

ZephyrTel Mobile Messaging

Release 18.10.0

Release Notes

ZMM-RN_18.10.0 Rev A

November 2020

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 18.10.0.

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 18.10.0 is described in this document.

1.2 Scope

This document covers the release 18.10.0 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

18.9.0

Feature ID	Summary	Component	Bug number
NN-28264	CgPA change in SIPO-MO with UDR query	MGR-R04.14.09.00	NN-29163
		IIW-R01.07.09.00	NN-29178
		Tools-R04.11.09.00	NN-29179
		RTR-R04.12.09.00	NN-29177
NN-29039	SMS Firewall V.A Security Remediation	MGR-R04.14.09.00	NN-29180
NN-29088	Only query LocationInfo when Domain-Selection enabled	RTR-R04.12.09.02	NN-29186
		Tools-R04.11.09.01	NN-29188
NN-29083	SRISM Loop Avoidance on HLR by CgPA Route on SSN	RTR-R04.12.09.02	NN-29130
		Tools-R04.11.09.01	

Resolved PRs

18.10.0

Jira ID	Summary	Component
NN-28877	error_type and error_value fields are not updated in CDR in case of (Bad Request-Error 400) returned during SIPT delivery attempt	RTR-R04.12.10.01
NN-29224	[28264]- Accept-Contact header is missing in the MOFSM ACK in case of SIPOMO Flow	IIW-R01.07.10.02
NN-29227	[28264]- Accept-Contact header is missing in the MOFSM ACK in case of SIPOMO Flow -Tools release for MIB changes	Tools-R04.11.10.01
NN-29210	Peerfserver should be defined in single line in /etc/hosts for successful MGR changeover	ZMM_MGR_R04.14.10_Operator_Manual_18.10_rev_a
NN-29236	After starting up, tp_fclient again stops during tp_slave execution	MGR-R04.14.10.01
NN-29139	tp_auth does not work as intended after enabling https and disabling port 80 on MGR [OS ISO]	NMMOS_RHEL7.9-18.10.0_1810.00.0-x86_64.iso

SNMP Traps

18.10.0

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.

18.10.0

Release	18.10.0
RTR	R04.12.10.02
HUB	R04.12.05.01
AMS	R01.12.05.00
IIW	R01.07.10.03
PBC	R02.10.05.01
FAF	R02.12.05.01
EC-ABM	R01.11.05.00
BAT	R02.09.05.00
MGR	R04.14.10.01
MGRP	R01.01.05.00
STV	R04.13.05.00
LGP	R02.09.10.00
CCI	R02.10.05.03
LGR	R01.05.09.01
EMG	R01.09.05.00
DMF	R01.02.05.00
DMFOAM	R01.02.05.00
REI	R01.01.05.00
Tools	R04.11.10.01
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

ZephyrTel Mobile Messaging

**AMS R01.12.05.00
Release Notes**

ZephyrTel

CloudForward

Table of Contents

1.	R01.12.05.00	1
1.1.	Introduction	1
1.2.	New Functionality	1
1.3.	Improvements and Changes	1
1.3.1.	Update copyright statement for ZephyrTel [AMS]	1
1.4.	Software Corrections	1

1.R01.12.05.00

1.1. Introduction

This document reflects the contents of the AMS R01.12.05.00.

This release contains:

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

1.2. New Functionality

None

1.3. Improvements and Changes

1.3.1. Update copyright statement for ZephyrTel [AMS]

RN-AMS-0001	Update copyright statement for ZephyrTel [AMS] (Ref: NN28906)
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 and other statements are changed from NewNet to ZephyrTel.
Impact:	None

1.4. Software Corrections

None

ZephyrTel Mobile Messaging

BAT R02.09.05.00
Release Notes

ZephyrTel

CloudForward

Table of Contents

1	R02.09.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel [BAT]	1
1.4	Software Corrections	1

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

ZephyrTel Mobile Messaging

CCI R02.10.05.00
Release Notes

ZephyrTel

CloudForward

Table of Contents

1	R02.10.05.00	1
1.1	New Functionality	1
1.2	Improvements and Changes	1
1.2.1	Update copyright statement for ZephyrTel [CCI]	1
1.3	Software Corrections	1

