



Mobile Services Platform

Home Location Register

User Manual

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1 Introduction

The Home Location Register or **HLR** is a database that resides in a local wireless network containing service profiles and checks the identity of a local subscriber.

HLR is a central database that contains details of each mobile phone subscriber that is authorized to use the GSM core network. In other words, the HLR stores details of every Mobile Subscriber who has availed Mobile services subscription issued by the mobile phone operator. Each mobile subscriber has a unique identifier called an IMSI (International Mobile Subscriber Identifier) which is reckoned to be the primary key of each HLR record.

Subsequently, the next important component of data associated with the mobile subscriber is the telephone number, which is used to make and receive calls to / over the mobile phone, known as MSISDN (Mobile Subscriber ISDN Number). This HLR data is stored for as long as a subscriber remains with the mobile phone operator.

HLR is a system, which directly receives, processes and manages the GSM transactions. The main business processes expected of a **GSM-HLR** are the Subscriber Location Management, Call/Session Management, Service Registration & De-Registration, Service Activation & De-Activation, Authentication and Short Message Delivery management. In addition to the above basic functions, HLR also allows the operator to configure roaming restrictions to the subscribers.

The **prolific features of HLR** include the following:

- Facilitates hosting multiple operators on a single platform
- Supports multiple authentication algorithms (COMP128-1, COMP128-2, COMP128-3, GSM-Milenage)
- Supports multiple 'Encryption Algorithmes' (AES, DES)
- Quick provisioning of subscribers using pre-configured service templates

1.1 Purpose

This document is for use by the internal organizations of XIUS and can be distributed to select customers and vendors. It communicates the technical architecture and GUI features of the XIUS HLR system. It will be used by the R&D organization to communicate a consistent technical understanding and navigational flow of HLR to other individuals and organizations.

1.2 Scope

This document provides a technical and functional overview of the XIUS HLR. It contains information that is consistent with the current design and requirements for this system and is subject to change with respect to various customer/vendor specific implementations.

2 Overview

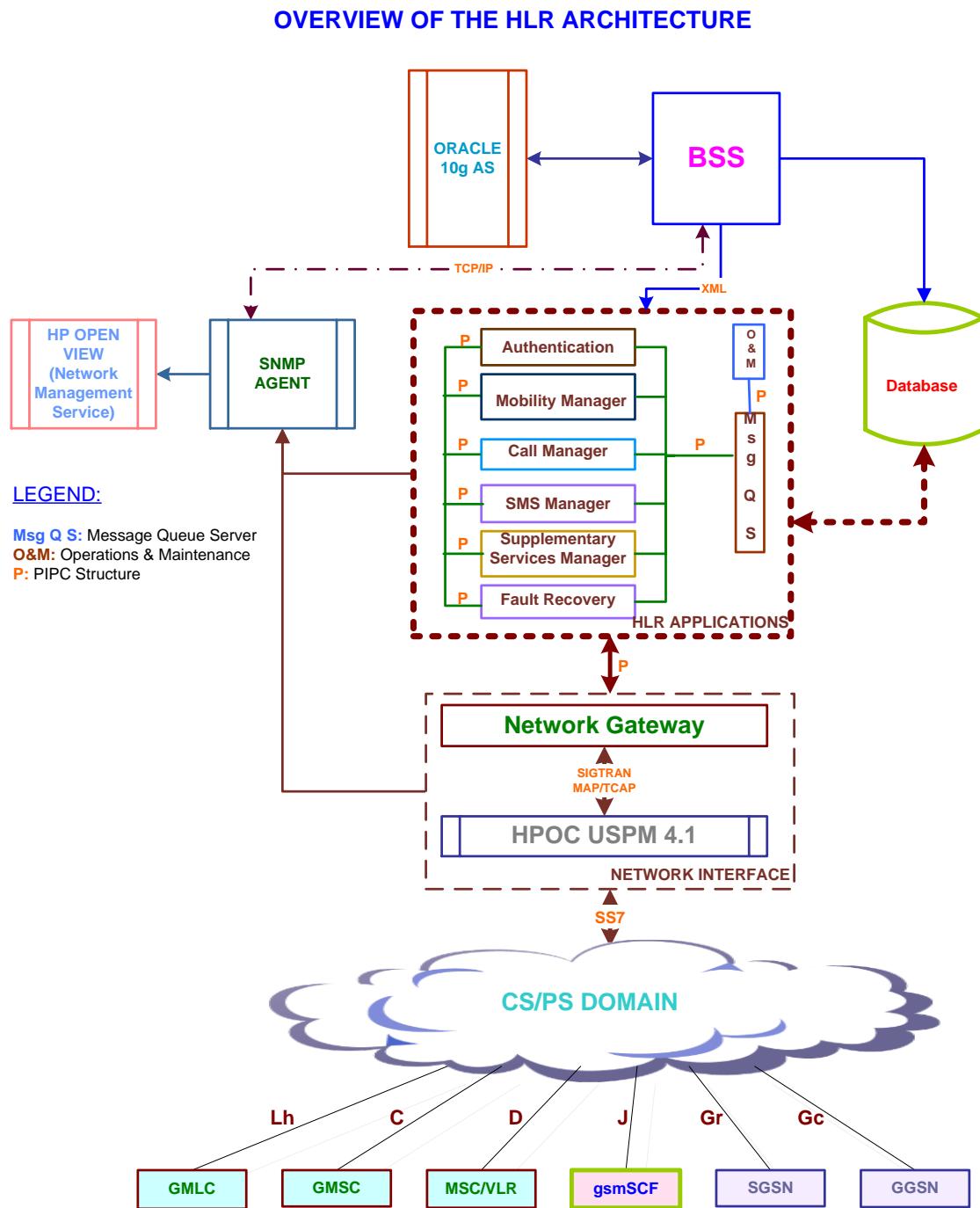
HLR solution supports the following fundamental functional features and competencies.

- **Authentication** – Enables the subscribers to be authenticated with any of the 3GPP defined algorithms.
 - The HLR generates user authentication, integrity and ciphering data. In other words, the HLR supports the authentication procedures to access GSM services by storing the generated data for authentication, integrity and ciphering, and subsequently by providing this data to the appropriate entity.
- **Mobility Management** – Supports the user mobility through GSM network.
 - Access Authorisation - When requested by the serving MSC/VLR, the HLR authorises the user for mobile access after checking/confirming if the user is allowed to roam within that visited network.
 - Besides the user authorization, the HLR also apprises and updates the appropriate serving entities (i.e., MSC/VLR) with the relevant information related to various services to be provided to the user.
- **Call or session establishment**
 - HLR provides basic authorisation for MT call/session establishment and service invocation.
 - Enables the subscriber to have multi-numbering for discrete services.
- **Short Message Service**
- **Supplementary Service Management**
 - It allows the subscriber or the operator to register, activate/deactivate or withdraw services at their discretion.

3 Architecture

HLR structure is comprehensive utilizing a distributed architecture to achieve maximum scalability and resilience. The distributed architecture is based on decoupling transaction logic from subscriber/application data.

The following diagram depicts the high level overview of the HLR Architecture



4 Technical Description

The HLR is decomposed into four basic components:

- Network Interface Gateway
- Business Logic Applications
- Subscriber / Application Data
- Management Server

4.1 Network Interface Gateway

HLR Network Interface Gateway is a sub-system that in turn comprises of two elements: SS7 Interface and the Event Handler & Dispatcher (EH&D). The SS7 Interface provides SS7 signalling termination for the GSM HLR, while the EH&D distributes the MAP events to the corresponding HLR Application. This uses the HP Universal Signalling Platform to interface with the SS7 Network.

4.2 Business Logic Applications

The set of these applications is dedicated to realize the various functionalities of the HLR. This layer comprises of Mobility Manager, Call/Session Manager, Supplementary service manager, SMS manager and Fault Recovery, each catering to the respective functionalities of the HLR.

4.3 Subscriber / Application Data

This layer stores the entire subscriber data, service templates and application data in Oracle database. Based on the requirements of the Operator, this layer can be deployed in a RAC (Real Application Cluster) and/or SAN (Storage Area Network).

4.4 Management Server

The HLR is managed through a web-based Graphical User Interface (GUI) or XML APIs. The Management Server can be used to check and update subscriber details and services. It can also be used to manage the service templates used for provisioning new subscribers.

5 HLR (GUI)

HLR has an application interface (GUI) that helps the user registering information related to various subscriptions, supplementary services, subscribers data, and roaming details at (network) level.

However, Administrator (Network Operator) is authorized to create and manage the user accounts with in the independent network through the **User Management System** module (an integral part) of MSP. This enables the users carrying out various functional operations in their designated capacities based on the provisioning of access roles and permissions. These users may be categorized based on the responsibilities vested to carry out different functional operations through various modules of the MSP Application that includes HLR.

NOTE: Please refer user guide of the User Management System for HLR Users' information.

5.1 Modules

HLR user functionality has been broadly categorized into the following chapters having various modules and sub-modules:

1. User Management System
2. System Configuration
3. Notifications
4. Network Management
5. Profile Management
6. Subscriber Management
7. Roaming Management

The screen below shows the homepage of HLR.



User Management System

The screenshot shows the User Management System interface. At the top right, it displays the date "Saturday, Nov 09, 2013" and the login time "5:56:05 PM". There are links for "Logout" and "Home". The main header says "mobily Welcome chief". A dropdown menu labeled "Modules" with "Select module" is shown. Below the header, a breadcrumb navigation shows "Home > User Management System". A section titled "Welcome to User Management System" contains descriptive text about the application's purpose and architecture.

Home Location Register

The screenshot shows the Home Location Register interface. At the top right, it displays the date "Monday, Apr 23, 2012" and the login time "1:39:34 PM". There are links for "Logout" and "Home". The main header says "mobily Welcome krishna". A dropdown menu labeled "Modules" with "Select module" is shown. Below the header, a breadcrumb navigation shows "Home > Home Location Register". A section titled "Welcome to Home Location Register" contains descriptive text about the process.

The screen below shows the Side Panel of HLR. The panel contains various links for HLR related operations.



6 User Management System Modules

- **User Management**
 - **Create User**
 - **Activate User**
 - **Deactivate User**
 - **View Info**
 - **Change User Password**
 - **Modify Roles**
 - **View Roles**
- **N/w Level Users**
 - **Associate**
 - **Role management**
 - **Create Role**
 - **Delete**
 - **View**
 - **Modify**

STEP	ACTION
1.	On clicking the 'User Management' link in the left frame of the MSP Application it will direct the user to the home page of User Management System. Wherein, a list of users appears and the users can be managed by creating, activating, deactivating and changing the user's password whenever needed.

The screenshot shows the User Management System interface. At the top, there is a header bar with the date "Thursday, Nov 07, 2013", login time "Login time 7:06:56 AM", and a logo. Below the header, there is a navigation bar with "mobily" and "Welcome chief". The main area displays a table of users with columns: Login Name, Name, Status, Manager, Office Name, and Action. The "Action" column contains links for "Modify Roles" and "View Roles". The table has 10 rows, each representing a user entry. At the bottom of the table, there are buttons for "Create User", "Change User Password", "Activate User", "Deactivate User", and "View Info". There is also a "Print" button at the bottom right.

	Login Name	Name	Status	Manager	Office Name	Action
○	TEST QC FOR MOBILYAL	test sdasdasda	ACTIVE	chief	MOBILY TESTING	Modify Roles View Roles
○	dsfsead	dfsadfsa n	ACTIVE	chief	--	Modify Roles View Roles
○	kishore	kishore k	ACTIVE	chief	--	Modify Roles View Roles
○	loadusereight	loadusereight loadusereight	ACTIVE	chief	--	Modify Roles View Roles
○	loaduserfive	loaduserfive loaduserfive	ACTIVE	chief	--	Modify Roles View Roles
○	loaduserfour	loaduserfour loaduserfour	ACTIVE	chief	--	Modify Roles View Roles
○	loadusernine	loadusernine loadusernine	ACTIVE	chief	--	Modify Roles View Roles
○	loaduserone	loaduserone loaduserone	ACTIVE	chief	--	Modify Roles View Roles
○	loaduserseven	loaduserseven loaduserseven	ACTIVE	chief	--	Modify Roles View Roles
○	loadusersix	loadusersix loadusersix	ACTIVE	chief	--	Modify Roles View Roles

6.1 Create User

'Create User' helps the User in creating a new user (User Account). A new User can be added along with his / her Roles.

NOTE: A Role can be defined as one element consisting of a set of modules or one module (as the case may be) to which accessibility can be attributed for provisioning the same (further) to the prospective users. Thus the privileges of new User depend on the Roles attributed to his / her User Account.

The screen below shows creating a new User (User Account).

Create User

Indicates Mandatory

Note:

- Fields marked with * are Mandatory.
- Names cannot contain spaces, hyphens etc.
- Names can contain only alphabets.
- Login Name cannot contain spaces,hyphens etc.
- Login Name can contain only alphabets, number.
- Password should be Min / Max 8 in length.
- Id (Passport / Kad)
- ID can be alphanumeric and special characters are not allowed.
- Email ID should be valid and active.

First Name *	<input type="text"/>
Middle Name	<input type="text"/>
Last Name *	<input type="text"/>
Address *	<input type="text"/>
Country	Select Country <input type="button" value="▼"/>
State	Select State <input type="button" value="▼"/>
City	<input type="text"/>
Work Group	Select WorkGroup <input type="button" value="▼"/>
Login Name *	<input type="text"/>
Password *	<input type="text"/>
Confirm Password *	<input type="text"/>
Id	<input type="text"/>
Email ID	<input type="text"/>

STEP	ACTION
1.	<p>User must go through and follow the guidelines before entering the details of a new user.</p> <p><small>Note: Fields marked with * are Mandatory. Names cannot contain spaces, hyphens etc and can contain only alphabets. Login Name cannot contain spaces, hyphens etc and can contain only alphabets, numbers, underscore. Password should be atleast 6 in length.</small></p>
2.	<p>User must essentially enter the details related to the user where it is a mandatory information  Indicates Mandatory</p>
3.	<p>Enter the demographic details of the User (First Name, Last Name and Address etc.) in their respective fields</p>
4.	<p>Select a 'Work Group' from the drop-down list of the <Work Group> field</p> <p>* By default, the list of pre-defined 'Work Groups' (defined / Created by the administrator through Work Group Management module) will be dynamically displayed as a drop-down list of the <Work Group> field</p>
5.	<p>Enter details pertaining to Login Name, Password, Confirm Password, ID and Email ID in their respective fields</p>
6.	<p>On clicking the  button, the new 'User details' will be registered and subsequently, it directs the user to the 'Change User Roles' screen. New User can be assigned to a set of predefined access roles through the 'Change User Roles' screen</p>
7.	<p>On clicking the  button (before submitting the new User details), it clears the earlier entered details enabling the Authorized User to enter the details afresh</p>
8.	<p>On clicking the  button (before submitting the new User details), it only redirects the Authorized User back to 'UMS' main page</p>

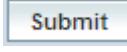
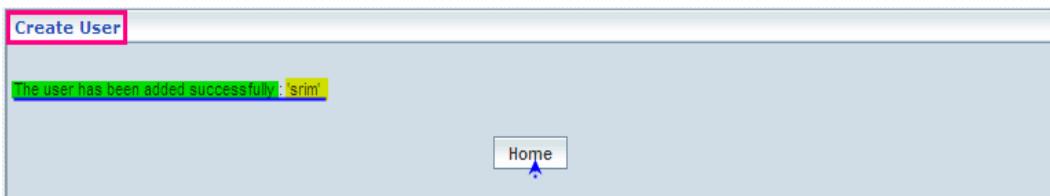
The screen below shows dispensing various (multiple) roles to the prospective User.

Change User Roles

Select / deselect to change the roles

<input type="checkbox"/>	allrole	<small>NOTE: A Role can be defined as one element consisting of a set of modules or one module (as the case may be) to which accessibility can be attributed for further provisioning to the prospective users</small>
<input checked="" type="checkbox"/>	newcompleteroles	
<input type="checkbox"/>	icbrole	
<input checked="" type="checkbox"/>	customercare	
<input checked="" type="checkbox"/>	allroles	
<input type="checkbox"/>	testingrole	
<input checked="" type="checkbox"/>	icb	
<input checked="" type="checkbox"/>	h1testroleone	
<input type="checkbox"/>	march2080	
<input type="checkbox"/>	ravihirtest1	
<input checked="" type="checkbox"/>	pavantestingrole	
<input checked="" type="checkbox"/>	manasahir	
<input checked="" type="checkbox"/>	marchcompleteroll	
<input checked="" type="checkbox"/>	ravihir	
<input type="checkbox"/>	surrole	
<input type="checkbox"/>	junenewroles	
<input checked="" type="checkbox"/>	sip	
<input checked="" type="checkbox"/>	cmsonly	
<input checked="" type="checkbox"/>	voip	
<input type="checkbox"/>	mmsc	
<input checked="" type="checkbox"/>	smsc	
<input checked="" type="checkbox"/>	svdrole	
<input type="checkbox"/>	marchroles	
<input checked="" type="checkbox"/>	demopavanrole	
<input checked="" type="checkbox"/>	newpavansrole	
<input checked="" type="checkbox"/>	surendrahlr	
<input checked="" type="checkbox"/>	naqshir	
<input type="checkbox"/>	ghfghqfhqf	
<input type="checkbox"/>	vamshihir	
<input checked="" type="checkbox"/>	vtcsi	
<input checked="" type="checkbox"/>	suniltesta	
<input type="checkbox"/>	pavanhlr	
<input checked="" type="checkbox"/>	rolesrini	
<input type="checkbox"/>	voiptestrole	
<input type="checkbox"/>	febtestrole	
<input checked="" type="checkbox"/>	database	
<input checked="" type="checkbox"/>	balarole	
<input checked="" type="checkbox"/>	testing	
<input type="checkbox"/>	cc	
<input checked="" type="checkbox"/>	ums	
<input checked="" type="checkbox"/>	hirrole	
<input checked="" type="checkbox"/>	hirroleonly	
<input type="checkbox"/>	wqw	

Submit **Home**

STEP	ACTION
1.	Check <input checked="" type="checkbox"/> the desired number of check boxes to specify the (new) User's accessibility to various Roles
2.	On clicking the  button, 'New User – User Account' will be successfully created and saved. A Message Window will be displayed to that effect  <p>The user has been added successfully: 'srim'</p> <p></p>
3.	On clicking the  button of the Message Window, it redirects the Authorized User to the 'UMS' main page

6.2 Change User Password

Change User Password enables the Authorized User to change Password of the User (User Account). However, it is not necessary to provide the Old Password to acquire a New Password for the chosen User Account. Authorized User can directly submit a New Password after confirming the same. Once the Password of a User Account is changed, it stands same till the next change.

A Chief Supervisor or Administrator can change the password of all the corresponding Users belonging to the Network. Other Users can change the password of the Users created by them.

The screen below enables changing Password of the chosen User by the Authorized User.

User Management

Note: - This User List displayed under the Logged User Only

Search Select Column Go View Per Page 10

Create User Change User Password Activate User Deactivate User View Info 1 2 3

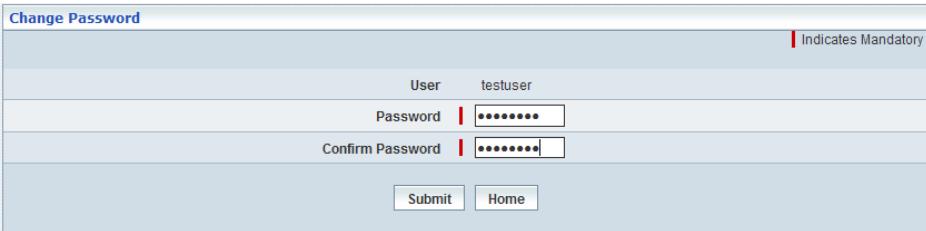
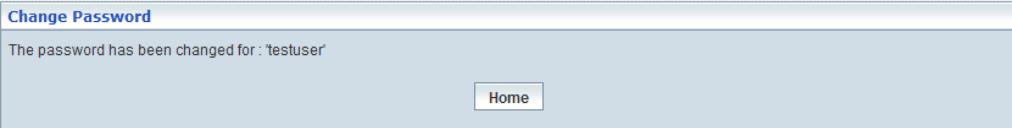
	Login Name	Name	Status	Manager	Office Name	Action
<input checked="" type="radio"/>	testuser	testuser user	ACTIVE	chief	--	Modify Roles View Roles
<input type="radio"/>	user creation	usercreation werwenwer	ACTIVE	chief	office creation	Modify Roles View Roles
<input type="radio"/>	user1	au				Modify Roles View Roles
<input type="radio"/>	yash	ya				Modify Roles View Roles
<input type="radio"/>	yash1	ya				Modify Roles View Roles
<input type="radio"/>	yash2	ya				Modify Roles View Roles
<input type="radio"/>	yash3	ya				Modify Roles View Roles
<input type="radio"/>	yash4	yashfour yashfour	ACTIVE	chief	yash4	Modify Roles View Roles
<input type="radio"/>	yash5	yashfive yashfive	ACTIVE	chief	yash	Modify Roles View Roles

Message from webpage

Do you want to change password of user testuser ...?

OK Cancel

Create User Change User Password Activate User Deactivate User View Info 1 2 3 Print

STEP	ACTION
1.	Select a User from the Home page whose password you want to change. Note: An administrator can change the password of their User's irrespective of the user's status.
2.	By clicking the Change User Password button, a confirmation messages appears.
3.	By clicking OK the Change Password dialog box appears. 
4.	Enter new Password in the <Password> field.
5.	Re-enter the Password to confirm the new Password in the <Confirm Password> field.
6.	On clicking the Submit button, the password will be changed / updated for the chosen User's Account. A Message Window will be displayed to that effect.  On clicking the Home button of the Message Window, it redirects the Authorized User to the 'UMS' main page.
7.	On clicking the Home button (before changing the Password), it only redirects the Authorized User back to 'UMS' main page.

6.3 Activate User

Activate User allows Authorized User to activate the **Inactive** Users.

User Management

Note: - This User List displayed under the Logged User Only

	Search	Select Column	Go				View Per Page	10
	Create User	Change User Password	Activate User	Deactivate User	View Info			1 2 3
	Login Name	Name	Status	Manager	Office Name	Action		
<input type="radio"/>	loaduserten	loaduserten loaduserten	ACTIVE	chief	--	Modify Roles View Roles		
<input type="radio"/>	loaduserthree	loaduserthree loaduserthree	ACTIVE	chief	--	Modify Roles View Roles		
<input type="radio"/>	loadusertwo	loadusertwo loadusertwo				Modify Roles View Roles		
<input checked="" type="radio"/>	megasoft	megasoft megasoft				Modify Roles View Roles		
<input type="radio"/>	mobilitytest	test final test final				Modify Roles View Roles		
<input type="radio"/>	navenik	Naveen navenik				Modify Roles View Roles		
<input type="radio"/>	newusercreatedccuirr	asjfhhhh newuser created				Modify Roles View Roles		
<input type="radio"/>	satya	satya vamsi	ACTIVE	chief	satya	Modify Roles View Roles		
<input type="radio"/>	shilpa	shilpa shilpa	ACTIVE	chief	shilpa	Modify Roles View Roles		
<input type="radio"/>	srilalitha	srilalitha geddam	ACTIVE	chief	srilalitha	Modify Roles View Roles		

Message from webpage

Do you want to activate user megasoft...?

OK Cancel

[Create User](#) [Change User Password](#) [Activate User](#) [Deactivate User](#) [View Info](#) [Print](#)

STEP	ACTION
1.	Select a deactivated User from the Home page whom you want to activate.
2.	On clicking Activate User button, a confirmation message appears.
3.	On clicking OK button, the Activate User window appears which confirms the successful activation of a deactivated user.
4.	On clicking the Submit button, the chosen User's Account will be activated and a Message Window will be displayed to that effect  On clicking the Home button of the Message Window, it redirects the Authorized User to the 'UMS' main page.
5.	On clicking the Home button (before activating the User's Account), it only redirects the Authorized User back to 'UMS' main page.

6.4 Deactivate User

Deactivate User allows Authorized User to **deactivate** the **Active** Users. Deactivation is disabling a User from using the privileges assigned to him/her. However, all the privileges

and data stored about the User are preserved. Deactivated User can be activated any time later.

The screen below displays the list of **Active** Users enabling the Authorized User to choose a User to **deactivate** his / her User Account.

The screenshot shows a 'User Management' interface. At the top, there's a search bar with 'Select Column' and 'Go' buttons, and a dropdown for 'View Per Page' set to 10. Below the search bar is a toolbar with buttons for 'Create User', 'Change User Password', 'Activate User', 'Deactivate User', and 'View Info'. A message box titled 'Message from webpage' is overlaid on the page, asking 'Do you want to deactivate user megasoft...?' with 'OK' and 'Cancel' buttons. The main table lists users with columns for Login Name, Name, Status, Manager, Office Name, and Action. The user 'megasoft' is selected, highlighted with a blue border. The table includes rows for various users like 'loaduserthree', 'loadusertwo', 'navienk', etc. At the bottom of the table are the same toolbar buttons and a 'View Info' button.

STEP	ACTION
1.	Select an Active User from the Home page whom you want to deactivate.
2.	On clicking Deactivate User button, a confirmation message appears.
3.	On clicking OK button, the Deactivate User window appears which confirms the successful deactivation of an active user.
4.	On clicking the submit button, the chosen User's Account will be deactivated and a Message Window will be displayed to that effect <p>The user has been Deactivated Sucessfully : megasoft</p> <p style="text-align: center;">Home</p> <p>On clicking the Home button of the Message Window, it redirects the Authorized User to the 'UMS' main page</p>
5.	On clicking the Home button (before deactivating the User's Account), it only redirects the Authorized User back to 'UMS' main page

6.5 View Info

View Info displays the selected user's (User Accounts) information regardless of the status (Active/Inactive/Roles required).

	Create User	Change User Password	Activate User	Deactivate User	View Info	1 2 3
	Login Name	Name	Status	Manager	Office Name	Action
<input type="radio"/>	TEST QC FOR MOBILYAL	test sadasdasda	ACTIVE	chief	MOBILY TESTING	Modify Roles View Roles
<input type="radio"/>	dfsadfsad	dfsadfsa n	ACTIVE	chief	--	Modify Roles View Roles
<input type="radio"/>	kishore	kishore k	ACTIVE	chief	--	Modify Roles View Roles
<input type="radio"/>	loadusereight	loadusereight loadusereight	ACTIVE	chief	--	Modify Roles View Roles
<input type="radio"/>	loaduserfive	loaduserfive loaduserfive	ACTIVE	chief	--	Modify Roles View Roles
<input type="radio"/>	loaduserfour	loaduserfour loaduserfour	ACTIVE	chief	--	Modify Roles View Roles
<input type="radio"/>	loadusernine	loadusernine				Modify Roles View Roles
<input type="radio"/>	loaduserone	loaduserone				Modify Roles View Roles
<input type="radio"/>	loaduserseven	loaduserseven				Modify Roles View Roles
<input checked="" type="radio"/>	loadusersix	loadusersix				Modify Roles View Roles

Message from webpage

Do you want to View Info for the Selected user ?

OK Cancel

Print

STEP	ACTION
1.	Select a User from the Home page whose information want to view.
2.	On clicking View Info button, a confirmation message appears.
3.	On clicking OK button of the message screen, the View Info screen appears as follows. 
4.	On clicking the Home button of the Message Window, it redirects the Authorized User to the 'UMS' main page

6.6 Network Level Users

To access Network Level Users, go to User Management System > Network Level Users

The screen below shows 'Network Level Users' module

N/w Level Users						
Note: - This User List displayed across this N/w						
Search	Select Column	Go	View Per Page 10			
Login Name	Name	Office Name	Id	Status	Action	
TESTUSER	satish p	--	TESTCP	DEACTIVE	Associate	
abc	test ttt	--	MONDAY	DEACTIVE	Associate	
ascilcp	ascilcp ascilcp	--		ACTIVE	Associate	
chief	chief chief	BSSUI HQ		ACTIVE	Associate	
chief1	chief chief	--		DEACTIVE	Associate	
chief10	sdfst sdfsf	--		DEACTIVE	Associate	
chief2	chief two	--		DEACTIVE	Associate	
chief3	chief three	--		ACTIVE	Associate	
chief4	chief four	--		ACTIVE	Associate	
chief5	chief ittestfive	--		DEACTIVE	Associate	

6.6.1 Associate

Associate action helps the User to activate and deactivate the users across the network

STEP	ACTION
1.	By default, the list of users list across the network will be displayed as records in a grid. The columns include 'Login Name', 'Name', 'Office Name', 'Id', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number' </p>
3.	User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively
4.	On clicking the button at the bottom of the screen, user can take printouts of the 'Network Level Users' records list

6.6.2 Activate

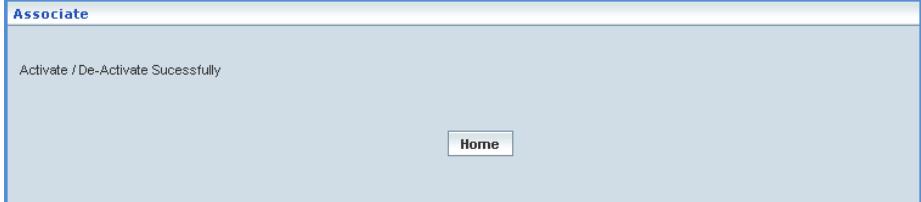
This section helps to activate the users across the network.

STEP	ACTION
1.	User can click action link. The 'Associate' window displays.
2.	On clicking Activate button,

The screenshot shows the 'Associate' window with the following details:

First Name	test
Middle Name	done
Last Name	ttt
Address	hyd
City	Testkdfdf
Postal Code	--
E-Mail	mon@test.com
Validity Date	01/13/2013
Creation Date	01/13/2012
Status Code	DA
Status Date	01/13/2012
Id Verification	MONDAY

At the bottom of the window are three buttons: **Activate**, **De-Activate**, and **Home**.

STEP	ACTION
1.	View the details of the selected user across the network
2.	Click the Activate button. A message window gets displayed.  <p>Notice that the ACTIVE appears in the 'Status' column Click Home button to go back to the 'Network Level Users' window</p>
3.	Click Home button before associating the selected user to activate, it directs the users to 'User Management System' main page

6.6.3 Deactivate

This section describes you how to deactivate the users across the network

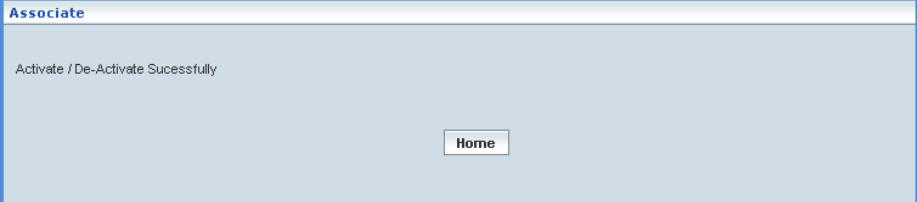
STEP	ACTION
1.	User can click Associate action link. The 'Associate' window displays.



The Associate window displays the following user details:

First Name	test
Middle Name	done
Last Name	ttt
Address	hyd
City	Testkdfdf
Postal Code	--
E-Mail	mon@test.com
Validity Date	01/13/2013
Creation Date	01/13/2012
Status Code	DA
Status Date	01/13/2012
Id Verification	MONDAY

At the bottom of the window are three buttons: **Activate**, **De-Activate**, and **Home**.

STEP	ACTION
1.	View the details of the selected user across the network
2.	Click the De-Activate button. The message window gets displayed.  Notice that the DEACTIVE status appears in the 'Status' column. Click the Home button to go back to the 'Network Level Users' window.
3.	Click the Home button before associating the selected user to activate, it directs the users to 'User Management System' main page.

6.7 Role Management

A Role can be defined as one element consisting of a set of modules or one module (as the case may be) to which accessibility can be attributed for further provisioning to the prospective users. In other words, a Role defines User rights and privileges.

6.7.1 Create Role

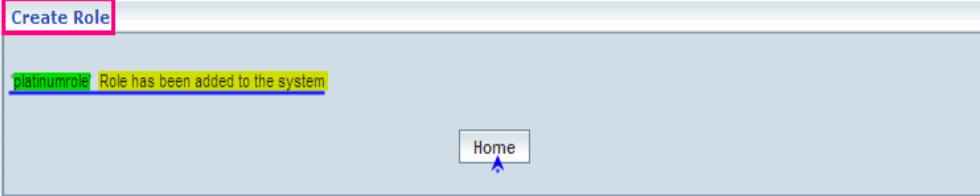
User can create a new Role and specify privileges for that Role. Those Users who have been assigned to this Role shall have rights and privileges as per the configuration of the Role. User can configure Roles in such a manner that part privileges or full privileges of the features pertaining to one or more than one module could be considered while creating the Role.

Show Role					
				1	
	Role Name	Description			
<input type="radio"/>	addrole	asfasdf	View		Modify
<input type="radio"/>	allroles	test	View		Modify
<input type="radio"/>	autopup	dfgdfg	View		Modify
<input type="radio"/>	customer	sdffff	View		Modify
<input type="radio"/>	kkrole	h....	View		Modify
<input type="radio"/>	rolesnew	sdfsdfds	View		Modify
<input type="radio"/>	roley	artetert	View		Modify

Create Role		Delete	1

The screen below shows **creating** a Role.

Create Role		Indicates Mandatory
Role Name	<input type="text"/>	
Description	<input type="text"/>	
SOAPAPI		
<input type="checkbox"/> Get Subscriber Info	<input type="checkbox"/> Change Primary MSISDN	
<input type="checkbox"/> Change MSISDN	<input type="checkbox"/> Activate MSISDN	
<input type="checkbox"/> Deactivate Subscriber	<input type="checkbox"/> Reactivate Subscriber	
<input type="checkbox"/> Change MSISDN Status		<input type="button" value="selectall"/> <input type="button" value="deselectall"/>
User Management System		
<input type="checkbox"/> Add User	<input type="checkbox"/> Office Dealer User	
<input type="checkbox"/> Id_Email	<input type="checkbox"/> View User Activity	
<input type="checkbox"/> Delete Role	<input type="checkbox"/> View User Roles	
<input type="checkbox"/> View Work Group	<input type="checkbox"/> Update Work Group	
<input type="checkbox"/> Show Role	<input type="checkbox"/> Create Work Group	
<input type="checkbox"/> Modify Role	<input type="checkbox"/> Migrate User	
<input type="checkbox"/> View Users	<input type="checkbox"/> Change User Password	
<input type="checkbox"/> Change User Roles	<input type="checkbox"/> Deactivate Users	
<input type="checkbox"/> Activate Users		<input type="button" value="selectall"/> <input type="button" value="deselectall"/>
Reverse SCP		
<input type="checkbox"/> Category	<input type="checkbox"/> Reverse SCP	
<input type="checkbox"/> Map Unmapped MDNs To PIN	<input type="checkbox"/> Generate RSCP Pins	
<input type="checkbox"/> Configure Review Period	<input type="checkbox"/> Map Credits To Ad	
<input type="checkbox"/> Map Slabs To Category	<input type="checkbox"/> Ad	
		<input type="button" value="selectall"/> <input type="button" value="deselectall"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/> <input type="button" value="Home"/>		

STEP	ACTION
1.	On clicking the Create Role button, the Create Role screen appears.
2.	Enter name of the Role in the <Role Name> field.
3.	Enter a description defining the proposed Role in the <Description> text field
4.	Application Modules along with the corresponding functional features (sub modules) will be displayed as blocks. These blocks include – User Management, Configuration Management, Customer Management, Card Life Cycle Management, Migration, Telecommunication Services Gateway, Short Message Switching Center, Settlements, Service Offering and Rating Management, Home Location Register, Interconnect Billing Management, Customer Care, Voice Over Internet Protocol, Trouble Ticket Management, Reverse SCP and Multi-Media Message Switching Center
5.	Check <input checked="" type="checkbox"/> the corresponding check boxes of the desired Functional Features related to each of the modules under the respective blocks.
6.	On clicking the selectall button, it enables the User to select the entire features of the Module at one stretch.
7.	To deselect all the checked features (of a Module) at one stretch, click the deselectall button.
8.	On clicking the Submit button, the new Role will be registered (added) and saved. A message window will be displayed to that effect.  On clicking the Home button of the Message Window, it directs the User to the 'UMS' main page.
9.	On clicking the Reset button, it clears the screen (earlier enter details and check boxes) enabling the User to enter and select the details accordingly
10.	On clicking the Home button at the bottom of the screen (before the submission of new Role details), it directs the Authorized User back to 'UMS' main page

6.7.2 Show Role

Show Role enables the Authorized User to manage (view/modify/delete) the information related to a Role. User can peruse, modify / update and delete the details related to a chosen (specific) Role.

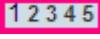
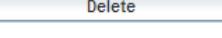
Initially, the entire Roles will be displayed as records in a grid.

The screen below shows **managing (view/modify/delete)** a Role.

The screenshot displays a user interface for managing roles. At the top left is a red-bordered button labeled "Show Role". Below it is a toolbar with "Create Role" and "Delete" buttons. A page number "1" is in the top right corner. The main area is a table with columns: "Role Name" and "Description". Each row contains a radio button, a role name, a description, and two buttons: "View" and "Modify". The table rows are:

	Role Name	Description	View	Modify
<input type="radio"/>	addrole	asfasdf	View	Modify
<input type="radio"/>	allroles	test	View	Modify
<input type="radio"/>	autotopup	dfgdfg	View	Modify
<input type="radio"/>	customer	sdffff	View	Modify
<input type="radio"/>	kkrole	h....	View	Modify
<input type="radio"/>	rolesnew	sdfsdfs	View	Modify
<input type="radio"/>	roley	artetert	View	Modify

Below the table are additional "Create Role" and "Delete" buttons, followed by a page number "1" and a "Print" button.

STEP	ACTION
1.	By default, the list of entire Roles will be displayed as records in a grid. The columns include 'Role Name', 'Description' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number' </p>
3.	On clicking the  link of a chosen Role, the corresponding details will be displayed in a separate screen enabling the Authorized User to peruse the details
4.	On clicking the  link of a chosen Role, the corresponding details will be displayed in a separate screen enabling the Authorized User to modify / update the details accordingly
5.	On selecting the corresponding radio option  of a chosen Role and by clicking the  button, the Role will be deleted
6.	On clicking the  button at the bottom of the 'Roles List Grid', Authorized User can take printouts of the Roles List

6.7.3 View Role

On clicking the  link of a chosen Role (from the Roles list), the corresponding details will be displayed in a separate screen enabling the Authorized User to peruse the details.

The screen below displays the details related to a chosen Role.

The screenshot shows a user interface for managing roles. At the top left is a 'View' button. Below it, there's a section for 'Role Name' and 'Role Description'. A note indicates that the name and description will be dynamically displayed in their corresponding fields. Another note states that assigned permissions for various functional features will be displayed under 'Role Components'. The interface is divided into sections: 'Home Location Register' and 'User Management System'. Under 'Home Location Register', there are buttons for 'Create VMSC Terminating CSI', 'View VMSC Terminating CSI', 'Modify VMSC Terminating CSI', and 'Delete VMSC Terminating CSI'. Under 'User Management System', there are buttons for 'Add User', 'View User Roles', 'View User Activity', 'Activate Users', 'Deactivate Users', 'Change User Roles', 'Change User Password', 'View Users', 'Migrate User', 'Create Work Group', 'Update Work Group', and 'View Work Group'. At the bottom center is a 'Home' button.

STEP	ACTION
1.	Name of the Role and its description will be dynamically displayed in their corresponding fields <Role Name> and <Role Description>
2.	Assigned permissions for the accessibility to various Functional Features of each of the Modules will be displayed under their respective blocks under the ' Roles Components ' heading
3.	User can peruse the details
4.	On clicking the Home button at the bottom of the screen, it directs the Authorized User back to the 'Roles List' - (Show Role) grid

6.7.4 Modify Role

On clicking the **Modify** link of a chosen Role from the Roles list, the corresponding details will be displayed in a separate screen enabling the Authorized User to modify / update the details accordingly.

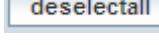
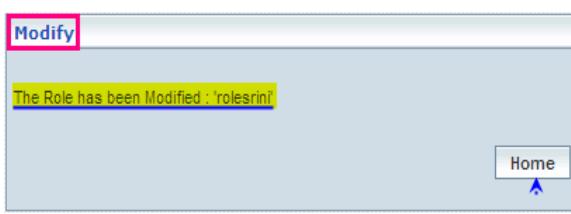
The screen below shows modifying the details related to a chosen Role.

Modify

Role Name	<input type="text" value="rolesrini"/>	Name of the Role and its description will be dynamically displayed in their corresponding fields - User can modify these details if required
Description	<input type="text" value="test"/>	Name of the Role and its description will be dynamically displayed in their corresponding fields - User can modify these details if required
Login Name The selected role is being used by : srim .		
User Management System NOTE: Check or uncheck the corresponding check boxes, as the case may be, of the desired features related to each of the Modules under the respective blocks. This is to bring in the required changes for various access permissions		
<input checked="" type="checkbox"/> Add User <input checked="" type="checkbox"/> View User Roles <input checked="" type="checkbox"/> Update Work Group <input checked="" type="checkbox"/> Migrate User <input checked="" type="checkbox"/> Change User Password <input checked="" type="checkbox"/> Deactivate Users		<input checked="" type="checkbox"/> View User Activity <input checked="" type="checkbox"/> View Work Group <input checked="" type="checkbox"/> Create Work Group <input checked="" type="checkbox"/> View Users <input checked="" type="checkbox"/> Change User Roles <input checked="" type="checkbox"/> Activate Users
Configuration Management <input type="checkbox"/> IMSI Configuration <input type="checkbox"/> Miscellaneous Configuration <input type="checkbox"/> Multi Currency <input type="checkbox"/> Out file Configuration		
<input type="checkbox"/> Class Of Service <input type="checkbox"/> Tax Configuration <input type="checkbox"/> Configure SMSC Ids		
<input type="button" value="selectall"/> <input type="button" value="deselectall"/>		
<input type="button" value="selectall"/> <input type="button" value="deselectall"/>		
<input type="button" value="Submit"/> <input type="button" value="Home"/>		

Clicking the 'Select All' button enables the User to select the entire features of the module at one stretch

Clicking the 'Deselect All' button enables the User to deselect the entire features of the module at one stretch

STEP	ACTION
1.	Name of the Role and its description will be dynamically displayed in their respective fields <Role Name> and <Description> - User can modify these details if required
2.	Already assigned permissions for the accessibility to various Functional Features of each of the Modules will be displayed under their respective blocks
3.	Select <input checked="" type="checkbox"/> or deselect <input type="checkbox"/> the corresponding check boxes, as the case may be, of the desired features related to each of the Modules under the respective blocks. This is to bring in the required changes for various access permissions
4.	On clicking the  button, it enables the User to select the entire features of the Module at one stretch
5.	To deselect all the checked features (of a Module) at one stretch, click the  button
6.	On clicking the  button, changes related to the chosen Role will be updated and saved. A message window will be displayed to that effect  On clicking the  button of the Message Window, it directs the Authorized User back to the 'Roles List' - (Show Role) grid
7.	On clicking the  button at the bottom of the screen (before the submission of modifications), it directs the Authorized User back to the 'Roles List' - (Show Role) grid

6.7.5 Delete Role

On selecting the corresponding radio option of a chosen Role and by clicking the 'Delete' button, it enables the User to delete Role after confirming the deletion.

The screen below shows deleting a chosen Role.

Show Role

	Role Name	Description	View	Modify
<input type="radio"/>	addrole	asfasdf	View	Modify
<input type="radio"/>	allroles	test	View	Modify
<input type="radio"/>	autopup	dfgdfg	View	Modify
<input type="radio"/>	customer	sdffff	View	Modify
<input checked="" type="radio"/>	kkrole		View	Modify
<input type="radio"/>	rolesnew		View	Modify
<input type="radio"/>	roley		View	Modify

Message from webpage

Do you want to delete the selected role ?

OK Cancel

Create Role Delete Print

STEP	ACTION
1.	On selecting the corresponding radio option <input checked="" type="radio"/> of a chosen Role and by clicking the <input type="button" value="Delete"/> button, an alert message window will be displayed enabling the user to confirm deletion
2.	On clicking the <input type="button" value="OK"/> button of the alert window, it displays the information related to Role User and once again a confirmation alert in a separate 'Delete Role' screen
3.	On clicking the <input type="button" value="Cancel"/> button of the alert window, it retains the 'Roles List' - (Show Role) grid

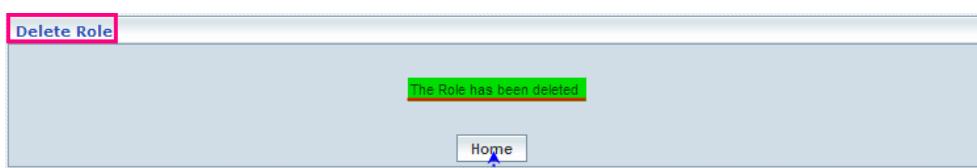
The screen below shows information related to Role User and the confirmation alert.

Delete Role

The selected role 'kkrole' is being used by loadusereight, loaduserfive, loaduserfour, loadusernine, loaduserone, loaduserseven, loadusersix, loaduserten, loaduserthree, loadusertwo, yash1, yash2, yash3, yash4, yash5

Are you sure you want to delete the role 'kkrole' ?

