

ZephyrTel Mobile Messaging

RTR R04.12.10.06
Release Notes

ZephyrTel

CloudForward

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1 R04.12.10.01

1.1 Introduction

This document reflects the contents of the RTR R04.12.10.01.

This release contains:

- ▶ error_type and error_value fields are not updated in CDR in case of (Bad Request-Error 400) returned during SIPT delivery attempt [RTR] (Ref: NN28877)

1.2 New Functionality

None

1.3 Improvements and Changes

None

1.4 Software Corrections

1.4.1 error_type and error_value fields are not updated in CDR in case of (Bad Request-Error 400) returned during SIPT delivery attempt [RTR]

RN-RTR-0001	error_type and error_value fields are not updated in CDR in case of (Bad Request-Error 400) returned during SIPT delivery attempt [RTR] (Ref: NN28877)
Release:	R04.12.10.01
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-10964
Affected items:	✓ RTR
Description:	The error_type and error_value are updated to MAP Error and UNSPECIFIED_EQUIPMENT respectively when the SIPT delivery is rejected with Bad Request – Error 400.
Impact:	✓ None

2 R04.12.10.02

2.1 Introduction

This document reflects the contents of the RTR R04.12.10.02.

This release contains:

- ▶ Ultracard Enhancement Solution [RTR] (Ref: NN28956)

2.2 New Functionality

2.2.1 Ultracard Enhancement Solution [RTR]

RN-RTR-0002	Ultracard Enhancement Solution [RTR] (Ref: NN28956)
Release:	R04.12.10.02
Type of change:	<input checked="" type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	✓ 28319
Affected items:	✓ RTR
Description:	<p>The RTR component has been enhanced to support SIPMO and SIPMT flows in the 4G network from/to an ultra-card device. An Ultra-Card group consists of multiple SIM-cards, one Master and one or two Slaves, all sharing the same MSISDN of the Master. The device, which is allowed to send and receive SMS's is called APD (Active Paging Device). The device can be switched to become APD, at any time, by any user of the UC group . The other(s) become(s) at the same moment non-APD device(s).</p> <p>The RTR component handles following functionality:</p> <ul style="list-style-type: none"> ○ To Register the UC subscriber, an ATM is sent to HLR based on the IMSI received in the SIP REGISTER request and dedicated SCF address using the semi-static configuration scfaddressformapm. ○ The RTR component identifies if the device is Ultra card APD by comparing the IMSI received in the SIPMO request with the IMSI from the SRI-SM response for the originator. If the IMSIs do not match, RTR rejects the flow with Facility Not Supported. ○ The RTR component identifies the SIPMT device as UC/APD by comparing the location info received in the SRI-SM response with the nique map ATM address scfaddressformapm. <p>Once the device is identified as ultra-card/APD, then routing of any further messages to the device is done based on the IMEI of the device so that message is delivered to the specific device in the group. To get the IMEI, IIW is enhanced to query IMEISV from the HSS with few new AVPs.</p> <p>For SIPMO RP-ACK is sent with the following SIP headers Accept-Contact : *;require:explicit;+sip.instance="<urn:gsma:imei:xxxx> Reject-Contact: *;+g.3gpp.ics="server"</p> <p>The SPMT is delivered with the following headers attached: To Header shall have the recipient MSISDN in SIP-URI format (received from the HSS as IMSPublicIdentifiers) Accept-Contact : *;require:explicit;+sip.instance="<urn:gsma:imei:<sip instance>> Reject-Contact: *;+g.3gpp.ics="server"</p> <p>If the SIP MT delivery fails, then IMSI based ATM request is done to de-registration the recipient from the LTE network based on the configurations rtranytimodificationonhssfailureenabled and rtranytimodificationonsipfailureenabled for hss failure and delivery failures respectively.</p> <p>The IMEI information is available in the logging.</p>
Impact:	<ul style="list-style-type: none"> ➤ Tools-R04.11.10.01 or later ➤ IIW-R01.07.10.02 or later ➤ LGP-R02.09.10.00 or later ➤ MGR-R04.14.10.00 or later

2.3 Improvements and Changes

None

2.4 Software Corrections

None

3 R04.12.10.03

3.1 Introduction

This document reflects the contents of the RTR R04.12.10.03.