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

ZephyrTel Mobile Messaging

DMFOAM R01.02.05.00
Release Notes

ZephyrTel

CloudForward

Table of Contents

1	R01.02.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel [DMFOAM]	1
1.4	Software Corrections	1

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

ZephyrTel Mobile Messaging

DMF R01.02.05.00
Release Notes

ZephyrTel

CloudForward

Table of Contents

1	R01.02.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel [DMF]	1
1.4	Software Corrections	1

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

ZephyrTel Mobile Messaging

ECABM R01.11.05.00

Release Notes

ZephyrTel

CloudForward

Table of Contents

1	R01.11.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel [ECABM]	1
1.4	Software Corrections	1

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

ZephyrTel Mobile Messaging

**ECI R01.06.07.00
Release Notes**

ZephyrTel

CloudForward

Table of Contents

1	R01.06.07.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	ECI library is synched with the latest changes with ECI-interface	1
1.4	Software Corrections	1

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.

ZephyrTel Mobile Messaging

EMG R01.09.05.00
Release Notes

ZephyrTel

CloudForward

Table of Contents

1	R01.09.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
	1.3.1 Update copyright statement for ZephyrTel [EMG]	1
1.4	Software Corrections	1

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

ZephyrTel Mobile Messaging

**FAF R02.12.05.00
Release Notes**

ZephyrTel

CloudForward

Table of Contents

1	R02.12.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel	1
1.4	Software Corrections	1

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

ZephyrTel Mobile Messaging

HUB R04.12.05.00
Release Notes

ZephyrTel

CloudForward

Table of Contents

1	R04.12.05.00	5
1.1	Introduction	5
1.2	New Functionality	5
1.3	Improvements and Changes	5
	1.3.1 Update copyright statement for ZephyrTel	5
1.4	Software Corrections	5

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

ZephyrTel Mobile Messaging

**IIW R01.07.10.03
Release Notes**

ZephyrTel

CloudForward

Table of Contents

1	R01.07.10.02	2
1.1	Introduction	2
1.2	New Functionality	2
1.3	Improvements and Changes	2
1.4	Software Corrections	2
1.4.1	[28264]- Accept-Contact header is missing in the MOFSM ACK in case of SIPOMO Flow [IIW]	2
2	R01.07.10.03	3
2.1	Introduction	3
2.2	New Functionality	4
2.2.1	Ultracard Enhancement Solution [IIW]	4
2.3	Improvements and Changes	4
2.4	Software Corrections	4

1 R01.07.10.02

1.1 Introduction

This document reflects the contents of the IIW R01.07.10.02

This release contains:

- ▶ [28264]- Accept-Contact header is missing in the MOFSM ACK in case of SIPOMO Flow [IIW] (Ref: NN29224)

1.2 New Functionality

None

1.3 Improvements and Changes

None

1.4 Software Corrections

1.4.1 [28264]- Accept-Contact header is missing in the MOFSM ACK in case of SIPOMO Flow [IIW]

RN-IIW-0001	[28264]- Accept-Contact header is missing in the MOFSM ACK in case of SIPOMO Flow [IIW] (Ref: NN29224)
Release:	R01.07.10.02
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:	✓ IIW
Description:	According to the spec, Accept-Contact is an optional header that can be accepted by the UE in the SIPMO RP-ACK. The IIW component is introduced with a semi-static configuration iiwincludeacceptcontactinsipmoack to include the default Accept-Contact header '+g.3gpp.smsip;explicit;require' in the SIPMO RP-ACK when set to true.
Impact:	➤ Tools-R04.11.10.01 or later

2 R01.07.10.03

2.1 Introduction

This document reflects the contents of the IIW R01.07.10.03

This release contains:

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

2.2 New Functionality

2.2.1 Ultracard Enhancement Solution [IIW]

RN-IIW-0002	Ultracard Enhancement Solution [IIW] (Ref: NN28956)
Release:	R01.07.10.03
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:	✓ IIW
Description:	<p>The IIW 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 IIW component identifies if the request is from an ultra-card device when the top-most Route header is received with the string matching with the locally configured string with the new semi-static parameter sipregroutheadstring and sipmsgroutheadstring for registration and GSM submit respectively.</p> <p>The IMSI from the SIP request is retrieved and passed to RTR over the MXP/MIP interface. The registration is done based on the IMSI. For a SIPMO, If the originator IMSI matches the IMSI from SRI-SM response for the originator, then the SIPMO originator device is considered APD device. For a SIPMT if the location info received in the SRI-SM response matches the unique map ATM address scfaddressformap atm, the SIPMT device belongs to ultra-card group.</p> <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 IIW attaches 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 rtranytimemodificationonhssfailureenabled and rtranytimemodificationonsipfailureenabled for hss failure and delivery failures respectively. The IMEI information is available in the logging.</p>
Impact:	<ul style="list-style-type: none"> ➤ Tools-R04.11.10.00 or later ➤ RTR-R04.12.10.02 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