Submit Cancel

STEP	ACTION
4.	User can peruse the Role User details before confirming the deletion of the Role
5.	<p>On clicking the  button of the alert window, the corresponding Role will be deleted and a Message Window will be displayed to the effect</p>  <p>On clicking the  button of the Message Window, it directs the User back to 'Roles List' - (Show Role) grid</p> <p><u>NOTE:</u> The corresponding 'Role' (record) will be automatically disappeared from the Roles List.</p>
6.	On clicking the  button of the 'Delete Role' screen, it retains the 'Roles List' - (Show Role) grid

7 System Configuration/HLR

This chapter describes about configuring PLMN Area before HLR is deployed.

7.1 PLMN Area Configuration

[Home Location Register → PLMN Area Configuration](#)

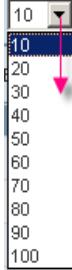
PLMN Area Configuration module enables the user to manually configure PLMN Area Codes, each at a time. This area code shall be constituted in contemplation with corresponding parameters such as zip code and NXX values. The list of existing (already configured) area codes will be displayed in a grid. The columns of the grid includes Zip-Code, NPA (Actual Area Code) and NXX.

This module helps the user performing the following actions:

- ◆ Create
- ◆ Modify
- ◆ Delete
- ◆ Search

The screen below displays existing Area Codes:

PLMN Area Configuration			
Search		View Per Page	10
		Create	Modify
		1	2
	Zip Code	NPA	NXX
<input type="radio"/>	2543	346	348
<input type="radio"/>	8454	343	434
<input type="radio"/>	234343	343	343
<input type="radio"/>	243453	343	434
<input type="radio"/>	323242	232	232
<input type="radio"/>	565656	434	343
<input type="radio"/>	878766	867	544
<input type="radio"/>	890890	656	786
<input type="radio"/>	934343	878	434
<input type="radio"/>	5454656	568	655
		Create	Modify
		1	2
Home			

STEP	ACTION
1.	By default, the list of Area Codes will be displayed as records in a grid. The columns include 'Zip Code', 'NPA' and 'NXX'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Service Control Point'
4.	On clicking the Modify button, 'Modify' screen will be displayed enabling the user to update / change corresponding values (as required) of a chosen Area Code.
5.	On clicking the Delete button, of a chosen 'Area Code', it enables the user to delete the same
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'HLR' main page

Create

Create enables the user to configure an area code along with the corresponding values related to Zip-Code and NXX.

The screen below shows creating a new area code.

The screenshot shows a 'Create' form with the following fields:

- Zip Code: 8908900
- NPA: 656
- NXX: 786

At the bottom are two buttons: 'Submit' and 'Home'. A note in the top right corner says 'I Indicates Mandatory'.

STEP	ACTION
1.	Enter values of Zip Code, NPA and NXX in their respective fields <Zip Code>, <NPA> and <NXX> NOTE: The combined matrix (values) of an area code must be unique
2.	User must enter the details of the Area Code where it is a mandatory information I Indicates Mandatory
3.	On clicking the Submit button, the new Area Code will be created and added to the existing list. A message window will be displayed to that effect <p>On clicking the Home button of the message window, it redirects the user to the 'PLMN Area Codes' records grid</p>
4.	On clicking the Home button at the bottom of the 'Create' Screen (before creating a new Area Code), it redirects the user to the 'PLMN Area Codes' records grid

Modify

Modify enables the user to update / change values related to an existing Area Code. User can choose the corresponding radio option of the desired Area Code (from the records grid) that needs to be modified.

The screen below shows modifying / updating an existing area code.

The screenshot shows a 'Modify' screen with three input fields: Zip Code (8908900), NPA (656), and NXX (786). A legend in the top right corner indicates that a red border around a field means it is mandatory. Below the fields are 'Submit' and 'Home' buttons.

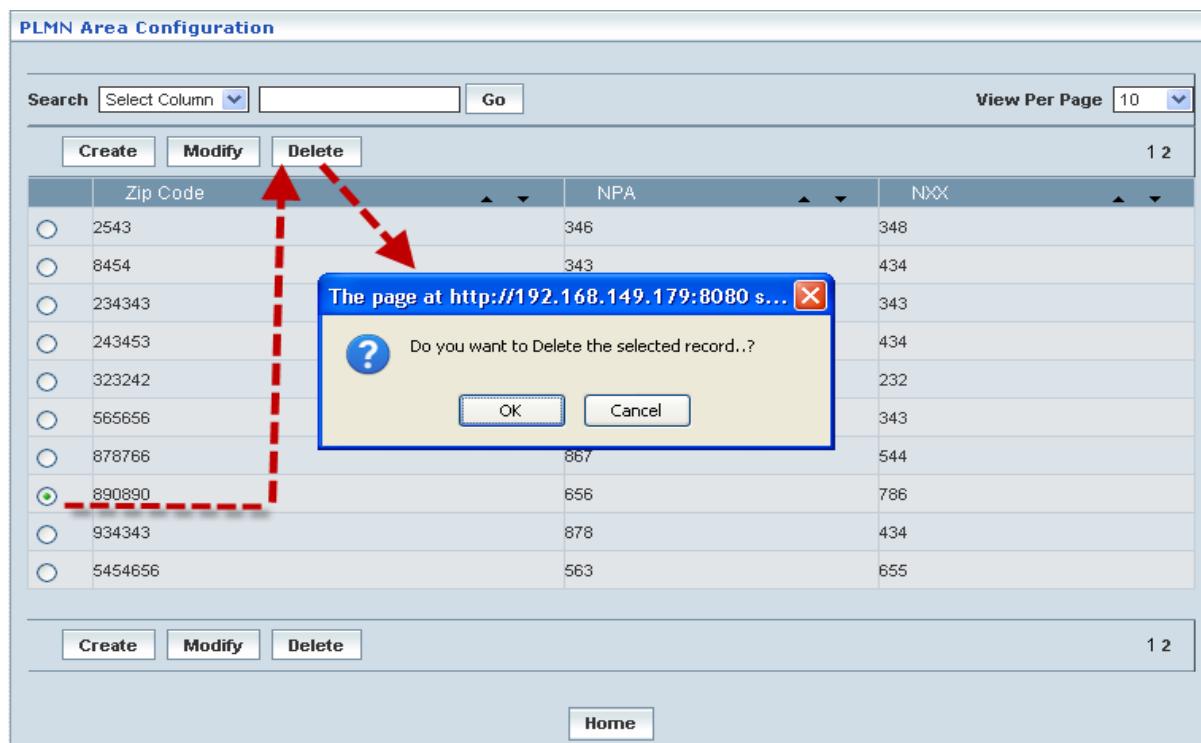
STE P	ACTION
1.	User can make necessary changes related to Area Code parameters ('Zip Code', 'NPA' and 'NXX')
2.	<p>On clicking the Submit button, the changes made will be updated accordingly in the database. A message window will be displayed to that effect</p> <p>NOTE: If an Area Code has already been assigned to a HLR Address, the same cannot be modified</p> <p>The message window displays the text 'PLMN Area Configuration modified successfully.' and a 'Home' button at the bottom.</p>
3.	<p>On clicking the Home button of the message window, it redirects the user to the 'PLMN Area Configuration' grid</p>

Delete

Delete enables the user to delete an existing Area Code.

User can choose the corresponding radio option of the desired Area Code (from the records grid) that needs to be deleted.

The screen below shows deleting an existing area code.



STEP	ACTION
1.	Select the radio button of the chose Area Code that needs deletion
2.	On clicking the Delete button, an alert message window will be displayed enabling the user to confirm deletion of the chosen Area Code
3.	<p>On clicking the OK button of the alert message window, the chosen Area Code will be deleted and a message window will be displayed to that effect. It will be disappeared from the 'Area Codes' grid</p> <p>NOTE: If an Area Code has already been assigned to a HLR Address, the same cannot be modified</p> <p>On clicking the Home button of the message window, it directs the user to 'PLMN Area Configuration' grid</p> <p>On clicking the Cancel button of the alert message window, it retains the grid without deleting the Area Code record</p>

Searching for a specific Area Code (Record)

The screenshot shows a search interface with a dropdown menu labeled 'Search' containing options: 'NPA', 'ZIP CODE', 'NXX'. Below the dropdown is a text input field containing '555'. To the right of the input field is a 'Go' button with a red arrow pointing towards it. A red arrow also points from the text input field towards the 'Go' button.

STEP	ACTION
1.	Select a search criterion (Zip Code/NPA/NXX) from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion (Zip Code/NPA/NXX) will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the value (Zip Code/NPA/NXX) that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Area Code (record) will be highlighted among the list of 'Area Codes' records

The screen below depicts fetching and displaying the give Area Code record.

The screenshot shows a table titled 'PLMN Area Configuration' with columns: Zip Code, NPA, and NXX. The table contains several rows of data. One specific row is highlighted with a red border, corresponding to the search results shown above. The highlighted row contains the values: Zip Code 6565, NPA 555, and NXX 555.

	Zip Code	NPA	NXX
○	2543	346	348
○	6565	555	555
○	8454	434	434
○	234343	343	343
○	243453	434	434
○	323242	232	232
○	565656	434	343
○	878766	867	544
○	934343	878	434
○	5454656	563	655

7.2 PLMN Configuration

[Home Location Register → PLMN Configuration](#)

PLMN Configuration module enables the user to configure certain parameters related to HLR and VLR addresses. Again these configurations will be discretely carried out correspondingly and in contemplation with the following types of Numbering Plans:

- ◆ NANP: North American Numbering Plan (explicitly meant for North America)
- ◆ E164: This term covers any other Numbering Plans other than US & Canada Numbering Plans

The details related to HLR & VLR addresses of NANP include CC (Country Code), Area Code, NXX, SN (Subscriber Number) and PLMN Name.

The details related to HLR address of E164 include CC (Country Code), NDC (National Destination Code) and PLMN Name.

The screen below shows selecting the desired option for choosing NANP [North American Numbering Plan.](#)

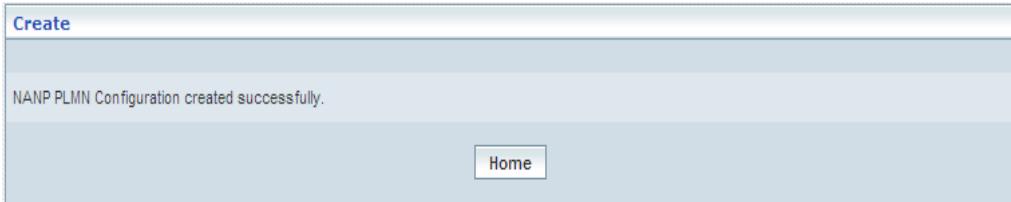
The screenshot shows a web-based configuration interface titled "PLMN Configuration". At the top left is a red-bordered button labeled "PLMN Configuration". To the right is a small red vertical bar followed by the text "Indicates Mandatory". Below this are two radio buttons: one red circle with a white dot labeled "NANP" and one blue circle with a white dot labeled "E164". At the bottom are two buttons: "Submit" and "Home". Red arrows point upwards from the "Submit" and "Home" buttons towards the mandatory indicator.

STEP	ACTION
1.	Select the desired radio option to choose a Numbering Plan, Ex: NANP
2.	The corresponding details will be displayed below: If the details have been already configured, the same shall be displayed If the details have to be configured for the first time, user must enter the required details in their respective fields

[Create](#)

The screen below shows entering details related to HLR and VLR Address parameters for NANP.

The screenshot shows a "Create" interface for NANP. At the top left is a blue link "Create". Below it is a table with four columns: CC, Area Code, NXX, and SN. The first row contains "HLR Address" with values 1, 232, 111, and 3224. The second row contains "VLR Address" with values 1, 232, 323, and 212. The third row contains "PLMN Name" with a text input field containing "CreatePLMNNANP". At the bottom are "Submit" and "Home" buttons.

STEP	ACTION
1.	By default, the CC (Country Code) is 1 (one) for the NANP
2.	Select an area code from the <Area Code> drop-down list of HLR Address field By default, the corresponding list of area codes will be dynamically displayed as drop-down list of the HLR Address field * Only one HLR Address has to be configured for one network
3.	Enter NXX and SN values of the HLR Address in their respective fields
4.	Select an area code from the <Area Code> drop-down list of VLR Address field By default, the corresponding list of area codes will be dynamically displayed as drop-down list of the VLR Address field
5.	Enter NXX and SN values of the VLR Address in their respective fields * However, SN value for VLR Address is not mandatory, it is an option for the Operator * NXX value of various VLR Addresses must be different from one another
6.	Enter PLMN Name in <Name Name> field
7.	On clicking the Submit button, the PLMN Configuration for the selected NANP will be created accordingly in the database. A message window will be displayed to that effect  <p>On clicking the Home button of the message window, it redirects the user to the 'PLMN Configuration' Screen</p>
8.	On clicking the Home button at the bottom of the 'Create' screen (before creating a new PLMN configuration for NANP), it redirects the user to the 'PLMN Configuration' Screen

The screen below shows PLMN Configuration grid details for NANP type

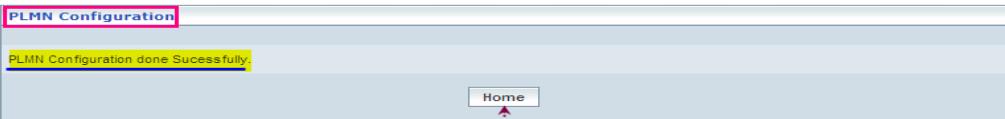
NANP						
						1
	CC	HLR Address	VLR Address	PLMN Name	Action	
<input checked="" type="radio"/>	1	12321113224	1232323212	CreatePLMNNANP	Modify	
						1

Modify

On clicking the **Modify** link, corresponding details will be displayed in their respective fields, which enables the user to modify / update HLR details as required and accordingly.

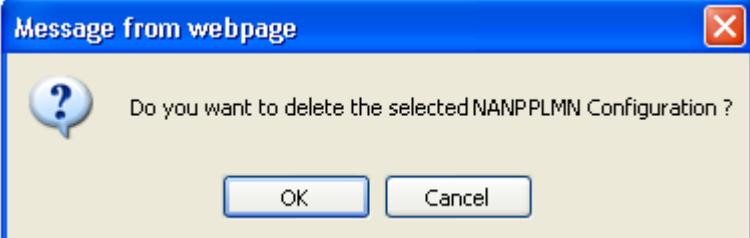
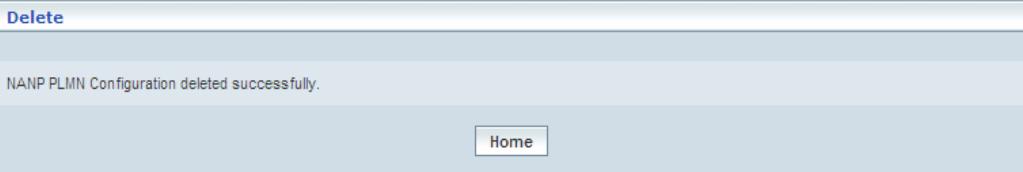
The screen below displays modifying / updating the details related to HLR address of the NANP.

Modify				
	CC	Area Code	NXX	SN
HLR Address	<input checked="" type="checkbox"/>	1 232	111	3224
VLR Address		1 232	323	212
PLMN Name	CreatePLMNNANP			
	<input type="button" value="Submit"/> <input type="button" value="Home"/>			

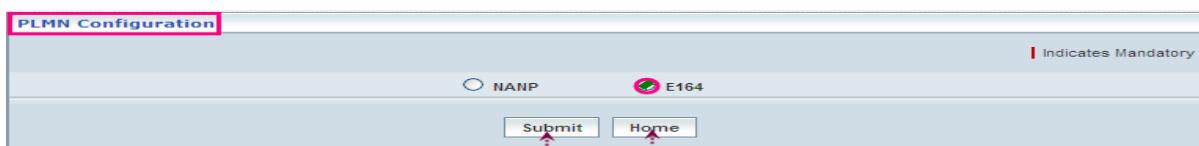
STEP	ACTION
1.	User can make necessary changes related to VLR address parameters
2.	On clicking the Modify button, the HLR and VLR addresses matrix of NANP will be updated accordingly
3.	On clicking the Submit button, the HLR and VLR addresses matrix of NANP will be <u>updated</u> accordingly in the database. A message window will be displayed to that effect  <p>On clicking the Home button of the message window, it redirects the user to the 'PLMN Configuration – Manage' screen</p>
4.	On clicking the Home button at the bottom of the 'PLMN Configuration – Manage' screen (before submission), it redirects the user to the HLR main page

Delete

On clicking the '**Delete**' button, corresponding details will be deleted accordingly.

STEP	ACTION
1.	User must select any one of the NANP PLMN Configuration to delete from the NANP grid
2.	On clicking the Delete button, an alert message window will be displayed enabling the user to confirm deletion of the chosen NANP PLMN Configuration 
3.	On clicking the OK button of the alert message window, the chosen NANP PLMN Configuration details will be deleted and a message window will be displayed to that effect. It will be disappeared from the 'NANP' grid.  On clicking the Home button of the message window, it directs the user to 'PLMN Configuration' Screen However, if any HLR address (Country Code) has been attributed to a subscriber, the HLR address cannot be deleted. On clicking the Cancel button of the alert message window, it retains the grid without deleting the 'NANP' grid

The screen below shows selecting the desired option for choosing [**E164 Numbering Plan**](#).



STEP	ACTION
1.	Select the desired radio option to choose a Numbering Plan, Ex: E164
2.	The corresponding details will be displayed below: If the details have been already configured, the same shall be displayed If the details have to be configured for the first time, user must enter the required details in their respective fields

[**Create**](#)

The screen below shows entering details related to HLR Address parameters for E164.

Create

CC | Select

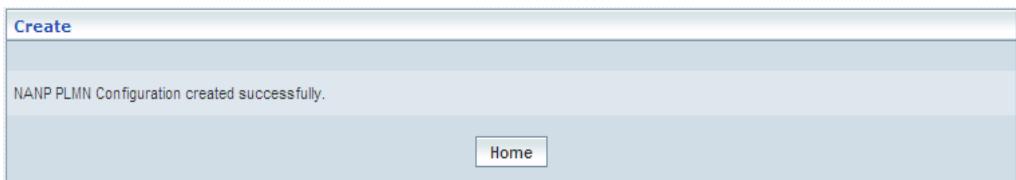
NDC |

PLMN Name |

HLR Address | 91 5421145788

SMSC GT |

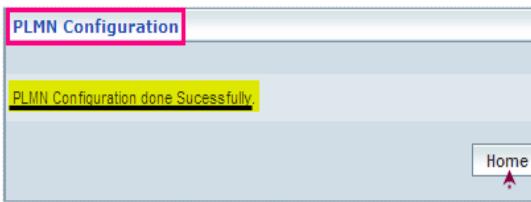
Submit **Home**

STEP	ACTION
1.	Select a country code from the drop-down list of CC field By default, the corresponding list of various country codes will be dynamically displayed as drop-down list of the CC field * Only one HLR Address has to be configured for one network
2.	Enter NDC in the <NDC> field
3.	Enter PLMN Name in the <PLMN Name> field
4.	Select the HLR Address check box, an alert message window will be displayed  On clicking the OK button of the alert message window, the HLR Address in the next field will be dynamically displayed.
5.	Enter SMS GT value in the <SMS GT> field
6.	On clicking the Submit button, the PLMN Configuration for the selected NANP will be created accordingly in the database. A message window will be displayed to that effect  On clicking the Home button of the message window, it redirects the user to the 'PLMN Configuration' Screen
7.	On clicking the Home button at the bottom of the 'Create' screen (before creating a new PLMN configuration for E164), it redirects the user to the 'PLMN Configuration' Screen

The screen below shows PLMN Configuration grid details for E164 type

E164						
	Create	Delete				1
	CC	NDC	HLR Address	PLMN Name	SMSC GT	Action
<input type="radio"/>	34	322	915421145788	test		Modify
<input type="radio"/>	59	133	915421145788	Mobily	919820111112	Modify
<input type="radio"/>	91	540	915421145788	hplm		Modify
<input type="radio"/>	91	542	915421145788	test1		Modify
<input type="radio"/>	92	982	915421145788	vodafone	919820111112	Modify
<input type="radio"/>	96	654	915421145788	aaa12		Modify
<input type="radio"/>	966	56	915421145788	test56		Modify
<input type="radio"/>	966	103	915421145788	tewre		Modify
<input type="radio"/>	966	111	915421145788	Test		Modify

	Create	Delete	1

STEP	ACTION
1.	User can modify details related to HLR address with the help of the corresponding Modify link
2.	User can delete the details related to HLR address with the help of the corresponding Delete link
3.	<p>On clicking the Submit button, the HLR address of E164 will be stored in the database. A message window will be displayed to that effect. <u>The configured HLR address will be dynamically applied even to other NDC values</u></p>  <p>On clicking the Home button of the message window, it redirects the user to the HLR main page</p>
4.	On clicking the Home button at the bottom of the 'PLMN Configuration – Manage' screen (before submission), it redirects the user to the HLR main page

Modify

On clicking the '**Modify**' link, corresponding details will be displayed in their respective fields, which enables the user to modify / update HLR details as required and accordingly.

The screen below displays modifying / updating the details related to HLR address of the E164.

The screenshot shows a 'Modify' form with the following fields:

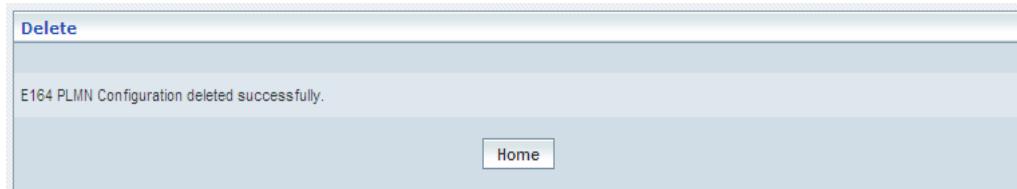
- CC: Select (dropdown menu)
- HDC: 133
- PLMN Name: Mobily
- HLR Address: 59 5421145788
- SMSC GT: 919820111112

At the bottom are 'Submit' and 'Home' buttons.

STEP	ACTION
1.	User can make necessary changes related to HLR address value
2.	On clicking the Submit button, the HLR address of E164 will be <u>updated</u> accordingly in the database. A message window will be displayed to that effect <p>E164 PLMN Configuration modified successfully. Home</p>
	On clicking the Home button of the message window, it redirects the user to the 'PLMN Configuration' screen
3.	On clicking the Home button at the bottom of the 'Modify' screen (before deletion), it redirects the user to the 'PLMN Configuration' screen

Delete

On clicking the '**Delete**' button, corresponding details will be deleted accordingly.

STEP	ACTION
1.	User must select any one of the E164 PLMN Configuration to delete from the NANP grid
2.	<p>On clicking the Delete button, an alert message window will be displayed enabling the user to confirm deletion of the chosen E164 PLMN Configuration</p> 
3.	<p>On clicking the OK button of the alert message window, the chosen E164 PLMN Configuration details will be deleted and a message window will be displayed to that effect. It will be disappeared from the 'E164' grid.</p>  <p>On clicking the Home button of the message window, it directs the user to 'PLMN Configuration' Screen However, if any HLR address (Country Code) has been attributed to a subscriber, the HLR address cannot be deleted. On clicking the Cancel button of the alert message window, it retains the grid without deleting the 'E164' grid</p>

7.3 HPLMN Configuration

[Home Location Register → HPLMN Configuration](#)

HPLMN Configuration module enables the user to configure the MCC (Mobile country Code), and MNC (Mobile Network Code) specific to a HPLMN (Home Public Land Mobile Network) Name. By virtue of this configurations, HPLMN checks for the subscriber's home network. This module helps the user to perform the following actions:

- ◆ Create
- ◆ Modify
- ◆ Delete

The screenshot shows a software interface titled "HPLMN Configuration". At the top, there are three buttons: "Create", "Modify", and "Delete". Below these buttons is a grid table with three columns: "MCC", "MNC", and "HPLMN Name". The grid contains two rows of data:

MCC	MNC	HPLMN Name
800	00	Airtel
502	152	tunetalk

At the bottom of the interface, there are three more buttons: "Create", "Modify", and "Delete". A "Home" button is located at the bottom right.

STEP	ACTION
1.	By default, the list of HPLMN Configuration will be displayed as records in a grid. The columns include 'MCC' (Mobile Country Code), 'MNC' (Mobile Network Code) and 'HPLMN Name'.
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p>

	User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively
	However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen
	User can navigate for subsequent records (10 each time) by clicking the desired 'page number'
3.	On clicking the Create button; 'Create' screen will be displayed enabling the user to configure MCC, MNC, and HPLMN Name of the subscriber, in order to validate home network.
4.	On clicking the Modify link, 'Modify' screen will be displayed enabling the user to update / change corresponding HPLMN configurations associated to subscribers profile
5.	On clicking the Delete link, 'Delete' screen will be displayed enables the user to delete the same
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Roaming Management' main page

Create

The screen below shows entering details related to MCC, MNC and HPLMN name.

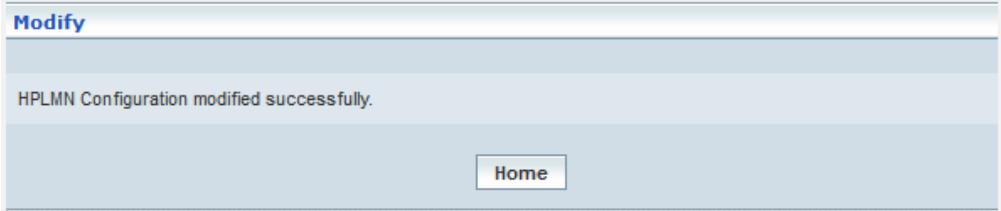
The screenshot shows a 'Create' form with three input fields: MCC (311), MNC (111), and HPLMN Name (xius). A red vertical bar to the right of the first two fields indicates they are mandatory. Below the fields are 'Submit' and 'Home' buttons.

STEP	ACTION
1.	Specify the MCC (Mobile Country Code) Details
2.	Specify the MNC (Mobile Network Code) Details
3.	Enter the HPLMN (Home Public Land Network) Details
4.	Click Submit the HPLMN is configured successfully. A Confirmation message is displayed as shown below <p>The confirmation message box contains the text "HPLMN Configuration done successfully." and a "Home" button at the bottom.</p>
5.	On clicking the Home button at the bottom of the 'Create' screen (before creating a new HPLMN configuration), it redirects the user to the 'HPLMN Configuration' Screen

Modify

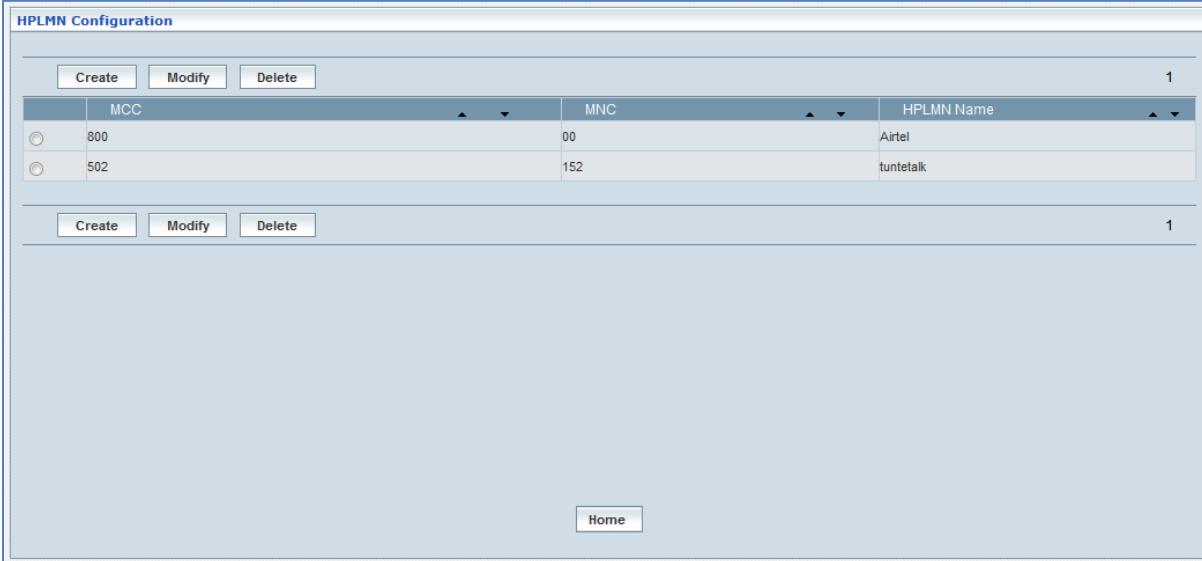
On clicking the **Modify** link, corresponding details will be displayed in their respective fields, which enables the user to modify / update HPLMN details as required and accordingly.

The screen below displays modifying / updating the details related to HPLMN address.

STEP	ACTION
1.	Select the desired HPLMN to modify.
2.	Make the necessary changes to the MCC, MNC and HPLMN name.
3.	Click Submit to save the changes. The Confirmation message is displayed as shown below 
4.	On clicking the Home button at the bottom of the 'Modify' screen, it redirects the user to the 'HPLMN Configuration' Screen

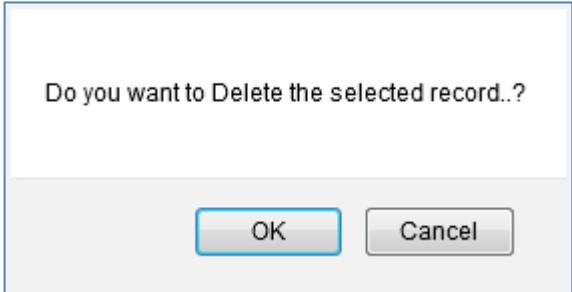
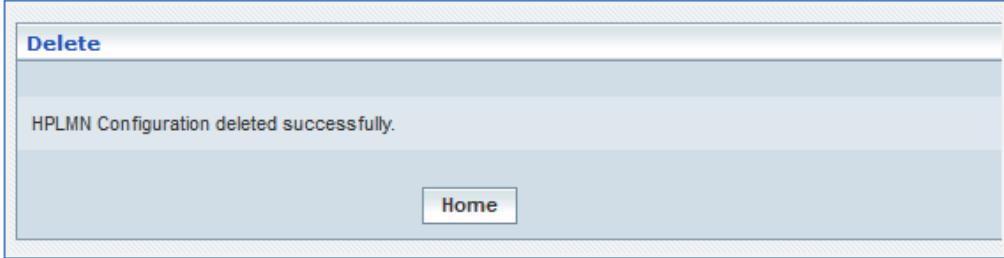
Delete

On clicking the **Delete** link, corresponding details of the selected HPLMN configuration shall be deleted.



HPLMN Configuration			
	MCC	MNC	HPLMN Name
<input type="radio"/>	800	00	Airtel
<input type="radio"/>	502	152	tunetalk

1

STEP	ACTION
1.	Select the desired HPLMN to delete.
2.	Click Delete button to delete the selected HPLMN. A confirmation screen opens as shown below 
3.	Click OK to delete the selected HPLMN. The message is displayed as shown below 
4.	Click Cancel to go back to the HPLMN Configuration Screen
5.	On clicking the Home button at the bottom of the 'Modify' screen, it redirects the user to the 'HPLMN Configuration' Screen

7.4 System Parameters

[Home Location Register → System Parameters](#)

This section enables users to set the system parameters.

The screen below shows the system parameters

System Parameters	
Indicates Mandatory	
Number Of Bearers Supported for Multi-Call	<input type="text" value="6"/>
Highest Supported CAMEL Phase	<input type="text" value="3"/>
CDRs to be written or not	<input checked="" type="checkbox"/>
GERAN is allowed in UTRAN	<input checked="" type="checkbox"/>
UTRAN is allowed in GERAN	<input checked="" type="checkbox"/>
Camel Phase 1 Supported by SCP	<input checked="" type="checkbox"/>
Reject UL from Lower CAMEL Phase VLR/SGSN	<input checked="" type="checkbox"/>
Downgrade CAMEL Phase for Lower CAMEL Phase VLR/SGSN	<input checked="" type="checkbox"/>
Barring Applied for CAMEL Negotiation	<input type="button" value="Select"/>
Lower CAMEL Phase Compatible SCP Address	<input type="text" value="34343"/>
Apply SS Barring if ODB Outgoing Call Barring is not Supported	<input checked="" type="checkbox"/>
Other than HPLMN originated MT SMS interception required	<input type="button" value="Disable"/>
SMS Filtering is enabled in SMSC	<input type="button" value="Disable"/>
Allowed FTN range check	<input type="button" value="Allow any FTN within range"/>
BSG's Applicable for SS barring	
BSG	<input type="button" value="Select"/>
BSGs Barred <input type="button" value="Speech"/> <input type="button" value="Fax"/> <input type="button" value="All Data CDS Services"/> <input type="button" value="All Data CDA Services"/>	
ODB to be Applied for CAMEL Negotiation	
General ODB Data	Services Barred
<input type="button" value="allECT-Barred"/> <input type="button" value="allIC-CallsBarred"/> <input type="button" value="allOG-CallsBarred"/> <input type="button" value="allPacketOrientedServicesBarred"/> <input type="button" value="chargeableECT-Barred"/> <input type="button" value="doublyChargeableECT-Barred"/>	<input type="button" value="Speech"/> <input type="button" value="Fax"/> <input type="button" value="All Data CDS Services"/> <input type="button" value="All Data CDA Services"/>
ODB Values Unsupported by VLR	
General ODB Data	Services Barred
<input type="button" value="allECT-Barred"/> <input type="button" value="allIC-CallsBarred"/> <input type="button" value="allOG-CallsBarred"/> <input type="button" value="allPacketOrientedServicesBarred"/> <input type="button" value="chargeableECT-Barred"/> <input type="button" value="doublyChargeableECT-Barred"/>	<input type="button" value="internationalOGCallsNotToHPLMN-Country"/> <input type="button" value="internationalOGCallsBarred"/> <input type="button" value="allOG-CallsBarred"/>
ODB Values Unsupported by SGSN	
General ODB Data	Services Barred
<input type="button" value="allECT-Barred"/> <input type="button" value="allIC-CallsBarred"/> <input type="button" value="allOG-CallsBarred"/> <input type="button" value="allPacketOrientedServicesBarred"/> <input type="button" value="chargeableECT-Barred"/> <input type="button" value="doublyChargeableECT-Barred"/>	<input type="button" value="allPacketOrientedServicesBarred"/> <input type="button" value="roamerAccessToVPLMN-AP-Barred"/> <input type="button" value="roamerAccessToHPLMN-AP-Barred"/>
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	<p>Enter Number of Bearers Supported for Multi-Call in <Number of Bearers Supported for Multi-Call> field. The entered number needs to be from 2 to 7.</p> <p>* If you want to enter the Number of Bearers Supported for Multi-Call next time, the number must be greater than or equal to the previous number.</p>
2.	<p>Enter Highest Support CAMEL Phase number in <Highest Support CAMEL Phase> field. The entered number needs to be from 1 and 4.</p>
3.	<p>Select CDRs to be written or Not in <CDRs to be written or Not> field. For example: Yes or No.</p> <p>* If you select Yes, the value store is 1. If you select No, the value stored is 0.</p>
4.	<p>Select GERAN is allowed in UTRAN in <GERAN is allowed in UTRAN> field. For example: Yes or No. If you select Yes, the value store is 1.</p> <p>* If you select No, the value stored is 0.</p>
5.	<p>Select UTRAN is allowed in GERAN in <UTRAN is allowed in GERAN> field. For example: Yes or No. If you select Yes, the value store is 1.</p> <p>* If you select No, the value stored is 0.</p>
6.	<p>Select Camel Phase 1 Supported by SCP in <Camel Phase 1 Supported by SCP> field. For example: Yes or No. If you select Yes, the value store is 1.</p> <p>* If you select No, the value stored is 0.</p>
7.	<p>Select Reject UL from Lower CAMEL Phase VLR/SGSN in <Reject UL from Lower CAMEL Phase VLR/SGSN> field. For example: Yes or No.</p> <p>* If you select Yes, the value store is 1. If you select No, the value stored is 0.</p>
8.	<p>Select Downgrade CAMEL Phase for Lower CAMEL Phase VLR/SGSN in <Downgrade CAMEL Phase for Lower CAMEL Phase VLR/SGSN> field. For example: Yes or No.</p> <p>* If you select Yes, the value store is 1. If you select No, the value stored is 0.</p>
9.	<p>Select Barring Applied for CAMEL Negotiation in <Barring Applied for CAMEL Negotiation> field</p>
10.	<p>Enter Lower CAMEL Phase Compatible SCP Address in <Lower CAMEL Phase Compatible SCP Address> field</p>

11.	Select Apply SS Barring if ODB Outgoing Call Barring is not Supported in <Apply SS Barring if ODB Outgoing Call Barring is not Supported> field. For example: Yes or No. * If you select Yes, the value store is 1. If you select No, the value stored is 0.
12.	Select option for <Other than HPLMN originated MT SMS interception required> <ul style="list-style-type: none"> • Disable • Enable • Enable for roaming subscribers only
13.	Select option for < SMS Filtering is enabled in SMSC> <ul style="list-style-type: none"> • Disable • Enable
14.	Select option for < Allowed FTN range check> <ul style="list-style-type: none"> • Allow any FTN within range • Disable
15.	BSG's Applicable for SS barring: Select BSG from the drop-down list and click  button to map to BSGs Barred. To remove/un-map the selected BSG from the BSG Barred list box click  button.
16.	ODB to be Applied for CAMEL Negotiation: Select 1 or more than General ODB Data from the list box and click  button to map to Services Barred. To remove/un-map the selected General ODB Data from the Services Barred list box click  button.
17.	ODB Values Unsupported by VLR: Select 1 or more than General ODB Data from the list box and click  button to map to Services Barred. To remove/un-map the selected General ODB Data from the Services Barred list box click  button
18.	ODB Values Unsupported by SGSN: Select 1 or more than General ODB Data from the list box and click  button to map to Services Barred. To remove/un-map the selected General ODB Data from the Services Barred list box click  button

19.	On clicking Submit button, the values are submitted. The successful response appears.  <p>The screenshot shows a window titled "System Parameters". Inside, a message says "System Parameters configuration done sucessfully." At the bottom right is a "Home" button.</p>
20.	On clicking the Home button of the message window, it redirects the user to the 'System Parameters' screen. On clicking the Home button at the bottom of the 'System Parameters' screen, it redirects the user to the HLR main page.

7.5 Service Control Point

[Home Location Register → Service Control Point](#)

Service Control Point enables the user to create a new service control point define SCF (Service Control Function) details and assign service keys. Subsequently, it allows the user to manage (View/Modify/Delete) the information related to a service control point.

Thus SCP helps the user performing the following functions:

- Create
- View
- Modify
- Delete
- Search

Initially, it displays a screen showing the list of existing service points as records in a grid.

The screen below shows the list of records for the existing service control points.

Service Control Point			
Search <input type="button" value="Select Column"/> <input type="text"/> <input type="button" value="Go"/>		View Per Page <input type="button" value="10"/>	
<input type="button" value="Create"/>		1 2	
SCF Name	SCF Address	Action	
abcd	121122	<input type="button" value="View"/>	<input type="button" value="Modify"/>
efgh	32320	<input type="button" value="View"/>	<input type="button" value="Modify"/>
fdfdf	2123	<input type="button" value="View"/>	<input type="button" value="Modify"/>
mno	7565	<input type="button" value="View"/>	<input type="button" value="Modify"/>
MobilyScf	969798991050	<input type="button" value="View"/>	<input type="button" value="Modify"/>
Namedemo	8983	<input type="button" value="View"/>	<input type="button" value="Modify"/>
SCFName	3235	<input type="button" value="View"/>	<input type="button" value="Modify"/>
SCFNametest	89898	<input type="button" value="View"/>	<input type="button" value="Modify"/>
test	23232	<input type="button" value="View"/>	<input type="button" value="Modify"/>
testname	645564	<input type="button" value="View"/>	<input type="button" value="Modify"/>

<input type="button" value="Create"/>		1 2
<input type="button" value="Home"/>		

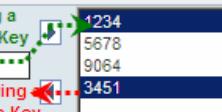
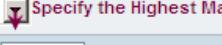
STEP	ACTION
1.	By default, the list of service control points will be displayed as records in a grid. The columns include 'SCF Name', 'SCF Address' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
2	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Service Control Point'
3.	On clicking the View link of a chosen 'SCF', corresponding information related to the service control point will be displayed in a separate screen enabling the user to peruse details of the SCF
4.	On clicking the Modify link of a chosen 'SCF', the corresponding details will be displayed in a separate screen (Modify Screen) enabling the user to modify / update the 'SCF' details accordingly
5.	On clicking the Delete link of a chosen 'SCF', the corresponding details will be displayed in a separate screen (Delete Screen) enabling the user to delete the same
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'HLR' main page

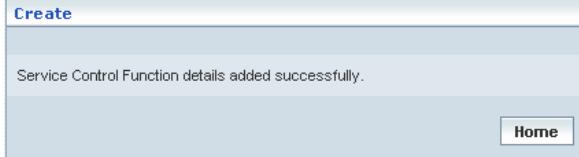
Create

The screen below shows creating a new Service Control Point.

Create

Indicates Mandatory

SCF Name	<input type="text" value="Crosspoint"/>	Enter SCF name and address in their respective fields
SCF Address	<input type="text" value="00998"/>	
Service Keys	<input type="text" value="1234"/> 	Adding a Service Key 1234 5678 9064 3451 Removing Service Key
SSN	<input type="text" value="240"/>	Enter SSN (number) and the number should be >=1 and <=255
Highest MAP Version Supported	<input type="text" value="Version-2"/> 	Specify the Highest Map Version that should be supported by the given SCF
<input type="button" value="Submit"/> <input type="button" value="Home"/>		

STEP	ACTION
1.	Enter SCF name and the address in their respective fields <SCF Name> and <SCF Address>
2.	User must essentially enter the details of the SCF where it is a mandatory information  Indicates Mandatory
3.	Enter a service key (number) in the <Service Keys> field
4.	On clicking the right-arrow button, the service key (number) will be moved to the adjacent field User can enter the desired number of service keys in a similar fashion
5.	However, if the user wants to just remove certain service keys any time before creating or establishing the SCP, selecting the number (service key) from the list and subsequently clicking the left-arrow button removes the number
6.	Enter SSN (number) in the <SSN> field The number should be between 1 to 255, i.e. >=1 and <=255
7.	Select an option related to the relevant Map Version from the drop-down list of the <Highest Map Version Supported> field to specify the Highest Map Version that should be supported by the proposed SCF * By default, the list of Map Versions will be dynamically displayed as the drop-down list of the <Highest Map Version Supported> field
8.	On clicking the Submit button, the new Service Control Point will be created and added to the existing list. A message window will be displayed to that effect  Service Control Function details added successfully. Home
	On clicking the Home button of the message window, it redirects the user to the 'Service Control Points' records grid
9.	On clicking the Home button at the bottom of the 'Create' Screen (before creating a new SCP), it redirects the user to the 'Service Control Points' records grid

View

On clicking the '**View**' link of a chosen 'SCF' (from the Service Control Points List); corresponding information related to the Service Control Point will be displayed in a separate screen enabling the user to peruse details of the same.

The screen below shows the view of a chosen Service Control Point.

View	
SCF Name	Crosspoint
SCF Address	00998
Service Keys	1234, 3451, 5678, 9064
SSN	240
Highest MAP Version Suported	Version-2
Home	

STEP	ACTION
1.	SCF Name, SCF Address, corresponding Service Keys (list), SSN Number and the Map Version will be dynamically displayed in their respective fields
2.	On clicking the Home button at the bottom of the 'View Screen', it redirects the user to the 'Service Control Points' records grid

Modify

On clicking the '**Modify**' link of a chosen 'SCF' (from the Service Control Points List); the corresponding details will be displayed in a separate screen (Modify Screen) enabling the user to modify / update the 'SCF' details accordingly.

The screen below shows modifying details related to an existing service control point.

