

Update Release Document (URD)



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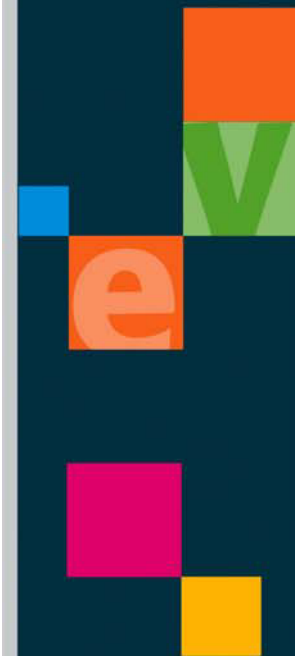
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Chapter 1

New Features

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Introduction

This document describes updates to the Comverse ONE software for release 3.5 RT - TR 3.0

New Features

DR-2-015-943, PWR-0-102-72

Various VPN Enhancements

Custom Development

Background

Dhiraagu is using VPN for corporate customers - mostly for hotels and resorts. VPN is used by the employees/staff of these customers for internal calls, using short-code dialing.

Dhiraagu is converting from Comverse RTBS to Comverse ONE and want to maintain their existing VPN functionality.

Current VPN Functionality

Comverse-One currently supports the following:

1. Defining of CUGs (where CUG = Comverse ONE User Group)
2. Adding members to CUG (*must be existing* Comverse ONE subscribers)
3. Short Dial Code for each CUG member
4. Max call duration restriction for Intra CUG calls
5. Call barring restriction for CUG members
 - one of two options can be selected:
 - ☐ Intra CUG calls or
 - ☐ ALL calls)
6. Support special rates for VPN - Intra CUG calls

New VPN Functionality

Comverse ONE will also do the following:

1. Add support for Super CUGs**
2. Include ability to add non-Comverse ONE subscribers to CUGs.
3. Add support for CUG Global Numbers ***



** A *Super-CUG* is similar to a normal CUG in that it has a CUG name and a CUG ID. However, instead of having individual subscribers or destination numbers as members, its members are CUGs.

The Super-CUG defines the group of CUGs that will "partner" together, and defines how the partner CUGs will access each other.

Along with the list of the member CUGs, the Super-CUG is used to define the access code that is used by members of each CUG to access members of the partner CUGs.

**NOTE**

*** *CUG Global Numbers* are phone numbers that can be dialed by any CUG member, regardless of their CUG access type. Even users restricted to only Intra-CUG calls can dial any number in this list. For example all subscribers may be allowed to dial Directory Information or Customer Care

**NOTE**

System parameter [VPN_FLAG](#) is used to control this functionality.

DR-2-015-993, PWR-0-102-722

Receiver of VPN Call will see Originator's VPN Short-Code Number

Custom Development

Current Functionality

When a caller uses the VPN short code to call another user in the same CUG or Super CUG, the receiver's Caller ID shows the originator's *full* phone number. If the receiver then calls back using that number, the call does *not* qualify for the VPN discount, since the full number was dialed.

New Functionality

When a caller uses the CUG short code to call another user in the *same* CUG (i.e. *intra*-CUG) , the receiver's Caller ID will show the originator's short-code number. (e.g. 234)

When a caller uses the VPN short code to call another user in a *partner* CUG (in the same Super CUG, i.e *inter*-CUG), the receiver's Caller ID will show the originator's CUG access code and short-code number, concatenated (e.g. 219-234, where 219 is the originator's CUG access code)

Hence, if the receiver calls back using these numbers, the call *will* qualify for the VPN discount.

**NOTE**

The SLF (*Service Logic Function*) will still use the original A-number in the CDRs, the call histories and in calculating tariffs.

**NOTE**

System parameters [ANUM_VPNCODE_CL](#) and [SLF_CUG_ANUMBER_ENHANCE](#) are used to control this functionality.

DR-2-018-975, PWR-2-014-284

Provide *Market Offer Group ID* and *Bundle ID* in SUBS_OFFERS_MAIN and SUBS_OFFER_HIST Tables *Custom Development*

Background

1. Customer needs to extract data based on subscribers' Market Offer Groups for reporting purposes.
2. When either
 - a subscriber's Bundle is swapped with another Bundle OR
 - a PO is swapped with a Bundle OR
 - a Bundle is swapped with a PO,the customer needs to extract the changed bundle information for his external CRM system.
3. The customer's external system has access to only the SUBS_OFFERS_MAIN and SUBS_OFFERS_HIST tables.

New Functionality

1. The subscribers' *Market Offer ID* will be copied from the ACCOUNT_SUBSCRIBER table to the SUBS_OFFERS_MAINS_1A/1B and SUBS_OFFERS_HIST tables.
2. The subscribers' *Bundle ID* will be copied from the OFFER_INST table to the SUBS_OFFERS_MAINS_1A/1B and SUBS_OFFERS_HIST tables.

The customer will then be able to extract that data from the SUBS_OFFERS_MAINS_1A/1B and SUBS_OFFERS_HIST tables.

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Chapter 2

Database and System Parameters

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Database Changes Overview

The following sections list tables that have been added, changed or removed in the various databases on the Comverse ONE 3.5 RT TR 3.0 release.

**NOTE**

Detailed information about these tables is provided in the *Database Reference Guide*.

BLUS ORP (“Unscaled”) Database

New Tables

No new tables were added for this release.