New Feature Enhancements

18.10.0

Feature ID	Summary	Component	Bug number
NN-28319	RFF from Vodafone Germany: enhancements for Ultracard/Multi-sim solution	MGR-R04.14.10.01 IIW-R01.07.10.03 Tools-R04.11.10.00 RTR-R04.12.10.02 LGP-R02.09.10.00	NN-29213 NN-28956 NN-28956 NN-28956 NN-29214

ZephyrTel Mobile Messaging

LGP R02.09.10.00
Release Notes

ZephyrTel

CloudForward

Table of Contents

1	R02.09.10.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.2.1	Enhancements for Ultracard/Multi-sim solution - Log MT Imei [LGP]	1
1.3	Improvements and Changes	1
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

ZephyrTel Mobile Messaging

LGR R01.05.09.01
Release Notes

ZephyrTel

CloudForward

Table of Contents

1	R01.05.09.00	3
1.1	Introduction	3
1.2	New Functionality	3
1.2.1	LGR Report Generation for external Ldap users is throwing an error	3
1.3	Improvements and Changes	3
1.4	Software Corrections	3
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.

ZephyrTel Mobile Messaging

**MGR R04.14.10.01
Release Notes**

ZephyrTel

CloudForward

Table of Contents

1	R04.14.10.01	1
1.1	New Functionality	1
1.1.1	Enhancements for Ultracard/Multi-sim solution - Log MT Imei [MGR]	1
1.2	Improvements and Changes	1
1.3	Software Corrections	2
1.3.1	After starting up, tp_fclient again stops during tp_slave execution	2

1 R04.14.10.01

This chapter reflects the contents of the MGR R04.14.10.01.

This release contains:

- ▶ Enhancements for Ultracard/Multi-sim solution - Log MT Imei [MGR] (Ref: NN29213)
- ▶ After starting up, tp_fclient again stops during tp_slave execution (Ref: NN29236)

1.1 New Functionality

1.1.1 Enhancements for Ultracard/Multi-sim solution - Log MT Imei [MGR]

RN-MGR-0001	Enhancements for Ultracard/Multi-sim solution - Log MT Imei [MGR] (Ref: NN29213)
Release:	R04.14.10.01
Type of change:	<input checked="" type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	28319
Affected items:	✓ MGR
Description:	MGR/LGV has been enhanced to support new transactional log fields.
Impact:	➤ LGP -R02.09.10.00 or later

1.2 Improvements and Changes

None.

1.3 Software Corrections

1.3.1 After starting up, tp_fclient again stops during tp_slave execution

RN-MGR-0002	After starting up, tp_fclient again stops during tp_slave execution (Ref: NN29236)
Release:	R04.14.10.01
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-10397
Affected items:	✓ MGR
Description:	MGR has been corrected such that tp_fclient stays up when tp_slave is executed.
Impact:	➤ None

ZephyrTel Mobile Messaging

**MGRP R01.01.05.00
Release Notes**

ZephyrTel

CloudForward

Table of Contents

1	R01.01.05.00	1
1.1	New Functionality	1
1.2	Improvements and Changes	1
1.2.1	Update the copyright statement for ZephyrTel [MGRP]	1
1.3	Software Corrections	1

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

ZephyrTel Mobile Messaging

Open Source R05.02.09.00
Release Notes

ZephyrTel

CloudForward

Table of Contents

1	R05.02.09.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Routine OpenSource updates (18.9)	1
1.4	Software Corrections	1
	Annexes	2
	Open Source Packages – RHEL7	3

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-Inotify2	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-lbeat	perl-DateTime-Format-lbeat	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-Parse-RecDescent	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 R02.10.05.01
Release Notes**

ZephyrTel

CloudForward

Table of Contents

1	R02.10.05.00	1
1.1	Introduction	1
1.2	New Functionality	2
1.2.1	LTE Roaming Support based on P-Visited-Network-Id [PBC]	2
1.3	Improvements and Changes	2
1.4	Software Corrections	2
2	R02.10.05.01	3
2.1	Introduction	3
2.2	New Functionality	3
2.3	Improvements and Changes	3
2.3.1	Update copyright statement for ZephyrTel [PBC]	3
2.4	Software Corrections	3