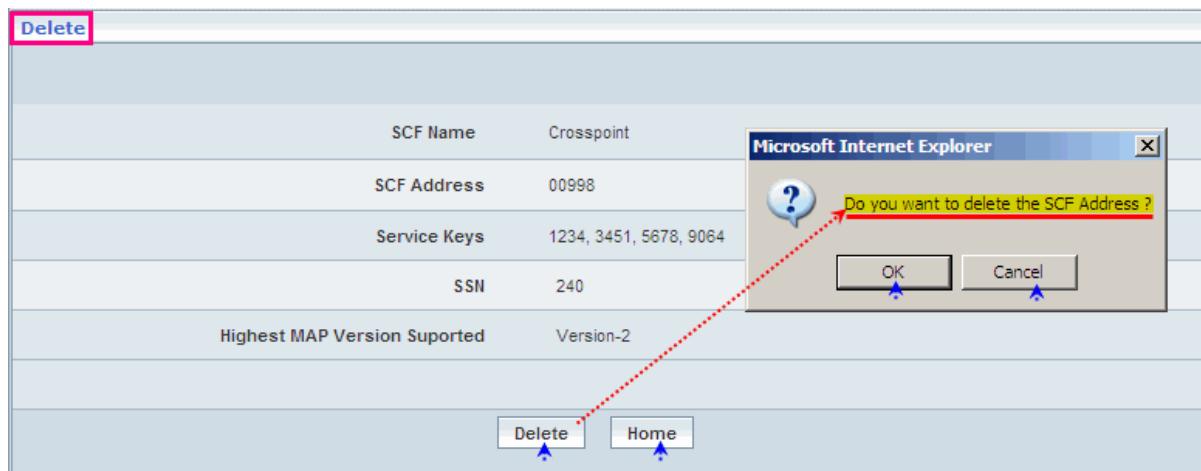
Modify	
Indicates Mandatory	
SCF Name	Crosspoint SCF name will be dynamically displayed and cannot be modified
SCF Address	00998 User can change/update the SCF address accordingly
Existing Service Keys	1234, 3451, 5678, 9064 Existing keys will be dynamically displayed
New Service Key	<p>Adding a Service Key</p> <p>6543 2341 1290 9076</p> <p>Removing Service Key</p>
SSN	242 User can change/update the SSN number, if required
Highest MAP Version Supported	Version-1 User can select an alternative Map Version
<input type="button" value="Modify"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	SCF Name, SCF Address, corresponding Service Keys (list), SSN Number and Map Version will be dynamically displayed in their respective fields
2.	However, SCF Name once created cannot be changed later
3.	SCF Address can be modified / updated
4.	Existing Service Keys cannot be removed or changed
5.	However, the desired list of additional service keys can be attributed to the SCP
6.	SSN number can be modified / updated, if required
7.	User can choose an alternative MAP Version to specify the Highest MAP Version
8.	On clicking the Modify button, SCP details will be updated and a message window will be displayed to that effect 
	On clicking the Home button of the message window, it redirects the user to the 'Service Control Points' records grid
9.	On clicking the Home button at the bottom of the 'Modify' Screen (before updating the details of SCP), it redirects the user to the 'Service Control Points' records grid

Delete

On clicking the '**Delete**' link of a chosen 'SCF' (from the Service Control Points List); the corresponding details will be displayed in a separate screen (Delete Screen) enabling the user to delete the same.

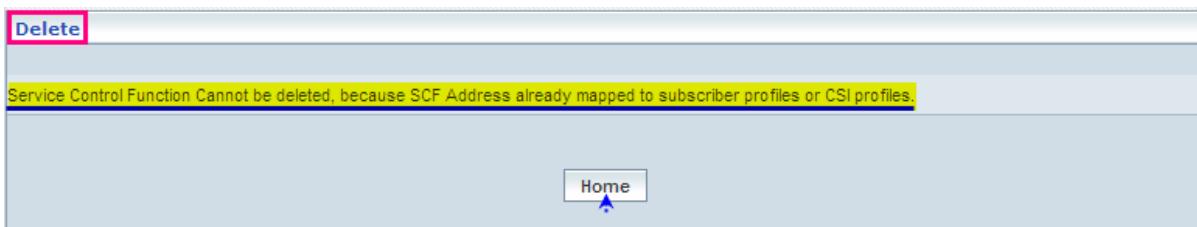
The screen below shows deleting an existing Service Control Point.



STEP	ACTION
1.	SCF Name, SCF Address, corresponding Service Keys (list), SSN Number, and Map Version will be dynamically displayed in their respective fields
2.	<p>On clicking the Delete button, an alert window will be displayed enabling the user to confirm deletion of the SCP</p> <p>On clicking the OK button of the alert window, corresponding SCP will be deleted and a message window will be displayed to that effect</p>  <p>The SCP record will be deleted from the grid (Service Control Points list)</p> <p>On clicking the Home button of the message window, it redirects the user to the 'Service Control Points' records grid</p> <p>On clicking the Cancel button of the alert window, it closes the alert window (without any action being performed)</p>
3.	On clicking the Home button at the bottom of the 'Delete' Screen (before deleting SCP), it redirects the user to the 'Service Control Points' records grid

However, if the SCP (SCF Address) is mapped to any subscriber or associated with a CSI Profile, it (SCP) cannot be deleted. If the User is trying to delete such SCP, an alert window will be displayed to the effect.

The screen below shows an alert message when trying to delete a Service Control Point where the SCF Address is either mapped to a subscriber or to a CSI Profile.



STEP	ACTION
1.	On clicking the Home button of the message window, it redirects the user to the 'Service Control Points' records grid

Searching for a specific Service Control Point (Record)



STEP	ACTION
1.	Select a search criterion ('SCF Name' or 'SCF Address') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('SCF Name' and 'SCF Address') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'SCF Name' or 'SCF Address' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Service Control Point (record) will be highlighted among the list of Service Control Point records.

Service Control Point			
Search		View Per Page	1 2
Create		Action	
SCF Name	SCF Address	Action	
abcd	121122	View	Modify Delete
erefbfd	53534	View	Modify Delete
fdfdf	2123	View	Modify Delete
mno	7565	View	Modify Delete
MobilyScf	969798991050	View	Modify Delete
Namedemo	89830	View	Modify Delete
nn	5565	View	Modify Delete
SCFName	3235	View	Modify Delete
SCFNameetest	89898	View	Modify Delete
test	23232	View	Modify Delete
Create		1 2	
Home			

7.6 PLMN Specific SS Configuration

PLMN Specific SS Configuration module enables the user to configure certain parameters related to MT, ISD, SS and IN Roaming details along with the specific PLMN SS codes.

The screen below shows the PLMN Specific SS Configuration

PLMN Specific SS Configuration

Indicates Mandatory

PLMN Specific SS Codes		PLMN-SPECIFICSS-2
PLMN specific SS Name	PLMN Test	
MT Inclusion	Yes	PLMN-SPECIFICSS-1#CAT Service#Yes#Yes#Yes#No PLMN-SPECIFICSS-2#prbt#Yes#Yes#Yes#No
ISD Inclusion	Yes	
SS Inclusion	Yes	
IN Roaming	Yes	

Submit Home

The screenshot shows a configuration interface for PLMN Specific SS Codes. At the top, there's a dropdown menu set to 'PLMN-SPECIFICSS-2'. Below it, a table lists five configuration items: 'PLMN specific SS Name' (set to 'PLMN Test'), 'MT Inclusion' (set to 'Yes'), 'ISD Inclusion' (set to 'Yes'), 'SS Inclusion' (set to 'Yes'), and 'IN Roaming' (set to 'Yes'). To the right of the table is a detailed view of the selected 'PLMN-SPECIFICSS-2' code, which contains two entries: 'PLMN-SPECIFICSS-1#CAT Service#Yes#Yes#Yes#No' and 'PLMN-SPECIFICSS-2#prbt#Yes#Yes#Yes#No'. The interface includes standard buttons for 'Submit' and 'Home' at the bottom.

STEP	ACTION
1.	Select PLMN Specific SS codes from the dropdown list
2.	Enter unique name in the <PLMN Specific SS Name> field
3.	Select (YES / NO) for MT Inclusion, ISD Inclusion, SS Inclusion and IN Roaming from the drop down lists provided. * The above features are Mandatory.
4.	On clicking the right-arrow button, the PLMN Specific SS codes along with the selected features will be moved to the adjacent field * There can be several PLMN Specific SS codes assigned and hence, user can enter the desired number of PLMN Specific SS codes in a similar fashion
5.	However, if the user wants to remove a given PLMN Specific SS codes, selecting a string that needs to be removed from the list (of PLMN Specific SS codes) and subsequently clicking the left-arrow button removes the same
6.	After adding the required number of PLMN Specific SS codes click Submit button
7.	On clicking the Submit button, the PLMN Specific SS codes will be stored in the database. A message window will be displayed to that effect <div style="border: 1px solid #ccc; padding: 10px; width: fit-content; margin-top: 10px;"> PLMN Specific SS Configuration <p>PLMN specific SS configuration is successful.</p> <p style="text-align: center;">Home</p> </div> On clicking the Home button of the message window, it redirects the user to the 'PLMN Specific SS Configuration' screen
8.	On clicking the Home button at the bottom of the 'PLMN Specific SS Configuration' screen (before submission), it redirects the user to the 'HLR' main page

7.7 Allowed FTNs

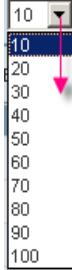
Home Location Register → Allowed FTNS

Allowed FTNs module enables the user to configure CC (Country Code) and NDC (Network Destination Code) for a specific network. By virtue of this configurations, MSISDNs corresponding to the CC and NDC are allowed/eligible for the call forwarding.

This module helps the user to perform the following actions:

- ◆ Create
- ◆ Upload
- ◆ Modify
- ◆ Delete

Allowed FTNs				
				1
Create		Upload		
CC	NDC	Action		
52	664	Modify		Delete
52	33	Modify		Delete
52	427	Modify		Delete
52	667	Modify		Delete
52	871	Modify		Delete
52	744	Modify		Delete
52	899	Modify		Delete
52	55	Modify		Delete
52	81	Modify		Delete

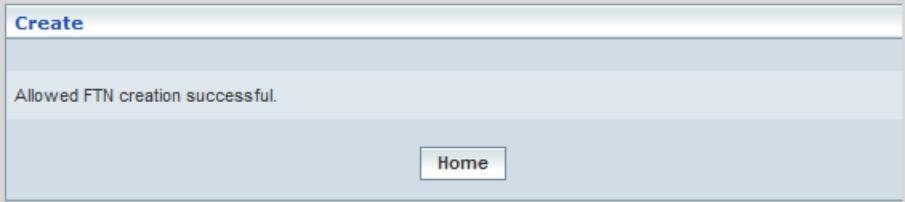
STEP	ACTION
1.	By default, the list of Allowed FTNs Configuration will be displayed as records in a grid. The columns include 'CC'(Country Code), 'NDC' (Network Destination Code) and 'Action'.
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Create button; 'Create' screen will be displayed enabling the user to configure 'CC'(Country Code), and 'NDC' (Network Destination Code)
4.	On clicking the Upload button, 'Upload' screen will be displayed enabling the user to browse and locate the '.txt' or '.csv' file and upload
5.	On clicking the Modify link, 'Modify' screen will be displayed enabling the user to update / change configured CC and NDC details
6.	On clicking the Delete link, 'Delete' screen will be displayed and enables to delete the FTN details
7.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Allowed FTNs' main page

Create

Home Location Register → Allowed FTNs → Create

The screenshot shows a 'Create' form with the following fields:

- Country Code**: A dropdown menu with a red vertical bar indicating it is mandatory. The placeholder text is "Select".
- NDC**: A text input field.
- Buttons**: "Submit" and "Home".

STEP	ACTION
1.	Select a Country Code from the drop down list
2.	Specify NDC (Network Destination Code) details
3.	Click Submit button to configure FTNs. The Confirmation message is displayed as shown below 
4.	On clicking the Home button at the bottom of the 'Create' screen, it redirects the user to the 'Allowed FTNs' Screen

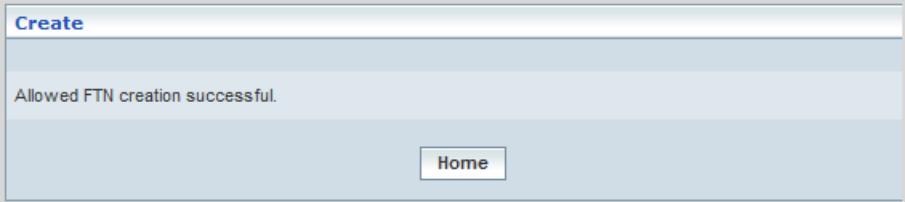
Upload

Home Location Register → Allowed FTNs → Create

Upload file enables the user to upload the CC and NDC files for configuring FTNs

The screenshot shows an 'Upload' form with the following content:

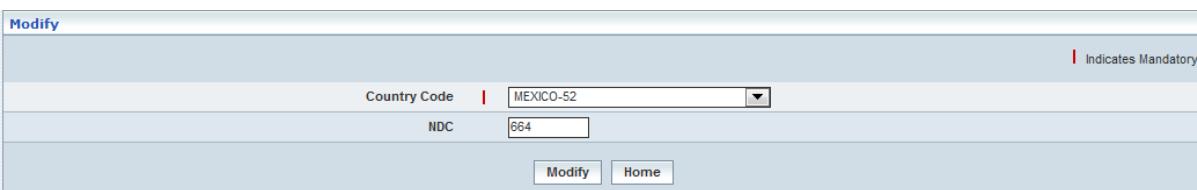
- Note:** Upload file format is as below
CC,NDC
 - The file extensions accepted are 'txt' or 'csv'.
 - Each record should be in a new separate line.
 - CC is mandatory, CC value should be numeric and pre configured.
 - NDC is optional. If specified it should be numeric, length should be less than or equal to 6 and should not start with '0'.
 - If NDC is not provided please provide the ','.
 - Eg: 91,101 or 91,
- Buttons:** "Upload" (with a red vertical bar indicating it is mandatory), "Browse...", "Submit", and "Home".

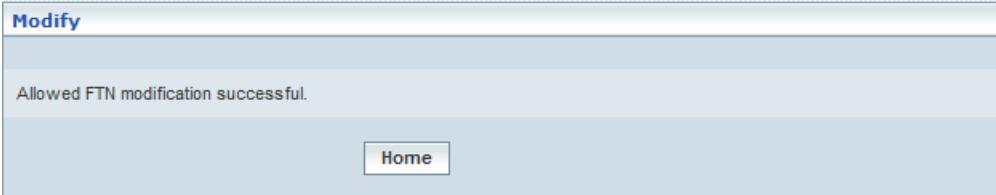
STEP	ACTION
1.	<p>Upload: Click the Browse button, 'Upload' screen will be displayed enabling the user to browse and locate the '.txt' or '.csv' file and upload</p> <p>Note:</p> <ul style="list-style-type: none"> • The file extensions accepted are '.txt' or '.csv'. • Each record should be in a new separate line. • CC is mandatory; CC value should be numeric and pre-configured. • NDC is optional. If specified it should be numeric, length should be less than or equal to 6 and should not start with '0'. • If NDC is not provided please provide the ','. • e.g.: 91,101 or 91.
2.	Click Submit button the FTN will get configured successfully. The Confirmation message is displayed as shown below 
3.	On clicking the Home button at the bottom of the 'Create' screen, it redirects the user to the 'Allowed FTNs' Screen

Modify

Home Location Register → Allowed FTNs → Modify

Modify enables the user to modify the existing configurations

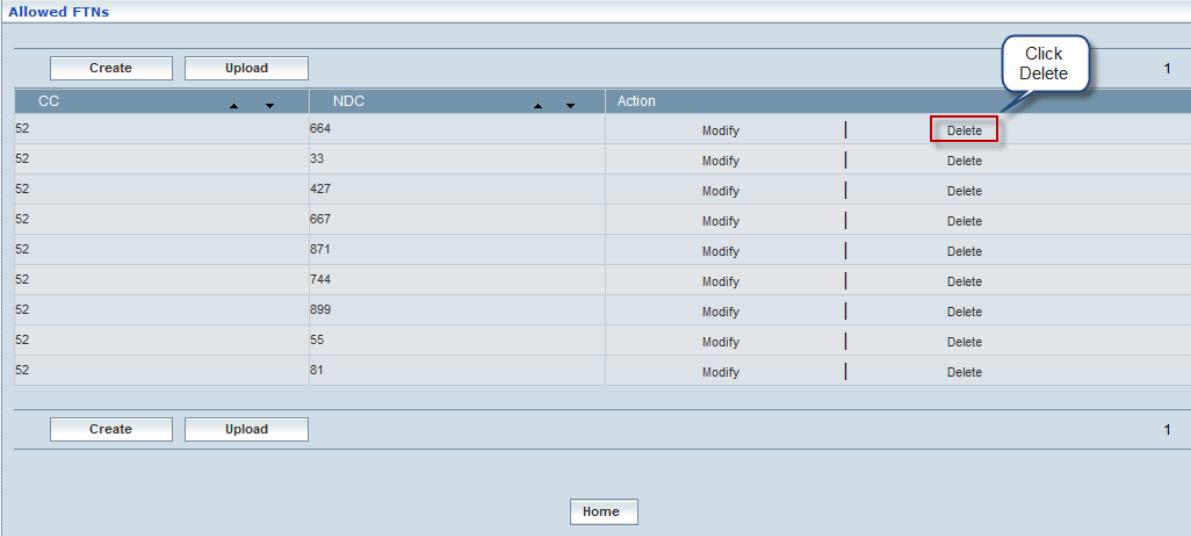


STEP	ACTION
1.	Specify the Country Code (CC) from the drop down list
2.	Specify the NDC (Network Destination Code) of the MSISDN
3.	Click Modify button to save the changes implemented. The Confirmation message is displayed as shown below 
4.	On clicking the Home button at the bottom of the 'Create' screen, it redirects the user to the 'Allowed FTNs' Screen

Delete

Home Location Register → Allowed FTNs → Delete

Delete enables the user to delete the existing configurations



CC	NDC	Action
52	664	Modify Delete
52	33	Modify Delete
52	427	Modify Delete
52	667	Modify Delete
52	871	Modify Delete
52	744	Modify Delete
52	899	Modify Delete
52	55	Modify Delete
52	81	Modify Delete

STEP	ACTION
1.	Click Delete to delete the FTNs configuration.
2.	Click Submit button the HPLMN will be configured successfully. The Confirmation message is displayed as shown below 
3.	On clicking the Home button at the bottom of the 'Create' screen, it redirects the user to the 'Allowed FTNs' Screen

7.8 PLMN Specific CUG

[Home Location Register → PLMN Specific CUG](#)

This section enables users to perform the following tasks of the PLMN Specific Closed User Group.

This module helps the user performing the following actions:

- ◆ Create
- ◆ View
- ◆ Modify
- ◆ Delete
- ◆ Search

[Create](#)

[Home Location Register → PLMN Specific CUG → Create](#)

Create enables the user to create PLMN Specific CUG Interlock Code.

The screen below shows creating a new PLMN Specific CUG Interlock Code

The screenshot shows a 'Create' form for a PLMN Specific CUG. The form has the following fields:

- CC:** ALGERIA#213 (radio button selected)
- DNIC:** Select
- Interlock Code:** 0213, 3232
- CUG Name:** Demo1
- CUG Index:** 23444
- Intra CUG Restriction:** Incoming calls barred within the CUG
- BSG:** Speech, Facsimile Services, All Data CDA Services, All Data CDS Services

A legend at the top right indicates that a red vertical bar indicates a mandatory field. At the bottom are 'Submit' and 'Home' buttons.

STEP	ACTION
1.	User must enter the details of the PLMN Specific CUG Interlock Code details where it is a mandatory information  Indicates Mandatory
2.	Select CC (Country Code) or DNIC (Data Network Identification Code) and select the respectively CC or DNIC codes from <CC> or <DNIC> drop-down list. NOTE: On selecting CC option, the CC drop-down list is enabled and on selecting DNIC option, the DNIC drop-down list is enabled.
3.	Enter Interlock Code in <Interlock Code> field. It should be numeric value. NOTE: The Interlock Code cannot be more than 65,636 and its first 4 digits are displayed atomically on selecting 'CC' or 'DNIC' from the drop-down list.
4.	Enter CUG Name in <CUG Name> field.
5.	Enter CUG Index in <CUG Index> field. It should be numeric value. NOTE: The CUG Index cannot be more than 32,767
6.	Select Intra CUG Restriction from <Intra CUG Restriction> drop-down list
7.	Select BSG from the <BSG> list box and map it by clicking  button it moves to the adjacent field
8.	On clicking the Submit button, the new PLMN Specific CUG Interlock Code will be created successfully. A message window will be displayed to that effect  On clicking the Home button of the message window, it redirects the user to the 'Create' Screen
9.	On clicking the Home button at the bottom of the 'Create' Screen (before creating a new PLMN Specific CUG Interlock Code), it redirects the user to the 'PLMN Specific CUG' Screen

Manage

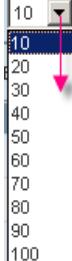
Home Location Register → PLMN Specific CUG → Manage

Manage enables the users to perform view, search, modify and delete PLMN Specific CUG Interlock Codes.

The screen below shows the 'Manage' Screen

PLMN Specific CUG				
Search	Select Column	Go	View Per Page 10	
Interlock Code	CUG Name	CUG Index	Action	
404311111	HLR1	1	View	Modify
404111112	HLR2	2	View	Modify
404111113	HLR3	3	View	Modify
404111114	HLR4	4	View	Modify
404111115	HLR5	5	View	Modify
404111116	HLR6	6	View	Modify
404111117	HLR7	7	View	Modify
404111118	HLR8	8	View	Modify
404111119	HLR9	9	View	Modify
404111110	HLR10	10	View	Modify

[Home](#)

STEP	ACTION
1.	By default, the list of CUGs will be displayed as records in a grid. The columns include 'Interlock Code', 'CUG Name', 'CUG Index' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
2	On clicking the View link, 'View' screen will be displayed enabling the user to view the details of chosen 'PLMN Specific CUG'
3.	On clicking the Modify link, 'Modify' screen will be displayed enabling the user to update / change corresponding values (as required) of a chosen 'PLMN Specific CUG'
4.	On clicking the Delete link, of a chosen 'LSA Specific CUG', it enables the user to delete the same
5.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'HLR' main page

View

On clicking the '**View**' link of a chosen 'PLMN Specific CUG' (from the PLMN Specific CUG List); corresponding information related to the PLMN Specific Code will be displayed in a separate screen enabling the user to peruse details of the same.

The screen below shows the view of a chosen PLMN Specific CUG

View

Interlock Code	404311111
CUG Name	HLR1
CUG Index	1
Intra CUG Restriction	Incoming calls barred within the CUG
BSG	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Speech Facsimile Services </div>
<input type="button" value="Home"/>	

STEP	ACTION
1.	'Interlock Code', 'CUG Name', 'CUG Index', Intra CUG Restriction' and 'BSG' will be dynamically displayed in their respective fields
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'PLMN Specific CUG' records grid

Modify

On clicking the '**Modify**' link of a chosen 'PLMN Specific CUG' (from the PLMN Specific CUG List); corresponding information related to the PLMN Specific CUG will be displayed in a separate screen enabling the user to modify details of the same.

The screen below shows modifying / updating an existing PLMN Specific CUG

Modify

| Indicates Mandatory

Interlock Code	404111112
CUG Name	<input type="text" value="HLR2"/>
CUG Index	<input type="text" value="2"/>
Intra CUG Restriction	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> None </div>
BSG	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Speech Facsimile Services All Data CDA Services All Data CDS Services </div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: 20px;"> Speech All data CDS Services </div>
<input type="button" value="Modify"/> <input type="button" value="Home"/>	

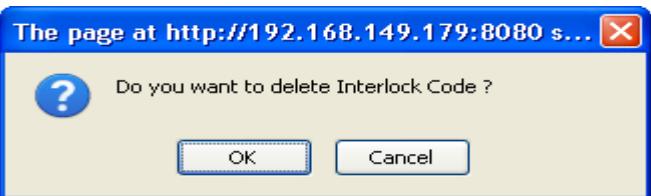
STEP	ACTION
1.	User can make necessary changes related to PLMN Specific CUG ('CUG Name', 'CUG Index' and 'Intra CUG Restriction') and finally configure at least one 'BSG'
2.	<p>On clicking the Submit button, the changes made will be updated accordingly in the database. A message window will be displayed to that effect</p> <p>NOTE: If an CUG IC is assigned to a CUG Profile, the same cannot be modified</p>  <p>On clicking the Home button of the message window, it redirects the user to the 'PLMN Specific CUG' grid</p>
3.	On clicking the Home button at the bottom of the 'Modify' screen (before submission), it redirects to the 'PLMN Specific CUG' grid

Delete

On clicking the '**Delete**' link of a chosen 'PLMN Specific CUG' (from the PLMN Specific CUG List); corresponding information related to the PLMN Specific CUG will be displayed in a separate screen enabling the user to delete details of the same.

The screen below shows deleting an existing PLMN Specific CUG

Delete	
Interlock Code 404111115	
CUG Name HLR5	
CUG Index 5	
Intra CUG Restriction Outgoing calls barred within the CUG	
BSG	<div style="border: 1px solid black; padding: 5px; width: 150px;">All Data CDA Services All data CDS Services</div>
Delete Home	

STEP	ACTION
1.	<p>On clicking the Delete button, an alert message window will be displayed enabling the user to confirm deletion of the chosen PLMN Specific CUG Interlock Code</p> 
2.	<p>On clicking the OK button of the alert message window, the chosen PLMN Specific CUG Interlock Code will be deleted and a message window will be displayed to that effect. It will be disappeared from the 'PLMN Specific CUG' grid.</p> <p>NOTE: If an CUG IC is assigned to a CUG Profile, the same cannot be modified</p>  <p>On clicking the Home button of the message window, it directs the user to 'PLMN Specific CUG' grid</p> <p>On clicking the Cancel button of the alert message window, it retains the grid without deleting the 'PLMN Specific CUG' record</p>
3.	<p>On clicking the Home button at the bottom of the 'Delete' screen (before submission), it redirects to the 'LMN Specific CUG' grid</p>

7 Searching for a specific PLMN Specific CUG (Record)



STEP	ACTION
1.	Select a search criterion ('Interlock Code', 'CUG Name' and 'CUG Index') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Interlock Code', 'CUG Name' and 'CUG Index') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Interlock Code', 'CUG Name' and 'CUG Index' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding PLMN Specific CUG (record) will be highlighted among the list of PLMN Specific CUG records.

The screen below depicts fetching and displaying the give PLMN Specific CUG record.

The screenshot shows a web-based application titled "PLMN Specific CUG". At the top, there is a search bar with "Select Column" dropdown, a "Go" button, and a "View Per Page" dropdown set to 10. Below the search bar is a table with the following columns: Interlock Code, CUG Name, CUG Index, and Action. The table contains 10 rows, each with a "View", "Modify", and "Delete" link. The row where "Interlock Code" is "404111112" and "CUG Name" is "HLR2" is highlighted with a blue background, indicating it is the selected record. The table has two sets of page navigation buttons at the bottom labeled "1 2". At the bottom center of the page is a "Home" button.

Interlock Code	CUG Name	CUG Index	Action
404311111	HLR1	1	View Modify Delete
404111112	HLR2	2	View Modify Delete
404111113	HLR3	3	View Modify Delete
404111114	HLR4	4	View Modify Delete
404111115	HLR5	5	View Modify Delete
404111116	HLR6	6	View Modify Delete
404111117	HLR7	7	View Modify Delete
404111118	HLR8	8	View Modify Delete
404111119	HLR9	9	View Modify Delete
404111110	HLR10	10	View Modify Delete

7.9 PLMN Specific Cell IDs

[Home Location Register → PLMN Specific Cell IDs](#)

This section enables users to perform the following tasks of the PLMN Specific Cell IDs

This module helps the user performing the following actions:

- ◆ Create
- ◆ View
- ◆ Modify
- ◆ Delete
- ◆ Search

Create

[Home Location Register → PLMN Specific Cell IDs → Create](#)

Create enables the user to create PLMN Specific Cell IDs.

The screen below shows creating a new PLMN Specific Cell IDs

Note: Mapping format
PLMN Name-Cell Name-Cell ID

Indicates Mandatory

PLMN Name	TEST12
Cell Name	testcellname
Cell ID	45

TEST12-testcellname-45

Submit Home

STEP	ACTION
1.	User must enter the details of the PLMN Specific Cell IDs details where it is a mandatory information  Indicates Mandatory
2.	Select PLMN Name from <PLMN Name> drop-down list.
3.	Enter Cell Name in <Cell Name> field.
4.	Enter Cell ID in <Cell ID> field. NOTE: Cell ID should be only numeric value.
5.	On clicking  button allows the user to map at least one Cell configuration to the selected PLMN and it moves to the adjacent field. On clicking  the user can perform un-mapping at least one configuration and vice versa.
6.	On clicking the Submit button, the new PLMN Specific Cell IDs will be created successfully. A message window will be displayed to that effect  On clicking the Home button of the message window, it redirects the user to the 'Create' Screen
7.	On clicking the Home button at the bottom of the 'Create' Screen (before creating a new PLMN Specific Cell IDs), it redirects the user to the 'PLMN Specific Cell IDs' Screen

Manage

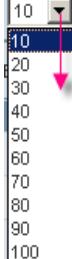
Home Location Register → PLMN Specific Cell IDs → Manage

Manage enables the users to perform view, search, modify, print and delete PLMN Specific Cell IDs.

The screen below shows the 'Manage' Screen

Manage				
PLMN Name	Action			
65	View		Modify	
TEST12	View		Modify	
India	View		Modify	
Nepal	View		Modify	
XYZ	View		Modify	
TEST3	View		Modify	
TEST	View		Modify	
Pakistan	View		Modify	
TESTDEMOM	View		Modify	
MOBILY1	View		Modify	

1 2

STEP	ACTION
1.	By default, the list of Cell IDs will be displayed as records in a grid. The columns include 'PLMN Name' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the View link, 'View' screen will be displayed enabling the user to view the details of chosen 'PLMN Specific Cell IDs'
4.	On clicking the Modify link, 'Modify' screen will be displayed enabling the user to update / change corresponding values (as required) of a chosen 'PLMN Specific Cell IDs'
5.	On clicking the Delete link, of a chosen 'LSA Specific Cell IDs', it enables the user to delete the same
6.	On clicking the Print button at the bottom of the grid, user can take printouts of the PLMN Specific Cell ID(s) list
7.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'HLR' main page

View

On clicking the '**View**' link of a chosen 'PLMN Specific Cell IDs' (from the PLMN Specific Cell IDs List); corresponding information related to the PLMN Specific Cell IDs will be displayed in a separate screen enabling the user to peruse details of the same.

The screen below shows the view of a chosen PLMN Specific Cell IDs.



STEP	ACTION
1.	'PLMN Name' and 'Cell Name – Cell ID' mapping will be dynamically displayed in their respective fields
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'Manage' Screen

Modify

On clicking the '**Modify**' link of a chosen 'PLMN Specific Cell IDs' (from the PLMN Specific Cell IDs List); corresponding information related to the PLMN Specific Cell IDs will be displayed in a separate screen enabling the user to modify details of the same.

The screen below shows modifying / updating an existing PLMN Specific Cell IDs

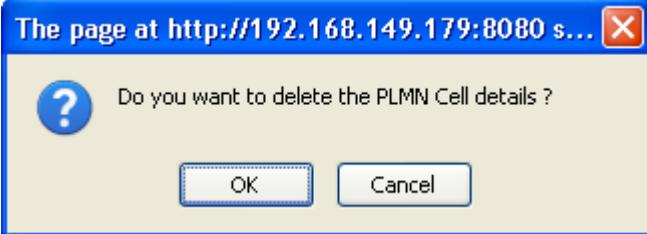
STEP	ACTION
1.	User can make necessary changes related to PLMN Specific Cell IDs ('Cell Name', 'Cell ID' and finally mapping at least one Cell Configuration to PLMN)
2.	<p>On clicking the Submit button, the changes made will be updated accordingly in the database. A message window will be displayed to that effect</p> <p>NOTE: If an Cell ID is assigned to LSA, the same cannot be modified</p> <p>On clicking the Home button of the message window, it redirects the user to the 'Manage' Screen</p>
3.	On clicking the Home button at the bottom of the 'Modify' Screen (before submission), it redirects to the 'Modify' Screen

Delete

On clicking the '**Delete**' link of a chosen 'PLMN Specific Cell IDs' (from the PLMN Specific Cell IDs List); corresponding information related to the PLMN Specific Cell IDs will be displayed in a separate screen enabling the user to delete details of the same.

The screen below shows deleting an existing PLMN Specific Cell IDs

The screenshot displays a user interface for managing PLMN Specific Cell IDs. At the top, there is a header bar with the word 'Delete'. Below this, a table-like structure shows a single row of data. The first column is labeled 'Cell Name - Cell ID' and contains the value 'testcellname-45'. To the right of this column is a vertical toolbar with icons for moving up and down, and a small preview window showing the same data. At the bottom of the interface are two buttons: 'Delete' and 'Home'.

STEP	ACTION
1.	<p>On clicking the Delete button, an alert message window will be displayed enabling the user to confirm deletion of the chosen PLMN Specific Cell IDs</p> 
2.	<p>On clicking the OK button of the alert message window, the chosen PLMN Specific Cell details will be deleted and a message window will be displayed to that effect. It will be disappeared from the 'PLMN Specific Cell IDs' grid.</p>  <p>On clicking the Home button of the message window, it directs the user to 'Manage' Screen</p> <p>On clicking the Cancel button of the alert message window, it retains the grid without deleting the 'PLMN Specific Cell IDs' record</p>
3.	<p>On clicking the Home button at the bottom of the 'Delete' screen (before submission), it redirects to the 'Manage' Screen</p>

Searching for a specific PLMN Specific Cell IDs (Record)



STEP	ACTION
1.	<p>Select a search criterion ('PLMN Name') from the drop-down list of the search criteria of the <Search> field</p> <p>* By default the list of search criterion ('PLMN Name') will be dynamically displayed as drop-down list of the <Search> field</p>
2.	Enter the 'PLMN Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding PLMN Specific Cell IDs (record) will be highlighted among the list of PLMN Specific Cell IDs records.

The screen below depicts fetching and displaying the give PLMN Specific Cell IDs record.

Manage

PLMN Name	Action
TEST12	View Modify Delete
65	View Modify Delete
India	View Modify Delete
Nepal	View Modify Delete
XYZ	View Modify Delete
TEST3	View Modify Delete
TEST	View Modify Delete
Pakistan	View Modify Delete
TESTDEMOM	View Modify Delete
TESTDD1	View Modify Delete

1 2

[Print](#)

[Home](#)

7.10 PLMN Specific LSA

[Home Location Register → PLMN Specific LSA](#)

This section enables users to perform the following tasks of the PLMN Specific LSA (Localized Service Area).

This module helps the user performing the following actions:

- ◆ Create
- ◆ View
- ◆ Modify
- ◆ Delete
- ◆ Search

Create

[Home Location Register → PLMN Specific LSA → Create](#)

Create enables the user to create PLMN Specific LSA.

The screen below shows creating a new PLMN Specific LSA

Create

Note: Mapping format
PLMN Name-Cell Name-Cell ID-LSA Name-LSA ID-Priority of the LSA ID-Preferential Access Indicator-LSA Indication for Idle Mode-LSA Indication for Active Mode-Idle Mode Support-Active Mode Support

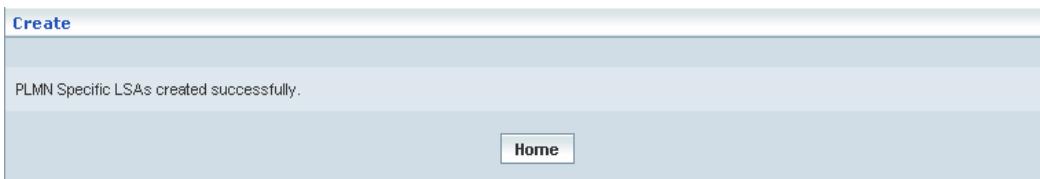
If selected PLMN Name has Cell Name - Cell IDs then it is mandatory to map with LSA ID

Indicates Mandatory

PLMN Name	TEST3
Cell Name - Cell ID	testname-2 CellSaudi-1111111111111111 saudicell1-1111111111111111
LSA Name	testlsaname
LSA ID	6
Priority of the LSA ID	2
Preferential Access Indicator	Yes
LSA Indication for Idle Mode	Yes
LSA Indication for Active Mode	Yes
Idle Mode Support	Yes
Active Mode Support	Yes

TEST3-CellSaudi-1111111111111111-testlsaname-6-2-Yes

Submit **Home**

STEP	ACTION
1.	User must enter the details of the PLMN Specific Localized Service Area details where it is a mandatory information  Indicates Mandatory
2.	Select PLMN Name from <PLMN Name> drop-down list. NOTE: THE <PLMN Name> related Cell Name and Cell ID gets displayed in the <Cell Name – Cell ID> list box
3.	Enter LSA Name in <LSA Name> field
4.	Enter LSA ID in <LSA ID> field. NOTE: LSA ID should be only numeric value.
5.	Select the priority of the LSA ID number from <Priority of the LSA ID> drop-down list
6.	Set the preferential access indicator to 'Yes' or 'No' from <Preferential Access Indicator> drop-down list
7.	Set the LSA indication for idle mode to 'Yes' or 'No' from <LSA Indication for Idle Mode> drop-down list
8.	Set the LSA indication for active mode to 'Yes' or 'No' from <LSA Indication for Active Mode> drop-down list
9.	Set the idle mode support to 'Yes' or 'No' from <Idle Mode Support> drop-down list
10.	Set the active mode support to 'Yes' or 'No' from <Active Mode Support> drop-down list
11.	Select one or more than one Cell Name and Cell ID from <Cell Name – Cell ID> list box
12.	On clicking  button allows the user to map at least one LSA configuration to the selected PLMN and it moves to the adjacent field. On clicking  the user can perform un-mapping at least one LSA configuration and vice versa.
13.	On clicking the Submit button, the new PLMN Specific LSA will be created successfully. A message window will be displayed to that effect  <p>The message window displays the following content: Create PLMN Specific LSAs created successfully. <input type="button" value="Home"/> </p> <p>On clicking the Home button of the message window, it redirects the user to the 'Create' Screen</p>
14.	On clicking the Home button at the bottom of the 'Create' Screen (before creating a new PLMN Specific LSA), it redirects the user to the 'PLMN Specific LSA' Screen

Manage

Home Location Register → PLMN Specific LSA → Manage

Manage enables the users to perform view, search, modify, print and delete PLMN Specific LSA.

The screen below shows the 'Manage' Screen

Manage				
Search		Select Column	Go	View Per Page
1 2				
PLMN Name				Action
65				View Modify Delete
TESTRRRRR				View Modify Delete
India				View Modify Delete
Nepal				View Modify Delete
ABCD				View Modify Delete
XYZ				View Modify Delete
TEST3				View Modify Delete
Pakistan				View Modify Delete
TEST4				View Modify Delete
TESTDD1				View Modify Delete

Print

Home

STEP	ACTION
1.	By default, the list of LSAs will be displayed as records in a grid. The columns include 'PLMN Name' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the View link, 'View' screen will be displayed enabling the user to view the details of chosen 'PLMN Specific LSA'
4.	On clicking the Modify link, 'Modify' screen will be displayed enabling the user to update / change corresponding values (as required) of a chosen 'PLMN Specific LSA'
5.	On clicking the Delete link, of a chosen 'PLMN Specific LSA', it enables the user to delete the same
6.	On clicking the Print button at the bottom of the grid, user can take printouts of the PLMN Specific LSA(s) list
7.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'HLR' main page

View

On clicking the '**View**' link of a chosen 'PLMN Specific LSA' (from the PLMN Specific LSA List); corresponding information related to the PLMN Specific LSA will be displayed in a separate screen enabling the user to peruse details of the same.

The screen below shows the view of a chosen PLMN Specific LSA.

The screenshot displays a 'View' interface for a chosen PLMN Specific LSA. At the top left is a 'View' button. Below it is a note: 'Note: Mapping format PLMN Name-Cell Name-Cell ID-LSA Name-LSA ID-Priority of the LSA ID-Preferential Access Indicator-LSA Indication for Idle Mode-LSA Indication for Active Mode-Idle Mode Support-Active Mode Support'. The main area shows a table with two columns: 'PLMN Name' (TESTDD1) and 'LSA Details' (containing the value 'TESTDD1-224444-444-werewr-424-0-NO----'). There are navigation arrows at the bottom of the LSA Details section. A vertical scroll bar is visible on the right side of the LSA Details box. At the bottom is a 'Home' button.

STEP	ACTION
1.	'PLMN Name' and 'LSA Details' mapping will be dynamically displayed in their respective fields
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'Manage' Screen

Modify

On clicking the '**Modify**' link of a chosen 'PLMN Specific LSA' (from the PLMN Specific LSA List); corresponding information related to the PLMN Specific LSA will be displayed in a separate screen enabling the user to modify details of the same.

The screen below shows modifying / updating an existing PLMN Specific LSA

Note: Mapping format
PLMN Name-Cell Name-Cell ID-LSA Name-LSA ID-Priority of the LSA ID-Preferential Access Indicator-LSA Indication for Idle Mode-LSA Indication for Active Mode-Idle Mode Support-Active Mode Support

If the selected PLMN Name has Cell Name - Cell IDs then it is mandatory to map with LSA ID

PLMN Name	India
Cell Name - Cell ID	224-24 CellIndia--1116077170
LSA Name	<input type="text"/>
LSA ID	<input type="text"/>
Priority of the LSA ID	0
Preferential Access Indicator	No
LSA Indication for Idle Mode	Select
LSA Indication for Active Mode	Select
Idle Mode Support	Select
Active Mode Support	Select

Submit Home

Indicates Mandatory

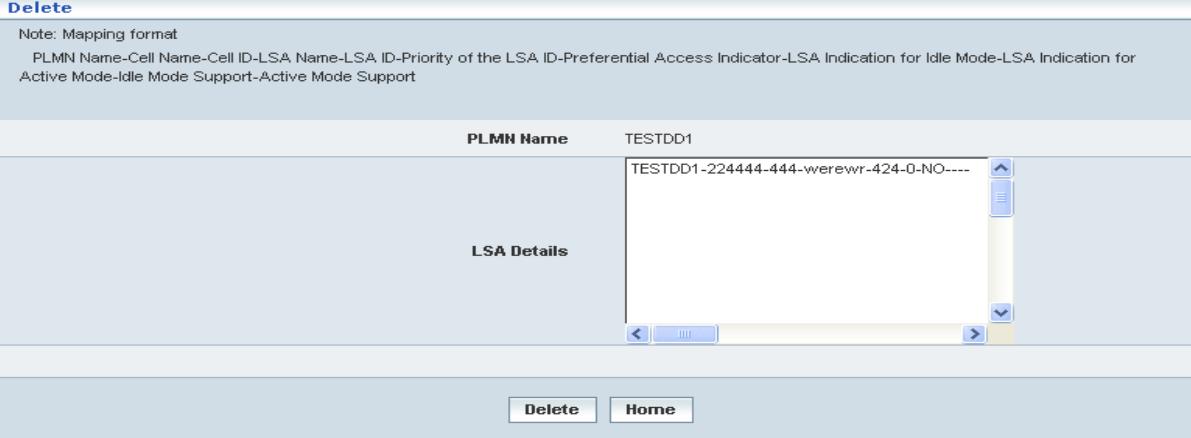
India-CellIndia-222222222222-IndiLSA2-2-4-NO--YES--
India-CellIndia-222222222222-IndiLSA3-3-10-YES--NO--
India-CellIndia-222222222222-IndiLSA1-1-6-YES--YES--
India-CellIndia-222222222222-IndiLSA4-4-13-NO--NO--
India-CellIndia-222222222222-sasas-321-0-NO----
India-CellIndia-222222222222-IndiLSA5-5-0-NO--NO--
India-CellIndia-222222222222-IndiLSA7-7-4-YES-YES-NO--
India-CellIndia-222222222222-IndiLSA6-6-1-YES-YES-YES-

STEP	ACTION
1.	User can make necessary changes related to PLMN Specific LSA ('LSA Name', 'LSA ID', 'Priority of the LSA ID', 'Preferential Access Indicator', 'LSA Indication for Idle Mode', 'LSA Indication for Active Mode', 'Idle Mode Support', 'Active Mode Support' and then selecting at least one cell name – cell id from 'Cell Name – Cell ID' filed and finally mapping at least one LSA Configuration to PLMN
2.	On clicking the Submit button, the changes made will be updated accordingly in the database. A message window will be displayed to that effect NOTE: If LSA ID is assigned to LSA_PROFILE_ID, the same cannot be modified  On clicking the Home button of the message window, it redirects the user to the 'Manage' Screen
3.	On clicking the Home button at the bottom of the 'Modify' Screen (before submission), it redirects to the 'Modify' Screen

Delete

On clicking the '**Delete**' link of a chosen 'PLMN Specific LSA' (from the PLMN Specific LSA List); corresponding information related to the PLMN Specific LSA will be displayed in a separate screen enabling the user to delete details of the same.

The screen below shows deleting an existing PLMN Specific LSA

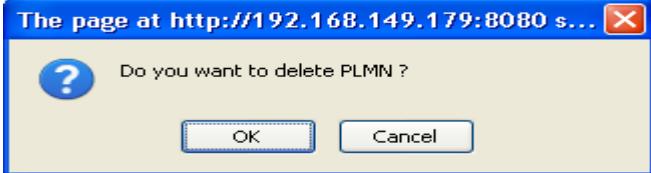


Delete

Note: Mapping format
PLMN Name-Cell Name-Cell ID-LSA Name-LSA ID-Priority of the LSA ID-Preferential Access Indicator-LSA Indication for Idle Mode-LSA Indication for Active Mode-Idle Mode Support-Active Mode Support

PLMN Name	TESTDD1
LSA Details	TESTDD1-224444-444-werewr-424-0-NO----

Delete **Home**

STEP	ACTION
1.	<p>On clicking the Delete button, an alert message window will be displayed enabling the user to confirm deletion of the chosen PLMN Specific LSAs</p> 
2.	<p>On clicking the OK button of the alert message window, the chosen PLMN Specific LSAs details will be deleted and a message window will be displayed to that effect. It will be disappeared from the 'PLMN Specific LSAs' grid.</p>  <p>On clicking the Home button of the message window, it directs the user to 'Manage' Screen</p> <p>On clicking the Cancel button of the alert message window, it retains the grid without deleting the 'PLMN Specific LSAs' record</p>
3.	<p>On clicking the Home button at the bottom of the 'Delete' screen (before submission), it redirects to the 'Manage' Screen</p>

Searching for a specific PLMN Specific LSAs (Record)



STEP	ACTION
1.	<p>Select a search criterion ('PLMN Name') from the drop-down list of the search criteria of the <Search> field</p> <p>* By default the list of search criterion ('PLMN Name') will be dynamically displayed as drop-down list of the <Search> field</p>
2.	Enter the 'PLMN Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding PLMN Specific Cell IDs (record) will be highlighted among the list of PLMN Specific Cell IDs records.