Modified Tables

No tables were modified for this release.

CSS (“Self Service”) Database

New Tables

No new tables were added for this release.

Modified Tables

No tables were modified for this release.

CTLG (“Catalog”) Database

New Tables

No new tables were added for this release.

Modified Tables

No tables were modified for this release.

CUST (“Dynamic”) Database

New Tables

No new tables were added for this release.

Modified Tables

No tables were modified for this release.

HIST (“Rating History”) Database

New Tables

No new tables were added for this release.

Modified Tables

The following tables were modified for this release:

- CALL_HISTORY_HIST [DR-2-015-943]
- SUBS_OFFERS_HIST [DR-2-018-975]

MAIN (“Rating Main”) Database

New Tables

No new tables were added for this release.

Modified Tables

The following tables were modified for this release:

- CALL_HISTORY_MAIN_1A/1B [DR-2-015-943]
- CUG_MEMBERS [DR-2-015-943]
- SUBS_OFFERS_MAIN_1A/1B [DR-2-018-975]

PCAT (“Configuration”) Database

New Tables

The following tables were added for this release:

- SUPER_CUG_DEFINITION_KEY [DR-2-015-943]
- SUPER_CUG_DEFINITION_REF [DR-2-015-943]
- SUPER_CUG_DEFINITION_VALUES [DR-2-015-943]

Modified Tables

The following tables were modified for this release:

- CUG_ACCESS_CODE_REF [DR-2-015-943]
- CUG_DEFINITION_REF [DR-2-015-943]

United Platform Manager — OAM Database

New Tables

No new tables were added for this release.

Modified Tables

No tables were modified for this release.

System Parameter Changes Overview

Added System Parameters

The system parameters listed in the table were added for this release :

Table 1 System Parameters Added

Param ID	Module	Parameter Name	Integer Value	Character Value	Description
4041 [DR-2-015-993]	CBS	ANUM_VPNCODE_CL	0	0	For Inter-CUG Calls. Allows A-Number to be displayed in Short Code on Receiver's phone. 0 = disabled (default) 1 = enabled
219	SLF	SLF_CUG_ANUMBER_ENHANCE	1	1	for Inter-CUG Calls. Allows SLF-composed numbers

Modified System Parameters

The system parameters listed in the table were modified for this release :

Table 2 System Parameters Modified

Param ID	Module	Parameter Name	Integer Value	Character Value	Description
11 [DR-2-015-943]	RTNG	VPN_FLAG	2	2	VPN Mode Flag 0 = VPN disabled 1 = VPN Standard enabled 2 = VPN with Partners enabled (for SUPER-CUG support)

Removed System Parameters

No system parameters were removed for this release :

Chapter 3

APIs

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Overview

The following APIs were modified in the Comverse ONE software for the 3.5 RT TR 3.0 release.

Modified APIs

DR-2-015-943

Adding non-Comverse ONE subscribers in Closed User Groups (CUGs).

To support this functionality:

- The `clSubscriber` attribute has been added to the `CUGroupMemberObject`
- There now exist restrictions on which other attributes can be set on `CUGroupMemberObject` when calling `CUGroupAddMember` and `CUGroupMemberUpdate`.

Calling `CUGroupAddMember`

If the member to be added is *not* a Comverse ONE subscriber, then when populating the `CUGroupMemberObject` input object, you *must* set the `clSubscriber` attribute to `false` and:

- You are restricted to updating *only* the following attributes:
 - `memberId`,
 - `cugCode`,
 - `externalId`,
 - `shortDial`.
- You *must* set the following attributes to null:
 - `serviceInternalId`,
 - `serviceInternalIdResets`,
 - `accountInternalId`,
 - `lrOverrideId`,
 - `vpnAccess`,
 - `parentAccountInternalId`.



CAUTION

If you attempt to set the above attributes to anything but null, the method will throw an exception with a message in the following format:

```
REQUIRED_DATA_SHOULD_BE_NULL.  
<attribute> should not be set for NonClSubscriber,  
where <attribute> is one of: ServiceInternalId,  
ServiceInternalIdResets, AccountInternalId,  
LrOverrideId, VpnAccess, ParentAccountInternalId.
```

Calling `cUGroupMemberUpdate`

When calling `CUGroupMemberUpdate`, you must first modify the attributes of the `CUGroupMemberObject` input object as needed.

If the member to be added is a Comverse ONE subscriber, you can freely update any attribute.

If the member to be added is *not* a Comverse ONE subscriber, then you *must* set the `c1Subscriber` attribute to `false`, and:

- You are restricted to updating *only* the following attributes:
 - `memberId`,
 - `cugCode`,
 - `externalId`,
 - `shortDial`.
- You *must* set the following attributes to null:
 - `serviceInternalId`,
 - `serviceInternalIdResets`,
 - `accountInternalId`,
 - `lrOverrideId`,
 - `vpnAccess`,
 - `parentAccountInternalId`.



CAUTION

If you attempt to set the above attributes to anything but null, the method will throw an exception with a message in the following format:

```
NON_C1_SUBSCRIBER_CANNOT_UPDATE.  
<attribute> should not be set for NonC1Subscriber  
where <attribute> is one of: ServiceInternalId,  
ServiceInternalIdResets, AccountInternalId,  
LrOverrideId, VpnAccess, ParentAccountInternalId.
```