1 R02.10.05.00

1.1 Introduction

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

This release contains:

- NN-28760 : LTE Roaming Support based on P-Visited-Network-Id [PBC]
(Ref: NN28760)

1.2 New Functionality

1.2.1 LTE Roaming Support based on P-Visited-Network-Id [PBC]

RN-PBC-0001	VoLTE Roaming Support based on P-Visited-Network-Id [PBC] (Ref: BG28760)
Release:	R02.10.05.00
Type of change:	<input checked="" type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	✓ 28066
Affected items:	✓ PBC
Description:	<p>In order to allow an SMS for a prepaid customer who is accessing the LTE Network, the IPSPMGW needs to perform a real-time charging trigger towards the Online Charging System (OCS) over CAMEL-3 (CAP3). The IPSPMGW use the SIP Header Parameter "P-Visited-Network-ID"(PVNI) which is received in the E-212 format and translates to E-164 format and include in the locationInformationMSC and mscaddress of the InitialDPMSMS CAP3 Message to OCS.</p> <p>The translation logic is implemented in the PBC components using a CSV file. (The PBC component retrieve the MCC and MCC from the PVNI and searches for the corresponding CC NDC in the search file).</p> <p>In addition to the billing and charging of the outbound roamer in the LTE network, IPSPMGW also capture the PVNI information for SIPO and SIPT scenarios in the SMSC log record.</p> <p>The "P-Visited-Network-Id" is received in the following formats: <i>s8hr.ims.mnc<xxx>.mcc<yyy>.3gppnetwork.org</i> <i>ims.mnc<xxx>.mcc<yyy>.3gppnetwork.org</i></p> <p>xxx -> 3 digit MNC yyy -> 3 digit MCC</p>
Impact:	<ul style="list-style-type: none">▶ RTR-R04.12.05.00 or later▶ IIW-R01.07.05.00 or later▶ Tools-R04.11.05.00 or later▶ LGP-R02.09.05.00 or later▶ MGR-R04.14.05.00 or later

1.3 Improvements and Changes

None

1.4 Software Corrections

None

2 R02.10.05.01

2.1 Introduction

This chapter reflects the contents of the PBC R02.10.05.01.

This release contains:

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

2.2 New Functionality

None

2.3 Improvements and Changes

2.3.1 Update copyright statement for ZephyrTel [PBC]

RN-PBC-0002	Update copyright statement for ZephyrTel [PBC] (Ref: NN28746)
Release:	R02.10.05.01
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input checked="" type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	N.A.
Affected items:	✓ PBC
Description:	The copyright and other statements are changed from NewNet to ZephyrTel.
Impact:	None

2.4 Software Corrections

None

ZephyrTel Mobile Messaging

REI R01.01.05.00
Release Notes

ZephyrTel

CloudForward

Table of Contents

1	R01.01.05.00	3
1.1	Introduction	3
1.2	New Functionality	3
1.3	Improvements and Changes	3
	1.3.1 Update copyright statement for ZephyrTel	3
1.4	Software Corrections	3

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 R04.12.10.02
Release Notes

ZephyrTel

CloudForward

Table of Contents

1	R04.12.10.01	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.4	Software Corrections	1
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]	1
2	R04.12.10.02	2
2.1	Introduction	2
2.2	New Functionality	3
2.2.1	Ultracard Enhancement Solution [RTR]	3
2.3	Improvements and Changes	3
2.4	Software Corrections	3

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 scfaddressformaptm. ○ 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 scfaddressformaptm. <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:xxx> 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 rtranytimodificationonhssfai lureenabled 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

ZephyrTel Mobile Messaging

SPF R01.10.05.00
Release Notes

ZephyrTel

CloudForward

Table of Contents

1	R01.10.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel [SPF]	1
1.4	Software Corrections	1

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

CloudForward

Table of Contents

1	R01.09.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel	1
1.4	Software Corrections	1

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

CloudForward

Table of Contents

1	R04.13.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel [STV]	1
1.4	Software Corrections	1

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 R04.11.10.01
Release Notes**

ZephyrTel

CloudForward

Table of Contents

1	R04.11.10.00	1
1.1	Introduction	1
1.2	New Functionality	2
1.2.1	Ultracard Enhancement Solution [Tools]	2
1.3	Improvements and Changes	2
1.4	Software Corrections	3
2	R04.11.10.01	4
2.1	Introduction	4
2.2	New Functionality	4
2.3	Improvements and Changes	4
2.4	Software Corrections	4
2.4.1	[28264]- Accept-Contact header is missing in the MOFSM ACK in case of SIPOMO Flow [Tools]	4

1 R04.11.10.00

1.1 Introduction

This document reflects the contents of the Tools R04.11.10.00.