The screen below depicts fetching and displaying the give PLMN Specific Cell IDs record.

Manage				
Search		Select Column	Go	View Per Page
				1 2
PLMN Name	Action			
65	View		Modify	Delete
TESTRRRRR	View		Modify	Delete
India	View		Modify	Delete
Nepal	View		Modify	Delete
ABCD	View		Modify	Delete
XYZ	View		Modify	Delete
TEST3	View		Modify	Delete
Pakistan	View		Modify	Delete
TEST4	View		Modify	Delete
MOBILY1	View		Modify	Delete
				1 2
				Print
Home				

7.11 PLMN Specific LAIs

[Home Location Register → PLMN Specific LAIs](#)

This section enables users to perform the following tasks of the PLMN Specific LAIs (GSM (Location Area Identity. Composed of MCC+MNC+LAC)

This module helps the user performing the following actions:

- ◆ Create
- ◆ View
- ◆ Modify
- ◆ Delete
- ◆ Search

[Create](#)

[Home Location Register → PLMN Specific LAIs → Create](#)

Create enables the user to create PLMN Specific LAIs.

The screen below shows creating a new PLMN Specific LAIs

The screenshot shows the 'Create' screen for PLMN Specific LAIs. At the top, there is a dropdown menu labeled 'PLMN Name' with 'TEST' selected. Below this is a table with a single row. The first column is 'LAI' and the second column contains the value '45454555'. To the right of the table is a mapping interface. It has a header 'TEST' and a list box containing 'TEST-45454555'. There are navigation buttons 'Submit' and 'Home' at the bottom.

STEP	ACTION
1.	User must enter the details of the PLMN Specific LAIs details where it is a mandatory information Indicates Mandatory
2.	Select PLMN Name from <PLMN Name> drop-down list. NOTE: <PLMN Name> related LAI gets displayed in the <LAI> field
3.	On clicking button allows the user to map LAIs configuration to the selected PLMN and it moves to the adjacent field. On clicking the user can perform un-mapping LAIs configuration and vice versa.
4.	On clicking the Submit button, the new PLMN Specific LAIs will be created successfully. A message window will be displayed to that effect
5.	On clicking the Home button of the message window, it redirects the user to the 'Create' Screen

Manage

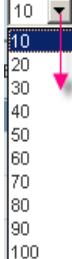
Home Location Register → PLMN Specific LAIs → Manage

Manage enables the users to perform view, search, modify, print and delete PLMN Specific LAIs.

The screen below shows the 'Manage' Screen

Manage				
PLMN Name	Action			
SAUDI1	View		Modify	
TEST3	View		Modify	
SAUDI1	View		Modify	
TEST	View		Modify	
ABC	View		Modify	
TESTDD1	View		Modify	
TESTDEMOT	View		Modify	
India	View		Modify	
MOBILY1	View		Modify	
Nepal	View		Modify	

1 2

STEP	ACTION
1.	By default, the list of LAIs will be displayed as records in a grid. The columns include 'PLMN Name' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the View link, 'View' screen will be displayed enabling the user to view the details of chosen 'PLMN Specific LAI'
4.	On clicking the Modify link, 'Modify' screen will be displayed enabling the user to update / change corresponding values (as required) of a chosen 'PLMN Specific LAI'
5.	On clicking the Delete link, of a chosen 'LSA Specific LAI', it enables the user to delete the same
6.	On clicking the Print button at the bottom of the grid, user can take printouts of the PLMN Specific LAI(s) list
7.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'HLR' main page

View

On clicking the '**View**' link of a chosen 'PLMN Specific LAI' (from the PLMN Specific LAIs List); corresponding information related to the PLMN Specific LAI will be displayed in a separate screen enabling the user to peruse details of the same.

The screen below shows the view of a chosen PLMN Specific LAI.

The screenshot shows a 'View' screen for a chosen PLMN Specific LAI. At the top, it displays 'PLMN Name' as 'Nepal'. Below this, there is a list titled 'LAIs' containing two entries: '333333' and '3434234'. The interface includes scroll bars and navigation buttons (left, right, up, down) on the right side of the list area. At the bottom of the screen is a 'Home' button.

STEP	ACTION
1.	'PLMN Name' and 'LAIs' details are viewed in their respective fields
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'Manage' Screen

Modify

On clicking the '**Modify**' link of a chosen 'PLMN Specific LAI' (from the PLMN Specific LAIs List); corresponding information related to the PLMN Specific LAI will be displayed in a separate screen enabling the user to modify details of the same.

The screen below shows modifying / updating an existing PLMN Specific LAI

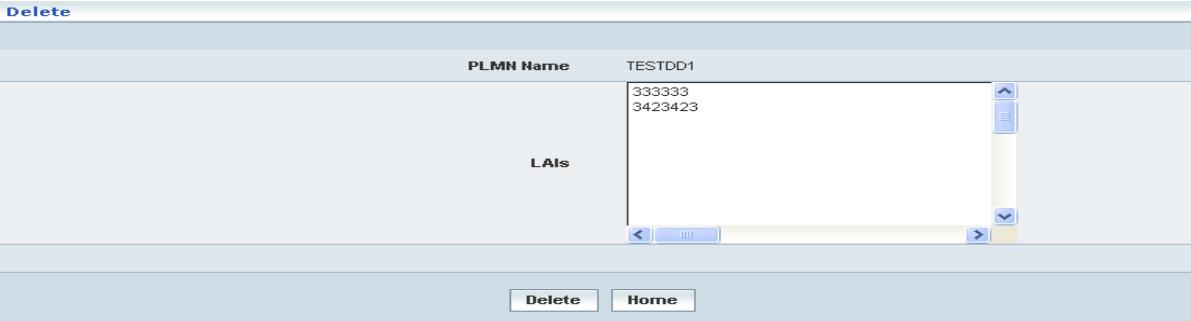
The screenshot shows a 'Modify' screen for a chosen PLMN Specific LAI. It features a form with fields for 'PLMN Name' (set to 'Nepal') and 'LAI'. The 'LAI' field is highlighted with a red border, indicating it is a mandatory field. To the right of the 'LAI' field is a text input box containing the values '333333' and '3434234'. The interface includes scroll bars and navigation buttons (left, right, up, down) on the right side of the list area. At the bottom of the screen are 'Submit' and 'Home' buttons. A small note above the 'Submit' button states 'Indicates Mandatory' with a red vertical bar icon.

STEP	ACTION
1.	User can make necessary changes related to PLMN Specific LAI ('LAI') and map LAIs Configuration to PLMN
2.	On clicking the Submit button, the changes made will be updated accordingly in the database. A message window will be displayed to that effect NOTE: If LAI PLMN ID is assigned to Zone Codes, the same cannot be modified  <p>On clicking the Home button of the message window, it redirects the user to the 'Manage' Screen</p>
3.	On clicking the Home button at the bottom of the 'Modify' Screen (before submission), it redirects to the 'Modify' Screen

Delete

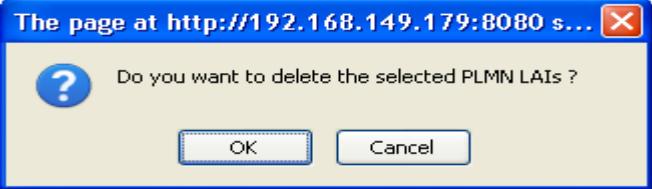
On clicking the '**Delete**' link of a chosen 'PLMN Specific LAI' (from the PLMN Specific LAIs List); corresponding information related to the PLMN Specific LAI will be displayed in a separate screen enabling the user to delete details of the same.

The screen below shows deleting an existing PLMN Specific LAI



PLMN Name	LAI
TESTDD1	333333 3423423

Delete **Home**

STEP	ACTION
1.	<p>On clicking the Delete button, an alert message window will be displayed enabling the user to confirm deletion of the chosen PLMN Specific LAIs</p> 
2.	<p>On clicking the OK button of the alert message window, the chosen PLMN Specific LAIs details will be deleted and a message window will be displayed to that effect. It will be disappeared from the 'PLMN Specific LAIs' grid.</p>  <p>On clicking the Home button of the message window, it directs the user to 'Manage' Screen</p> <p>On clicking the Cancel button of the alert message window, it retains the grid without deleting the 'PLMN Specific LAIs' record</p>
3.	<p>On clicking the Home button at the bottom of the 'Delete' screen (before submission), it redirects to the 'Manage' Screen</p>

Searching for a specific PLMN Specific LAIs (Record)



STEP	ACTION
1.	<p>Select a search criterion ('PLMN Name') from the drop-down list of the search criteria of the <Search> field</p> <p>* By default the list of search criterion ('PLMN Name') will be dynamically displayed as drop-down list of the <Search> field</p>
2.	Enter the 'PLMN Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding PLMN Specific LAIs (record) will be highlighted among the list of PLMN Specific LAIs records.

Manage				
Search	Select Column	Go	View Per Page	10
PLMN Name		Action		
SAUDI		View	Modify	Delete
TEST3		View	Modify	Delete
SAUDI		View	Modify	Delete
TEST		View	Modify	Delete
TEST4		View	Modify	Delete
ABC		View	Modify	Delete
TESTDEMOT		View	Modify	Delete
India		View	Modify	Delete
MOBILY1		View	Modify	Delete
Nepal		View	Modify	Delete

1 2

7.12 PLMN Specific RSZI

[Home Location Register → PLMN Specific RSZI](#)

This section enables users to perform the following tasks of the PLMN Specific RSZI (Regional Subscription Zone Identity).

This module helps the user performing the following actions:

- ◆ Create
- ◆ View
- ◆ Modify
- ◆ Delete
- ◆ Search

[Create](#)

[Home Location Register → PLMN Specific RSZI → Create](#)

Create enables the user to create PLMN Specific RSZI.

The screen below shows creating a new PLMN Specific RSZI

The screenshot shows a 'Create' interface for PLMN Specific RSZI. At the top, there's a note about mapping format: 'Note: Mapping format PLMN Name-LAI-Zone Name-Zone Code'. It also indicates that if the selected PLMN Name has LAIs, it's mandatory to map with Zone Code. The main area contains a table with columns for LAI, Zone Name, and Zone Code. The LAI column shows '76767'. The Zone Name column shows 'testzone' with a red asterisk indicating it's mandatory. The Zone Code column shows '123'. To the right of the table, the PLMN Name 'SAUDI' is selected from a dropdown, and the full mapping 'SAUDI-76767-testzone-123' is displayed in a preview pane. At the bottom, there are 'Submit' and 'Home' buttons.

STEP	ACTION
1.	User must enter the details of the PLMN Specific RSZI details where it is a mandatory information Indicates Mandatory
2.	Select PLMN Name from <PLMN Name> drop-down list. NOTE: <PLMN Name> related LAI gets displayed in the <LAI> list box
3.	Enter Zone Name in <Zone Name> field
4.	Enter Zone Code in <Zone Code> field. NOTE: Zone Code should be only numeric value.

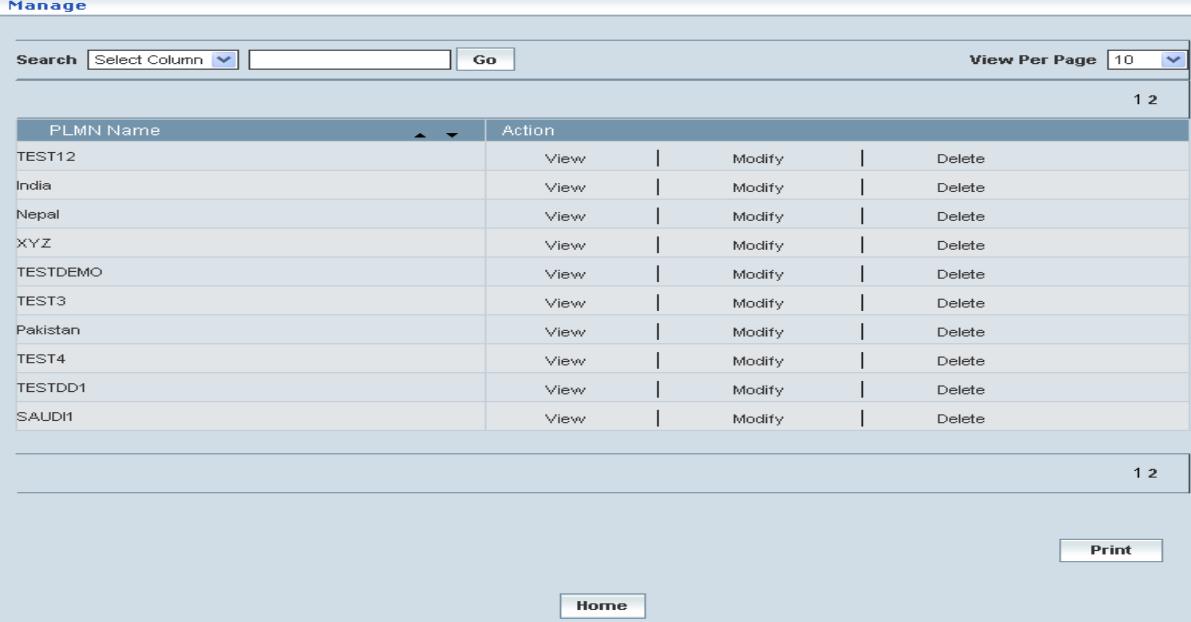
5.	<p>On clicking  button allows the user to map at least one RSZI Zone Code configuration to the selected PLMN and it moves to the adjacent field. On clicking  the user can perform un-mapping at least one RSZI Zone Code configuration and vice versa.</p>
6.	<p>On clicking the Submit button, the new PLMN Specific RSZI will be created successfully. A message window will be displayed to that effect</p> <div style="background-color: #e0f2f1; padding: 10px; border: 1px solid #d9e1f2; margin-bottom: 10px;"> <p style="margin: 0;">Create</p> <p style="margin: 0;">PLMN Specific RSZI created successfully.</p> <p style="text-align: right; margin-top: -10px;">Home</p> </div> <p>On clicking the Home button of the message window, it redirects the user to the 'Create' Screen</p>
7.	<p>On clicking the Home button at the bottom of the 'Create' Screen (before creating a new PLMN Specific RSZI), it redirects the user to the 'PLMN Specific RSZI' Screen</p>

Manage

Home Location Register → PLMN Specific RSZI → Manage

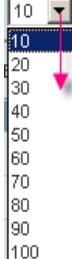
Manage enables the users to perform view, search, modify, print and delete PLMN Specific RSZI.

The screen below shows the 'Manage' Screen



Manage						
Search <input style="border: none; width: 100px; height: 20px; vertical-align: middle;" type="button" value="Select Column"/> <input style="width: 150px; height: 20px; vertical-align: middle;" type="text"/> <input style="border: none; width: 50px; height: 20px; vertical-align: middle;" type="button" value="Go"/>		View Per Page <input style="border: none; width: 50px; height: 20px; vertical-align: middle;" type="button" value="10"/>				
PLMN Name		Action				
TEST12		View		Modify		Delete
India		View		Modify		Delete
Nepal		View		Modify		Delete
XYZ		View		Modify		Delete
TESTDEMO		View		Modify		Delete
TEST3		View		Modify		Delete
Pakistan		View		Modify		Delete
TEST4		View		Modify		Delete
TESTDD1		View		Modify		Delete
SAUDI		View		Modify		Delete

1 2
Print

STEP	ACTION
1.	By default, the list of RSZIs will be displayed as records in a grid. The columns include 'PLMN Name' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the View link, 'View' screen will be displayed enabling the user to view the details of chosen 'PLMN Specific RSZI'
4.	On clicking the Modify link, 'Modify' screen will be displayed enabling the user to update / change corresponding values (as required) of a chosen 'PLMN Specific RSZI'
5.	On clicking the Delete link, of a chosen 'PLMN Specific RSZI', it enables the user to delete the same
6.	On clicking the Print button at the bottom of the grid, user can take printouts of the PLMN Specific RSZI(s) list
7.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'HLR' main page

View

On clicking the '**View**' link of a chosen 'PLMN Specific RSZI' (from the PLMN Specific RSZIs List); corresponding information related to the PLMN Specific RSZIs will be displayed in a separate screen enabling the user to peruse details of the same.

The screen below shows the view of a chosen PLMN Specific RSZIs.

The screenshot shows a 'View' screen for a selected PLMN Specific RSZI. At the top left is a 'View' button. Below it is a note: 'Note: Mapping format LAI-Zone Name-Zone Code'. The main area has a header 'PLMN Name' with the value 'SAUDI1'. To the right is a large text input field containing '76767-testzone-123'. Below this field is a section titled 'Zone Code Details'. At the bottom right of the screen is a 'Home' button.

STEP	ACTION
1.	'PLMN Name' and 'Zone Code Details' will be dynamically displayed in their respective fields
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'Manage' Screen

Modify

On clicking the '**Modify**' link of a chosen 'PLMN Specific RSZIs' (from the PLMN Specific RSZIs List); corresponding information related to the PLMN Specific RSZIs will be displayed in a separate screen enabling the user to modify details of the same.

The screen below shows modifying / updating an existing PLMN Specific RSZIs

The screenshot shows a 'Modify' screen for a selected PLMN Specific RSZI. At the top left is a 'Modify' button. To the right is a note: 'Note: Mapping format LAI-Zone Name-Zone Code' and a note: 'If the selected PLMN Name has LAIs then it is mandatory to map vwith Zone Code'. A red vertical bar indicates that 'Zone Name' and 'Zone Code' fields are mandatory. The main area has a header 'PLMN Name' with the value 'SAUDI1'. To the left is a dropdown menu labeled 'LAI' with the value '76767'. Below this are two input fields: 'Zone Name' with the value 'test5555' and 'Zone Code' with the value '45'. To the right is a large text input field containing '76767-testzone-123'. At the bottom are 'Submit' and 'Home' buttons.

STEP	ACTION
1.	User can make necessary changes related to PLMN Specific RSZIs ('LAI', 'Zone Name', 'Zone Code' and finally mapping at least one RSZI Configuration to PLMN)
2.	On clicking the Submit button, the changes made will be updated accordingly in the database. A message window will be displayed to that effect NOTE: If LAI PLMN ID is assigned to RSZI Profile, the same cannot be modified  On clicking the Home button of the message window, it redirects the user to the 'Manage' Screen
3.	On clicking the Home button at the bottom of the 'Modify' Screen (before submission), it redirects to the 'Modify' Screen

Delete

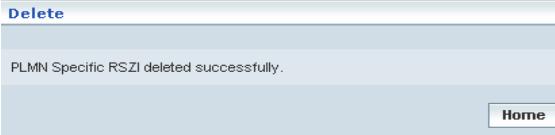
On clicking the '**Delete**' link of a chosen 'PLMN Specific RSZI' (from the PLMN Specific RSZIs List); corresponding information related to the PLMN Specific RSZIs will be displayed in a separate screen enabling the user to delete details of the same.

The screen below shows deleting an existing PLMN Specific RSZIs



PLMN Name	SAUDI1
Zone Code Details	76767-testzone-123

Delete **Home**

STEP P	ACTION
1.	<p>On clicking the Delete button, an alert message window will be displayed enabling the user to confirm deletion of the chosen PLMN Specific RSZIs</p> 
2.	<p>On clicking the OK button of the alert message window, the chosen PLMN Specific RSZI details will be deleted and a message window will be displayed to that effect. It will be disappeared from the 'PLMN Specific RSZI' grid.</p>  <p>On clicking the Home button of the message window, it directs the user to 'Manage' Screen</p> <p>On clicking the Cancel button of the alert message window, it retains the grid without deleting the 'PLMN Specific RSZI' record</p>
3.	<p>On clicking the Home button at the bottom of the 'Delete' screen (before submission), it redirects to the 'Manage' Screen</p>

Searching for a specific PLMN Specific RSZIs (Record)



STEP	ACTION
1.	<p>Select a search criterion ('PLMN Name') from the drop-down list of the search criteria of the <Search> field</p> <p>* By default the list of search criterion ('PLMN Name') will be dynamically displayed as drop-down list of the <Search> field</p>
2.	Enter the 'PLMN Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding PLMN Specific RSZIs (record) will be highlighted among the list of PLMN Specific RSZIs records.

The screen below depicts fetching and displaying the give PLMN Specific RSZIs record.

Manage					
Search	Select Column	Go	View Per Page 10		
PLMN Name	Action				
TEST12	View		Modify		Delete
India	View		Modify		Delete
Nepal	View		Modify		Delete
XYZ	View		Modify		Delete
TESTDEMO	View		Modify		Delete
TEST3	View		Modify		Delete
Pakistan	View		Modify		Delete
TEST4	View		Modify		Delete
TESTDD1	View		Modify		Delete
MOBILY1	View		Modify		Delete

8 Notifications

This chapter describes registering the information related to Roaming Partners and the Clients (external entities).

Roaming Partner refers to a network that has roaming alliance with the home network and the corresponding details are registered into HLR database.

Client refers to an external entity that would be privileged to receive notifications accordingly as and when the home network subscribers registering with other roaming networks while in roaming.

However, only those clients whose details are registered into HLR database are reckoned for receiving such notifications.

[Home Location Register → Notifications](#)

Notifications helps registering and managing the information related to Roaming Partners and Clients with the help of the following modules respectively:

- Roaming Partners
- Notification Clients

8.1 Roaming Partners

[Home Location Register → Notifications → Roaming Partners](#)

This allows the user to create / register details related to a network that has roaming alliance with home network and further would be reckoned as Roaming Partner. A roaming partner would be typically identified with the attributes like CC, NDC, MNC, and MCC.

User can perform the following actions:

- Create a Roaming Partner
- View details related to a Roaming Partner
- Modify details related to a Roaming Partner
- Delete a Roaming Partner
- Search for a Roaming Partner

Initially, the list of existing Roaming Partner Networks is displayed as records in a grid.

The screen below shows the list of Roaming Partner Networks as records in a grid.

Roaming Partners

Search		Select Column	Go	View Per Page																																																																									
				10	▼																																																																								
<table border="1"> <thead> <tr> <th colspan="2">Create</th> <th colspan="4">1 2</th> </tr> <tr> <th>Network Name</th> <th>CC</th> <th>MCC</th> <th>Action</th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>India</td><td>91</td><td>121</td><td>View</td><td>Modify</td><td>Delete</td></tr> <tr><td>demo</td><td>32</td><td>121</td><td>View</td><td>Modify</td><td>Delete</td></tr> <tr><td>demo211</td><td>46</td><td>222</td><td>View</td><td>Modify</td><td>Delete</td></tr> <tr><td>demot</td><td>39</td><td>322</td><td>View</td><td>Modify</td><td>Delete</td></tr> <tr><td>frr</td><td>31</td><td>121</td><td>View</td><td>Modify</td><td>Delete</td></tr> <tr><td>m1</td><td>45</td><td>989</td><td>View</td><td>Modify</td><td>Delete</td></tr> <tr><td>name11</td><td>47</td><td>222</td><td>View</td><td>Modify</td><td>Delete</td></tr> <tr><td>t1</td><td>31</td><td>786</td><td>View</td><td>Modify</td><td>Delete</td></tr> <tr><td>test</td><td>7</td><td>333</td><td>View</td><td>Modify</td><td>Delete</td></tr> <tr><td>test1</td><td>7</td><td>111</td><td>View</td><td>Modify</td><td>Delete</td></tr> </tbody> </table>						Create		1 2				Network Name	CC	MCC	Action			India	91	121	View	Modify	Delete	demo	32	121	View	Modify	Delete	demo211	46	222	View	Modify	Delete	demot	39	322	View	Modify	Delete	frr	31	121	View	Modify	Delete	m1	45	989	View	Modify	Delete	name11	47	222	View	Modify	Delete	t1	31	786	View	Modify	Delete	test	7	333	View	Modify	Delete	test1	7	111	View	Modify	Delete
Create		1 2																																																																											
Network Name	CC	MCC	Action																																																																										
India	91	121	View	Modify	Delete																																																																								
demo	32	121	View	Modify	Delete																																																																								
demo211	46	222	View	Modify	Delete																																																																								
demot	39	322	View	Modify	Delete																																																																								
frr	31	121	View	Modify	Delete																																																																								
m1	45	989	View	Modify	Delete																																																																								
name11	47	222	View	Modify	Delete																																																																								
t1	31	786	View	Modify	Delete																																																																								
test	7	333	View	Modify	Delete																																																																								
test1	7	111	View	Modify	Delete																																																																								
Create		1 2																																																																											
Home																																																																													

STEP	ACTION	
1.	By default, the list of networks (roaming partners) is displayed as records in a grid. The columns include 'Network Name', 'CC', 'MCC', and 'Action'	
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>	
3.	CC indicates the country code for which the network has been created	

4.	Mobile Country Code (MCC) indicates the country code for which the network has been created
5.	On clicking the Create button, the 'Create' screen is displayed enabling the user to create a new 'network' (roaming partner)
6.	On clicking the View link of a chosen 'Network', corresponding information related to the network is displayed in a separate screen enabling the user to peruse details of the network
7.	On clicking the Modify link of a chosen 'Network', corresponding information related to the network can be modified including CC, MCC, NDC, and MNC. User cannot modify the network name
8.	On clicking the Delete link of a chosen 'Network', corresponding network can be deleted
9.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'HLR' Home page

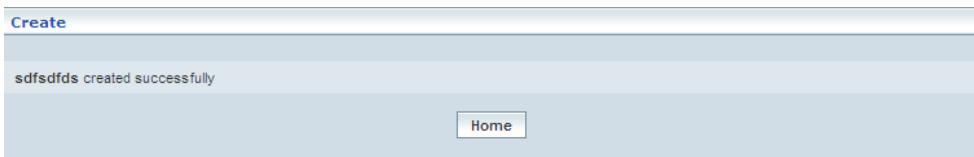
Create

Home Location Register → Notifications → Roaming Partners → Create

Create enables the user to create a new network.

The screen below shows creating a new Roaming Partner network.

Create	
Indicates Mandatory	
Network Name	<input type="text"/>
Country Name-Country Code	<input type="button" value="Select"/>
MCC	<input type="text"/>
NDC	<input type="text"/> <input type="button" value="▶"/> <input type="button" value="◀"/>
MNC	<input type="text"/> <input type="button" value="▶"/> <input type="button" value="◀"/>
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the network in <Network Name> field. The name can contain the numbers, characters, and space. It Cannot contain the special characters other than Hyphen and Underscore
3.	Select the country name and code in the <Country Name-Country Code> field
4.	Enter the Mobile Country Code (MCC). The length of the MCC must be 3 digits. The MCC should not start with zero
5.	Enter Network Destination Code (NDC). The NDC can be from 1 to 4 digits. On clicking the right-arrow button, the NDC will be moved to the adjacent field. User can enter the desired number of NDCs in a similar fashion.
6.	Enter the Mobile Network Code (MNC). The MNC can be from 2 to 3 digits. On clicking the right-arrow button, the MNC will be moved to the adjacent field. User can enter the desired number of MNCs in a similar fashion. * However if the user wants to just remove any MNC (any time before creating the network), selecting the MNC from the right text field and subsequently clicking the left-arrow button removes the MNC. Duplicates MNCs are not accepted. The MNC should not start with zero. The MNC cannot be duplicated for the same CC
7.	On clicking the Submit button, new network will be created and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the 'Roaming Partners' grid

[View](#)

[Home Location Register](#) → [Notifications](#) → [Roaming Partners](#) → [View](#)

View enables the user to peruse details related to chosen network.

On clicking the '**View**' link of a chosen 'Network', corresponding information related to the network will be displayed in a separate screen enabling the user to peruse details of the network (Roaming partner).

The screen below displays the details related to chosen network (roaming partner).

The screenshot shows a 'View' screen with the following details:

Network Name		Test
CC	7	
MCC	366	
NDC	MNC	
369	365	
365	369	

Home

STEP	ACTION
1.	User can peruse details related to the chosen network
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'Roaming Partners' grid

Modify

Home Location Register → Notifications → Roaming Partners → Modify

Modify enables the user to modify / update the details related to an existing network (roaming partner).

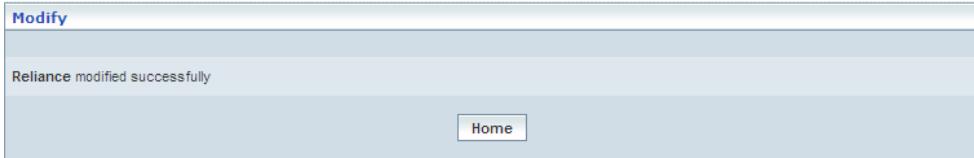
On clicking the '**Modify**' link of a chosen 'Network', corresponding information related to the network will be displayed in a separate screen enabling the user to modify / update details of the network – roaming partner.

The screen below shows modifying / updating the details related to a chosen network (roaming partner).

The screenshot shows a 'Modify' screen with the following fields:

Network Name		56
Country Name-Country Code	UZBEKISTAN-998	Indicates Mandatory
MCC	233	
NDC	[Input Field]	[Input Field] 2222-222
MNC	[Input Field]	[Input Field]

Modify **Home**

STEP	ACTION
1.	Name of the network (roaming partner) is dynamically displayed in the <Network Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the network (roaming partner)
3.	On clicking the Modify button at the bottom of the 'Modify' screen, network details will be updated accordingly and a message window to that effect will be displayed  <p>On clicking the Home button of the message window, it directs the user back to the 'Roaming Partners' grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to network), it directs the user to the 'Roaming Partners' grid

Delete

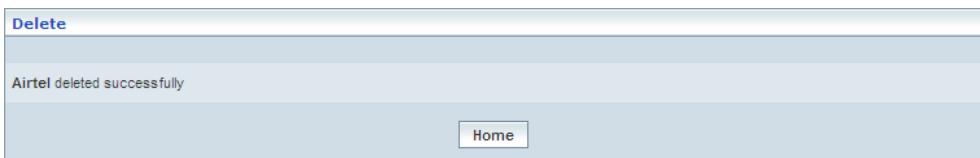
Home Location Register → Notifications → Roaming Partners → Delete

Delete enables the user to delete existing networks (Roaming Partners).

On clicking the '**Delete**' link of a chosen 'Network', corresponding information related to the network will be displayed in a separate screen enabling the user to delete the network.

The screen below shows the details related to an existing network, which enables the user to delete the same (Network) – Roaming Partner.

Delete	
Network Name	sudha_2060
CC	91
MCC	111
NDC	MNC
9820	234
2343	112
<input type="button" value="Delete"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	User can peruse the existing values / configurations of the network before deleting the network
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen network</p>  <p>On clicking the OK button of the alert window, the network will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Roaming Partners' grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the network), it directs the user to the 'Roaming Partners' grid

Searching for a specific Roaming Partner (Record)



STEP	ACTION
1.	<p>Select a search criterion ('Network Name') from the drop-down list of the search criteria of the <Search> field</p> <p>* By default the list of search criterion ('Network Name') will be dynamically displayed as drop-down list of the <Search> field</p>
2.	Enter the 'Network Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Roaming Partner (record) will be highlighted among the list of Roaming Partner records.

The screen below depicts fetching and displaying the give Roaming Partner record.

Roaming Partners				
Search		Select Column	Go	View Per Page 10
Create		1 2		
Network Name	CC	MCC	Action	
India	91	121	View Modify Delete	
demo	32	121	View Modify Delete	
demo211	46	222	View Modify Delete	
demot	39	322	View Modify Delete	
frfr	31	121	View Modify Delete	
n1	45	989	View Modify Delete	
name11	47	222	View Modify Delete	
t1	31	786	View Modify Delete	
test	7	333	View Modify Delete	
test1	7	111	View Modify Delete	

8.2 Notification Clients

Home Location Register → Notifications → Notification Clients

This allows the user to create / register a client (an external entity) with home network (into HLR database). This entities or authorizes the client to receive notification in the event of a home subscriber registering with a roaming network (roaming partner) while in roaming.

User can perform the following actions:

- Create a Client
- View details related to a Client
- Modify details related to a Client
- Delete a Client
- Search for a Client

Initially, the list of existing Client is displayed as records in a grid.

The screen below shows the list of clients as records in a grid.

Notification Clients							
Search		Select Column	Go	View Per Page 10			
Create		12					
Client Name		User Id	Action				
t1		1772	View	Modify	Delete		
t2		1765	View	Modify	Delete		
t3		234	View	Modify	Delete		
t4		54	View	Modify	Delete		
t5		7565	View	Modify	Delete		
t6		6756	View	Modify	Delete		
t7		7676	View	Modify	Delete		
t8		4343	View	Modify	Delete		
t9		767633	View	Modify	Delete		
t10		90909	View	Modify	Delete		

[Create](#) [Home](#) [12](#)

STEP	ACTION
1.	By default, the list of clients (client names) will be displayed as records in a grid. The columns include 'Client Name', 'User ID', and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	User can search for the record by using the Client name or User ID
4.	Client Name indicates name of the client
5.	Client ID indicates the identification of the client. Each client can have only one user ID
6.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'client'
7.	On clicking the View link of a chosen 'Client', corresponding information related to the client will be displayed in a separate screen enabling the user to peruse details of the client
8.	On clicking the Modify link of a chosen 'Client', corresponding information related to the client can be modified including user id, password, and events. User cannot modify the client name
9.	On clicking the Delete link of a chosen 'Client', corresponding client will be deleted
10.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'HLR' Home page

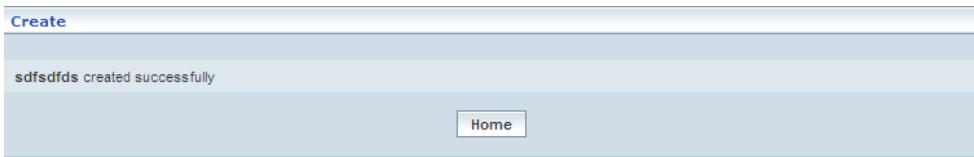
Create

Home Location Register → Notifications → Notification Clients → Create

Create enables the user to create a new client.

The screen below shows creating a new client.

Create	
Indicates Mandatory	
Client Name	<input type="text" value="SAMSER"/>
User Id	<input type="text" value="as695"/>
Password	<input type="password" value="*****"/>
Confirm Password	<input type="password" value="*****"/>
Events	<input checked="" type="checkbox"/> Update Location Notification
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	User must essentially enter the details related to a new client where it is a mandatory information  Indicates Mandatory
2.	Enter name of the client in <Client Name> field. The name can contain numbers, characters, and space. It cannot contain the special characters other than Hyphen and Underscore.
3.	Enter the User ID. The User ID can contain the numbers, characters but not the special characters the space the space is also not allowed.
4.	Enter the password. The length of the password must be greater than or equal to 4
5.	Re-enter the password. The given password and the re-entered password must be same
6.	Checking the <Events> check box entitles the registered client to receive notifications
7.	On clicking the Submit button, new client will be created and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the Notification Clients grid
8.	On clicking the Home button of the 'Create' screen, it directs the user back to the Notification Clients grid

View

Home Location Register → Notifications → Notification Clients → View

View enables the user to peruse details related to chosen client.

On clicking the '**View**' link of a chosen 'Client', corresponding information related to the client will be displayed in a separate screen enabling the user to peruse details of the client.

The screen below displays the details related to chosen client.

View	
Client Name	SAMSER
User Id	as695
Events	<input type="button" value="Update Location Notification"/>
<input type="button" value="Home"/>	

STEP	ACTION
1.	User can peruse details related to the chosen client
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'Notification Clients' grid

Modify

[Home Location Register](#) → [Notifications](#) → [Notification Clients](#) → [Modify](#)

Modify enables the user to modify / update the details related to an existing clients.

On clicking the '**Modify**' link of a chosen 'Clients', corresponding information related to the client will be displayed in a separate screen enabling the user to modify / update details of the client.

The screen below shows modifying / updating the details related to the chosen client.

The screenshot shows a 'Modify' screen for a client named SAMSER. The fields are as follows:

- Client Name:** SAMSER
- User Id:** as695
- Password:** (empty field)
- Confirm Password:** (empty field)
- Events:** Update Location Notification

At the bottom are two buttons: **Modify** and **Home**.

STEP	ACTION
1.	Name of the client will be dynamically displayed in the <Client Name> field and this cannot be modified
2.	User can make necessary changes / updates to the user ID / password
3.	On clicking the Modify button at the bottom of the 'Modify' screen, clients details will be updated accordingly and a message window to that effect will be displayed <p>The message window displays the message "SAMSER modified successfully" and has a single button labeled "Home".</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Notification Clients' grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to client), it directs the user to the 'Notification Clients' grid

Delete

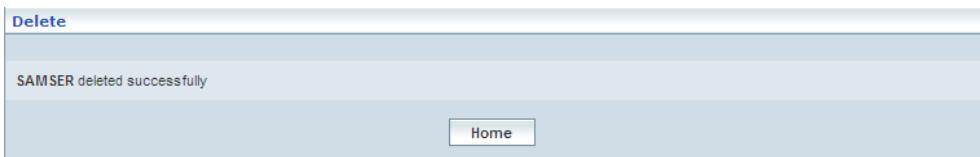
[Home Location Register](#) → [Notifications](#) → [Notification Clients](#) → [Delete](#)

Delete enables the user to delete existing clients.

On clicking the '**Delete**' link of a chosen 'Client', corresponding information related to the client will be displayed in a separate screen enabling the user to delete the client.

The screen below shows the details related to an existing client, which enables the user to delete the same (Client).

Delete	
Client Name	SAMSER
User Id	as695
Events	Update Location Notification
<input type="button" value="Delete"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	User can peruse the details of the client before deleting the client
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen client</p>  <p>On clicking the OK button of the alert window, the client will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Notification Clients' grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the client), it directs the user to the Notification Clients grid

Searching for a specific Notification Clients (Record)

Search	<input type="button" value="Select Column"/> <input type="text"/>	<input type="button" value="Go"/>	
	<input type="button" value="Select Column"/> <input type="text"/>		
	<input type="checkbox"/> Client Name <input type="checkbox"/> User Id		

STEP	ACTION
1.	Select a search criterion ('Client Name' or 'User Id') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Client Name' or 'User Id') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Client Name' or 'User Id' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Notification Clients (record) will be highlighted among the list of Notification Clients records.

The screen below depicts fetching and displaying the give Notification Clients record.

Client Name	User Id	Action
t1	1772	View Modify Delete
t2	1765	View Modify Delete
t3	234	View Modify Delete
t4	54	View Modify Delete
t5	7565	View Modify Delete
t6	6756	View Modify Delete
t7	7676	View Modify Delete
t8	4343	View Modify Delete
t9	767633	View Modify Delete
t10	90909	View Modify Delete

9 GSM – CAMEL Subscriptions

[Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions](#)

Customized Application for the Mobile network Enhanced Logic (CAMEL) is an important standard for intelligent mobile communications networks. CAMEL enables mobile network operators to offer value-added services quickly and efficiently. This section deals with the CAMEL Subscriptions for GSM based subscriber data to be handled by HLR.

9.1 Originating CSI

Originating CSI enables the user to configure parameters related to CAMEL Subscription Information (CSI) in terms of mobile origination (MO) perspective. This helps creating various Originating CSI profiles, which in turn provide a wider flexibility in attributing the same to different customer subscription types.

The Originating CSI data defines the contents of the dialled service CAMEL subscription information that is used to inter-work with the GSMSCF for MO and CF calls.

Create / View

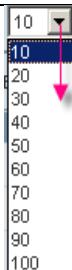
[Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Originating CSI → Create / View](#)

Initially, 'Originating CSI' displays a grid showing the list of existing Originating CSI Profiles that are configured and created. This list may include those profiles that are created and approved, created and rejected and also those created but still to be approved or rejected.

The screen below shows the list of various Originating CSI configurations in a grid.

Create / View			
Search		Select Column	Go
		View Per Page 10	
Create			1 2
Profile Name	Status	Action	
CSItest	CREATED	View	
CSItest111	CREATED	View	
demo	CREATED	View	
demo2	CREATED	View	
MobilyOCSI	APPROVED	View	
ocsi_Rajesh	APPROVED	View	
red	CREATED	View	
rr	CREATED	View	
test	CREATED	View	
test2	CREATED	View	

[Create](#)[Home](#)

STEP	ACTION
1.	By default, the list of profiles (Originating CSI) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (Originating CSI Profile)
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Originating CSI' main page

Create

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Originating CSI → Create / View

Create enables the user to create a new profile (Originating CSI Profile) and attribute various values/parameters to constitute the same.

However, a new profile creation shall be based on the chosen phase (Phase1/Phase2/ Phase3/Phase4). Only the corresponding attributes/parameters will be displayed in

accordance with the chosen phase for the proposed (new) **Originating CSI Profile** creation.

First Level Screen Action:

First level of the screen helps the user entering a name for the proposed (new) **Originating CSI Profile** and choosing a CAMEL Capability Handling attributes (Phase1, Phase2, Phase3 and Phase4) for the same.

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information ! <small>Indicates Mandatory</small>
2.	Enter name of the profile in <Profile Name> field
3.	Select a CAMEL Capability Handling phase (Phase1, Phase2, Phase3 and Phase4) to specify the CAMEL capability handling from the drop-down list of the <CAMEL Capability Handling> field * By default, the list of phases will be dynamically displayed as drop-down list of the <CAMEL Capability Handling> field

New (Phase1) Originating CSI Profile

STEP	ACTION
1.	With the effect of choosing CAMEL Capability Handling Phase1 , only the corresponding attributes will be dynamically displayed, enabling the user to create new (Phase1) profile as Originating CSI * <u>Only the 'Collected Info' block will be displayed for the phase1 profile</u>

The screen below shows creating a new profile as Originating CSI: the chosen CAMEL Capability Handling being the **PHASE1**.

Create ...>Phase 1 - CAMEL Capability Handling

On selecting Phase 1 'CAMEL Capability Handling', only 'Collected Info' block will be displayed

Profile Name | Casas Enter name of the new profile
CAMEL Capability Handling | Phase1 Select a phase to specify the phase type for 'CAMEL Capability Handling'

Collected Info

Default Call Handling | Release Call
SCF Name and Service Key | bondguage-4

Submit **Home**

STEP	ACTION
1.	<p>Collected Info Block:</p> <p>Select the 'Collected Info' check box, which in turn would enable the user to enter details related to 'Default Call Handling' and 'SCF Name and Service Key'</p>
	<p>Select a default call handling element (Continue Call or Release Call) to specify a default setting for the call handling, from the drop-down list of the <Default Call Handling> field</p> <p>* By default, the list of call handling elements (Continue Call / Release Call) will be dynamically displayed as drop-down list of the <Default Call Handling> field</p>
2.	<p>Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the Collected Information element, from the drop-down list of the <SCF Name and Service Key> field</p> <p>* By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field</p>
3.	<p>On clicking the Submit button, new (Phase1) profile (Originating CSI) will be created and a message window will be displayed to that effect</p> <p>Create</p> <p>CrossCSI Created successfully</p> <p>Home</p> <p>On clicking the Home button of the message window, it directs the user back to the Originating CSI profiles grid</p>
4.	On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the Originating CSI profiles grid

New (Phase2) Originating CSI Profile:

STEP	ACTION
1.	With the effect of choosing CAMEL Capability Handling Phase2 , only the corresponding attributes will be dynamically displayed, enabling the user to create new (Phase2) profile as Originating CSI * Only the 'Collected Info' & 'Basic Service Criteria' blocks will be displayed for the phase2 profile

The screen below shows creating a new profile as Originating CSI: the chosen phase being the CAMEL Capability Handling **PHASE2**.