This release contains:

- ▶ SCF address unique and configurable in UltraCard scenario [RTR] (Ref: NN29388)

3.2 New Functionality

None

3.3 Improvements and Changes

None

3.4 Software Corrections

3.4.1 SCF address unique and configurable in UltraCard scenario [RTR]

RN-RTR-0003	SCF address unique and configurable in UltraCard scenario [RTR] (Ref: NN29388)
Release:	R04.12.10.03
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-10395
Affected items:	✓ RTR
Description:	A new semi-static configuration has been introduced to set the SCF address for UltraCard specific devices.
Impact:	➤ Tools-R04.11.10.02 or later

4 R04.12.10.04

4.1 Introduction

This document reflects the contents of the RTR R04.12.10.04.

This release contains:

- ▶ Change on the RP-Error-Cause in case of RP-Error for slave cards (Ultracard) [RTR] (Ref: NN29390)

4.2 New Functionality

None

4.3 Improvements and Changes

None

4.4 Software Corrections

4.4.1 Change on the RP-Error-Cause in case of RP-Error for slave cards (Ultracard) [RTR]

RN-RTR-0004	Change on the RP-Error-Cause in case of RP-Error for slave cards (Ultracard) [RTR] (Ref: NN29390)
Release:	R04.12.10.04
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input checked="" type="checkbox"/> Correction
Feature or CSR:	✓ NA
Affected items:	✓ RTR
Description:	The RP-Error cause is changed from Requested facility not implemented (69) to Short message transfer rejected (21) when SIPMO is received from a non-APD device.
Impact:	➤ None

5 R04.12.10.05

5.1 Introduction

This document reflects the contents of the RTR R04.12.10.05.

This release contains:

- ▶ IIW/RTR Behaviour in case IMEI is not available from HSS [RTR] (Ref: NN29473)

5.2 New Functionality

None

5.3 Improvements and Changes

None

5.4 Software Corrections

5.4.1 IIW/RTR Behaviour in case IMEI is not available from HSS [RTR]

RN-RTR-0005	IIW/RTR Behaviour in case IMEI is not available from HSS [RTR] (Ref: NN29473)
Release:	R04.12.10.05
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-10395
Affected items:	✓ RTR
Description:	It was observed that IPSMGW sends out SIPMT when the User-Data AVP is not received in the UDA for SIP MT. The case is handled and IPSMGW blocks SIPMT delivery when IMEI is not received from the HSS.
Impact:	<ul style="list-style-type: none">➤ IIW-R01.07.10.06 or later➤ Tools-R04.11.10.03 or later

6 R04.12.10.06

6.1 Introduction

This document reflects the contents of the RTR R04.12.10.06.

This release contains:

- ▶ SMS Delivery for non-Ultracard VoLTE customers fails in HR Scenario - Bug 1 (HSS Query) [RTR]
(Ref: NN29627)
- ▶ SMS Delivery for non-Ultracard VoLTE customers fails in HR Scenario - Bug 2 (ATM Query) [RTR]
(Ref: NN29635)

6.2 New Functionality

None

6.3 Improvements and Changes

None

6.4 Software Corrections

6.4.1 SMS Delivery for non-Ultracard VoLTE customers fails in HR Scenario - Bug 1 (HSS Query) [RTR]

RN-RTR-0006	SMS Delivery for non-Ultracard VoLTE customers fails in HR Scenario - Bug 1 (HSS Query) [RTR] (Ref: NN29627)
Release:	R04.12.10.06
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-21772
Affected items:	✓ RTR
Description:	In MT-SIPT Home-Routed scenario, there was an issue, where UDR was being triggered even for non Ultracard subscriber. This issue has been fixed.
Impact:	➤ None

6.4.2 SMS Delivery for non-Ultracard VoLTE customers fails in HR Scenario - Bug 2 (ATM Query) [RTR]

RN-RTR-0007	SMS Delivery for non-Ultracard VoLTE customers fails in HR Scenario - Bug 2 (ATM Query) [RTR] (Ref: NN29635)
Release:	R04.12.10.06
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-21772
Affected items:	✓ RTR
Description:	In MT-SIPT Home-Routed scenario, there was an issue, where UDR was being triggered even for non Ultracard subscriber. As a result, ATM query was also being triggered, when there was an HSS timeout, even for non Ultracard subscriber. This issue has been fixed.
Impact:	➤ None