ref:28902)

1.2 New Functionality

None

1.3 Improvements and Changes

1.3.1 Update copyright statement for ZephyrTel [XSTIE]

RN-XSTIE-0001	Update copyright statement for ZephyrTel [XSTIE] (Ref:28902)
Release:	R01.11.05.00
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A
Affected items:	ALL
Description:	The copyright is changed from NewNet to ZephyrTel
Impact:	N.A.

1.4 Software Corrections

None