Create

Profile Name | test2

CAMEL Capability Handling | Phase 2

Collected Info

Default Call Handling | Continue Call

SCF Name and Service Key | erefgfd-5

Basic Service Criteria

Tele Services

- SpeechTransmissionServices
- ShortMessageServices
- FacsimileTransmissionServices
- VoiceGroupCallServices

Bearer Services

<input checked="" type="checkbox"/> DataCDA-Services	<input type="checkbox"/> DataCDS-Services	<input type="checkbox"/> PadAccessCA-Services
<input checked="" type="checkbox"/> DataPDS-Services	<input type="checkbox"/> AlternateSpeech-DataCDA	<input type="checkbox"/> AlternateSpeech-DataCDS
<input type="checkbox"/> SpeechFollowedByDataCDA	<input type="checkbox"/> SpeechFollowedByDataCDS	

B21 DataCDA-300bps
 B22 DataCDA-1200bps
 B23 DataCDA-1200-75bps
 B24 DataCDA-2400bps
 B25 DataCDA-4800bps

DataCDA-Services
 ShortMessageServices
 FacsimileTransmissionServices
 VoiceGroupCallServices
 DataPDS-Services

Call Type Criteria | Forwarded

Submit | Home

STEP	ACTION
1.	<p>Collected Info Block:</p> <p>Select the 'Collected Info' check box, which in turn would enable the user to enter details related to 'Default Call Handling' and 'SCF Name and Service Key'</p>
2.	<p>Select a default call handling element (Continue Call or Release Call) to specify a default setting for the call handling, from the drop-down list of the <Default Call Handling> field</p> <p>* By default, the list of call handling elements (Continue Call / Release Call) will be dynamically displayed as drop-down list of the <Default Call Handling> field</p>
3.	<p>Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the Collected Information element, from the drop-down list of the <SCF Name and Service Key> field</p> <p>* By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field</p>
4.	<p>Basic Service Criteria Block:</p> <p>Basic services comprise Tele Services and Bearer Services</p> <p>NOTE: Only 5 (Five) services (from both Tele and Bearer services) can be mapped as Basic Services criteria</p>
	<p>Tele Services</p> <ul style="list-style-type: none"> Selected Teleservices (as a string) will be dynamically moved to the text field below, which is on to the right side of the screen
	<p>Bearer Services</p> <ul style="list-style-type: none"> Selected Bearer Services (as a string) will be dynamically moved to the text field below, which is on to the right side of the screen

	<p>* Few services contain a list of sub-services In this case, (on checking the specific service) the corresponding list of sub-services will be dynamically displayed in the text field, which is on to the left side of the screen Select the desired service from the list (of the left text field) and on clicking the right-arrow button, the service (as a string) will be moved to the adjacent field User can enter the desired number of services in a similar fashion but, subject to the maximum limitation of 5 (Five) services However if the user wants to just remove any service (any time before creating the profile), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service</p>
5.	<p>Select Call Type Criteria (Forwarded / Non-Forwarded) from the drop-down list of the <Call Type Criteria> field * By default, the list of call type criteria (Forwarded / Non- Forwarded) will be dynamically displayed as drop-down list of the <Call Forwarded> field</p>
6.	<p>On clicking the Submit button, new profile (Originating CSI) will be created and a message window to that effect will be displayed</p>  <p>On clicking the Home button of the message window, it directs the user back to the Originating CSI profiles grid</p>
7.	<p>On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the Originating CSI profiles grid</p>

New (Phase3) Originating CSI Profile:

STEP	ACTION
1	<p>With the effect of choosing CAMEL Capability Handling Phase3, only the corresponding attributes will be dynamically displayed, enabling the user to create new (Phase3) profile as Originating CSI</p> <p>* All the attributes - 'Collected Info', 'Basic Service Criteria' & 'Route Service Failure' blocks will be displayed for the phase3 profile</p>

The screen below shows creating a new profile as Originating CSI: the chosen phase being the CAMEL Capability Handling **PHASE3**.

Create

Indicates Mandatory

Profile Name	demo
CAMEL Capability Handling	Phase 3
<input checked="" type="checkbox"/> Collected Info	
Default Call Handling	Continue Call
SCF Name and Service Key	mno-76
Basic Service Criteria	
Tele Services <input checked="" type="checkbox"/> SpeechTransmissionServices <input type="checkbox"/> ShortMessageServices <input type="checkbox"/> FacsimileTransmissionServices <input checked="" type="checkbox"/> VoiceGroupCallServices	
Bearer Services <input type="checkbox"/> DataCDA-Services <input type="checkbox"/> DataCDS-Services <input type="checkbox"/> PadAccessCA-Services <input type="checkbox"/> DataPDS-Services <input checked="" type="checkbox"/> AlternateSpeech-DataCDA <input checked="" type="checkbox"/> AlternateSpeech-DataCDS <input type="checkbox"/> SpeechFollowedByDataCDA <input checked="" type="checkbox"/> SpeechFollowedByDataCDS	
<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> T11 Telephony T12 EmergencyCalls T91 VoiceGroupCall T92 VoiceBroadcastCall </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> SpeechTransmissionServices VoiceGroupCallServices AlternateSpeech-DataCDA SpeechFollowedByDataCDS AlternateSpeech-DataCDS </div> Call Type Criteria Forwarded	
<input checked="" type="checkbox"/> Route Select Failure	
Default Call Handling	Release Call
SCF Name and Service Key	testnamen-6
Cause Value Criteria <div style="border: 1px solid #ccc; width: 100%; height: 100px; margin-top: 10px;"></div>	
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	<p><u>Collected Info Block:</u></p> <p>Select the 'Collected Info' check box, which in turn would enable the user to enter details related to 'Default Call Handling' and 'SCF Name and Service Key'</p>
2.	<p>Select a default call handling element (Continue Call or Release Call) to specify a default setting for the call handling, from the drop-down list of the <Default Call Handling> field</p> <p>* By default, the list of call handling elements (Continue Call / Release Call) will be dynamically displayed as drop-down list of the <Default Call Handling> field</p>
3.	<p>Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the Collected Information element, from the drop-down list of the <SCF Name and Service Key> field</p> <p>* By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field</p>
4.	<p><u>Basic Service Criteria Block:</u></p> <p>Basic services comprise Tele Services and Bearer Services</p> <p>NOTE: Only 5 (Five) services (from both Tele and Bearer services) can be mapped as Basic Services criteria</p>
	<p>Tele Services</p> <ul style="list-style-type: none"> Selected Teleservices (as a string) will be dynamically moved to the text field below, which is on to the right side of the screen
	<p>Bearer Services</p> <ul style="list-style-type: none"> Selected Bearer Services (as a string) will be dynamically moved to the text field below, which is on to the right side of the screen

	<p>* Few services contain a list of sub-services In this case, (on checking the specific service) the corresponding list of sub-services will be dynamically displayed in the text field, which is on to the left side of the screen Select the desired service from the list (of the left text field) and on clicking the right-arrow button, the service (as a string) will be moved to the adjacent field User can enter the desired number of services in a similar fashion but, subject to the maximum limitation of 5 (Five) services However if the user wants to just remove any service (any time before creating the profile), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service</p>
5.	Select Call Type Criteria (Forwarded / Non-Forwarded) from the drop-down list of the <Call Type Criteria> field * By default, the list of call type criteria (Forwarded / Non- Forwarded) will be dynamically displayed as drop-down list of the <Call Forwarded> field
6.	<u>Route Select Failure Block:</u> Select the 'Route Select Failure' check box, which in turn would enable the user to configure parameters for 'Default Call Handling', 'SCF Name and Service Key' and the Cause Value Criteria
7.	Select a default setting for Call Handling (Continue Call or Release Call) to specify the default call handling from the drop-down list of the <Default Call Handling> field * By default, the list of call handling types will be dynamically displayed as drop-down list of the < Default Call Handling> field
8.	Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the Route Select Failure element, from the drop-down list of the <SCF Name and Service Key> field * By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field

	<p>The default list of Cause Value Criteria will be dynamically displayed in the text field, which is on to the left side of the screen</p> <p>Select the desired cause value from the list (of the left text field) and on clicking the right-arrow button, the cause value (as a string) will be moved to the adjacent field</p> <p>User can enter the desired number of cause values in a similar fashion but, subject to the maximum limitation of 5 (Five) cause values</p> <p>However if the user wants to just remove any cause value (any time before creating the profile), selecting the cause value from the right text field and subsequently clicking the left-arrow button removes the service</p>
9.	<p>On clicking the Submit button, new profile (Originating CSI) will be created and a message window to that effect will be displayed</p>  <p>On clicking the Home button of the message window, it directs the user back to the Originating CSI profiles grid</p>
10.	<p>On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the Originating CSI profiles grid</p>

New (Phase4) Originating CSI Profile:

STEP	ACTION
1.	<p>With the effect of choosing CAMEL Capability Handling Phase4, only the corresponding attributes will be dynamically displayed, enabling the user to create new (Phase4) profile as Originating CSI</p> <p>* All the attributes - 'Collected Info', 'Basic Service Criteria' & 'Route Service Failure' blocks will be displayed for the phase4 profile</p> <p><u>NOTE: The process of creating Phase4 Profile (Originating CSI) is similar to the process of creating Phase3 Profile (Originating CSI) as mentioned above.</u></p>

View

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Originating CSI → Create / View

View enables the user to peruse details related to chosen profile (Originating CSI).

On clicking the '**View**' link of a chosen 'Profile' (from the Originating CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile.

The screen below displays the details related to chosen profile (Originating CSI)

Profile Name	30thocisione	
CAMEL Capability Handling	Phase 2	
Collected Info		
Default Call Handling	Continue Call	
SCF Name and Service Key	Pcm-12	
Services	Tele Services	Bearer Services
	ShortMessageServices	DataCDA-Services
	FacsimileTransmissionServices	DataCDS-Services
VoiceGroupCallServices		
Call Type Criteria	Non-Forwarded	
Home		

STEP	ACTION
1.	User can peruse details related to the chosen Originating CSI Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'Originating CSI' profiles grid

Searching for a specific Originating CSI Profile (Record)



STEP	ACTION
1.	Select a search criterion ('PLMN Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('PLMN Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'PLMN Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Originating CSI profiles (record) will be highlighted among the list of Originating CSI profiles records.

The screen below depicts fetching and displaying the give Originating CSI profiles record.

Create / View		
Search <input type="button" value="Select Column"/> <input type="text"/> <input type="button" value="Go"/> View Per Page <input type="button" value="10"/>		
<input type="button" value="Create"/> 1 2		
Profile Name	Status	Action
CSItest	CREATED	<input type="button" value="View"/>
CSItest111	CREATED	<input type="button" value="View"/>
demo	CREATED	<input type="button" value="View"/>
demo2	CREATED	<input type="button" value="View"/>
MobilyOCSI	APPROVED	<input type="button" value="View"/>
ocsi_Rajesh	APPROVED	<input type="button" value="View"/>
red	CREATED	<input type="button" value="View"/>
rr	CREATED	<input type="button" value="View"/>
test	CREATED	<input type="button" value="View"/>
test2	CREATED	<input type="button" value="View"/>

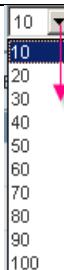
Manage

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Originating CSI → Manage

'Manage' helps the user modifying and deleting (managing) a chosen Originating CSI profile that was created, but still to be approved. Initially, the screen displays the list of Originating CSI profiles that were configured and created.

The screen below shows the list of various Originating CSI (Profiles) configurations in a grid.

Manage				
Profile Name	Status	Action		
CSIddd	CREATED	Modify		Delete
CSIdemo	CREATED	Modify		Delete
CSItest	CREATED	Modify		Delete
CSItest111	CREATED	Modify		Delete
demo	CREATED	Modify		Delete
demo2	CREATED	Modify		Delete
red	CREATED	Modify		Delete
rr	CREATED	Modify		Delete
test	CREATED	Modify		Delete
test2	CREATED	Modify		Delete

STEP	ACTION
1.	By default, the list of profiles will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
4.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
5.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Originating CSI' main page

Modify

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Originating CSI → Manage → Modify

Modify enables the user to modify / update the details related to an existing Originating CSI profile that was just created, however, was still not approved.

On clicking the '**Modify**' link of a chosen 'Profile' (from the Originating CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile.

The screen below shows modifying / updating the details related to an existing Originating CSI profile.

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile, yet subject to the stipulations related to mapping parameters
3.	<p>On clicking the Modify button at the bottom of the 'Modify' screen, profile (Originating CSI) details will be updated accordingly and a message window to that effect will be displayed</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Originating CSI' profiles grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the 'Originating CSI profiles' grid

Delete

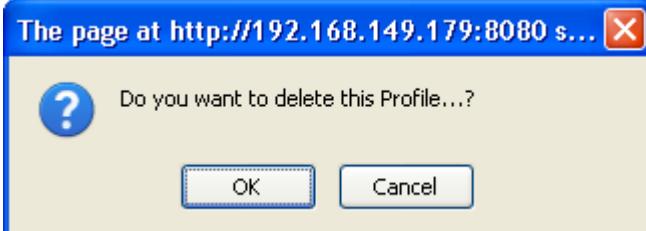
Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Originating CSI → Manage → Delete

Delete enables the user to delete an existing Originating CSI profile that was just created, however, was still not approved.

On clicking the '**Delete**' link of a chosen 'Profile' (from the Originating CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile.

The screen below shows the details related to an existing Originating CSI profile, which enables the user to delete the same (Profile).

Delete																																																																				
<table border="1"> <tr> <td>Profile Name</td> <td colspan="3">tet3ocsi</td> </tr> <tr> <td>CAMEL Capability Handling</td> <td colspan="3">Phase 3</td> </tr> <tr> <td colspan="4">Collected Info</td> </tr> <tr> <td colspan="4"> <table border="1"> <tr> <td>Default Call Handling</td> <td colspan="3">Continue Call</td> </tr> <tr> <td>SCF Name and Service Key</td> <td colspan="3">Pcm-12</td> </tr> <tr> <td rowspan="3" style="text-align: center;">Services</td> <td style="text-align: center;">Tele Services</td> <td colspan="2" style="text-align: center;">Bearer Services</td> </tr> <tr> <td>SpeechTransmissionServices</td> <td colspan="2">DataCDA-Services</td> </tr> <tr> <td>ShortMessageServices</td> <td colspan="2">DataCDS-Services</td> </tr> <tr> <td>VoiceGroupCallServices</td> <td colspan="2"></td> </tr> <tr> <td colspan="4">Call Type Criteria ---</td> </tr> <tr> <td colspan="4">Route Select Failure</td> </tr> <tr> <td colspan="4"> <table border="1"> <tr> <td>Default Call Handling</td> <td colspan="3">Continue Call</td> </tr> <tr> <td>SCF Name and Service Key</td> <td colspan="3">Pcm-12</td> </tr> <tr> <td rowspan="4" style="text-align: center;">Cause Value Criteria</td> <td colspan="3"> Call rejected Access information discarded Bearer capability not authorized Bearer capability not presently available Bearer capability not implemented </td> </tr> </table> </td> </tr> <tr> <td colspan="4" style="text-align: center;"> <input type="button" value="Delete"/> <input type="button" value="Home"/> </td> </tr> </table> </td> </tr> </table>				Profile Name	tet3ocsi			CAMEL Capability Handling	Phase 3			Collected Info				<table border="1"> <tr> <td>Default Call Handling</td> <td colspan="3">Continue Call</td> </tr> <tr> <td>SCF Name and Service Key</td> <td colspan="3">Pcm-12</td> </tr> <tr> <td rowspan="3" style="text-align: center;">Services</td> <td style="text-align: center;">Tele Services</td> <td colspan="2" style="text-align: center;">Bearer Services</td> </tr> <tr> <td>SpeechTransmissionServices</td> <td colspan="2">DataCDA-Services</td> </tr> <tr> <td>ShortMessageServices</td> <td colspan="2">DataCDS-Services</td> </tr> <tr> <td>VoiceGroupCallServices</td> <td colspan="2"></td> </tr> <tr> <td colspan="4">Call Type Criteria ---</td> </tr> <tr> <td colspan="4">Route Select Failure</td> </tr> <tr> <td colspan="4"> <table border="1"> <tr> <td>Default Call Handling</td> <td colspan="3">Continue Call</td> </tr> <tr> <td>SCF Name and Service Key</td> <td colspan="3">Pcm-12</td> </tr> <tr> <td rowspan="4" style="text-align: center;">Cause Value Criteria</td> <td colspan="3"> Call rejected Access information discarded Bearer capability not authorized Bearer capability not presently available Bearer capability not implemented </td> </tr> </table> </td> </tr> <tr> <td colspan="4" style="text-align: center;"> <input type="button" value="Delete"/> <input type="button" value="Home"/> </td> </tr> </table>				Default Call Handling	Continue Call			SCF Name and Service Key	Pcm-12			Services	Tele Services	Bearer Services		SpeechTransmissionServices	DataCDA-Services		ShortMessageServices	DataCDS-Services		VoiceGroupCallServices			Call Type Criteria ---				Route Select Failure				<table border="1"> <tr> <td>Default Call Handling</td> <td colspan="3">Continue Call</td> </tr> <tr> <td>SCF Name and Service Key</td> <td colspan="3">Pcm-12</td> </tr> <tr> <td rowspan="4" style="text-align: center;">Cause Value Criteria</td> <td colspan="3"> Call rejected Access information discarded Bearer capability not authorized Bearer capability not presently available Bearer capability not implemented </td> </tr> </table>				Default Call Handling	Continue Call			SCF Name and Service Key	Pcm-12			Cause Value Criteria	Call rejected Access information discarded Bearer capability not authorized Bearer capability not presently available Bearer capability not implemented			<input type="button" value="Delete"/> <input type="button" value="Home"/>			
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STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (Originating CSI)</p>  <p>On clicking the OK button of the alert window, the chosen Originating CSI profile will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Originating CSI' profiles grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Originating CSI' profiles grid

Searching for a specific Originating CSI profiles (Record)



STEP	ACTION
1.	<p>Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field</p> <p>* By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field</p>
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Originating CSI Profiles (record) will be highlighted among the list of Originating CSI Profiles records.

The screen below depicts fetching and displaying the give Originating CSI Profiles record.

Manage				
Search		Select Column	Go	View Per Page
1 2				
Profile Name	Status	Action		
CSIddd	CREATED	Modify		Delete
CSIdemo	CREATED	Modify		Delete
CSItest	CREATED	Modify		Delete
CSItest111	CREATED	Modify		Delete
demo	CREATED	Modify		Delete
demo2	CREATED	Modify		Delete
red	CREATED	Modify		Delete
rr	CREATED	Modify		Delete
test	CREATED	Modify		Delete
testdemCSI	CREATED	Modify		Delete

[Home](#)

9.2 Terminating CSI

Terminating CSI enables the user to configure parameters related to CAMEL Subscription Information (CSI) in terms of mobile termination (MT) perspective. This helps creating various Terminating CSI profiles, which in turn provide a wider flexibility in attributing the same to different customer subscription types.

The Terminating CSI data defines the contents of the dialled service CAMEL subscription information that is used to inter-work with the GSMSCF for MT calls.

Create/View

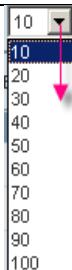
Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Terminating CSI → Create/View

Initially, 'Terminating CSI' displays a grid showing the list of existing Terminating CSI Profiles that are configured and created. This list may include those profiles that are created and approved, created and rejected and also those created but still to be approved or rejected.

The screen below shows the list of various Terminating CSI configurations in a grid.

Create / View			
Search		Select Column	Go
		View Per Page 10	
Create		1 2	
Profile Name	Status	Action	
abc	CREATED	View	
bnbbb	CREATED	View	
cc1	CREATED	View	
CSlddd11	CREATED	View	
CSItest123	CREATED	View	
CSItestdemo	CREATED	View	
mno	CREATED	View	
MobilyTCSI	APPROVED	View	
mro	CREATED	View	
tcsi_Rajesh	APPROVED	View	

Create	1 2
Home	

STEP	ACTION
1.	By default, the list of profiles (Terminating CSI) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (Terminating CSI Profile)
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Terminating CSI' main page

Create:

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Terminating CSI → Create / View

Create enables the user to create a new profile (Terminating CSI Profile) and attribute various values to constitute the same.

However, a new profile creation shall be based on the chosen CAMEL Capability Handling (Phase1/Phase2/ Phase3/Phase4). Only the corresponding attributes/parameters will be

displayed in accordance with the chosen phase for the proposed (new) **Terminating CSI Profile** creation.

First Level Screen Action:

First level of the screen helps the user entering a name for the proposed (new) **Terminating CSI Profile** and choosing a phase (Phase1, Phase2, Phase3 and Phase4) for the same.

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information ! Indicates Mandatory
2.	Enter name of the profile in <Profile Name> field
3.	Select a phase (Phase1, Phase2, Phase3 and Phase4) to specify the CAMEL capability handling from the drop-down list of the <CAMEL Capability Handling> field * By default, the list of phases will be dynamically displayed as drop-down list of the <CAMEL Capability Handling> field

New (Phase1) Terminating CSI Profile:

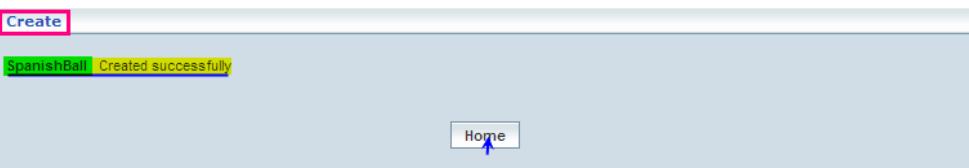
STEP	ACTION
1.	With the effect of choosing CAMEL Capability Handling Phase1 , only the corresponding attributes will be dynamically displayed, enabling the user to create new (Phase1) profile as Terminating CSI * <u>Only the 'Term Attempt Authorized' block will be displayed for the phase1 profile</u>

The screen below shows creating a new profile as Terminating CSI: the chosen phase being the CAMEL Capability Handling **PHASE1**.

Create

Indicates Mandatory

Profile Name	SpanishBall
CAMEL Capability Handling	Phase 1
<input checked="" type="checkbox"/> Term Attempt Authorised	
Default Call Handling	Continue Call
SCF Name and Service Key	cmTestFour-1007
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	<p>Term Attempt Authorized Block:</p> <p>Select the 'Term Attempt Authorized' check box, which in turn would enable the user to</p> <ul style="list-style-type: none"> • enter details related to 'Default Call Handling' and 'SCF Name and Service Key'
2.	<p>Select a default Call Handling Element (Continue Call or Release Call) to specify a default setting for the call handling, from the drop-down list of the <Default Call Handling> field</p> <p>* By default, the list of call handling elements (Continue Call / Release Call) will be dynamically displayed as drop-down list of the <Default Call Handling> field</p>
3.	<p>Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the 'Term Attempt Authorized' element, from the drop-down list of the <SCF Name and Service Key> field</p> <p>* By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field</p>
4.	<p>On clicking the Submit button, new profile Phase1 (Terminating CSI) will be created and a message window to that effect will be displayed</p>  <p>On clicking the Home button of the message window, it directs the user back to the 'Terminating CSI' profiles grid</p>
5.	<p>On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the 'Terminating CSI' profiles grid</p>

New (Phase2) Terminating CSI Profile:

STEP	ACTION
1.	<p>With the effect of choosing CAMEL Capability Handling Phase2, only the corresponding attributes will be dynamically displayed, enabling the user to create new (Phase2) profile as Terminating CSI</p> <p>* <u>Only the 'Term Attempt Authorized' block will be displayed for the phase2 profile</u></p> <p><u>NOTE: The process of creating Phase2 Profile (Terminating CSI) is similar to the process of creating Phase1 Profile (Terminating CSI) as mentioned above.</u></p>

[New \(Phase3\) Terminating CSI Profile:](#)

STEP	ACTION
1.	<p>With the effect of choosing CAMEL Capability Handling Phase3, only the corresponding attributes will be dynamically displayed, enabling the user to create new (Phase3) profile as Terminating CSI</p> <p>* <u>All the attributes; 'Term Attempt Authorized', 'Basic Service Criteria', 'TBusy' and 'TNo Answer' blocks will be displayed for the phase3 profile</u></p>

The screen below shows creating a new profile as Terminating CSI: the chosen phase being the CAMEL Capability Handling **PHASE3**.

Create

Indicates Mandatory

Profile Name	CSITdemo
CAMEL Capability Handling	Phase 3
<input checked="" type="checkbox"/> Term Attempt Authorized	
Default Call Handling	Continue Call
SCF Name and Service Key	eretgfd-5

Basic Service Criteria

Tele Services

SpeechTransmissionServices ShortMessageServices FacsimileTransmissionServices
 VoiceGroupCallServices

Bearer Services

DataCDA-Services DataCDS-Services PadAccessCA-Services
 DataPDS-Services AlternateSpeech-DataCDA AlternateSpeech-DataCDS
 SpeechFollowedByDataCDA SpeechFollowedByDataCDS

T21 ShortMessageMT-PP
T22 ShortMessageMO-PP
B32 DataCDS-1200bps
B34 DataCDS-2400bps
B35 DataCDS-4800bps

ShortMessageServices
DataCDS-Services

TBusy

Default Call Handling Continue Call
SCF Name and Service Key test-3434

Cause Value Criteria

TNoAnswer

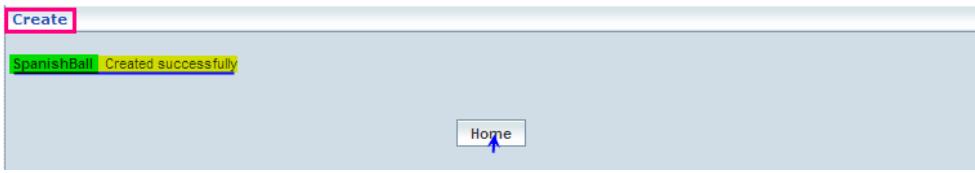
Default Call Handling Continue Call
SCF Name and Service Key eretgfd-5

Cause Value Criteria

Submit **Home**

STEP	ACTION
1.	<p><u>Term Attempt Authorized Block:</u></p> <p>Select the 'Term Attempt Authorized' check box, which in turn would enable the user to</p> <ul style="list-style-type: none"> • enter details related to 'Default Call Handling' and 'SCF Name and Service Key' • configure Basic Service Criteria
2.	<p>Select a default call handling element (Continue Call or Release Call) to specify a default setting for the call handling, from the drop-down list of the <Default Call Handling> field</p> <p>* By default, the list of call handling elements (Continue Call / Release Call) will be dynamically displayed as drop-down list of the <Default Call Handling> field</p>
3.	<p>Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the 'Term Attempt Authorized' element, from the drop-down list of the <SCF Name and Service Key> field</p> <p>* By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field</p>
4.	<p><u>Basic Service Criteria:</u></p> <p>Basic services comprise Tele Services and Bearer Services</p> <p>NOTE: Only 5 (Five) services (from both Tele and Bearer services) can be mapped as Basic Services criteria</p>
	<p>Tele Services</p> <ul style="list-style-type: none"> • Selected Teleservices (as a string) will be dynamically moved to the text field below, which is on to the right side of the screen
	<p>Bearer Services</p> <ul style="list-style-type: none"> • Selected Bearer Services (as a string) will be dynamically moved to the text field below, which is on to the right side of the screen

	<p>* Few services contain a list of sub-services In this case, (on checking the specific service) the corresponding list of sub-services will be dynamically displayed in the text field, which is on to the left side of the screen Select the desired service from the list (of the left text field) and on clicking the right-arrow button, the service (as a string) will be moved to the adjacent field User can enter the desired number of services in a similar fashion but, subject to the maximum limitation of 5 (Five) services However if the user wants to just remove any service (any time before creating the profile), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service</p>
5.	<p>TBusy Block: Select the 'TBusy' check box, which in turn would enable the user to configure parameters for 'Default Call Handling', 'SCF Name and Service Key' and configure the Cause Value Criteria</p>
6.	<p>Select a default setting for Call Handling (Continue Call or Release Call) to specify the default call handling from the drop-down list of the <Default Call Handling> field * By default, the list of call handling types will be dynamically displayed as drop-down list of the < Default Call Handling> field</p>
7.	<p>Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the 'TBusy' element, from the drop-down list of the <SCF Name and Service Key> field * By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field</p>
	<p>The default list of Cause Value Criteria will be dynamically displayed in the text field, which is on to the left side of the screen Select the desired cause value from the list (of the left text field) and on clicking the right-arrow button, the cause value (as a string) will be moved to the adjacent field User can enter the desired number of cause values in a similar fashion but, subject to the maximum limitation of 5 (Five) cause values However if the user wants to just remove any cause value (any time before creating the profile), selecting the cause value from the right text field and subsequently clicking the left-arrow button removes the service</p>

8.	<p>TNoAnswer Block:</p> <p>Check the 'TNoAnswer' check box, which in turn would enable the user to configure parameters for 'Default Call Handling', 'SCF Name and Service Key' and configure the Cause Value Criteria</p>
9.	<p>Select a default setting for Call Handling (Continue Call or Release Call) to specify the default call handling from the drop-down list of the <Default Call Handling> field</p> <p>* By default, the list of call handling types will be dynamically displayed as drop-down list of the < Default Call Handling> field</p>
10.	<p>Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the 'TNoAnswer' element, from the drop-down list of the <SCF Name and Service Key> field</p> <p>* By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field</p>
	<p>The default list of Cause Value Criteria will be dynamically displayed in the text field, which is on to the left side of the screen</p> <p>Select the desired cause value from the list (of the left text field) and on clicking the right-arrow button, the cause value (as a string) will be moved to the adjacent field</p> <p>User can enter the desired number of cause values in a similar fashion but, subject to the maximum limitation of 5 (Five) cause values</p> <p>However if the user wants to just remove any cause value (any time before creating the profile), selecting the cause value from the right text field and subsequently clicking the left-arrow button removes the service</p>
11.	<p>On clicking the Submit button, new profile (Terminating CSI) will be created and a message window to that effect will be displayed</p>  <p>On clicking the Home button of the message window, it directs the user back to the Terminating CSI profiles grid</p>
12.	<p>On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the Terminating CSI profiles grid</p>

New (Phase4) Terminating CSI Profile:

STEP	ACTION
1.	<p>With the effect of choosing CAMEL Capability Handling Phase4, only the corresponding attributes will be dynamically displayed, enabling the user to create new (Phase4) profile as Terminating CSI</p> <p>* All the attributes; 'Term Attempt Authorized', 'Basic Service Criteria', 'T-Busy' and 'T-No Answer' blocks will be displayed for the phase4 profile</p> <p><u>NOTE: The process of creating Phase4 Profile (Terminating CSI) is similar to the process of creating Phase3 Profile (Terminating CSI) as mentioned above.</u></p>

View

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Terminating CSI → Create / View

View enables the user to peruse details related to chosen profile (Terminating CSI).

On clicking the '**View**' link of a chosen 'Profile' (from the Termination CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile.

The screen below displays the details related to chosen profile (Terminating CSI)

View	
Profile Name 30thtcsione	
CAMEL Capability Handling Phase 3	
Term Attempt Authorized	
Default Call Handling Continue Call	
SCF Name and Service Key Pcm-12	
Services	<div style="border: 1px solid #ccc; padding: 5px; width: 300px;"> <p style="background-color: #336699; color: white; padding: 2px 5px; margin-bottom: 5px;">Tele Services</p> <p>T21 ShortMessageMT-PP</p> <p>FacsimileTransmissionServices</p> <p>T22 ShortMessageMO-PP</p> </div>
<input style="border: 1px solid #ccc; padding: 2px 10px; margin-top: 10px;" type="button" value="Home"/>	

STEP	ACTION
1.	User can peruse details related to the chosen 'Terminating CSI' Profile
2.	On clicking the Home button at the bottom of the 'View' Screen", it redirects the user to the 'Terminating CSI' profiles grid

Searching for a specific 'Terminating CSI' profiles (Record)

The screenshot shows a search interface with a 'Search' field containing 'Select Column'. Below it is a dropdown menu with 'Select Column' at the top and 'Profile Name' highlighted. A red arrow points from the text 'Profile Name' to the dropdown menu.

STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Terminating CSI profiles (record) will be highlighted among the list of Terminating CSI profiles records.

The screen below depicts fetching and displaying the give Terminating CSI profiles record.

The screenshot shows a 'Create / View' interface with a table of Terminating CSI profiles. The table has columns: Profile Name, Status, and Action. One row, 'CSItestdemo', is highlighted with a blue background. The 'Action' column for this row contains the word 'View'. Other rows have 'Status' values like 'CREATED' or 'APPROVED' and 'Action' values like 'View'.

Profile Name	Status	Action
abc	CREATED	View
bnnb	CREATED	View
cc1	CREATED	View
CSlddd11	CREATED	View
CSItest123	CREATED	View
CSItestdemo	CREATED	View
mno	CREATED	View
MobilyTCSI	APPROVED	View
mro	CREATED	View
tcsi_Rajesh	APPROVED	View

Manage

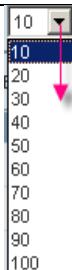
Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Terminating CSI → Manage

'Manage' helps the user modifying and deleting (managing) a chosen Terminating CSI profile that was created, but still to be approved

Initially, the screen displays the list of Terminating CSI profiles that were configured and created.

The screen below shows the list of various Terminating CSI (Profiles) configurations in a grid.

Manage				
Search		Select Column	Go	View Per Page
1 2				
Profile Name	Status	Action		
abc	CREATED	Modify		Delete
bnnb	CREATED	Modify		Delete
cc1	CREATED	Modify		Delete
CSIddd11	CREATED	Modify		Delete
CSItest123	CREATED	Modify		Delete
CSItestdemo	CREATED	Modify		Delete
mno	CREATED	Modify		Delete
mro	CREATED	Modify		Delete
test123445	CREATED	Modify		Delete
u666	CREATED	Modify		Delete

STEP	ACTION
1.	By default, the list of profiles will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
4.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
5.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Terminating CSI' main page

Modify

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Terminating CSI → Manage → Modify

Modify enables the user to modify / update the details related to an existing Terminating CSI profile.

On clicking the '**Modify**' link of a chosen 'Profile' (from the Termination CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile.

The screen below shows modifying / updating the details related to an existing Terminating CSI profile.

Profile Name Galaxytrue **Profile name will be dynamically displayed and cannot be modified**

CAMEL Capability Handling | Phase 1

Term Attempt Authorized

Default Call Handling | Continue Call

SCF Name and Service Key | PcmKey-13

Submit **Home**

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile, yet subject to the stipulations related to mapping parameters
3.	<p>On clicking the Modify button at the bottom of the 'Modify' screen, profile (Terminating CSI) details will be updated accordingly and a message window to that effect will be displayed</p> <p>On clicking the Home button of the message window, it directs the user back to the Terminating CSI profiles grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the Terminating CSI profiles grid

Delete

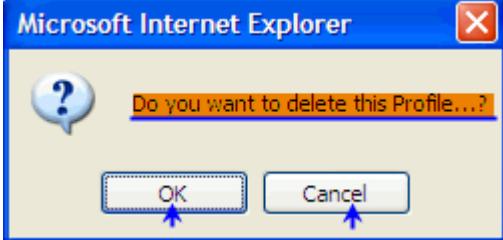
Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Terminating CSI → Manage → Delete

Delete enables the user to delete an existing Terminating CSI profile.

On clicking the '**Delete**' link of a chosen 'Profile' (from the Termination CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile.

The screen below shows the details related to an existing Terminating CSI profile, which enables the user to delete the same (Profile).

Delete	
Profile Name	Galaxytrue
CAMEL Capability Handling	Phase 1
Term Attempt Authorized	
Default Call Handling	Continue Call
SCF Name and Service Key	Pcm-12
<input type="button" value="Delete"/> <input type="button" value="Home"/>	

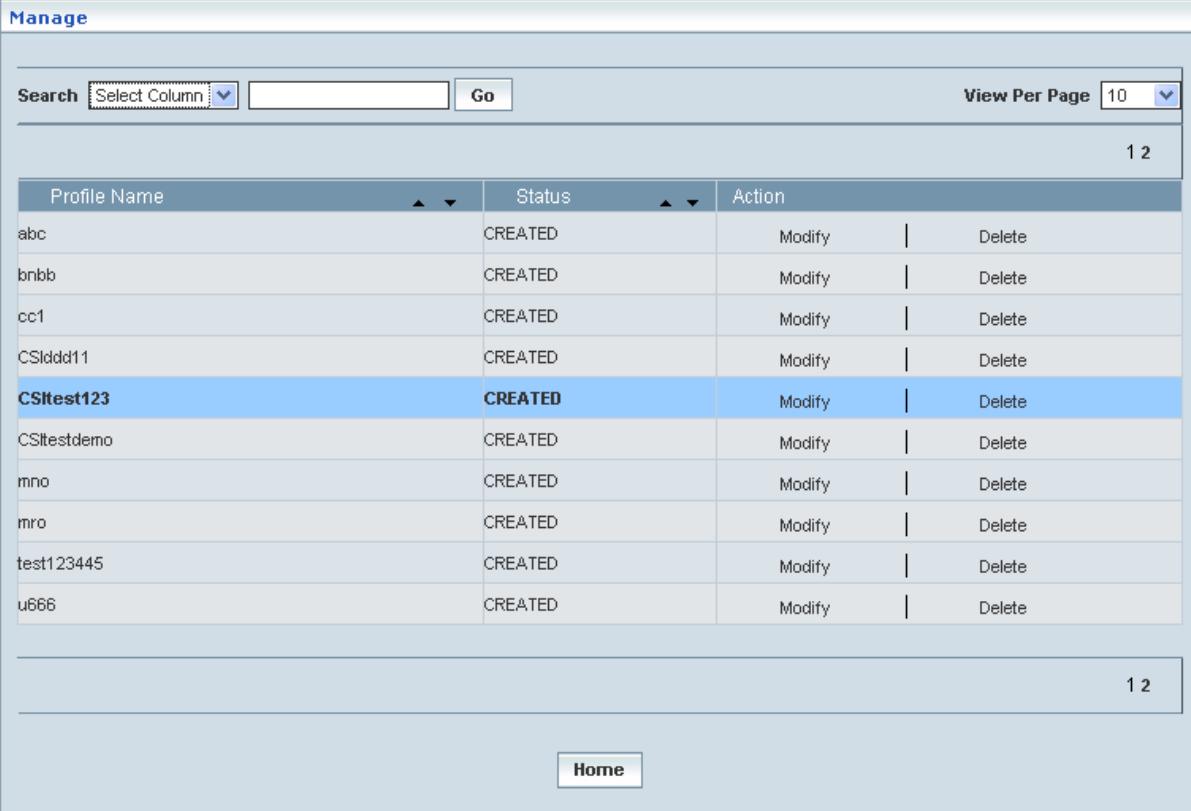
STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (Terminating CSI)</p>  <p>On clicking the OK button of the alert window, the chosen Terminating CSI profile will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Terminating CSI' profiles grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Terminating CSI' profiles grid

Searching for a specific 'Terminating CSI' Profiles (Record)



STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Terminating CSI Profiles (record) will be highlighted among the list of Terminating CSI Profiles records.

The screen below depicts fetching and displaying the give Terminating CSI Profiles record.



Manage			
Profile Name	Status	Action	
abc	CREATED	Modify	Delete
bnnb	CREATED	Modify	Delete
cc1	CREATED	Modify	Delete
CSIddd11	CREATED	Modify	Delete
CSItest123	CREATED	Modify	Delete
CSItestdemo	CREATED	Modify	Delete
mno	CREATED	Modify	Delete
mro	CREATED	Modify	Delete
test123445	CREATED	Modify	Delete
u666	CREATED	Modify	Delete

9.3 VMSC Terminating CSI

VMSC Terminating CSI enables the user to configure parameters related to CAMEL Subscription Information (CSI) in terms of (Visiting Location - mobile termination) (V- MT) perspective. This helps creating various VMSC Terminating CSI profiles, which in turn provide a wider flexibility in attributing the same to different customer subscription types.

The VMSC Terminating CSI data defines the contents of the dialled service CAMEL subscription information that is used by the VMSC to inter-work with the GSMSCF for MT calls.

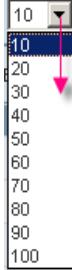
Create / View

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → VMSC Terminating CSI → Create / View

Initially, 'VMSC Terminating CSI' displays a grid showing the list of existing VMSC Terminating CSI Profiles that are configured and created. This list may include those profiles that are created and approved, created and rejected and also those created but still to be approved or rejected.

The screen below shows the list of various VMSC Terminating CSI configurations in a grid.

Create / View		
<input type="button" value="Create"/> <input type="text" value="Search"/> <input type="button" value="Select Column"/> <input type="button" value="Go"/> <input type="button" value="View Per Page"/> 10		
Profile Name	Status	Action
CSITerm	CREATED	<input type="button" value="View"/>
CSITerminating	CREATED	<input type="button" value="View"/>
DemoV1	CREATED	<input type="button" value="View"/>
Profile1	CREATED	<input type="button" value="View"/>
Profile13	CREATED	<input type="button" value="View"/>
Term1	CREATED	<input type="button" value="View"/>
testCMSTCSI	CREATED	<input type="button" value="View"/>
VMSC	CREATED	<input type="button" value="View"/>
VMSCdemo	CREATED	<input type="button" value="View"/>
VMSCtest1	CREATED	<input type="button" value="View"/>

STEP	ACTION
1.	By default, the list of profiles (VMSC Terminating CSI) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (VMSC Terminating CSI Profile)
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'VMSC Terminating CSI' main page

Create

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → VMSC Terminating CSI → Create / View

Create enables the user to create a new profile (VMSC Terminating CSI Profile) and attribute various values to constitute the same.

NOTE: Only two CAMEL Capability Handling phases (Phase3 & Phase4) are relatable to **VMSC Terminating CSI Profile** creation. However, a new profile creation shall be based on the chosen phase (Phase3/Phase4).

First Level Screen Action:

First level of the screen helps the user entering a name for the proposed (new) **VMSC Terminating CSI Profile** and choosing a CAMEL Capability Handling phase (Phase3/Phase4) for the same.

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the profile in <Profile Name> field
3.	Select a phase (Phase3/Phase4) to specify the CAMEL capability handling from the drop-down list of the <CAMEL Capability Handling> field * By default, the list of phases (<u>Only Phase3 & Phase4</u>) will be dynamically displayed as drop-down list of the <CAMEL Capability Handling> field

The screen below shows creating a new profile as VMSC Terminating CSI

Create

Indicates Mandatory

Profile Name	testCMSTCSI
CAMEL Capability Handling	Phase 3
Term Attempt Authorized	
Default Call Handling	Continue Call
SCF Name and Service Key	abcd-433

Basic Service Criteria

Tele Services

<input checked="" type="checkbox"/> SpeechTransmissionServices	<input type="checkbox"/> ShortMessageServices	<input checked="" type="checkbox"/> FacsimileTransmissionServices
<input type="checkbox"/> VoiceGroupCallServices		

Bearer Services

<input checked="" type="checkbox"/> DataCDA-Services	<input checked="" type="checkbox"/> DataCDS-Services	<input type="checkbox"/> PadAccessCA-Services
<input type="checkbox"/> DataPDS-Services	<input type="checkbox"/> AlternateSpeech-DataCDA	<input checked="" type="checkbox"/> AlternateSpeech-DataCDS
<input type="checkbox"/> SpeechFollowedByDataCDA	<input type="checkbox"/> SpeechFollowedByDataCDS	
<input type="checkbox"/> T11 Telephony <input type="checkbox"/> T12 EmergencyCalls <input type="checkbox"/> B32 DataCDS-1200bps <input type="checkbox"/> B34 DataCDS-2400bps <input type="checkbox"/> B35 DataCDS-4800bps		<input type="checkbox"/> SpeechTransmissionServices <input type="checkbox"/> DataCDS-Services <input type="checkbox"/> DataCDA-Services <input type="checkbox"/> AlternateSpeech-DataCDS <input type="checkbox"/> FacsimileTransmissionServices

TBusy

Default Call Handling	Continue Call
SCF Name and Service Key	fdfdf-33
Cause Value Criteria <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid #ccc; padding: 5px; width: 45%; height: 150px;"></div> <div style="border: 1px solid #ccc; padding: 5px; width: 45%; height: 150px;"></div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> < ... > < ... > </div>	

TNoAnswer

Default Call Handling	Continue Call
SCF Name and Service Key	fdfdf-33
Cause Value Criteria <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid #ccc; padding: 5px; width: 45%; height: 150px;"></div> <div style="border: 1px solid #ccc; padding: 5px; width: 45%; height: 150px;"></div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> < ... > < ... > </div>	

Submit **Home**

STEP	ACTION
1.	<p>Term Attempt Authorized Block:</p> <p>Select the 'Term Attempt Authorized' check box, which in turn would enable the user to</p> <ul style="list-style-type: none"> • enter details related to 'Default Call Handling' and 'SCF Name and Service Key' • configure Basic Service Criteria
2.	<p>Select a default call handling element (Continue Call or Release Call) to specify a default setting for the call handling, from the drop-down list of the <Default Call Handling> field</p> <p>* By default, the list of call handling elements (Continue Call / Release Call) will be dynamically displayed as drop-down list of the <Default Call Handling> field</p>
3.	<p>Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the 'Term Attempt Authorized' element, from the drop-down list of the <SCF Name and Service Key> field</p> <p>* By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field</p>
4.	<p>Basic Service Criteria:</p> <p>Basic services comprise Tele Services and Bearer Services</p> <p>NOTE: Only 5 (Five) services (from both Tele and Bearer services) can be mapped as Basic Services criteria</p>
	<p>Tele Services</p> <ul style="list-style-type: none"> • Selected TeleServices (as a string) will be dynamically moved to the text field below, which is on to the right side of the screen
	<p>Bearer Services</p> <ul style="list-style-type: none"> • Selected BearerServices (as a string) will be dynamically moved to the text field below, which is on to the right side of the screen

	<p>* Few services contain a list of sub-services In this case, (on checking the specific service) the corresponding list of sub-services will be dynamically displayed in the text field, which is on to the left side of the screen Select the desired service from the list (of the left text field) and on clicking the right-arrow button, the service (as a string) will be moved to the adjacent field User can enter the desired number of services in a similar fashion but, subject to the maximum limitation of 5 (Five) services However if the user wants to just remove any service (any time before creating the profile), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service</p>
5.	<p>TBusy Block: Select the 'TBusy' check box, which in turn would enable the user to configure parameters for 'Default Call Handling', 'SCF Name and Service Key' and configure the Cause Value Criteria</p>
6.	<p>Select a default setting for Call Handling (Continue Call or Release Call) to specify the default call handling from the drop-down list of the <Default Call Handling> field * By default, the list of call handling types will be dynamically displayed as drop-down list of the < Default Call Handling> field</p>
7.	<p>Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the 'TBusy' element, from the drop-down list of the <SCF Name and Service Key> field * By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field</p>
	<p>The default list of Cause Value Criteria will be dynamically displayed in the text field, which is on to the left side of the screen Select the desired cause value from the list (of the left text field) and on clicking the right-arrow button, the cause value (as a string) will be moved to the adjacent field User can enter the desired number of cause values in a similar fashion but, subject to the maximum limitation of 5 (Five) cause values However if the user wants to just remove any cause value (any time before creating the profile), selecting the cause value from the right text field and subsequently clicking the left-arrow button removes the service</p>

8.	<p>TNoAnswer Block:</p> <p>Select the 'TNoAnswer' check box, which in turn would enable the user to configure parameters for 'Default Call Handling', 'SCF Name and Service Key' and configure the Cause Value Criteria</p>
9.	<p>Select a default setting for Call Handling (Continue Call or Release Call) to specify the default call handling from the drop-down list of the <Default Call Handling> field</p> <p>* By default, the list of call handling types will be dynamically displayed as drop-down list of the < Default Call Handling> field</p>
	<p>Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the 'TNoAnswer' element, from the drop-down list of the <SCF Name and Service Key> field</p> <p>* By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field</p>
	<p>The default list of Cause Value Criteria will be dynamically displayed in the text field, which is on to the left side of the screen</p> <p>Select the desired cause value from the list (of the left text field) and on clicking the right-arrow button, the cause value (as a string) will be moved to the adjacent field</p> <p>User can enter the desired number of cause values in a similar fashion but, subject to the maximum limitation of 5 (Five) cause values</p> <p>However if the user wants to just remove any cause value (any time before creating the profile), selecting the cause value from the right text field and subsequently clicking the left-arrow button removes the service</p>
10.	<p>On clicking the Submit button, new profile (VMSC Terminating CSI) will be created and a message window to that effect will be displayed</p>
	 <p>On clicking the Home button of the message window, it directs the user back to the 'VMSC Terminating CSI' profiles grid</p>
11.	<p>On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the 'VMSC Terminating CSI' profiles grid</p>

View

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → VMSC Terminating CSI → Create / View

View enables the user to peruse details related to chosen profile (VMSC Terminating CSI).