This release contains:

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

1.2 New Functionality

1.2.1 Ultracard Enhancement Solution [Tools]

RN-Tools-0001	Ultracard Enhancement Solution [Tools] (Ref: NN28956)
Release:	R04.11.10.00
Type of change:	<input checked="" type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input type="checkbox"/> Correction
Feature or CSR:	✓ 28319
Affected items:	✓ RTR
Description:	<p>The Tools component has been enhanced to include the MIB related changes 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/IIW component handles following functionality:</p> <ul style="list-style-type: none"> ○ Identify if the SIP REQUEST/MESSAGE is from Ultra-card device by comparing the top level Route header string with the value configured locally (sipregroutheadstring and sipmsgroutheadstring for registration and GSM submit respectively) and if IMSI received in the request. ○ 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 scfaddressformatm. ○ 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 unique map ATM address scfaddressformatm. <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 rtranytimemodificationonhssfai lureenabled and rtranytimemodificationonsipfailureenabled 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"> ➤ RTR-R04.12.10.00 or later ➤ IIW-R01.07.10.00 or later ➤ LGP-R02.09.10.00 or later ➤ MGR-R04.14.10.00 or later

1.3 Improvements and Changes

None

1.4 Software Corrections

None.

2 R04.11.10.01

2.1 Introduction

This document reflects the contents of the Tools R04.11.10.01.

This release contains:

- [28264]- Accept-Contact header is missing in the MOFSM ACK in case of SIPOMO Flow [Tools] [RTR] (Ref: NN29277)

2.2 New Functionality

None

2.3 Improvements and Changes

None

2.4 Software Corrections

2.4.1 [28264]- Accept-Contact header is missing in the MOFSM ACK in case of SIPOMO Flow [Tools]

RN-Tools-0002	[28264]- Accept-Contact header is missing in the MOFSM ACK in case of SIPOMO Flow [Tools] (Ref: NN29277)
Release:	R04.11.10.01
Type of change:	<input type="checkbox"/> New Functionality <input type="checkbox"/> Improvement <input type="checkbox"/> Change <input checked="" type="checkbox"/> Correction
Feature or CSR:	✓ NA
Affected items:	✓ Tools
Description:	According to the spec, Accept-Contact is an optional header that can be accepted by the UE in the SIPMO RP-ACK. The IIW component is introduced with a semi-static configuration iiwincludeacceptcontactinsipmoack to include the default Accept-Contact header '+g.3gpp.smsip;explicit;require' in the SIPMO RP-ACK when set to true. The Tools is updated with the MIBS related to the new semi-static configuration.
Impact:	➤ IIW-R01.07.10.02 or later

ZephyrTel Mobile Messaging

XS-ARP R01.08.05.00

Release Notes

ZephyrTel

CloudForward

Table of Contents

1	R01.08.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel [XSARP]	1
1.4	Software Corrections	1

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

CloudForward

Table of Contents

1	R02.08.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel [XSBWL]	1
1.4	Software Corrections	1

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

CloudForward

Table of Contents

1	R02.09.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel [XSCPYP]	1
1.4	Software Corrections	1

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

CloudForward

Table of Contents

1	R02.08.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel [XSDIL]	1
1.4	Software Corrections	1

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

CloudForward

Table of Contents

1	R02.09.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel [XSFWD]	1
1.4	Software Corrections	1

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

CloudForward

Table of Contents

1	R01.03.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel [XSINT]	1
1.4	Software Corrections	1

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

CloudForward

Table of Contents

1	R01.12.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel [XSMMLC]	1
1.4	Software Corrections	1

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

Table of Contents

1	R01.12.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel [XSMOD]	1
1.4	Software Corrections	1

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

CloudForward

Table of Contents

1	R01.08.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel [XSSIG]	1
1.4	Software Corrections	1

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

Table of Contents

1	R01.11.05.00	1
1.1	Introduction	1
1.2	New Functionality	1
1.3	Improvements and Changes	1
1.3.1	Update copyright statement for ZephyrTel [XSTIE]	1
1.4	Software Corrections	1

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