On clicking the '**View**' link of a chosen 'Profile' (from the VMSC Terminating CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile

The screen below displays the details related to chosen profile (VMSC Terminating CSI)

The screenshot shows a web-based application interface for viewing a VMSC Terminating CSI profile. At the top left is a red-bordered 'View' button. Below it is a table with two rows: 'Profile Name' (checkPhase) and 'CAMEL Capability Handling' (Phase 4). A blue header bar labeled 'Term Attempt Authorized' contains two entries: 'Default Call Handling' (Continue Call) and 'SCF Address and Service Key' (ashoktest-575675). To the right of these entries is a 'Services' section with a 'Tele Services' button containing the text 'Teleservices'. At the bottom right of the screen is a 'Home' button.

STEP	ACTION
1.	User can peruse details related to the chosen 'VMSC Terminating CSI' Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'VMSC Terminating CSI' profiles grid

Searching for a specific 'VMSC Terminating CSI' profiles (Record)

The screenshot shows a search interface with a 'Search' label. It includes a dropdown menu labeled 'Select Column' with options 'Select Column' and 'Profile Name'. To the right of the dropdown is a text input field and a 'Go' button with a red arrow pointing towards it.

STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding VMSC Terminating CSI Profiles (record) will be highlighted among the list of VMSC Terminating CSI Profiles records.

The screen below depicts fetching and displaying the give VMSC Terminating CSI Profiles record.

Profile Name	Status	Action
CSITerm	CREATED	View
CSITerminating	CREATED	View
DemoV1	CREATED	View
Profile1	CREATED	View
Profile13	CREATED	View
Term1	CREATED	View
testCMSTCSI	CREATED	View
VMSC	CREATED	View
VMSCdemo	CREATED	View
VMSCtest1	CREATED	View

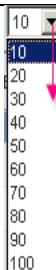
Manage

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → VMSC Terminating CSI → Manage

'Manage' helps the user modifying and deleting (managing) a chosen VMSC Terminating CSI profile that was created, but still to be approved. Initially, the screen displays the list of VMSC Terminating CSI profiles that were configured and created.

The screen below shows the list of various VMSC Terminating CSI (Profiles) configurations in a grid.

Manage				
Profile Name	Status	Action		
CSITerm	CREATED	Modify		Delete
CSITerminating	CREATED	Modify		Delete
DemoV1	CREATED	Modify		Delete
Profile1	CREATED	Modify		Delete
Profile13	CREATED	Modify		Delete
Term1	CREATED	Modify		Delete
testCMSTCSI	CREATED	Modify		Delete
VMSC	CREATED	Modify		Delete
VMSCdemo	CREATED	Modify		Delete
VMSCtest1	CREATED	Modify		Delete

STEP	ACTION
1.	By default, the list of profiles will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
4.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
5.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'VMSC Terminating CSI' main page

Modify

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → VMSC Terminating CSI → Manage → Modify

Modify enables the user to modify / update the details related to an existing VMSC Terminating CSI profile.

On clicking the '**Modify**' link of a chosen 'Profile' (from the VMSC Terminating CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile

The screen below shows modifying / updating the details related to an existing VMSC Terminating CSI profile.

Modify

Indicates Mandatory

Profile Name	testCMSTCSI	
CAMEL Capability Handling	Phase 3	
Term Attempt Authorized		
Default Call Handling	Continue Call	
SCF Name and Service Key	abcd-433	
Basic Service Criteria		
Tele Services		
<input checked="" type="checkbox"/> SpeechTransmissionServices	<input type="checkbox"/> ShortMessageServices	<input checked="" type="checkbox"/> FacsimileTransmissionServices
<input type="checkbox"/> VoiceGroupCallServices		
Bearer Services		
<input checked="" type="checkbox"/> DataCDA-Services	<input checked="" type="checkbox"/> DataCDS-Services	<input type="checkbox"/> PadAccessCA-Services
<input type="checkbox"/> DataPDS-Services	<input type="checkbox"/> AlternateSpeech-DataCDA	<input checked="" type="checkbox"/> AlternateSpeech-DataCDS
<input type="checkbox"/> SpeechFollowedByDataCDA	<input type="checkbox"/> SpeechFollowedByDataCDS	
<div style="border: 1px solid #ccc; padding: 5px; display: inline-block;"> B32 DataCDS-1200bps B34 DataCDS-2400bps B35 DataCDS-4800bps B36 DataCDS-9600bps B30 General-dataCDS </div> <div style="border: 1px solid #ccc; padding: 5px; display: inline-block; margin-left: 20px;"> DataCDS-Services DataCDA-Services SpeechTransmissionServices FacsimileTransmissionServices AlternateSpeech-DataCDS </div>		
TBusy		
Default Call Handling	Continue Call	
SCF Name and Service Key	fdfdf-33	
<div style="border: 1px solid #ccc; padding: 5px; display: inline-block;"> Cause Value Criteria </div> <div style="border: 1px solid #ccc; padding: 5px; display: inline-block; margin-left: 20px;"> < > </div>		
TNoAnswer		
Default Call Handling	Continue Call	
SCF Name and Service Key	fdfdf-33	
<div style="border: 1px solid #ccc; padding: 5px; display: inline-block;"> Cause Value Criteria </div> <div style="border: 1px solid #ccc; padding: 5px; display: inline-block; margin-left: 20px;"> < > </div>		
<input type="button" value="Submit"/> <input type="button" value="Home"/>		

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile, yet subject to the stipulations related to mapping parameters
3.	On clicking the Modify button at the bottom of the 'Modify' screen, profile (VMSC Terminating CSI) details will be updated accordingly and a message window to that effect will be displayed  <p>On clicking the Home button of the message window, it directs the user back to the VMSC Terminating CSI profiles grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the VMSC Terminating CSI profiles grid

Delete

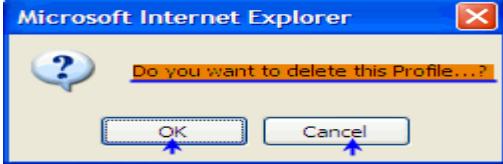
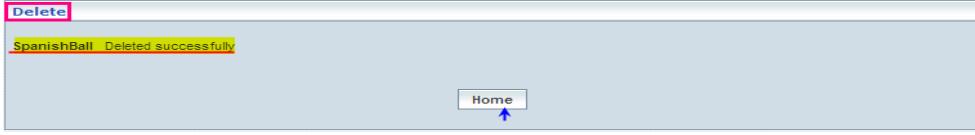
Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → VMSC Terminating CSI → Manage → Delete

Delete enables the user to delete an existing VMSC Terminating CSI profile.

On clicking the '**Delete**' link of a chosen 'Profile' (from the VMSC Terminating CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile.

The screen below shows the details related to an existing VMSC Terminating CSI profile, which enables the user to delete the same (Profile).

Delete					
Profile Name	xiustest2				
CAMEL Capability Handling	Phase 4				
Term Attempt Authorized					
Default Call Handling	Release Call				
SCF Address and Service Key	zxzx-4				
Services	<table border="1"> <tr> <th>Tele Services</th> <th>Bearer Services</th> </tr> <tr> <td>Teleservices</td> <td>BearerServices</td> </tr> </table>	Tele Services	Bearer Services	Teleservices	BearerServices
Tele Services	Bearer Services				
Teleservices	BearerServices				
TBusy					
Default Call Handling	Release Call				
SCF Address and Service Key	zxzx-4				
Cause Value Criteria	Call rejected Bearer capability not authorized				
TNoAnswer					
Default Call Handling	Release Call				
SCF Address and Service Key	zxzx-4				
Cause Value Criteria	Exchange routing error Destination out of order				
<input type="button" value="Delete"/> <input type="button" value="Home"/>					

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (VMSC Terminating CSI)</p>  <p>On clicking the OK button of the alert window, the chosen VMSC Terminating CSI profile will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the VMSC Terminating CSI profiles grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the VMSC Terminating CSI profiles grid

Searching for a specific VMSC Terminating CSI profiles (Record)

A screenshot of a search interface. At the top left is a 'Search' button. Next to it is a dropdown menu labeled 'Select Column' with 'Profile Name' highlighted. To the right of the dropdown is a text input field containing 'Profile Name'. To the right of the input field is a 'Go' button with a red arrow pointing towards it.

STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding VMSC Terminating CSI profiles (record) will be highlighted among the list of VMSC Terminating CSI profiles records.

The screen below depicts fetching and displaying the give VMSC Terminating CSI profiles record.

A screenshot of a 'Manage' interface. At the top left is a 'Search' button followed by a dropdown menu 'Select Column' and a text input field. To the right is a 'View Per Page' dropdown set to 10. Below the search area is a table with the following data:

Profile Name	Status	Action
CSITerm	CREATED	Modify Delete
CSITerminating	CREATED	Modify Delete
DemoV1	CREATED	Modify Delete
Profile1	CREATED	Modify Delete
Profile13	CREATED	Modify Delete
Term1	CREATED	Modify Delete
testCMSTCSI	CREATED	Modify Delete
VMSC	CREATED	Modify Delete
VMSCdemo	CREATED	Modify Delete
VMSCTest1	CREATED	Modify Delete

At the bottom center is a 'Home' button.

9.4 Supplementary Services CSI

Supplementary Services CSI enables the user to create and manage the supplementary services that could be offered to the CSI subscribers. This helps creating various

Supplementary Services CSI profiles, which in turn provide a wider flexibility in catering the same to different customer subscription types and varied demands.

In order to create a supplementary service, it should be configured by pooling certain values and parameters that constitute a service, which could be offered to a subscriber.

Create / View

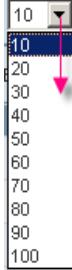
Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Supplementary Services CSI → Create / View

Initially, 'Supplementary Services CSI' displays a grid showing the list of existing supplementary services CSI Profiles that are configured and created. This list may include those profiles that are created and approved, created and rejected and also those created but still to be approved or rejected.

The screen below shows the list of various Supplementary Services CSI profiles in a grid.

Create / View		
Search <input type="button" value="Select Column"/> <input type="text"/> <input type="button" value="Go"/>		<input type="button" value="View Per Page"/> 10 <input type="button"/>
<input type="button" value="Create"/> 1 2		
Profile Name	Status	Action
11SSCSItest	CREATED	<input type="button" value="View"/>
12344	CREATED	<input type="button" value="View"/>
abcSS	CREATED	<input type="button" value="View"/>
SS3	CREATED	<input type="button" value="View"/>
SS4	CREATED	<input type="button" value="View"/>
SSCSI	CREATED	<input type="button" value="View"/>
Supp1	CREATED	<input type="button" value="View"/>
test1111	CREATED	<input type="button" value="View"/>
testsupp	CREATED	<input type="button" value="View"/>
testsuppdemo	CREATED	<input type="button" value="View"/>

<input type="button" value="Create"/> 1 2	
<input type="button" value="Home"/>	

STEP	ACTION
1.	By default, the list of profiles (Supplementary Services CSI) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (Supplementary Service Profile)
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile (Supplementary Service Profile) will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Supplementary Service CSI' main page

Create

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Supplementary Service CSI → Create / View

Create enables the user to create a new profile (Supplementary Service CSI Profile) and attribute various values to constitute the same.

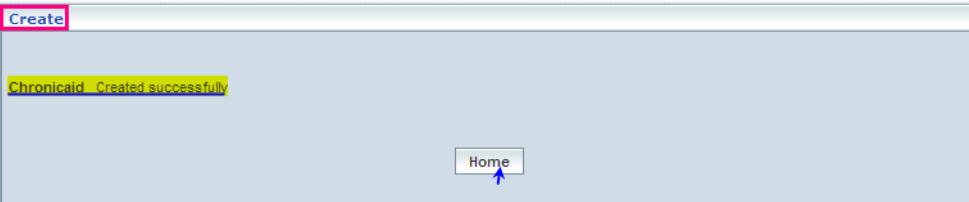
NOTE: Only three CAMEL Capability Handling phases (Phase2, Phase3 & Phase4) are relatable to **Supplementary Service CSI Profile** creation. However, the new proposed profile creation shall be based on the chosen phase (Phase2/Phase3/Phase4).

The screen below shows creating a new profile as Supplementary Service CSI

The screenshot shows a 'Create' form for a 'Supplementary Service CSI Profile'. The form fields include:

- Profile Name:** Chroniaid
- SCF Name and Service Key:** Pcm-12
- SS Codes:** CD (selected), MultiParty (unchecked). A callout box notes: "User can choose any one of the elements - either CD (Call Deflection) or MultiParty".
- CAMEL Capability Handling:** Phase 2

At the bottom are 'Submit' and 'Home' buttons.

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the supplementary service profile in <Profile Name> field
3.	Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the 'Supplementary Service CSI' element, from the drop-down list of the <SCF Name and Service Key> field * By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field
4.	Select the desired supplementary service codes (SS Codes) NOTE: However, user can choose either 'Call Deflection' or 'Multi-Party' but not the both
5.	Select a CAMEL capability handling Phase (Phase2, Phase3 and Phase4) to specify the CAMEL capability handling from the drop-down list of the <CAMEL Capability Handling> field * By default, the list of phases will be dynamically displayed as drop-down list of the <CAMEL Capability Handling> field
6.	On clicking the Submit button, new profile (Supplementary Service CSI) will be created and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the 'Supplementary Service CSI profiles grid'
7.	On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the 'Supplementary Service CSI' profiles grid

View

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Supplementary Service CSI → Create / View

View enables the user to peruse details related to chosen profile (Supplementary Service CSI).

On clicking the '**View**' link of a chosen 'Profile' (Supplementary Service CSI from the Supplementary Services CSI List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the Supplementary Service CSI profile.

The screen below displays the details related to a chosen profile (Supplementary Service CSI)

View	
Profile Name Chronicaid	
SCF Name and Service Key Pcm-12	
SS Codes	explicit call transfer CD completion of call to busy subscribers, originating side completion of call to busy subscribers, destination side
CAMEL Capability Handling	Phase 2
Home	

STEP	ACTION
1.	User can peruse details related to the chosen 'Supplementary Service CSI' Profile
2.	On clicking the Home button at the bottom of the 'View' Screen", it redirects the user to the 'Supplementary Service CSI' profiles grid

Searching for a specific Supplementary Service CSI profiles (Record)

STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Supplementary Service CSI Profiles (record) will be highlighted among the list of Supplementary Service CSI Profiles records.

The screen below depicts fetching and displaying the give Supplementary Service CSI Profiles record.

Create / View		
Search <input type="button" value="Select Column"/> <input type="text"/> <input type="button" value="Go"/>		View Per Page <input type="button" value="10"/> <input type="button" value="10"/>
<input type="button" value="Create"/>		1 2
Profile Name	Status	Action
11SSCSItest	CREATED	<input type="button" value="View"/>
12344	CREATED	<input type="button" value="View"/>
abcSS	CREATED	<input type="button" value="View"/>
SS3	CREATED	<input type="button" value="View"/>
SS4	CREATED	<input type="button" value="View"/>
SSCSI	CREATED	<input type="button" value="View"/>
Supp1	CREATED	<input type="button" value="View"/>
test1111	CREATED	<input type="button" value="View"/>
testsupp	CREATED	<input type="button" value="View"/>
testsuppdemo	CREATED	<input type="button" value="View"/>

Manage

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Supplementary Service CSI → Manage

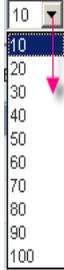
'Manage' helps the user modifying and deleting (managing) a chosen Supplementary Service CSI profile that was created, but still to be approved.

Initially, the screen displays the list of Supplementary Service CSI profiles that were configured and created.

The screen below shows the list of various Supplementary Service CSI (Profiles) configurations in a grid.

Manage				
Search		View Per Page		
Profile Name	Status	Action		
11SSCSItest	CREATED	Modify		Delete
12344	CREATED	Modify		Delete
abcSS	CREATED	Modify		Delete
SS3	CREATED	Modify		Delete
SS4	CREATED	Modify		Delete
SSCSI	CREATED	Modify		Delete
Supp1	CREATED	Modify		Delete
test1111	CREATED	Modify		Delete
testsupp	CREATED	Modify		Delete
testsuppdemo	CREATED	Modify		Delete

[Home](#)

STEP	ACTION
1.	By default, the list of profiles (Supplementary Service CSI profiles) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
4.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
5.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Supplementary Service CSI' main page

Modify

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Supplementary Service CSI → Manage → Modify

Modify enables the user to modify / update the details related to an existing Supplementary Service CSI profile.

On clicking the '**Modify**' link of a chosen 'Profile' (Supplementary Service CSI from the Supplementary Services CSI List); corresponding information related to the profile will be

displayed in a separate screen enabling the user to modify / update details of the Supplementary Service CSI profile.

The screen below shows modifying / updating the details related to an existing Supplementary Service CSI profile.

Profile Name Chronicaid

SCF Name and Service Key Pcm-12

SS Codes

- explicit call transfer
- CD
- MultIParty
- completion of call to busy subscribers, originating side
- completion of call to busy subscribers, destination side

CAMEL Capability Handling Phase 2

Actions: Submit, Home

Note: * User can make necessary changes / updates to the values configured earlier

Indicates Mandatory

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (Supplementary Service CSI) details will be updated accordingly and a message window to that effect will be displayed <p>On clicking the Home button of the message window, it directs the user back to the Supplementary Service CSI profiles grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the Supplementary Service CSI profiles grid

Delete

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Supplementary Service CSI → Manage → Delete

Delete enables the user to delete an existing Supplementary Service CSI profile.

On clicking the '**Delete**' link of a chosen 'Profile' (Supplementary Service CSI from the Supplementary Services CSI List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the Supplementary Service CSI profile.

The screen below shows the details related to an existing Supplementary Service CSI profile, which enables the user to delete the same (Profile).

Profile Name		Chronicaid
SCF Name and Service Key		Pcm-12
SS Codes	explicit call transfer CD completion of call to busy subscribers, originating side completion of call to busy subscribers, destination side	
CAMEL Capability Handling		
<input type="button" value="Delete"/> <input type="button" value="Home"/>		

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (Supplementary Service CSI)</p> <p>On clicking the OK button of the alert window, the chosen Supplementary Service CSI profile will be deleted and a message window to that effect will be displayed</p> <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Supplementary Service CSI' profiles grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Supplementary Service CSI' profiles grid

Searching for a specific Supplementary Service CSI profiles (Record)

The screenshot shows a search interface with a 'Search' label. Below it is a dropdown menu labeled 'Select Column' with 'Profile Name' highlighted. To the right of the dropdown is a text input field and a 'Go' button. A red arrow points to the 'Select Column' dropdown, and another red arrow points to the 'Go' button.

STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Supplementary Service CSI Profiles (record) will be highlighted among the list of Supplementary Service CSI Profiles records.

The screen below depicts fetching and displaying the give Supplementary Service CSI Profiles record.

The screenshot shows a 'Manage' interface with a 'Search' section containing a dropdown 'Select Column' and a 'Go' button. To the right is a 'View Per Page' dropdown set to 10. Below is a table with three columns: 'Profile Name', 'Status', and 'Action'. The table lists various profiles like '11SSCSItest', '12344', 'abcSS', etc. The row for 'SS3' is highlighted with a blue background. At the bottom is a 'Home' button.

Profile Name	Status	Action
11SSCSItest	CREATED	Modify Delete
12344	CREATED	Modify Delete
abcSS	CREATED	Modify Delete
SS3	CREATED	Modify Delete
SS4	CREATED	Modify Delete
SSCSI	CREATED	Modify Delete
Supp1	CREATED	Modify Delete
test1111	CREATED	Modify Delete
testsupp	CREATED	Modify Delete
testsuppdemo	CREATED	Modify Delete

9.5 Translation Information Flag CSI

Translation Information Flag CSI helps indicating the VLR not to attempt performing any deflective actions on the serving numbers (DTN). This helps creating various Translation Information Flag CSI profiles, which in turn provide a wider flexibility in attributing the same to different customer subscription types and varied demands.

Translation Information Flag can either be set 'False' / 'True' accordingly. This can be attributed to a profile that would be created and defined with respect to the (configured) corresponding CAMEL Capability Handling (Phase).

Create / View

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Translation Information Flag CSI → Create / View

Initially, 'Translation Information Flag CSI' displays a grid showing the list of existing profiles that are configured and created. This list may include those profiles that are created and approved, created and rejected and also those created but still to be approved or rejected.

The screen below shows the list of various profiles pertaining to Translation Information Flag CSI in a grid.

Create / View			
Search		Select Column	Go
View Per Page 10 1 2			
Create			1 2
Profile Name	Status	Action	
32	CREATED	View	
5qq	CREATED	View	
ABCFlag	CREATED	View	
bluetest22	CREATED	View	
demo4545	CREATED	View	
Flag CSITest	CREATED	View	
Flag1	CREATED	View	
Flagtest	CREATED	View	
MNOq	CREATED	View	
TrasTest	CREATED	View	

Create		
1 2		
Home		

STEP	ACTION
1.	By default, the list of profiles (Translation Information Flag CSI) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (Translation Information Flag Profile)
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile (Translation Information Flag Profile) will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Translation Information Flag CSI' main page

Create

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Translation Information Flag CSI → Create / View

Create enables the user to create a new profile (Translation Information Flag CSI Profile) and attribute various values to constitute the same.

NOTE: Only three CAMEL Capability Handling phases (Phase2, Phase3 & Phase4) are relatable to **Translation Information Flag CSI** creation. However, the new proposed Flag creation shall be based on the chosen Capability Handling phase (Phase2/Phase3/Phase4).

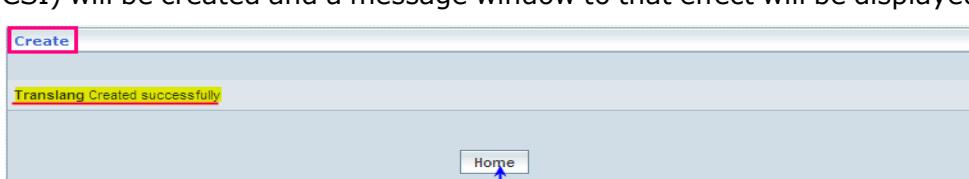
The screen below shows creating a new profile as Translation Information Flag CSI

Profile Name | Enter name of the profile attributing the same to Translation Information Flag

Translation Information Flag | True

CAMEL Capability Handling |

Submit Home

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the Translation Information Flag CSI profile in <Profile Name> field
3.	Select a value (False / True) of Translation Information Flag to attribute the same , from the drop-down list of the < Translation Information Flag> field * By default, the values (False / True) will be displayed as drop-down of the <Translation Information Flag> field
4.	Select a Phase (Phase2, Phase3 and Phase4) to specify the CAMEL capability handling from the drop-down list of the <CAMEL Capability Handling> field * By default, the list of phases will be dynamically displayed as drop-down list of the <CAMEL Capability Handling> field
5.	On clicking the Submit button, new profile (Translation Information Flag CSI) will be created and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the Translation Information Flag CSI profiles grid
6.	On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the Translation Information Flag CSI profiles grid

View

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Translation Information Flag CSI → Create / View

View enables the user to peruse details related to chosen profile (Translation Information Flag CSI).

On clicking the '**View**' link of a chosen 'Profile' (from the Translation Information Flag CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile – Translation Information Flag CSI.

The screen below displays the details related to chosen profile (Translation Information Flag CSI)

Profile Name	Translang
Translation Information Flag	True
CAMEL Capability Handling	Phase 2

Home

STEP	ACTION
1.	User can peruse details related to the chosen Translation Information Flag CSI Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'Translation Information Flag CSI' profiles grid

Searching for a specific Translation Information Flag CSI profiles (Record)

STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Translation Information Flag CSI Profiles (record) will be highlighted among the list of Translation Information Flag CSI Profiles records.

The screen below depicts fetching and displaying the give Translation Information Flag CSI Profiles record.

Create / View			
Search		Select Column	Go
		View Per Page 10	
Create			1 2
Profile Name	Status	Action	
32	CREATED	View	
5qq	CREATED	View	
ABCFlag	CREATED	View	
bluetest22	CREATED	View	
demo4545	CREATED	View	
Flag CSITest	CREATED	View	
Flag1	CREATED	View	
Flagtest	CREATED	View	
MNOq	CREATED	View	
TrasTest	CREATED	View	

Manage

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Translation Information Flag CSI → Manage

'Manage' helps the user modifying and deleting (managing) a chosen Translation Information Flag CSI profile that was created, but still to be approved

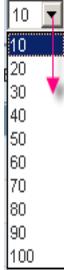
Initially, the screen displays the list of Translation Information Flag CSI profiles that were configured and created.

The screen below shows the list of various Translation Information Flag CSI (Profiles) configurations in a grid.

Manage				
Profile Name	Status	Action		
32	CREATED	Modify		Delete
5qq	CREATED	Modify		Delete
ABCFalg	CREATED	Modify		Delete
bluetest22	CREATED	Modify		Delete
demo4545	CREATED	Modify		Delete
Flag CSItest	CREATED	Modify		Delete
Flag1	CREATED	Modify		Delete
Flagtest	CREATED	Modify		Delete
MNOq	CREATED	Modify		Delete
TrasTest	CREATED	Modify		Delete

[Home](#)

1 2

STEP	ACTION
1.	By default, the list of profiles (Translation Information Flag CSI profiles) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
4.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
5.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Translation Information Flag CSI' main page

Modify

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Translation Information Flag CSI → Manage → Modify

Modify enables the user to modify / update the details related to an existing Translation Information Flag CSI profile.

On clicking the '**Modify**' link of a chosen 'Profile' (from the Translation Information Flag CSI Profiles List); corresponding information related to the profile will be displayed in a

separate screen enabling the user to modify / update details of the profile – Translation Information Flag CSI.

The screen below shows modifying / updating the details related to an existing Translation Information Flag CSI profile.

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (Translation Information Flag CSI) details will be updated accordingly and a message window to that effect will be displayed <p>On clicking the Home button of the message window, it directs the user back to the Translation Information Flag CSI profiles grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the Translation Information Flag CSI profiles grid

Delete

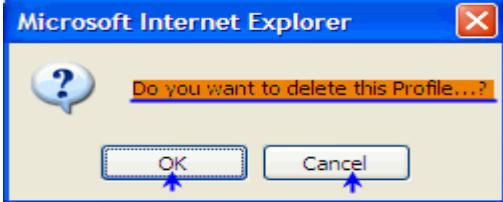
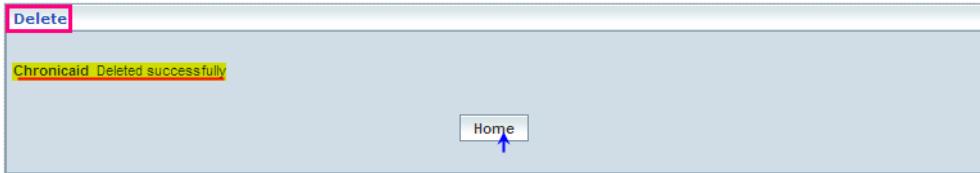
Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Translation Information Flag CSI → Manage → Delete

Delete enables the user to delete an existing Translation Information Flag CSI profile.

On clicking the '**Delete**' link of a chosen 'Profile' (from the Translation Information Flag CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile – Translation Information Flag CSI.

The screen below shows the details related to an existing Translation Information Flag CSI profile, which enables the user to delete the same (Profile).

Delete	
Profile Name	Translang
Translation Information Flag	False
CAMEL Capability Handling	Phase 2
Delete Home	

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (Translation Information Flag CSI)</p>  <p>On clicking the OK button of the alert window, the chosen Translation Information Flag CSI profile will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Translation Information Flag CSI' profiles grid</p>
3.	<p>On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Translation Information Flag CSI' profiles grid</p>

Searching for a specific Translation Information Flag CSI profiles (Record)



STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Translation Information Flag CSI Profiles (record) will be highlighted among the list of Translation Information Flag CSI Profiles records.

The screen below depicts fetching and displaying the give Translation Information Flag CSI Profiles record.

Profile Name	Status	Action
32	CREATED	Modify Delete
5qq	CREATED	Modify Delete
ABCAlg	CREATED	Modify Delete
bluetest22	CREATED	Modify Delete
demo4545	CREATED	Modify Delete
Flag CSItest	CREATED	Modify Delete
Flag1	CREATED	Modify Delete
Flagtest	CREATED	Modify Delete
MNOq	CREATED	Modify Delete
TrasTest	CREATED	Modify Delete

9.6 Mobility Management GSM CSI

Mobility Management GSM CSI enables the user to configure parameters related to CAMEL Subscription Information (CSI) in terms of GSM Visiting Location perspective and with respect to the defined MM codes. This helps creating various Mobility Management GSM CSI profiles, which in turn provide a wider flexibility in attributing the same to different customer subscription types and varied demands.

Create View

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Mobility Management GSM CSI → Create / View

Initially, 'Mobility Management GSM CSI' displays a grid showing the list of existing profiles that are configured and created. This list may include those profiles that are created and approved, created and rejected and also those created but still to be approved or rejected.

The screen below shows the list of various profiles pertaining to Mobility Management GSM CSI in a grid.

Create / View			
Search		Select Column	Go
View Per Page 10			
Create		1 2	
Profile Name	Status	Action	
AMpdS	CREATED	View	
App1	CREATED	View	
demowww	CREATED	View	
GSM1	CREATED	View	
GSMCSI	CREATED	View	
mm11	CREATED	View	
MMGSM1	CREATED	View	
MMTest	CREATED	View	
MMTestDemo	CREATED	View	
NEwPP1	CREATED	View	

[Create](#) 1 2

[Home](#)

STEP	ACTION
1.	By default, the list of profiles (Mobility Management GSM CSI) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (Mobility Management GSM CSI Profile)
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile (Mobility Management GSM CSI Profile) will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Mobility Management GSM CSI' main page

Create

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Mobility Management GSM CSI → Create / View

Create enables the user to create a new profile (Mobility Management GSM CSI Profile) and attribute various values to constitute the same.

NOTE: Only two CAMEL Capability Handling phases (Phase3 & Phase4) are relatable to **Mobility Management GSM CSI Profile** creation. However, the new proposed profile creation shall be based on the chosen CAMEL Capability Handling Phase (Phase3/Phase4).

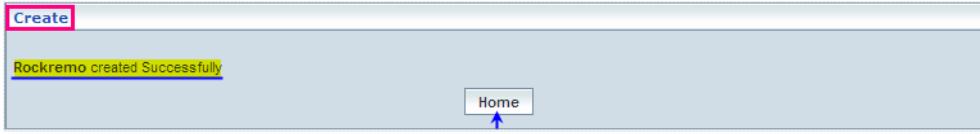
The screen below shows creating a new profile as Mobility Management GSM CSI.

Create

Indicates Mandatory

Profile Name	RockRemo <input type="text"/>	Enter name of the Profile
MM Codes	<input type="checkbox"/> IMSI-Attach <input checked="" type="checkbox"/> Location-update-in-same-VLR <input type="checkbox"/> Location-update-to-other-VLR <input type="checkbox"/> MS-initiated-IMSI-Detach <input type="checkbox"/> Network-initiated-IMSI-Detach	
SCF Name and Service Key	Pcm-12 <input type="button"/>	
CAMEL Capability Handling	Phase 3 <input type="button"/>	
<input type="button"/> Submit <input type="button"/> Home		

```
graph LR; L1[IMSI-Attach  
Location-update-in-same-VLR  
Location-update-to-other-VLR  
MS-initiated-IMSI-Detach  
Network-initiated-IMSI-Detach] --> L2[IMSI-Attach  
Location-update-in-same-VLR  
Location-update-to-other-VLR  
MS-initiated-IMSI-Detach]; L2 --> L1
```

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the Mobile Management CSI profile in <Profile Name> field
3.	The default list of MM Codes will be dynamically displayed in the text field, which is on to the left side of the screen Select the desired code from the list (of the left text field) and on clicking the right arrow button, the code (as a string) will be moved to the adjacent field User can enter the desired number of codes in a similar fashion However if the user wants to just remove any code (any time before creating the profile), selecting the code from the right text field and subsequently clicking the left arrow button removes the code
4.	Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the 'Mobile Management CSI' element, from the drop-down list of the <SCF Name and Service Key> field * By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field
5.	Select a Phase (Phase3 and Phase4) to specify the CAMEL capability handling from the drop-down list of the <CAMEL Capability Handling> field * By default, the list of phases will be dynamically displayed as drop-down list of the <CAMEL Capability Handling> field
6.	On clicking the Submit button, new profile (Mobility Management GSM CSI) will be created and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the Mobility Management GSM CSI profiles grid
7.	On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the Mobility Management GSM CSI profiles grid

View

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Mobility Management GSM CSI → Create / View

View enables the user to peruse details related to chosen profile (Mobility Management GSM CSI).

On clicking the '**View**' link of a chosen 'Profile' (from the Mobility Management GSM CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile – Mobility Management GSM CSI.

The screen below displays the details related to chosen profile (Mobility Management GSM CSI)

View	
Profile Name	RockRemo
MM Codes	Location-update-in-same-VLR, Location-update-to-other-VLR, IMSI-Attach, MS-initiated-IMSI-Detach
SCF Name and Service Key	Pcm-12
CAMEL Capability Handling	Phase 3
Home	

STEP	ACTION
1.	User can peruse details related to the chosen 'Mobility Management GSM CSI' Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'Mobility Management GSM CSI' profiles grid

Searching for a specific Mobility Management GSM CSI profiles (Record)

Search

Select Column

Select Column

Profile Name

Go

STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Mobility Management GSM CSI Profiles (record) will be highlighted among the list of Mobility Management GSM CSI Profiles records.

The screen below depicts fetching and displaying the give Mobility Management GSM CSI Profiles record.

Profile Name	Status	Action
AMpds	CREATED	View
App1	CREATED	View
demowww	CREATED	View
GSM1	CREATED	View
GSMCSI	CREATED	View
mm1	CREATED	View
MMGSM1	CREATED	View
MMTest	CREATED	View
MMTestDemo	CREATED	View
NEwPP1	CREATED	View

Manage

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Mobility Management GSM CSI → Manage

'Manage' helps the user modifying and deleting (managing) a chosen Mobility Management GSM CSI profile that was created, but still to be approved

Initially, the screen displays the list of Mobility Management GSM CSI profiles that were configured and created.

The screen below shows the list of various Mobility Management GSM CSI (Profiles) configurations in a grid.

Manage				
Search		Select Column	Go	View Per Page
1 2				
Profile Name		Status		Action
AMpdS		CREATED		Modify Delete
App1		CREATED		Modify Delete
demowwww		CREATED		Modify Delete
GSM1		CREATED		Modify Delete
GSMCSI		CREATED		Modify Delete
mm1		CREATED		Modify Delete
MMGSM1		CREATED		Modify Delete
MMTest		CREATED		Modify Delete
MMTestDemo		CREATED		Modify Delete
NIEvPP1		CREATED		Modify Delete

STEP	ACTION
1.	By default, the list of profiles (Mobility Management GSM CSI profiles) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
4.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
5.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Mobility Management GSM CSI' main page

Modify

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Mobility Management GSM CSI → Manage → Modify

Modify enables the user to modify / update the details related to an existing Mobility Management GSM CSI profile.

On clicking the '**Modify**' link of a chosen 'Profile' (from the Mobility Management GSM CSI Profiles List); corresponding information related to the profile will be displayed in a

separate screen enabling the user to modify / update details of the profile – Mobility Management GSM CSI.

The screen below shows modifying / updating the details related to an existing Mobility Management GSM CSI profile.

Profile Name RockRemo *Profile name will be dynamically displayed and cannot be modified*

MM Codes *Indicates Mandatory*

- IMSI-Attach
- Location-update-in-same-VLR
- Location-update-to-other-VLR
- MS-initiated-IMSI-Detach
- Network-initiated-IMSI-Detach

- Location-update-in-same-VLR
- Location-update-to-other-VLR
- IMSI-Attach
- MS-initiated-IMSI-Detach

SCF Name and Service Key Pcm-12

CAMEL Capability Handling Phase 3

Submit **Home**

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (Mobility Management GSM CSI) details will be updated accordingly and a message window to that effect will be displayed <p>Rockremo Modified successfully</p> <p>Home</p>
	On clicking the Home button of the message window, it directs the user back to the Mobility Management GSM CSI profiles grid
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the Translation Mobility Management GSM CSI profiles grid

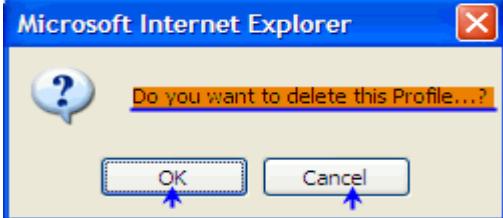
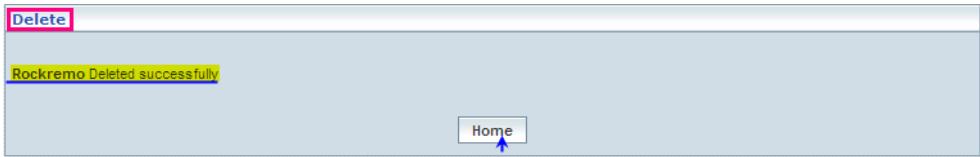
Delete

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Mobility Management GSM CSI → Manage → Delete

Delete enables the user to delete an existing Mobility Management GSM CSI profile.

On clicking the '**Delete**' link of a chosen 'Profile' (from the Mobility Management GSM CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile – Mobility Management GSM CSI. The screen below shows the details related to an existing Mobility Management GSM CSI profile, which enables the user to delete the same (Profile).

Delete	
Profile Name	RockRemo
MM Codes	Location-update-in-same-VLR, Location-update-to-other-VLR, IMSI-Attach, MS-initiated-IMSI-Detach
SCF Name and Service Key	Pcm-12
CAMEL Capability Handling	Phase 4
Delete	Home

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (Mobility Management GSM CSI)</p>  <p>On clicking the OK button of the alert window, the chosen Mobility Management GSM CSI profile will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the Mobility Management GSM CSI profiles grid</p>
3.	<p>On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the Mobility Management GSM CSI profiles grid</p>

Searching for a specific Mobility Management GSM CSI profiles (Record)



STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Mobility Management GSM CSI Profiles (record) will be highlighted among the list of Mobility Management GSM CSI Profiles records.

The screen below depicts fetching and displaying the give Mobility Management GSM CSI Profiles record.

Profile Name	Status	Action
AMpdS	CREATED	Modify Delete
App1	CREATED	Modify Delete
demowww	CREATED	Modify Delete
GSM1	CREATED	Modify Delete
GSMCSI	CREATED	Modify Delete
mm11	CREATED	Modify Delete
MMGSM1	CREATED	Modify Delete
MMTest	CREATED	Modify Delete
MMTestDemo	CREATED	Modify Delete
NEwPP1	CREATED	Modify Delete

9.7 Mobile Originating SMS CSI

Mobile Originating SMS CSI data defines the contents of the MO SMS (Short Message Service) CAMEL subscription information. The MO SMS CAMEL Subscription Information helps performing the inter-work between

- gsmSCF and gsmSSF for CAMEL control of **circuit switched** MO SMS
- gsmSCF and gprsSSF, for CAMEL control of **packet switched** MO SMS

This also helps creating various Mobile Originating SMS CSI profiles, which in turn provide a wider flexibility in attributing the same to different customer subscription types and varied demands in the space of SMS service.

MO-SMS-CSI consists of the following data items:

- *DP Value*: The DP value identifies the DP in the MO SMS State Model, where service triggering may take place; for MO-SMS-CSI, the only allowed DP value is *SMS- Collected-Info*
- *gsmSCF Name*: The gsmSCF Name is the address (E164 number) of the gsmSCF where the MO SMS CAMEL Service associated with this TDP locates the right subscriber
- *Service Key*: The service Key identifies the service logic that shall be applied to the gsmSCF
- *Default SMS handling*: The default SMS handling indicates whether the MO SMS submission request shall be rejected or continued in case of error during the dialogue between the gsmSSF and gsmSCF or between the gprsSSF and gsmSCF
- *CAMEL Capability Handling*: CAMEL Capability Handling indicates the CAMEL Phase that is required for the MO SMS service. The CAMEL Capability Handling for MO-SMS-CSI shall have the value CAMEL phase 3
- *CSI state*: indicates whether the MO-SMS-CSI is active or not
- *Notification flag*: Indicates whether the change of the SMS-CSI shall invoke a notification on change of Subscriber Data or not

Create / View

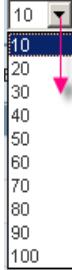
Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → Mobile Originating SMS CSI → Create / View

Initially, 'Mobile Originating SMS CSI' displays a grid showing the list of existing profiles that are configured and created. This list may include those profiles that are created and approved, created and rejected and also those created but still to be approved or rejected.

The screen below shows the list of various Mobile Originating SMS CSI configurations in a grid.

Create / View			
Search <input type="button" value="Select Column"/> <input type="text"/> <input type="button" value="Go"/>		View Per Page <input type="button" value="10"/>	
<input type="button" value="Create"/>		1 2	
Profile Name	Status	Action	
2	CREATED	<input type="button" value="View"/>	
23432	CREATED	<input type="button" value="View"/>	
33	CREATED	<input type="button" value="View"/>	
DemoTest	CREATED	<input type="button" value="View"/>	
MOSMS1	CREATED	<input type="button" value="View"/>	
MOSMSCSI	CREATED	<input type="button" value="View"/>	
MOSMSCSITest	CREATED	<input type="button" value="View"/>	
Test1	CREATED	<input type="button" value="View"/>	
Testone11	CREATED	<input type="button" value="View"/>	
Thu3	CREATED	<input type="button" value="View"/>	

1 2

STEP	ACTION
1.	By default, the list of profiles (Mobile Originating SMS CSI) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (Mobile Originating SMS CSI Profile)
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Mobile Originating SMS CSI' main page

Create

Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → Mobile Originating SMS CSI → Create / View

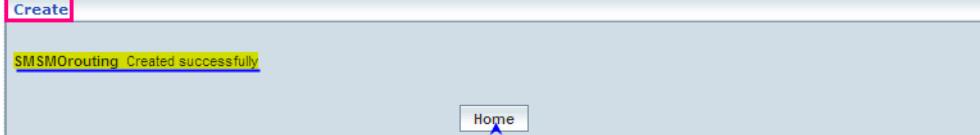
Create enables the user to create a new profile (Mobile Originating SMS CSI Profile) and attribute various values to constitute the same.

The screen below shows creating a new profile as Mobile Originating SMS CSI

Create

Indicates Mandatory

Profile Name	<input type="text" value="SMSMORouting"/> <small>Enter profile name attributing to Mobile Originating SMS CSI</small>
SMS Collected Info	
Default SMS Handling	<input type="text" value="Continue Call"/>
SCF Name and Service Key	<input type="text" value="Pcm-12"/>
CAMEL Capability Handling	<input type="text" value="Phase 3"/>
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the profile in <Profile Name> field
3.	SMS Collected Info Block: Select a default SMS handling element (Continue Call or Release Call) to specify a default setting for the SMS handling, from the drop-down list of the <Default SMS Handling> field * By default, the list of SMS handling elements (Continue Call / Release Call) will be dynamically displayed as drop-down list of the <Default SMS Handling> field
4.	Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the 'Mobile Originating SMS CSI' element, from the drop-down list of the <SCF Name and Service Key> field * By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field
5.	Select a CAMEL Capability Handling Phase (Phase3 and Phase4) to specify the CAMEL capability handling from the drop-down list of the <CAMEL Capability Handling> field * By default, the list of phases will be dynamically displayed as drop-down list of the <CAMEL Capability Handling> field
6.	On clicking the Submit button, new profile (Mobile Originating SMS CSI) will be created and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the Mobile Originating SMS CSI profiles grid
7.	On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the Mobile Originating SMS CSI profiles grid

View

Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → Mobile Originating SMS CSI → Create / View

View enables the user to peruse details related to chosen profile (Mobile Originating SMS CSI).

On clicking the '**View**' link of a chosen 'Profile' (from the Mobile Originating SMS CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile – Mobile Originating SMS CSI.

The screen below displays the details related to chosen profile (Mobile Originating SMS CSI)

Profile Name	SMSMORouting
SMS Collected Info	
Default SMS Handling	Continue Call
SCF Name and Service Key	Pcm-12
CAMEL Capability Handling	Phase 3
<input type="button" value="Home"/>	

STEP	ACTION
1.	User can peruse details related to the chosen 'Mobile Originating SMS CSI' Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'Mobile Originating SMS CSI' profiles grid

Searching for a specific Mobile Originating SMS CSI profiles (Record)

Search

STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Mobile Originating SMS CSI Profiles (record) will be highlighted among the list of Mobile Originating SMS CSI Profiles records.

The screen below depicts fetching and displaying the give Mobile Originating SMS CSI Profiles record.

Profile Name	Status	Action
2	CREATED	View
23432	CREATED	View
33	CREATED	View
DemoTest	CREATED	View
MOSMS1	CREATED	View
MOSMSCSI	CREATED	View
MOSMSCSITest	CREATED	View
Test1	CREATED	View
Testone11	CREATED	View
Thu3	CREATED	View

Manage

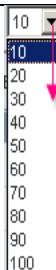
Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → Mobile Originating SMS CSI → Manage

'Manage' helps the user modifying and deleting (managing) a chosen Mobile Originating SMS CSI profile that was created, but still to be approved.

Initially, the screen displays the list of Mobile Originating SMS CSI profiles that were configured and created.

The screen below shows the list of various Mobile Originating SMS CSI (Profiles) configurations in a grid.

Manage				
Profile Name	Status	Action	View Per Page	
2	CREATED	Modify Delete	1	2
23432	CREATED	Sort Ascending	Sort Descending	Modify Delete
33	CREATED	Modify	Modify Delete	
DemoTest	CREATED	Modify	Modify Delete	
MOSMS1	CREATED	Modify	Modify Delete	
MOSMSCSI	CREATED	Modify	Modify Delete	
MOSMSCSITest	CREATED	Modify	Modify Delete	
Test1	CREATED	Modify	Modify Delete	
Testone11	CREATED	Modify	Modify Delete	
Thu3	CREATED	Modify	Modify Delete	

STEP	ACTION
1.	By default, the list of profiles will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
5.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Mobile Originating SMS CSI' main page

Modify

Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → Mobile Originating SMS CSI → Manage → Modify

Modify enables the user to modify / update the details related to an existing Mobile Originating SMS CSI profile.

On clicking the '**Modify**' link of a chosen 'Profile' (from the Mobile Originating SMS CSI Profiles List); corresponding information related to the profile will be displayed in a

separate screen enabling the user to modify / update details of the profile – Mobile Originating SMS CSI.

The screen below shows modifying / updating the details related to an existing Mobile Originating SMS CSI profile.

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (Mobile Originating SMS CSI) details will be updated accordingly and a message window to that effect will be displayed <p>On clicking the Home button of the message window, it directs the user back to the Mobile Originating SMS CSI profiles grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the Mobile Originating SMS CSI profiles grid

Delete

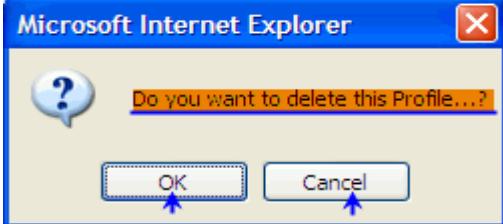
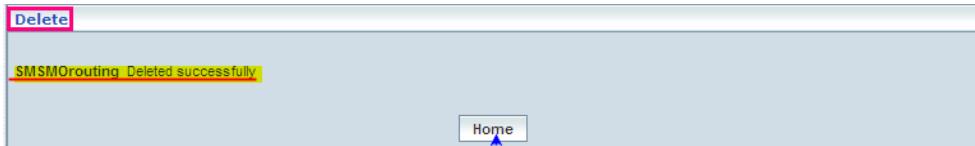
Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → Mobile Originating SMS CSI → Manage → Delete

Delete enables the user to delete an existing Mobile Originating SMS CSI profile.

On clicking the '**Delete**' link of a chosen 'Profile' (from the Mobile Originating SMS CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile – Mobile Originating SMS CSI.

The screen below shows the details related to an existing Mobile Originating SMS CSI profile, which enables the user to delete the same (Profile).

Delete	
Profile Name SMSMORouting	
SMS Collected Info	
Default SMS Handling	Continue Call
SCF Name and Service Key	Pcm-12
CAMEL Capability Handling	Phase 4
Delete	Home

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (Mobile Originating SMS CSI)</p>  <p>On clicking the OK button of the alert window, the chosen Mobile Originating SMS CSI profile will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Mobile Originating SMS CSI' profiles grid</p>
3.	<p>On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Mobile Originating SMS CSI' profiles grid</p>

Searching for a specific Mobile Originating SMS CSI profiles (Record)



STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Mobile Originating SMS CSI Profiles (record) will be highlighted among the list of Mobile Originating SMS CSI Profiles records.

The screen below depicts fetching and displaying the give Mobile Originating SMS CSI Profiles record.

Profile Name	Status	Action
2	CREATED	Modify Delete
23432	CREATED	Modify Delete
33	CREATED	Modify Delete
DemoTest	CREATED	Modify Delete
MOSMS1	CREATED	Modify Delete
MOSMSCSI	CREATED	Modify Delete
MOSMSCSITest	CREATED	Modify Delete
Test1	CREATED	Modify Delete
Testone11	CREATED	Modify Delete
Thu3	CREATED	Modify Delete

9.8 Mobile Terminating SMS CSI

Mobile Terminating SMS CSI data defines the contents of the MT SMS (Short Message Service) CAMEL subscription information. The MT SMS CAMEL Subscription Information helps performing the inter-work between

- gsmSCF and gsmSSF for CAMEL control of **circuit switched** MT SMS
- gsmSCF and gprsSSF, for CAMEL control of **packet switched** MTSMS

This also helps creating various Mobile Terminating SMS CSI profiles, which in turn provide a wider flexibility in attributing the same to different customer subscription types and varied demands in the space of SMS service.

MT-SMS-CSI consists of the following data items:

- *DP Value*: The DP value identifies the DP in the MT SMS State Model, where service triggering may take place; for MT-SMS-CSI, the only allowed DP value is *SMS-Delivery-Request*
- *gsmSCF Name*: The gsmSCF Name is the address (E164 number) of the gsmSCF where the MT SMS CAMEL Service associated with this TDP locates the right subscriber
- *Service Key*: The service Key identifies the service logic that shall be applied to the gsmSCF
- *Default SMS handling*: The default SMS handling indicates whether the MT SMS submission request shall be rejected or continued in case of error during the dialogue between the gsmSSF and gsmSCF or between the gprsSSF and gsmSCF
- *DP criterion*: The DP criterion indicates as to which criterion the gsmSSF shall access the gsmSCF. A DP criterion is associated with each TDP (Trigger Detection Point). For MT-SMS the DP criterion is the TDPU type. The criterion may be absent.

Create / View

[Home Location Register](#) → [CAMEL Subscriptions](#) → [GPRS CAMEL Subscriptions](#) → [Mobile Terminating SMS CSI](#) → [Create / View](#)

Initially, 'Mobile Terminating SMS CSI' displays a grid showing the list of existing profiles that are configured and created. This list may include those profiles that are created and approved, created and rejected and also those created but still to be approved or rejected.

The screen below shows the list of various Mobile Terminating SMS CSI configurations in a grid.

Create / View			
Search		Select Column	Go
View Per Page 10			
Create			1 2
Profile Name	Status	Action	
234323	CREATED	View	
25	CREATED	View	
2566	CREATED	View	
25tt	CREATED	View	
Demo33	CREATED	View	
MOSMS Demo	CREATED	View	
MOSMS1ttt	CREATED	View	
MTSMS	CREATED	View	
MTSMS Test11	CREATED	View	
MTSMScr	CREATED	View	

[Create](#)

1 2

[Home](#)

STEP	ACTION
1.	By default, the list of profiles (Mobile Terminating SMS CSI) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (Mobile Terminating SMS CSI Profile)
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Mobile Terminating SMS CSI' main page

Create

Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → Mobile Terminating SMS CSI → Create / View

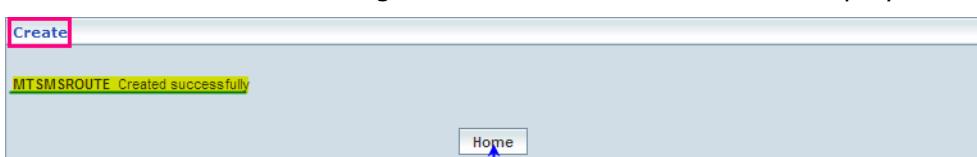
Create enables the user to create a new profile (Mobile Terminating SMS CSI Profile) and attribute various values to constitute the same.

The screen below shows creating a new profile as Mobile Terminating SMS CSI

Create

Indicates Mandatory

Profile Name	MRSMSROUTE	Enter profile name attributing to MobileTerminatiing SMS CSI
SMS-Delivery Request		
Default SMS Handling	Continue Call	
DPCriteria	Type2	
SCF Name and Service Key	Pcm-12	
CAMEL Capability Handling	Phase 3	
<input type="button" value="Submit"/> <input type="button" value="Home"/>		

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the profile in <Profile Name> field
3.	<p>SMS Delivery Request Block:</p> <p>Select a default SMS handling element (Continue Call or Release Call) to specify a default setting for the SMS handling, from the drop-down list of the <Default SMS Handling> field</p> <p>* By default, the list of SMS handling elements (Continue Call / Release Call) will be dynamically displayed as drop-down list of the <Default SMS Handling> field</p>
4.	<p>Select a DP criterion (Type1 or Type2) to specify a default DP criterion, from the drop-down list of the <DP Criteria> field</p> <p>* By default, the list of DP criteria (Type1 / Type2) will be dynamically displayed as drop-down list of the <DP criteria> field</p>
5.	<p>Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the 'Mobile Terminating SMS CSI' element, from the drop-down list of the <SCF Name and Service Key> field</p> <p>* By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field</p>
6.	<p>Select a CAMEL Capability Handling Phase (Phase3 and Phase4) to specify the CAMEL capability handling from the drop-down list of the <CAMEL Capability Handling> field</p> <p>* By default, the list of phases will be dynamically displayed as drop-down list of the <CAMEL Capability Handling> field</p>
7.	<p>On clicking the Submit button, new profile (Mobile Terminating SMS CSI) will be created and a message window to that effect will be displayed</p>  <p>On clicking the Home button of the message window, it directs the user back to the 'Mobile Terminating SMS CSI' profiles grid</p>
8.	On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the 'Mobile Terminating SMS CSI' profiles grid

View

Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → Mobile Terminating SMS CSI → Create / View

View enables the user to peruse details related to chosen profile (Mobile Terminating SMS CSI).

On clicking the '**View**' link of a chosen 'Profile' (from the Mobile Terminating SMS CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile – Mobile Terminating SMS CSI.

The screen below displays the details related to chosen profile (Mobile Terminating SMS CSI)

SMS-Delivery Request	
Profile Name	4thMTSMSCSI
Default SMS Handling	Continue Call
DPCriteria	-
SCF Name and Service Key	Pcm-12
CAMEL Capability Handling	Phase 3
Home	

STEP	ACTION
1.	User can peruse details related to the chosen Mobile Terminating SMS CSI Profile
2.	On clicking the Home button at the bottom of the 'View Screen', it redirects the user to the 'Mobile Terminating SMS CSI' profiles grid

Searching for a specific Mobile Terminating SMS CSI profiles (Record)

Search

Select Column

Select Column

Profile Name

Go

STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Mobile Terminating SMS CSI Profiles (record) will be highlighted among the list of Mobile Terminating SMS CSI Profiles records.

The screen below depicts fetching and displaying the give Mobile Terminating SMS CSI Profiles record.

Profile Name	Status	Action
234323	CREATED	View
25	CREATED	View
2566	CREATED	View
25ttt	CREATED	View
Demo33	CREATED	View
MOSMS Demo	CREATED	View
MOSMS1ttt	CREATED	View
MTSMS	CREATED	View
MTSMS Test11	CREATED	View
MTSMScr	CREATED	View

Manage

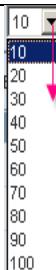
Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → Mobile Terminating SMS CSI → Manage

'Manage' helps the user modifying and deleting (managing) a chosen Mobile Terminating SMS CSI profile that was created, but still to be approved.

Initially, the screen displays the list of Mobile Terminating SMS CSI profiles that were configured and created.

The screen below shows the list of various Mobile Terminating SMS CSI (Profiles) configurations in a grid.

Manage				
Profile Name	Status	Action		
234323	CREATED	Modify		Delete
25	CREATED	Sort Descending	Modify	Delete
2566	CREATED	Modify		Delete
25ttt	CREATED	Modify		Delete
Demo33	CREATED	Modify		Delete
MOSMS Demo	CREATED	Modify		Delete
MOSMS1ttt	CREATED	Modify		Delete
MTSMS	CREATED	Modify		Delete
MTSMS Test11	CREATED	Modify		Delete
MTSMScr	CREATED	Modify		Delete

STEP	ACTION
1.	By default, the list of profiles will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
4.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
5.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Mobile Terminating SMS CSI' main page

Modify

Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → Mobile Terminating SMS CSI → Manage → Modify

Modify enables the user to modify / update the details related to an existing Mobile Terminating SMS CSI profile.

On clicking the '**Modify**' link of a chosen 'Profile' (from the Mobile Terminating SMS CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile – Mobile Terminating SMS CSI.

The screen below shows modifying / updating the details related to an existing Mobile Terminating SMS CSI profile.

Profile Name: MTSMSROUTE Profile name will be dynamically displayed and cannot be modified

SMS-Delivery Request:

- Default SMS Handling:** Continue Call
- DPCriteria:** Type2
- SCF Name and Service Key:** PcmKey-13
- CAMEL Capability Handling:** Phase 4

Buttons: Submit, Home

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (Mobile Terminating SMS CSI) details will be updated accordingly and a message window to that effect will be displayed On clicking the Home button of the message window, it directs the user back to the 'Mobile Terminating SMS CSI' profiles grid
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the 'Mobile Terminating SMS CSI' profiles grid

Delete

Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → Mobile Terminating SMS CSI → Manage → Delete

Delete enables the user to delete an existing Mobile Terminating SMS CSI profile.

On clicking the '**Delete**' link of a chosen 'Profile' (from the Mobile Terminating SMS CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the – Mobile Terminating SMS CSI.

The screen below shows the details related to an existing Mobile Terminating SMS CSI profile, which enables the user to delete the same (Profile).

Delete	
Profile Name	MTSMSROUTE
SMS-Delivery Request	
Default SMS Handling	Continue Call
DPCriteria	Type2
SCF Name and Service Key	PcmKey-13
CAMEL Capability Handling	Phase 4
<input type="button" value="Delete"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (Mobile Terminating SMS CSI)</p> <p>On clicking the OK button of the alert window, the chosen Mobile Terminating SMS CSI profile will be deleted and a message window to that effect will be displayed</p> <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the Mobile Terminating SMS CSI profiles grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the Mobile Terminating SMS CSI profiles grid

[Searching for a specific Mobile Terminating SMS CSI profiles \(Record\)](#)



STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Mobile Terminating SMS CSI Profiles (record) will be highlighted among the list of Mobile Terminating SMS CSI Profiles records.

The screen below depicts fetching and displaying the give Mobile Terminating SMS CSI Profiles record.

Manage					
Search		View Per Page			
Profile Name	Status	Action			
234323	CREATED	Modify		Delete	
25	CREATED	Modify		Delete	
2566	CREATED	Modify		Delete	
25ttt	CREATED	Modify		Delete	
Demo33	CREATED	Modify		Delete	
MOSMS Demo	CREATED	Modify		Delete	
MOSMS1tt	CREATED	Modify		Delete	
MTSMS	CREATED	Modify	 	Delete	
MTSMS Test11	CREATED	Modify		Delete	
MTSMSscr	CREATED	Modify		Delete	
Home					

9.9 Dialed Service CSI

Dialed Service CSI data defines the contents of the dialed service CAMEL subscription information that is employed to inter-work with the GSMSCF for MO and MT call. This helps creating various Dialed Service CSI profiles, which in turn provide a wider flexibility in attributing the same to different customer subscription types and varied demands.

Create / View

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Dialed Service CSI → Create / View

Initially, 'Dialed Service CSI' displays a grid showing the list of existing profiles that are configured and created. This list may include those profiles that are created and approved, created and rejected and also those created but still to be approved or rejected.

The screen below shows the list of various profiles pertaining to Dialed Service CSI in a grid.

Create / View			
Search <input type="button" value="Select Column"/> <input type="text"/> <input type="button" value="Go"/>		View Per Page <input type="button" value="10"/> <input type="button" value="▼"/>	
<input type="button" value="Create"/>		1 2	
Profile Name	Status	Action	
12	CREATED	<input type="button" value="View"/>	
2343236	CREATED	<input type="button" value="View"/>	
244	CREATED	<input type="button" value="View"/>	
Createfdf	CREATED	<input type="button" value="View"/>	
dcsi_Rajesh	APPROVED	<input type="button" value="View"/>	
DemoDS	CREATED	<input type="button" value="View"/>	
DS1	CREATED	<input type="button" value="View"/>	
DSCSI	CREATED	<input type="button" value="View"/>	
DSCSITest	CREATED	<input type="button" value="View"/>	
TestDialed Service CSI	CREATED	<input type="button" value="View"/>	

STEP	ACTION

1.	By default, the list of profiles (Dialed Service CSI) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (Dialed Service CSI Profile)
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile (Dialed Service CSI Profile) will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Dialed Service CSI' main page

Create

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Dialed Service CSI → Create / View

Create enables the user to create a new profile (Dialed Service CSI Profile) and attribute various values to constitute the same.

NOTE: Only two CAMEL Capability Handling phases (Phase3 & Phase4) are relatable to **Dialed Service CSI Profile** creation. However, the new proposed profile creation shall be based on the chosen CAMEL Capability Handling phase (Phase3/Phase4).

The screen below shows creating a new profile as Dialed Service CSI.

Profile Name | Dicalls

Dialled Number | 9869056751

Default Call Handling | Continue Call

SCF Name and Service Key | Pcm-12

CAMEL Capability Handling | Phase 3

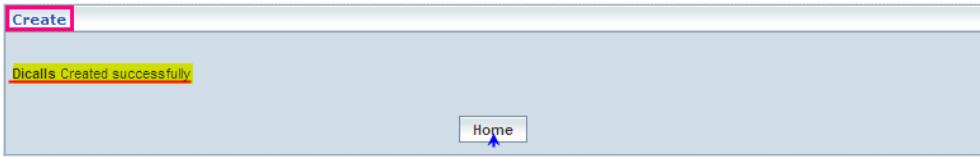
Indicates Mandatory

Composition of 'Analyzed Info' element

9878056788-Continue Call-Pcm-12
9878056776-Release Call-PcmKey-13
9878056755-Continue Call-Pcm-12
9866056755-Release Call-PcmKey-13
9866056758-Continue Call-Pcm-12
9869056758-Release Call-PcmKey-13
9869056751-Continue Call-Pcm-12

Submit Home

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the Dialed Service CSI profile in <Profile Name> field
3.	Analyzed Block: Enter a dialed number in the <Dialed Number> field
4.	Select a Default Call Handling element (Continue Call or Release Call) to specify a default setting for the call handling, from the drop-down list of the <Default Call Handling> field * By default, the list of call handling elements (Continue Call / Release Call) will be dynamically displayed as drop-down list of the <Default Call Handling> field
5.	Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the 'Term Attempt Authorized' element, from the drop-down list of the <SCF Name and Service Key> field * By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field
6.	Clicking the right-arrow button, the composition (as a string) will be moved to the adjacent field User can enter the desired number of combinations that correspond to different & unique dialed numbers However if the user wants to just remove any combination (any time before creating the profile), selecting the mix from the right text field and subsequently clicking the left-arrow button removes the mix
7.	Select a CAMEL Capability Handling Phase (Phase3 and Phase4) to specify the CAMEL capability handling from the drop-down list of the <CAMEL Capability Handling> field * By default, the list of phases will be dynamically displayed as drop-down list of the <CAMEL Capability Handling> field

8.	<p>On clicking the Submit button, new profile (Dialed Service CSI) will be created and a message window to that effect will be displayed</p>  <p>On clicking the Home button of the message window, it directs the user back to the 'Dialed Service CSI' profiles grid</p>
9.	<p>On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the 'Dialed Service CSI' profiles grid</p>

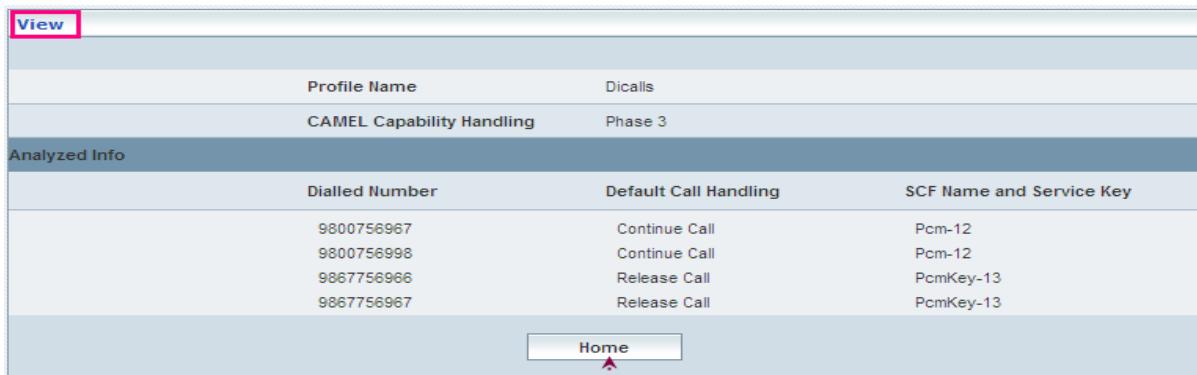
View

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Dialed Service CSI → Create / View

View enables the user to peruse details related to chosen profile (Dialed Service CSI).

On clicking the '**View**' link of a chosen 'Profile' (from the Dialed Service CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile – Dialed Service CSI Profile.

The screen below displays the details related to chosen profile (Dialed Service CSI).



Profile Name			
Dicalls			
CAMEL Capability Handling			
Phase 3			
Analyzed Info			
Dialled Number	Default Call Handling	SCF Name and Service Key	
9800756967	Continue Call	Pcm-12	
9800756998	Continue Call	Pcm-12	
9867756966	Release Call	PcmKey-13	
9867756967	Release Call	PcmKey-13	

STEP	ACTION
1.	User can peruse details related to the chosen Dialed Service CSI Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'Dialed Service CSI' profiles grid

Searching for a specific Dialed Service CSI profiles (Record)



STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Dialed Service CSI Profiles (record) will be highlighted among the list of Dialed Service CSI Profiles records.

The screen below depicts fetching and displaying the give Dialed Service CSI Profiles record.

Profile Name	Status	Action
12	CREATED	View
2343236	CREATED	View
244	CREATED	View
Createfdf	CREATED	View
dcsi_Rajesh	APPROVED	View
DemoDS	CREATED	View
DS1	CREATED	View
DSCSI	CREATED	View
DSCSITest	CREATED	View
TestDialed Service CSI	CREATED	View

Manage

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Dialed Service CSI → Manage

'Manage' helps the user modifying and deleting (managing) a chosen Dialed Service CSI profile that was created, but still to be approved. Initially, the screen displays the list of Dialed Service CSI profiles that were configured and created.

The screen below shows the list of various Dialed Service CSI (Profiles) configurations in a grid.

Manage					
Search		Select Column	Go	View Per Page 10	
Profile Name	Status	Action			
12	CREATED	Modify			Delete
2343236	CREATED	Sort Ascending	Sort Descending	Modify	Delete
244	CREATED			Modify	Delete
Createddff	CREATED			Modify	Delete
DemoDS	CREATED			Modify	Delete
DialledServiceCSItest	CREATED			Modify	Delete
DS1	CREATED			Modify	Delete
DSCSI	CREATED			Modify	Delete
DSCSITest	CREATED			Modify	Delete
TestDialled Service CSI	CREATED			Modify	Delete

STEP	ACTION
1.	By default, the list of profiles (Dialed Service CSI profiles) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
4.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
5.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Dialed Service CSI' main page

Modify

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Dialed Service CSI → Manage → Modify

Modify enables the user to modify / update the details related to an existing Dialed Service CSI profile.

On clicking the '**Modify**' link of a chosen 'Profile' (from the Dialed Service CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the – Dialed Service CSI Profile.

The screen below shows modifying / updating the details related to an existing Dialed Service CSI profile.

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (Dialed Service CSI) details will be updated accordingly and a message window to that effect will be displayed
	On clicking the Home button of the message window, it directs the user back to the Dialed Service CSI profiles grid
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the Translation Dialed Service CSI profiles grid

Delete

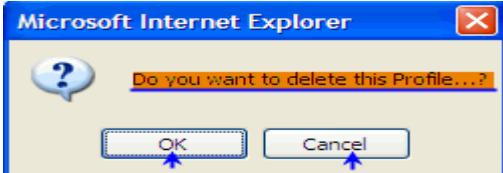
Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → Dialed Service CSI → Manage → Delete

Delete enables the user to delete an existing Dialed Service CSI profile.

On clicking the '**Delete**' link of a chosen 'Profile' (from the Dialed Service CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the – Dialed Service CSI Profile.

The screen below shows the details related to an existing Dialed Service CSI profile, which enables the user to delete the same (Profile).

Delete		
Profile Name	Dicalls	
CAMEL Capability Handling	Phase 3	
Analyzed Info		
Dialled Number	Default Call Handling	SCF Name and Service Key
9800756967	Continue Call	Pcm-12
9800756998	Continue Call	Pcm-12
9867756966	Release Call	PcmKey-13
9867756967	Release Call	PcmKey-13
<input type="button" value="Delete"/> <input type="button" value="Home"/>		

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete button at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (Dialed Service CSI)</p>  <p>On clicking the OK button of the alert window, the chosen Dialed Service CSI profile will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the Dialed Service CSI profiles grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the Dialed Service CSI profiles grid

Searching for a specific Dialed Service CSI profiles (Record)



STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Dialed Service CSI Profiles (record) will be highlighted among the list of Dialed Service CSI Profiles records.

The screen below depicts fetching and displaying the give Dialed Service CSI Profiles record.

Profile Name	Status	Action
12	CREATED	Modify Delete
2343236	CREATED	Modify Delete
244	CREATED	Modify Delete
Createfdff	CREATED	Modify Delete
Demods	CREATED	Modify Delete
DialledServiceCSITest	CREATED	Modify Delete
DS1	CREATED	Modify Delete
DSCSI	CREATED	Modify Delete
DSCSITest	CREATED	Modify Delete
TestDialed Service CSI	CREATED	Modify Delete

9.10 USSD CSI

USSD CSI data comprises the receipt requests from the MS (Mobile Station) and helps the USSD tracking those requests through the information related to the corresponding service codes and GSM SCF Name and SCF address. Thus it consists of a list:

- Service code: the service code that defines a specific application in the GSM SCF
- GSM SCF Name and SCF Address: the GSM SCF Name and SCF address (E.164 number), which the USSD application identifies the subscriber

This also helps creating various USSD CSI profiles, which in turn provide a wider flexibility in attributing the same to different customer subscription types and varied demands.

Create / View

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → USSD CSI
→ Create / View

Initially, 'USSD CSI' displays a grid showing the list of existing profiles that are configured and created. This list may include those profiles that are created and approved, created and rejected and also those created but still to be approved or rejected.

The screen below shows the list of various profiles pertaining to USSD CSI in a grid.

Create / View			
Search <input type="button" value="Select Column"/> <input type="text"/> <input type="button" value="Go"/>		View Per Page <input type="button" value="10"/> <input type="button" value="12"/>	
<input type="button" value="Create"/>		1 2	
Profile Name	Status	Action	
43432	CREATED	<input type="button" value="View"/>	
CC33	CREATED	<input type="button" value="View"/>	
CreateUSSDCSI	CREATED	<input type="button" value="View"/>	
CSM	CREATED	<input type="button" value="View"/>	
MobilyUCSI	APPROVED	<input type="button" value="View"/>	
TestUSSDCSI	CREATED	<input type="button" value="View"/>	
ucsi_Rajesh	APPROVED	<input type="button" value="View"/>	
USSD	CREATED	<input type="button" value="View"/>	
USSDCSI1	CREATED	<input type="button" value="View"/>	
USSDCSI53	CREATED	<input type="button" value="View"/>	

STEP	ACTION

1.	By default, the list of profiles (USSD CSI) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (USSD CSI Profile)
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile (USSD CSI Profile) will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'USSD CSI' main page

Create

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → USSD CSI
 → Create / View

Create enables the user to create a new profile (USSD CSI Profile) and attribute various values to constitute the same.

The screen below shows creating a new profile as USSD CSI.

Create

Profile Name | Taruskey Enter name of the Profile attributing to USSD CSI

Service Code | 5678

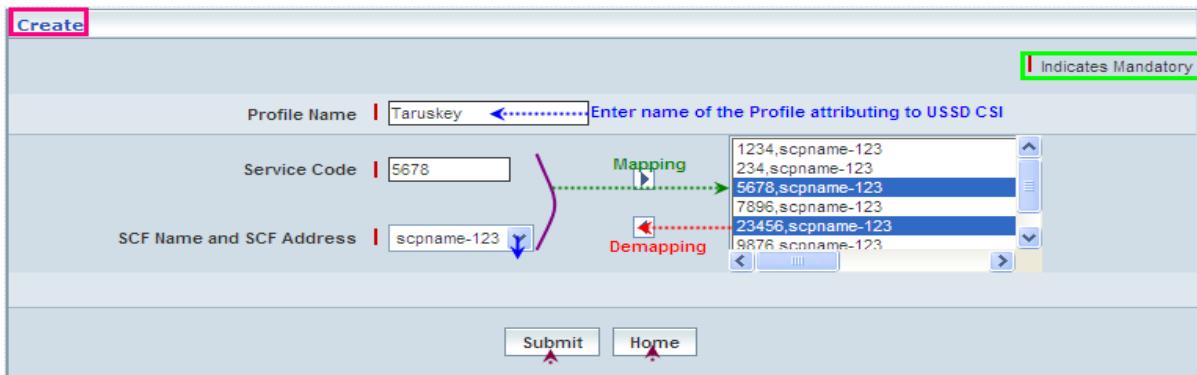
SCF Name and SCF Address | scpname-123

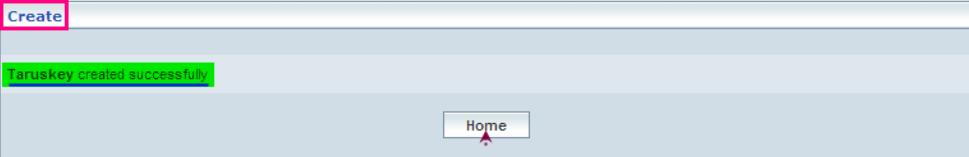
Mapping  Demapping 

Indicates Mandatory

1234,scpname-123
234,scpname-123
5678,scpname-123
7896,scpname-123
23456,scpname-123
9876,scpname-123

Submit Home



STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the USSD CSI profile in <Profile Name> field
3.	Enter a service code in <Service Code> field, attributing to the proposed profile NOTE: The <Service Code> field should be numeric value of 10 digits only.
4.	Select an address representing the SCF Name and SCF Address relating to the proposed profile from the drop-down list of the < SCF Name and SCF Address> field The list of gsmSCF addresses: represent those addresses to which the notifications on Change of Subscriber Data are to be sent * By default, the list of SCF Name and SCF Address will be dynamically displayed as drop-down list of the <SCF Name and SCF Address> field
5.	Clicking the right-arrow button, the composition (as a string) will be moved to the adjacent field User can enter the desired number of combinations that correspond to different & unique service codes However if the user wants to just remove any combination (any time before creating the profile), selecting the mix from the right text field and subsequently clicking the left-arrow button removes the mix
6.	On clicking the Submit button, new profile (USSD CSI) will be created and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the USSD CSI profiles grid
7.	On clicking the Create button of the 'Create' screen (before creating any new profile), it directs the user to the USSD CSI profiles grid

View

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions USSD CSI
→ Create / View

View enables the user to peruse details related to chosen profile (USSD CSI).

On clicking the '**View**' link of a chosen 'Profile' (from the USSD CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile – USSD CSI.

The screen below displays the details related to chosen profile (USSD CSI).

The screenshot shows a 'View' screen for a selected profile. At the top, there is a 'View' button with a pink border. Below it, the profile name 'Taruskey' is displayed. A table follows, with columns 'Service Code' and 'SCF Name and SCF Address'. The data in the table is as follows:

Service Code	SCF Name and SCF Address
1234	scpname-123
234	scpname-123
23456	scpname-123
5678	scpname-123
7896	scpname-123
9876	scpname-123

At the bottom of the screen is a 'Home' button with a red arrow pointing to it.

STEP	ACTION
1.	User can peruse details related to the chosen USSD CSI Profile
2.	On clicking the Home button at the bottom of the 'View Screen', it redirects the user to the 'USSD CSI' profiles grid

Searching for a specific USSD CSI profiles (Record)

The screenshot shows a search interface. On the left is a 'Search' button. Next to it is a dropdown menu labeled 'Select Column' with an arrow pointing to it. The dropdown menu lists 'Select Column' and 'Profile Name'. To the right of the dropdown is a text input field and a 'Go' button with a red arrow pointing to it.

STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding USSD CSI Profiles (record) will be highlighted among the list of USSD CSI Profiles records.

The screen below depicts fetching and displaying the give USSD CSI Profiles record.

Create / View			
Search <input type="button" value="Select Column"/> <input type="text"/> <input type="button" value="Go"/>		View Per Page <input type="button" value="10"/> <input type="button" value="10"/>	
<input type="button" value="Create"/>		1 2	
Profile Name	Status	Action	
43432	CREATED	<input type="button" value="View"/>	
CC33	CREATED	<input type="button" value="View"/>	
CreateUSSDCSI	CREATED	<input type="button" value="View"/>	
CS1	CREATED	<input type="button" value="View"/>	
MobilyUCSI	APPROVED	<input type="button" value="View"/>	
TestUSSDCSI	CREATED	<input type="button" value="View"/>	
ucsi_Rajesh	APPROVED	<input type="button" value="View"/>	
USSD	CREATED	<input type="button" value="View"/>	
USSDCSI1	CREATED	<input type="button" value="View"/>	
USSDCSI53	CREATED	<input type="button" value="View"/>	

1 2

Manage

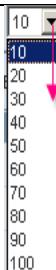
Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → USSD CSI
 → Manage

'Manage' helps the user modifying and deleting (managing) a chosen USSD CSI profile that was created, but still to be approved

Initially, the screen displays the list of USSD CSI profiles that were configured and created.

The screen below shows the list of various USSD CSI (Profiles) configurations in a grid.

Manage				
Search	Select Column	Go	View Per Page 10	
Profile Name	Status	Action		
43432	CREATED	Modify		Delete
abcmno	CREATED	Modify		Delete
CC33	CREATED	Modify		Delete
CreateUSSDCSI	CREATED	Modify		Delete
CSI1	CREATED	Modify		Delete
dfdf	CREATED	Modify		Delete
TestUSSDCSI	CREATED	Modify		Delete
USSD	CREATED	Modify		Delete
USSDCSI1	CREATED	Modify		Delete
USSDCSI53	CREATED	Modify		Delete

STEP	ACTION
1.	By default, the list of profiles (USSD CSI profiles) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
4.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
5.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'USSD CSI' main page

Modify

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → USSD CSI
 → Manage → Modify

Modify enables the user to modify / update the details related to an existing USSD CSI profile.

On clicking the '**Modify**' link of a chosen 'Profile' (from the USSD CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the – USSD CSI.

The screen below shows modifying / updating the details related to an existing USSD CSI profile.

Profile Name: Taruskey **USSD CSI Profile name will be dynamically displayed and cannot be modified**

Service Code:

SCF Name and SCF Address:

Submit **Home**

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations (Service Code & SCF Name and SCF Address) of the profile
3.	<p>On clicking the Submit button at the bottom of the 'Modify' screen, profile (USSD CSI) details will be updated accordingly and a message window to that effect will be displayed</p> <p>On clicking the Home button of the message window, it directs the user back to the USSD CSI profiles grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the Translation USSD CSI profiles grid

Delete

Home Location Register → CAMEL Subscriptions → GSM CAMEL Subscriptions → USSD CSI
→ Manage → Delete

Delete enables the user to delete an existing USSD CSI profile.

On clicking the '**Delete**' link of a chosen 'Profile' (from the USSD CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the – USSD CSI.

The screen below shows the details related to an existing USSD CSI profile, which enables the user to delete the same (Profile).

Profile Name	
Service Code	SCF Name and SCF Address
1234	scpname-123
234	scpname-123
23456	scpname-123
7896	scpname-123
9876	scpname-123

Delete **Home**

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (USSD CSI)</p> <p>On clicking the OK button of the alert window, the chosen USSD CSI profile will be deleted and a message window to that effect will be displayed</p> <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'USSD CSI' profiles grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'USSD CSI' profiles grid

Searching for a specific USSD CSI profiles (Record)

Search **Select Column** **Profile Name** **Go**

STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding USSD CSI Profiles (record) will be highlighted among the list of USSD CSI Profiles records.

The screen below depicts fetching and displaying the give USSD CSI Profiles record.

Manage					
Search		Select Column	Go	View Per Page 10	
1 2					
Profile Name	Status	Action			
43432	CREATED	Modify		Delete	
abcmno	CREATED	Modify		Delete	
CC33	CREATED	Modify		Delete	
CreateUSSDCSI	CREATED	Modify		Delete	
CSI	CREATED	Modify		Delete	
dfdf	CREATED	Modify		Delete	
TestUSSDCSI	CREATED	Modify		Delete	
USSD	CREATED	Modify		Delete	
USSDCSI1	CREATED	Modify		Delete	
USSDCSI53	CREATED	Modify		Delete	
1 2					
Home					

9.11 GPRS – CAMEL Subscriptions

Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions

Customized Application for the Mobile network Enhanced Logic (CAMEL) is an important standard for intelligent mobile communications networks. CAMEL enables mobile network operators to offer value-added services quickly and efficiently. This section deals with the CAMEL Subscriptions for GPRS based subscriber data to be handled by HLR.

9.11.1 GPRS CSI

GPRS CSI data defines the contents of the GPRS CAMEL subscription information. The GPRS CAMEL Subscription Information helps performing the inter-work between gsmSCF and gprsSSF, for CAMEL control of packet switch call. This also helps creating various GPRS CSI profiles, which in turn provide a wider flexibility in attributing the same to different customer subscription types and varied demands.

GPRS-CSI consists of the following data items:

- *TDP Value*: The TDP value identifies the trigger detection point (TDP) in the GPRS State Model where the required service shall be invoked
- *SCF Name*:: The SCF Name is the address (E.164 number) of the gsmSCF, where the GPRS CAMEL Service associated with this TDP is located for the subscriber
- *Service Key*: The service key helps identifying the service logic that shall be applied in gsmSCF environment
- *Default GPRS handling*: The default GPRS handling indicates whether the GPRS submission request shall be rejected or continued in case of error during the dialogue between the gprsSSF and gsmSCF
- *CAMEL Capability Handling*: CAMEL Capability Handling indicates the CAMEL Phase that is required for the GPRS service. The CAMEL Capability Handling for GPRS-CSI shall have the value CAMEL phase 3 and phase 4

Initially, 'GPRS CSI' displays a grid showing the list of existing profiles that are configured and created. This list may include those profiles that are created and approved, created and rejected and also those created but still to be approved or rejected.

Create / View

[Home Location Register](#) → [CAMEL Subscriptions](#) → [GPRS CAMEL Subscriptions](#) → [GPRS CSI](#) → [Create / View](#)

GPRS CSI enables the user to configure parameters related to CAMEL Subscription Information (CSI).

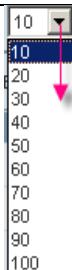
The screen below shows the list of various GPRS CSI configurations in a grid.

Create / View			
Search		Select Column	Go
Create		View Per Page 10	
Profile Name	Status	Action	
CreateGPRSCSI	CREATED	View	
CSI11	CREATED	Sort Ascending	Sort Descending
fdsf	CREATED	View	
GG1	CREATED	View	
GPRS1	CREATED	View	
GPRSTestCSI	CREATED	View	
GPRSTestCSI11	CREATED	View	
GPRSTestCSI344	CREATED	View	
MobilyGCSI	APPROVED	View	
MobilyGPRS	CREATED	View	

[Create](#)

1 2

[Home](#)

STEP	ACTION
1.	By default, the list of profiles (GPRS CSI) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (GPRS CSI Profile)
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'GPRS CSI' main page

Create

Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → GPRS CSI → Create / View

Create enables the user to create a new profile (GPRS CSI Profile) and attribute various values to constitute the same.

The screen below shows creating a new profile as GPRS CSI

The combined values of these three elements, as a string will be moved to the right 'list field'

Indicates Mandatory

Profile Name	Caspercol	Enter Profile name attributing to the GPRS CSI
CAMEL Capability Handling	Phase 3	
SCF Name and Service Key	scpname-5555	
TDP List	attach attachChangeOfPosition pdp-ContextEstablishment pdp-ContextEstablishmentAcknowledgement pdp-ContextChangeOfPosition	Mapping Demapping
Default GPRS Handling	Release	

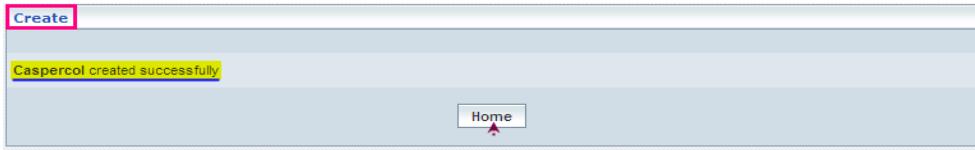
Submit Home

Mapping

Demapping

pdp-ContextEstablishment,Continue,scpname-5
pdp-ContextEstablishmentAcknowledgement,Co
pdp-ContextChangeOfPosition,Continue,scpn
attachChangeOfPosition_Release,scpname-5555
attach,Release,scpname-5555

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the profile in <Profile Name> field
3.	<p>Select a CAMEL capability handling Phase (Phase3 and Phase4) to specify the CAMEL capability handling from the drop-down list of the <CAMEL Capability Handling> field</p> <p>* By default, the list of phases will be dynamically displayed as drop-down list of the <CAMEL Capability Handling> field</p>
4.	<p>Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the GPRS CSI element, from the drop-down list of the <SCF Name and Service Key> field</p> <p>* By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field</p>
5.	<p>The default list of TDP (Trigger Detection Points) will be dynamically displayed in the text field, which is on to the left side of the screen</p> <p>Select the desired TDP value from the list (of the left text field)</p>
6.	<p>Select a Default GPRS Handling element (Continue or Release) to specify a default setting for the GPRS handling, from the drop-down list of the <Default GPRS Handling> field</p> <p>* By default, the list of GPRS handling elements (Continue / Release) will be dynamically displayed as drop-down list of the <Default GPRS Handling> field</p>
7.	<p>On clicking the right-arrow button, the combined values of SCF Name & Service Key, TDP and Default GPRS Handling (together as a string, yet separated by commas) will be moved to the adjacent list field</p> <p>User can configure and enter the desired number of such values in a similar fashion but, subject to the maximum limitation of 5 (Five) TDP values</p> <p>However, if the user wants to just remove any combination (any time before creating the profile), selecting the combination string from the right text field and subsequently clicking the left-arrow button removes the combination</p>

8.	<p>On clicking the Submit button, new profile (GPRS CSI) will be created and a message window to that effect will be displayed</p>  <p>On clicking the Home button of the message window, it directs the user back to the 'GPRS CSI' profiles grid</p>
9.	<p>On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the 'GPRS CSI' profiles grid</p>

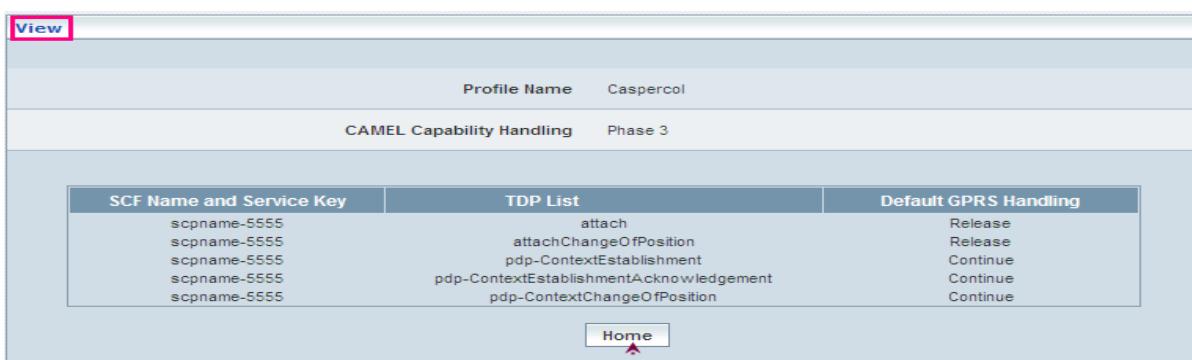
View

Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → GPRS CSI → Create / View

View enables the user to peruse details related to chosen profile (GPRS CSI).

On clicking the '**View**' link of a chosen 'Profile' (from the GPRS CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile – GPRS CSI.

The screen below displays the details related to chosen profile (GPRS CSI)



Profile Name		
Caspercol		
CAMEL Capability Handling		
Phase 3		
SCF Name and Service Key	TDP List	Default GPRS Handling
scpname-5555 scpname-5555 scpname-5555 scpname-5555 scpname-5555	attach attachChangeOfPosition pdp-ContextEstablishment pdp-ContextEstablishmentAcknowledgement pdp-ContextChangeOfPosition	Release Release Continue Continue Continue

STEP	ACTION
1.	User can peruse details related to the chosen GPRS CSI Profile
2.	On clicking the Home button at the bottom of the 'View Screen', it redirects the user to the 'GPRS CSI' profiles grid

Searching for a specific GPRS CSI profiles (Record)



STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding GPRS CSI Profiles (record) will be highlighted among the list of GPRS CSI Profiles records.

The screen below depicts fetching and displaying the give GPRS CSI Profiles record.

Profile Name	Status	Action
CreateGPRSCSI	CREATED	View
CSI11	CREATED	View
fdst	CREATED	View
GG1	CREATED	View
GPRS1	CREATED	View
GPRSTestCSI	CREATED	View
GPRSTestCSI11	CREATED	View
GPRSTestCSI344	CREATED	View
MobilyGCSI	APPROVED	View
MobilyGPRS	CREATED	View

Manage

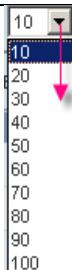
Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → GPRS CSI → Manage

'Manage' helps the user modifying and deleting (managing) a chosen GPRS CSI profile that was created, but still to be approved.

Initially, the screen displays the list of GPRS CSI profiles that were configured and created.

The screen below shows the list of various GPRS CSI (Profiles) configurations in a grid.

Manage				
Search		Select Column	Go	View Per Page
1 2				
Profile Name	Status	Action		
CreateGPRSCSI	CREATED	Modify		Delete
CSI111	CREATED	Modify		Delete
1dsf	CREATED	Modify		Delete
GG1	CREATED	Modify		Delete
GPRS1	CREATED	Modify		Delete
GPRSTestCSI	CREATED	Modify		Delete
GPRSTestCSI11	CREATED	Modify		Delete
GPRSTestCSI344	CREATED	Modify		Delete
MobilyGPRS	CREATED	Modify		Delete
PP3	CREATED	Modify		Delete

STEP	ACTION
1.	By default, the list of profiles (GPRS CSI) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
4.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
5.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'GPRS CSI' main page

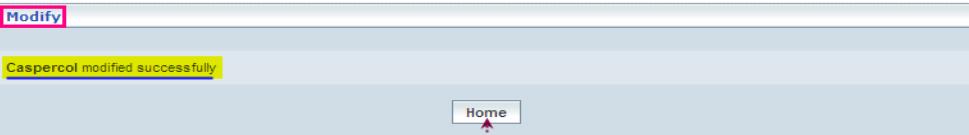
Modify

Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → GPRS CSI → Manage → Modify

Modify enables the user to modify / update the details related to an existing GPRS CSI profile that was just created, however, was still not approved.

On clicking the '**Modify**' link of a chosen 'Profile' (from the GPRS CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the – GPRS CSI.

The screen below shows modifying / updating the details related to an existing GPRS CSI profile.

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile, yet subject to the stipulations related to TDP mapping
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (GPRS CSI) details will be updated accordingly and a message window to that effect will be displayed  <p>On clicking the Home button of the message window, it directs the user back to the 'GPRS CSI' profiles grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the 'GPRS CSI' profiles grid

Delete

Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → GPRS CSI → Manage → Delete

Delete enables the user to delete an existing GPRS CSI profile that was just created, however, was still not approved.

On clicking the '**Delete**' link of a chosen 'Profile' (from the GPRS CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the – GPRS CSI.

The screen below shows the details related to an existing GPRS CSI profile, which enables the user to delete the same (Profile).

SCF Name and Service Key	TDP List	Default GPRS Handling
scpname-5555	attach	Release
scpname-5555	attachChangeOfPosition	Release
scpname-5555	pdp-ContextEstablishment	Continue
scpname-5555	pdp-ContextEstablishmentAcknowledgement	Continue
scpname-5555	pdp-ContextChangeOfPosition	Continue

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (GPRS CSI)</p> <p>On clicking the OK button of the alert window, the chosen GPRS CSI profile will be deleted and a message window to that effect will be displayed</p> <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'GPRS CSI' profiles grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'GPRS CSI' profiles grid

Searching for a specific GPRS CSI profiles (Record)



STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding GPRS CSI Profiles (record) will be highlighted among the list of GPRS CSI Profiles records.

The screen below depicts fetching and displaying the give GPRS CSI Profiles record.

Profile Name	Status	Action
CreateGPRSCSI	CREATED	Modify Delete
CSI11	CREATED	Modify Delete
fdst	CREATED	Modify Delete
GG1	CREATED	Modify Delete
GPRS1	CREATED	Modify Delete
GPRSTestCSI	CREATED	Modify Delete
GPRSTestCSI11	CREATED	Modify Delete
GPRSTestCSI344	CREATED	Modify Delete
MobilyGPRS	CREATED	Modify Delete
PP3	CREATED	Modify Delete

9.11.2 Mobility Management GPRS CSI

[Home Location Register >CAMEL Subscriptions >GPRS CAMEL Subscriptions >Mobility Management GPRS CSI](#)

Mobility Management GPRS CSI enables the user to configure parameters related to CAMEL Subscription Information (CSI) in terms of GSM-GPRS Visiting Location perspective and with respect to the defined MM codes. This also helps creating various Mobility Management GPRS CSI profiles, which in turn provide a wider flexibility in attributing the same to different customer subscription types and varied demands.

Create / View

Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → Mobility Management GPRS CSI → Create / View

Initially, 'Mobility Management GPRS CSI' displays a grid showing the list of existing profiles that are configured and created. This list may include those profiles that are created and approved, created and rejected and also those created but still to be approved or rejected.

The screen below shows the list of various profiles pertaining to Mobility Management GPRS CSI in a grid.

Create / View			
Search	Select Column	Go	View Per Page 10
Create		1 2	
Profile Name	Status	Action	
2323	CREATED	View	
abceee	CREATED	View	
CreVw	CREATED	View	
GPRS CSI	CREATED	View	
GPRSM1	CREATED	View	
MM111	CREATED	View	
MMDemo	CREATED	View	
MMGPRSTest	CREATED	View	
MMGSM1rr	CREATED	View	
Mobility	CREATED	View	

[Create](#)

[Home](#)

1 2

STEP	ACTION
1.	By default, the list of profiles (Mobility Management GPRS CSI) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (Mobility Management GPRS CSI Profile)
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile (Mobility Management GPRS CSI Profile) will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Mobility Management GPRS CSI' main page

Create

Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → Mobility Management GPRS CSI → Create / View

Create enables the user to create a new profile (Mobility Management GPRS CSI Profile) and attribute various values to constitute the same.

The screen below shows creating a new profile as Mobility Management GPRS CSI.

Create

Profile Name | Kenstar Enter name of the profile attributing to MM CSI

SCF Name and Service Key | scpname-5555 Indicates Mandatory

MM Codes | GPRS-Attach
IMS-initiated-GPRS-Detach
Network-initiated-transfer-to-MS-not-reachable
Routing-Area-update-in-same-SGSN
Routing-Area-update-to-other-SGSN-update-from-foreign-SGSN GPRS-Attach
MS-initiated-GPRS-Detach
Network-initiated-transfer-to-MS-not-reachable
Routing-Area-update-in-same-SGSN
Routing-Area-update-to-other-SGSN-update-from-foreign-SGSN

CAMEL Capability Handling | Phase 3

Submit Home

Indicates Mandatory

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the Mobile Management GPRS CSI profile in <Profile Name> field
3.	Select a pair representing the combination of SCF Name and Service Key to specify the SCF Name & Service Key mix for the 'Mobile Management GPRS CSI' element, from the drop-down list of the <SCF Name and Service Key> field * By default, the list of pairs representing SCF Name and Service Key will be dynamically displayed as drop-down list of the <SCF Name and Service Key> field
4.	The default list of MM Codes will be dynamically displayed in the text field, which is on to the left side of the screen Select the desired code from the list (of the left text field) and on clicking the right-arrow button, the code (as a string) will be moved to the adjacent field User can enter the desired number of codes in a similar fashion However if the user wants to just remove any code (anytime before creating the profile), selecting the code from the right text field and subsequently clicking the left-arrow button removes the code
5.	Select a Phase (Phase3 and Phase4) to specify the CAMEL capability handling from the drop-down list of the <CAMEL Capability Handling> field * By default, the list of phases will be dynamically displayed as drop-down list of the <CAMEL Capability Handling> field
6.	On clicking the Submit button, new profile (Mobility Management GPRS CSI) will be created and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the Mobility Management GPRS CSI profiles grid
7.	On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the Mobility Management GPRS CSI profiles grid

View

Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → Mobility Management GPRS CSI → Create / View

View enables the user to peruse details related to chosen profile (Mobility Management GPRS CSI).

On clicking the '**View**' link of a chosen 'Profile' (from the Mobility Management GPRS CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile – Mobility Management GPRS CSI.

The screen below displays the details related to chosen profile (Mobility Management GPRS CSI)

View	
Profile Name	Kenstar
SCF Name and Service Key	scpname-5555
MM Codes	Routing-Area-update-in-same-SGSN, Routing-Area-update-to-other-SGSN-update-from-new-SGSN, GPRS-Attach, MS-initiated-GPRS-Detach, Network-initiated-transfer-to-MS-not-reachable-for-paging
CAMEL Capability Handling	Phase 3
<input type="button" value="Home"/> 	

STEP	ACTION
1.	User can peruse details related to the chosen Mobility Management GPRS CSI Profile
2.	On clicking the Home button at the bottom of the 'View Screen', it redirects the user to the 'Mobility Management GPRS CSI' profiles grid

Searching for a specific Mobility Management GPRS CSI profiles (Record)



STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Mobility Management GPRS CSI Profiles (record) will be highlighted among the list of Mobility Management GPRS CSI Profiles records.

The screen below depicts fetching and displaying the give Mobility Management GPRS CSI Profiles record.

Profile Name	Status	Action
2323	CREATED	View
abceee	CREATED	View
CreVvw	CREATED	View
GPRS CSI	CREATED	View
GPRSM1M1	CREATED	View
MM111	CREATED	View
MDemo	CREATED	View
MMGPRSTest	CREATED	View
MMGSM1rr	CREATED	View
Mobility	CREATED	View

Manage

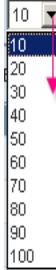
Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → Mobility Management GPRS CSI → Manage

'Manage' helps the user modifying and deleting (managing) a chosen Mobility Management GPRS CSI profile that was created, but still to be approved.

Initially, the screen displays the list of Mobility Management GPRS CSI profiles that were configured and created.

The screen below shows the list of various Mobility Management GPRS CSI (Profiles) configurations in a grid.

Manage				
Profile Name	Status	Action	View Per Page 10	
2323	CREATED	Modify Delete	Sort Ascending	Sort Descending
abceee	CREATED	Modify Delete		
CreVvw	CREATED	Modify Delete		
GPRS CSI	CREATED	Modify Delete		
GPRSMM1	CREATED	Modify Delete		
MM111	CREATED	Modify Delete		
MMDemo	CREATED	Modify Delete		
MMGPRSTest	CREATED	Modify Delete		
MMGSM1rr	CREATED	Modify Delete		
Mobility	CREATED	Modify Delete		

STEP	ACTION
1.	By default, the list of profiles (Mobility Management GPRS CSI profiles) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
5.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Mobility Management GPRS CSI' main page

Modify

Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → Mobility Management GPRS CSI → Manage → Modify

Modify enables the user to modify / update the details related to an existing Mobility Management GPRS CSI profile.

On clicking the '**Modify**' link of a chosen 'Profile' (from the Mobility Management GPRS CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile – Mobility Management GPRS CSI.

The screen below shows modifying / updating the details related to an existing Mobility Management GPRS CSI profile.

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile
3.	<p>On clicking the Submit button at the bottom of the 'Modify' screen, profile (Mobility Management GPRS CSI) details will be updated accordingly and a message window to that effect will be displayed</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Mobility Management GPRS CSI' profiles grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the Translation 'Mobility Management GPRS CSI' profiles grid

Delete

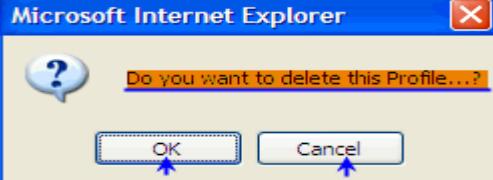
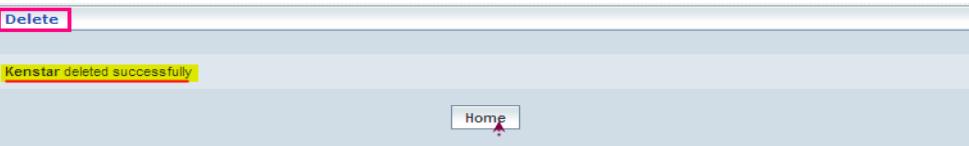
Home Location Register → CAMEL Subscriptions → GPRS CAMEL Subscriptions → Mobility Management GPRS CSI → Manage → Delete

Delete enables the user to delete an existing Mobility Management GPRS CSI profile.

On clicking the '**Delete**' link of a chosen 'Profile' (from the Mobility Management GPRS CSI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the – Mobility Management GPRS CSI.

The screen below shows the details related to an existing Mobility Management GPRS CSI profile, which enables the user to delete the same (Profile).

Delete	
Profile Name	Kenstar
SCF Name and Service Key	scpname-5555
MM Codes	Routing-Area-update-in-same-SGSN, Routing-Area-update-to-other-SGSN-update-from-new-SGSN, GPRS-Attach, MS-initiated-GPRS-Detach, Network-initiated-transfer-to-MS-not-reachable-for-paging
CAMEL Capability Handling	Phase 4
<input type="button" value="Delete"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (Mobility Management GPRS CSI)</p>  <p>On clicking the OK button of the alert window, the chosen Mobility Management GPRS CSI profile will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Mobility Management GPRS CSI' profiles grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Mobility Management GPRS CSI' profiles grid

Searching for a specific Mobility Management GPRS CSI profiles (Record)

The screenshot shows a search interface with a 'Search' field containing 'Select Column'. A red arrow points to the dropdown menu, which is open and displays 'Select Column' and 'Profile Name'. To the right of the search field is a 'Go' button with a red arrow pointing towards it.

STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Mobility Management GPRS CSI Profiles (record) will be highlighted among the list of Mobility Management GPRS CSI Profiles records.

The screen below depicts fetching and displaying the give Mobility Management GPRS CSI Profiles record.

The screenshot shows a 'Manage' interface with a table listing Mobility Management GPRS CSI Profiles. The table has columns: Profile Name, Status, and Action. The 'Action' column contains 'Modify' and 'Delete' buttons. The row for 'GPRS CSI' is highlighted with a blue background. The table includes a header row and a footer row with page numbers.

Manage			
Profile Name	Status	Action	
2323	CREATED	Modify	Delete
abceee	CREATED	Modify	Delete
CreVvw	CREATED	Modify	Delete
GPRS CSI	CREATED	Modify	Delete
GPRSM1	CREATED	Modify	Delete
MM111	CREATED	Modify	Delete
MDemo	CREATED	Modify	Delete
MMGPRSTest	CREATED	Modify	Delete
MMGSM1rr	CREATED	Modify	Delete
Mobility	CREATED	Modify	Delete

9.12 Approve / Reject CSI Profile

Approve / Reject CSI Profile enables the user to approve or reject the profiles (the total range of GSM and GPRS CAMEL Subscription Profiles)

Thus Approve / Reject CSI help the user performing the following functions:

- Approve
- Reject

Approve / Reject CSI Profile displays a screen showing the list of entire profiles (regardless of the type) that include GSM and GPRS CAMEL Subscription Profiles. The list of profiles comprises:

- **GSM Camel Subscriptions**
 - Originating CSI
 - Terminating CSI
 - VMSC Terminating CSI
 - Supplementary Services CSI
 - Translation Information Flag CSI
 - Mobility Management GSM CSI
 - Dialed Services CSI
 - USSD CSI
- **GPRS CAMEL Subscriptions**
 - GPRS CSI
 - Mobility Management GPRS CSI
 - Mobile Originating SMS CSI
 - Mobile Terminating SMS CSI

[Home Location Register → Approve / Reject CSI Profile](#)

Initially, 'Approve / Reject CSI Profile, displays a grid showing the list of entire profiles (regardless of the Profile type – all pertaining to the above mentioned list) that were configured and created. This list includes only those profiles that are created and yet to be approved or rejected.

This module also helps to fetch a desired profile with the help of the '**Search**' option based on the provided search criterion. The search criteria include: Profile Name

The screen below shows the list of records for the entire Profiles that were configured and created.

Approve / Reject CSI Profile

Profile Name	Status	CSI Type
11SSCSlist	CREATED	SUPPLEMENTARY SERVICES CSI
12	CREATED	MOBILE SERVICE CSI
12344	CREATED	SUPPLEMENTARY SERVICES CSI
2	CREATED	MOBILE ORIGINATING SMS CSI
2323	CREATED	MOBILITY MANAGEMENT GPRS CSI
23432	CREATED	MOBILE ORIGINATING SMS CSI
234323	CREATED	MOBILE TERMINATING SMS CSI
2343236	CREATED	DIALLED SERVICE CSI
244	CREATED	DIALLED SERVICE CSI
25	CREATED	MOBILE TERMINATING SMS CSI

Search Go View Per Page >>

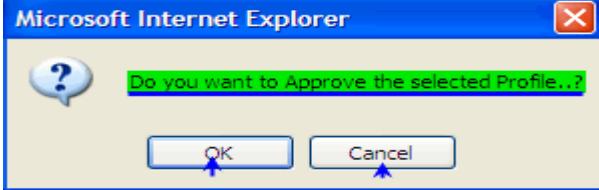
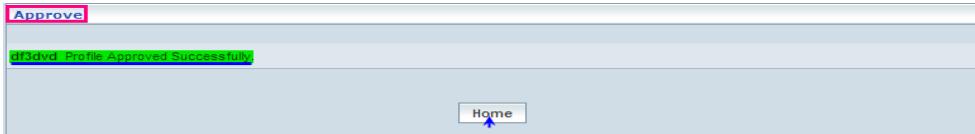
Approve Reject Sort Ascending Sort Descending

Select either to Approve or Reject

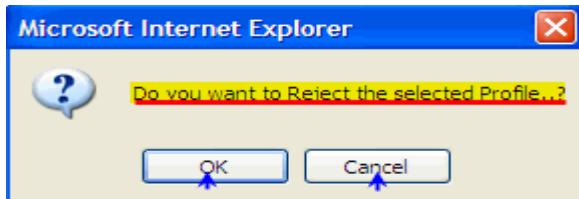
Print

Home

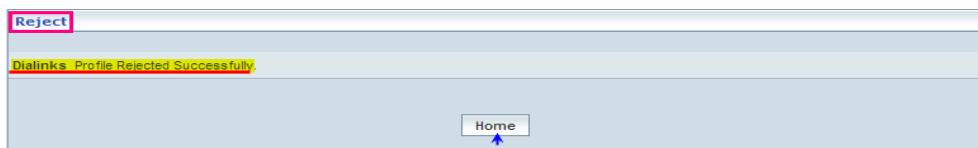
STEP	ACTION
1.	By default, the list of entire profiles (of all types) that were created will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'CSI Type'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	<p>To Approve a Profile:</p> <p>Select the corresponding radio option of the desired profile to approve the same</p>

	<p>On clicking the Approve button, an alert window message will be displayed enabling the user to confirm approval of the chosen profile</p>  <p>On clicking the OK button of the alert window, the chosen profile will be approved and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the Approve / Reject Profiles grid</p> <p>On clicking the Home button of the message window, it redirects the user to the 'Approve / Reject Profiles' grid</p> <p>NOTE: The Profile that was approved will be disappeared from the Approve / Reject Profiles grid. However, status related to the Profile will be dynamically updated (changed to 'Approved' from 'Created') in the corresponding Profile Type grid</p>
4.	<p>To Reject a Profile:</p> <p>Select the corresponding radio option of the desired profile to reject the same</p>

- 5.** On clicking the **Reject** button, an alert window message will be displayed enabling the user to confirm rejection of the chosen profile



On clicking the **OK** button of the alert window, the chosen profile will be rejected and a message window to that effect will be displayed



On clicking the **Cancel** button of the alert window, it retains the Approve / Reject Profiles grid

On clicking the **Home** button of the message window, it redirects the user to the 'Approve / Reject Profiles' grid

NOTE: Status related to the Profile will be dynamically updated (changed to 'Rejected' from 'Created') in the corresponding Profile Type grid and as well as in Approve / Reject Profiles grid

* Once rejected profile can always be approved any time later by way of similar process of approving a profile

- 6.** On clicking the **Print** button at the bottom of the grid, user can take printouts of the Specific CSI Profile(s) list

- 7.** On clicking the **Home** button at the bottom of the grid, it redirects the user to the 'HLR' main page

Searching for a specific CSI Profile (Record)

STEP	ACTION
1.	Select a search criterion (Profile Name) from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion (Profile Name) will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the value (Profile Name) that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Profile (record) will be highlighted among the list of CSI Profiles records

The screen below depicts fetching and displaying the specific CSI Profile record.

Approve / Reject CSI Profile

Search		Select Column	Go	View Per Page	10																																																					
<input type="button" value="Approve"/>	<input type="button" value="Reject"/>			1	2	3	4	5	6	7	8	9	10	>>																																												
<table border="1"> <thead> <tr> <th></th> <th>Profile Name</th> <th>Status</th> <th>CSI Type</th> </tr> </thead> <tbody> <tr> <td><input type="radio"/></td> <td>11SSCSItest</td> <td>CREATED</td> <td>SUPPLEMENTARY SERVICES CSI</td> </tr> <tr> <td><input type="radio"/></td> <td>12</td> <td>CREATED</td> <td>DIALLED SERVICE CSI</td> </tr> <tr> <td><input type="radio"/></td> <td>2</td> <td>REJECTED</td> <td>MOBILE ORIGINATING SMS CSI</td> </tr> <tr> <td><input type="radio"/></td> <td>2323</td> <td>CREATED</td> <td>MOBILITY MANAGEMENT GPRS CSI</td> </tr> <tr> <td><input type="radio"/></td> <td>23432</td> <td>CREATED</td> <td>MOBILE ORIGINATING SMS CSI</td> </tr> <tr> <td><input type="radio"/></td> <td>234323</td> <td>CREATED</td> <td>MOBILE TERMINATING SMS CSI</td> </tr> <tr> <td><input type="radio"/></td> <td>2343236</td> <td>CREATED</td> <td>DIALLED SERVICE CSI</td> </tr> <tr> <td><input type="radio"/></td> <td>244</td> <td>CREATED</td> <td>DIALLED SERVICE CSI</td> </tr> <tr> <td><input type="radio"/></td> <td>25</td> <td>CREATED</td> <td>MOBILE TERMINATING SMS CSI</td> </tr> <tr> <td><input type="radio"/></td> <td>2566</td> <td>CREATED</td> <td>MOBILE TERMINATING SMS CSI</td> </tr> </tbody> </table>																Profile Name	Status	CSI Type	<input type="radio"/>	11SSCSItest	CREATED	SUPPLEMENTARY SERVICES CSI	<input type="radio"/>	12	CREATED	DIALLED SERVICE CSI	<input type="radio"/>	2	REJECTED	MOBILE ORIGINATING SMS CSI	<input type="radio"/>	2323	CREATED	MOBILITY MANAGEMENT GPRS CSI	<input type="radio"/>	23432	CREATED	MOBILE ORIGINATING SMS CSI	<input type="radio"/>	234323	CREATED	MOBILE TERMINATING SMS CSI	<input type="radio"/>	2343236	CREATED	DIALLED SERVICE CSI	<input type="radio"/>	244	CREATED	DIALLED SERVICE CSI	<input type="radio"/>	25	CREATED	MOBILE TERMINATING SMS CSI	<input type="radio"/>	2566	CREATED	MOBILE TERMINATING SMS CSI
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<input type="radio"/>	25	CREATED	MOBILE TERMINATING SMS CSI																																																							
<input type="radio"/>	2566	CREATED	MOBILE TERMINATING SMS CSI																																																							
<input type="button" value="Approve"/>	<input type="button" value="Reject"/>			1	2	3	4	5	6	7	8	9	10	>>																																												
<input type="button" value="Print"/>																																																										
<input type="button" value="Home"/>																																																										

10 Supplementary Services

[Home Location Register → Supplementary Services](#)

Supplementary Services enables the user to create and manage the supplementary services that could be offered to the mobile subscribers in general. This helps creating various Supplementary Service profiles, which in turn provide a wider flexibility in catering the same to different customer subscription types and varied demands.

In order to create a supplementary service, it should be configured by pooling certain basic services categorized under different Supplementary Service Codes that constitute a service.

10.1 CUG Profile

[Home Location Register → Supplementary Services → CUG Profile](#)

This section enables users to perform the following tasks of the CUG Profile (Closed User Group Profile)

This module helps the user performing the following actions:

- ◆ Create
- ◆ View
- ◆ Modify
- ◆ Delete
- ◆ Search

Create

Home Location Register → Supplementary Services → CUG Profile → Create

Create enables the user to create a new CUG Profile.

The screen below shows creating a new CUG Profile

Create

Note: | Indicates Mandatory

Interlock codes Mapping with each BSG format is as below

Interlock Code-CUG Index-BSG

BSG Index mapping format is as below

BSG-Inter CUG Access-Prefierencial CUG

Profile Name mondemo4

Global Interlock Codes

404311111	404111112
404111113	404111114
404111115	404111116
404111117	404111118
404111119	404111110
404111111	404111112
404111113	404111114
404111115	404111116
404111117	404111118
404111119	404111110

Interlock Codes Mapping with each BSG

404111112-2-Speech	404111112-2-All Data CDS Services
404111112-2-All Data CDS Services	404111112-2-All Data CDS Services

BSG Index mapping

BSG	Select
Inter CUG Access	None designated
Preferencial CUG	None designated
All Data CDS Services-Outgoing Access-2	

Submit **Home**

STEP	ACTION
1.	User must enter the details of the CUG Profile details where it is a mandatory information  Indicates Mandatory
2.	Enter Profile Name in <Profile Name> field.
3.	Global Interlock Codes: By default, Global Interlock Codes are displayed in <Global Interlock Codes> list box. On clicking  button allows the user to map at least one Global Interlock Codes to CUG Profile and it moves to the adjacent field. On clicking  the user can perform un-mapping at least, one Global Interlock Codes to CUG Profile and vice versa.
4.	Interlock Codes Mapping with each BSG: By default, Interlock Codes Mapping with each BSG(s) is displayed in <Interlock Codes Mapping with each BSG> list box. On clicking  button allows the user to map at least one Interlock Codes with BSG and it moves to the adjacent field. On clicking  the user can perform un-mapping at least, one Interlock Codes with BSG and vice versa.
5.	BSG Index mapping: By default, the data within the BSG Index mapping gets displayed related to the Interlock Codes mapping with each BSG
6.	Select the BSG data from <BSG> drop-down list
7.	Select Inter CUG Access from <Inter CUG Access> drop-down list
8.	Select Preferencial CUG from <Preferencial CUG> drop-down list
9.	On clicking  button allows the user to map at least one BSG – Inter CUG Access – Preferencial CUG and it moves to the adjacent field. On clicking  the user can perform un-mapping at least one BSG – Inter CUG Access – Preferencial CUG and vice versa.
10.	On clicking the Submit button, the new CUG Profile will be created successfully. A message window will be displayed to that effect  <p>On clicking the Home button of the message window, it redirects the user to the 'Create' Screen</p>

- | | |
|------------|--|
| 11. | On clicking the Home button at the bottom of the 'Create' Screen (before creating a new CUG Profile), it redirects the user to the 'CUG Profile' Screen |
|------------|--|

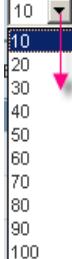
Manage

Home Location Register → Supplementary Services → CUG Profile → Manage

Manage enables the users to perform view, search, modify, print and delete CUG Profile

The screen below shows the 'Manage' Screen

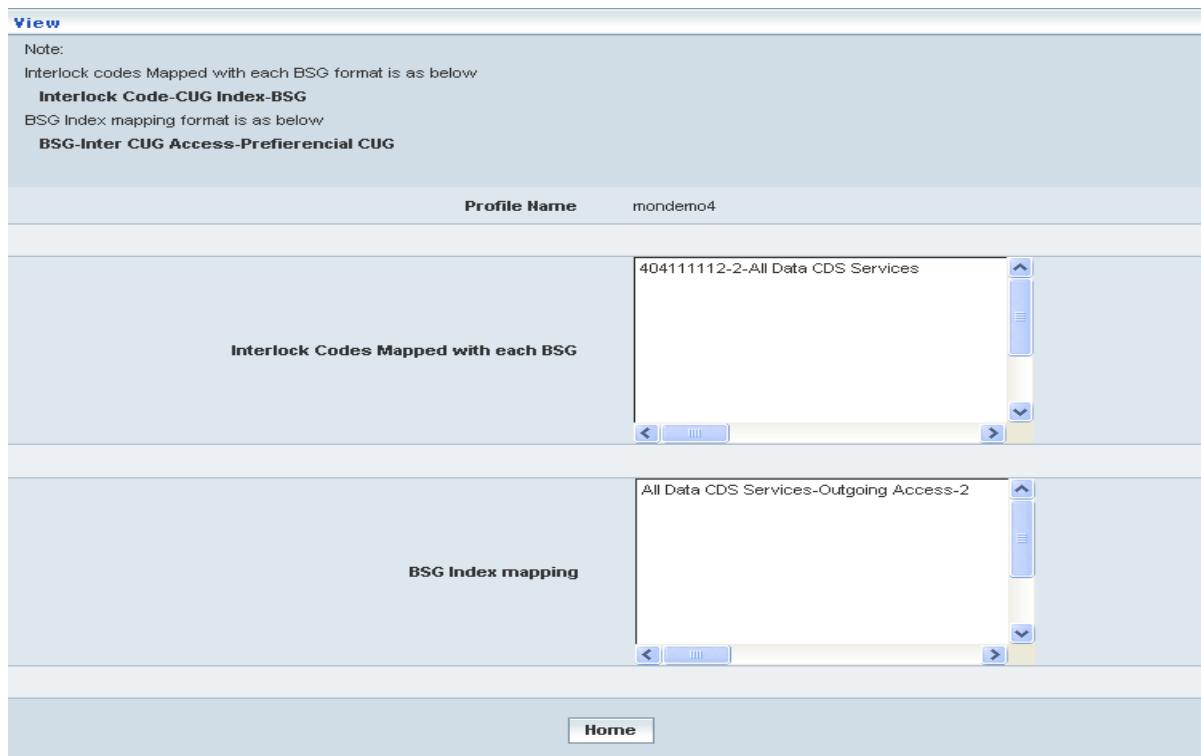
Manage			
Search	Select Column	Go	View Per Page
1 2			
Profile Name	Action		
MOBILYCUG	View	Modify	Delete
MobCug	View	Modify	Delete
mondemo55	View	Modify	Delete
namewewe	View	Modify	Delete
nextdfd	View	Modify	Delete
nameerere	View	Modify	Delete
test22666	View	Modify	Delete
mondemo454	View	Modify	Delete
test555	View	Modify	Delete
test266	View	Modify	Delete
1 2			
Home			

STEP	ACTION
1.	By default, the list of CUG Profiles will be displayed as records in a grid. The columns include 'Profile Name' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the View link, 'View' screen will be displayed enabling the user to view the details of chosen 'CUG Profile'
4.	On clicking the Modify link, 'Modify' screen will be displayed enabling the user to update / change corresponding values (as required) of a chosen 'CUG Profile'
5.	On clicking the Delete link, of a chosen 'CUG Profile', it enables the user to delete the same
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'HLR' main page

[View](#)

On clicking the '**View**' link of a chosen 'CUG Profile' (from the CUG Profile List); corresponding information related to the CUG Profile will be displayed in a separate screen enabling the user to peruse details of the same.

The screen below shows the view of a chosen CUG Profile.



STEP	ACTION
1.	'Interlock Codes Mapped with each BSG' and 'BSG Index mapping' mapping will be dynamically displayed in their respective fields
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'Manage' Screen

Modify

On clicking the '**Modify**' link of a chosen 'CUG Profile' (from the CUG Profile List); corresponding information related to the CUG Profile will be displayed in a separate screen enabling the user to modify details of the same.

The screen below shows modifying / updating an existing CUG Profile

Modify

Note: | Indicates Mandatory

Interlock Code-CUG Index-BSG

BSG Index mapping format is as below

BSG-Inter CUG Access-Preferrencial CUG

Profile Name	mondemo4										
Global Interlock Codes											
<table border="1"><tr><td>404311111</td></tr><tr><td>404111112</td></tr><tr><td>404111113</td></tr><tr><td>404111114</td></tr><tr><td>404111115</td></tr><tr><td>404111116</td></tr><tr><td>404111117</td></tr><tr><td>404111118</td></tr><tr><td>404111119</td></tr></table>	404311111	404111112	404111113	404111114	404111115	404111116	404111117	404111118	404111119	<table border="1"><tr><td>404111112</td></tr></table>	404111112
404311111											
404111112											
404111113											
404111114											
404111115											
404111116											
404111117											
404111118											
404111119											
404111112											
Interlock Codes Mapping with each BSG											
<table border="1"><tr><td>404111112-2-Speech</td></tr><tr><td>404111112-2-All Data CDS Services</td></tr></table>	404111112-2-Speech	404111112-2-All Data CDS Services	<table border="1"><tr><td>404111112-2-All Data CDS Services</td></tr></table>	404111112-2-All Data CDS Services							
404111112-2-Speech											
404111112-2-All Data CDS Services											
404111112-2-All Data CDS Services											
BSG Index mapping											
<table border="1"><tr><td>BSG <input type="button" value="Select"/></td></tr><tr><td>Inter CUG Access <input type="button" value="None designated"/></td></tr><tr><td>Preferencial CUG <input type="button" value="None designated"/></td></tr></table>	BSG <input type="button" value="Select"/>	Inter CUG Access <input type="button" value="None designated"/>	Preferencial CUG <input type="button" value="None designated"/>	<table border="1"><tr><td>All Data CDS Services-Outgoing Access-2</td></tr></table>	All Data CDS Services-Outgoing Access-2						
BSG <input type="button" value="Select"/>											
Inter CUG Access <input type="button" value="None designated"/>											
Preferencial CUG <input type="button" value="None designated"/>											
All Data CDS Services-Outgoing Access-2											
Submit Home											

STEP	ACTION
1.	<p>User can make necessary changes related to CUG Profile by performing the following tasks:</p> <ul style="list-style-type: none"> a. Mapping at least one 'Global Interlock Codes' to CUG Profile b. Mapping at least one 'Interlock Codes with BSG' c. Selecting BSG data from <BSG> drop-down list d. Selecting Inter CUG Access from <Inter CUG Access> drop-down list e. Selecting Preferencial CUG from <Preferencial CUG> drop-down list and f. Mapping at least one BSG – Inter CUG Access – Preferencial CUG
2.	<p>On clicking the Submit button, the changes made will be updated accordingly in the database. A message window will be displayed to that effect</p>  <p>On clicking the Home button of the message window, it redirects the user to the 'Manage' Screen</p>
3.	<p>On clicking the Home button at the bottom of the 'Modify' Screen (before submission), it redirects to the 'CUG Profile' Screen</p>

Delete

On clicking the '**Delete**' link of a chosen 'CUG Profile' (from the CUG Profile List); corresponding information related to the CUG Profile will be displayed in a separate screen enabling the user to delete details of the same.

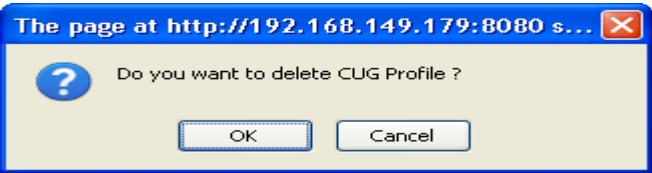
The screen below shows deleting an existing CUG Profile

The screenshot shows a 'Delete' screen for a CUG Profile named 'mondemo4'. The interface includes sections for 'Interlock Codes Mapped with each BSG' and 'BSG Index mapping', each with a list of items and a double-headed arrow button for moving items between them. At the bottom are 'Delete' and 'Home' buttons.

Note:
Interlock codes Mapped with each BSG format is as below
Interlock Code-CUG Index-BSG
BSG Index mapping format is as below
BSG-Inter CUG Access-Prefierencial CUG

Profile Name	mondemo4
Interlock Codes Mapped with each BSG	404111112-2-All Data CDS Services
BSG Index mapping	All Data CDS Services-Outgoing Access-2

Buttons: Delete, Home

STEP	ACTION
1.	<p>On clicking the Delete button, an alert message window will be displayed enabling the user to confirm deletion of the chosen CUG Profile</p> 
2.	<p>On clicking the OK button of the alert message window, the chosen CUG Profile details will be deleted and a message window will be displayed to that effect. It will be disappeared from the 'CUG Profile' grid.</p>  <p>On clicking the Home button of the message window, it directs the user to 'Manage' Screen</p> <p>On clicking the Cancel button of the alert message window, it retains the grid without deleting the CUG Profile record</p>
3.	<p>On clicking the Home button at the bottom of the 'Delete' screen (before submission), it redirects to the 'CUG Profile' Screen</p>

Searching for a specific CUG Profile (Record)



STEP	ACTION
1.	<p>Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field</p> <p>* By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field</p>
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding CUG Profile (record) will be highlighted among the list of CUG Profile records.

Manage				
Profile Name	Action			
	View	Modify	Delete	
MOBILYCUG	View	Modify	Delete	
MobCug	View	Modify	Delete	
mondemo55	View	Modify	Delete	
namewewe	View	Modify	Delete	
nextdfd	View	Modify	Delete	
nameerere	View	Modify	Delete	
test22666	View	Modify	Delete	
mondemo454	View	Modify	Delete	
test555	View	Modify	Delete	
test266	View	Modify	Delete	

[Home](#)

10.2 SS Profile Management

[Home Location Register → Supplementary Services → SS Profile Management](#)

Initially, 'Supplementary Services' displays a grid showing the list of existing supplementary services' Profile Managements that are configured and created. This list may include those profiles that are created and approved, created and rejected and also those created but still to be approved or rejected.

Create / View

[Home Location Register → Supplementary Services → SS Profile Management → Create / View](#)

This allows the user to create a new profile and peruse the details related to the existing profiles

The screen below shows the list of various Supplementary Services Profile Managements in a grid.

Create / View			
Search <input type="button" value="Select Column"/> <input type="text"/> <input type="button" value="Go"/>		View Per Page <input type="button" value="10"/> <input type="button" value="▼"/>	
<input type="button" value="Create"/>		1 2 3 4 5	
Profile Name		Status	Action
AlphaGenAll		APPROVED	<input type="button" value="View"/>
AlphatestONET		CREATED	<input type="button" value="View"/>
beldpriplmn		CREATED	<input type="button" value="View"/>
beldprofile		CREATED	<input type="button" value="View"/>
clrsbu		APPROVED	<input type="button" value="View"/>
DEVBoth		APPROVED	<input type="button" value="View"/>
DEVGeneral		APPROVED	<input type="button" value="View"/>
DEVPLMN		APPROVED	<input type="button" value="View"/>
dfg		CREATED	<input type="button" value="View"/>
genjar		APPROVED	<input type="button" value="View"/>

<input type="button" value="Create"/>		1 2 3 4 5	
<input type="button" value="Home"/>			

STEP	ACTION
1.	By default, the list of profiles (Supplementary Services Profile Management) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (Supplementary Service Profile Management)
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Supplementary Services Profile Management' main page

Create

Home Location Register → Supplementary Services → SS Profile Management → Create/View

Create enables the user to create a new profile (Supplementary Service Profile Management) and attribute various values to constitute the same.

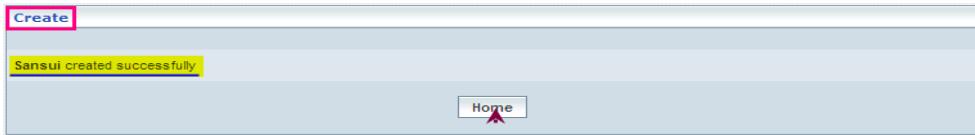
The screen below shows creating a new profile as Supplementary Service Profile Management

Create

Note: General SS Codes configuration format
Call Forward SS Codes will have below format for the Active SS Status
CFU, CFB, CFNRC format will be
SS Code - BSG Code - Default FTN - FTN - FTS - Notify Forwarding Party - Redirecting Presentation - Notify Calling Party - SS Status
CFNRY format will be SS Code - BSG Code - Default FTN - FTN - FTS - Notify Forwarding Party - Redirecting Presentation - Notify Calling Party - No Reply Timer(Sec) - SS Status
Other SS Codes will have SS Code - BSG Code - SS Status
Configuration of BAOC and CFU SS Codes are not allowed to map with same BSG and Status as Active

Profile Name	SSPMTest								
General SS Configuration <table border="1" style="width: 100%;"> <tr> <td style="width: 15%;">SS Codes</td> <td>AOCC</td> </tr> <tr> <td>BSG Codes</td> <td> <input type="button" value="All Data CDA Services"/> <input type="button" value="All Data CDS Services"/> <input type="button" value="Fax Services"/> <input type="button" value="Speech"/> </td> </tr> <tr> <td>SS Status</td> <td>Active</td> </tr> <tr> <td>CUG Profile</td> <td>MOBILYCUG</td> </tr> </table>		SS Codes	AOCC	BSG Codes	<input type="button" value="All Data CDA Services"/> <input type="button" value="All Data CDS Services"/> <input type="button" value="Fax Services"/> <input type="button" value="Speech"/>	SS Status	Active	CUG Profile	MOBILYCUG
SS Codes	AOCC								
BSG Codes	<input type="button" value="All Data CDA Services"/> <input type="button" value="All Data CDS Services"/> <input type="button" value="Fax Services"/> <input type="button" value="Speech"/>								
SS Status	Active								
CUG Profile	MOBILYCUG								
PLMN Specific SS Configuration <table border="1" style="width: 100%;"> <tr> <td style="width: 15%;">PLMN Specific SS Codes</td> <td>Select</td> </tr> <tr> <td>Status</td> <td>Provision</td> </tr> <tr> <td colspan="2"> <input type="button" value="PLMN-SPECIFICSS-4#Active"/> </td> </tr> </table>		PLMN Specific SS Codes	Select	Status	Provision	<input type="button" value="PLMN-SPECIFICSS-4#Active"/>			
PLMN Specific SS Codes	Select								
Status	Provision								
<input type="button" value="PLMN-SPECIFICSS-4#Active"/>									
<input type="button" value="Submit"/> <input type="button" value="Home"/>									

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the profile in <Profile Name> field, attributing to the proposed Supplementary Service Profile
3.	<p>General SS Configuration:</p> <p>Select an SS Code from <SS Codes> drop-down list for General SS Configuration and PLMN Specific SS Configuration</p> <p>* By default, the list of BSG Codes will be dynamically displayed in the <BSG Codes> field and the SS Status related to the 'SS Codes' also dynamically displayed in <SS Status> field</p>
4.	Select BSG Codes from <BSG Codes> field
5.	Select SS Status from <SS Status> field
6.	<p>On clicking the right-arrow button, the basic service along with (name of) the SS Codes, BSG Codes and the corresponding SS Status (as a string) will be moved to the adjacent field</p> <p>User can move the desired number of services from different Basic Services Groups belonging to different SS Codes in a similar fashion</p> <p>However if the user wants to just remove any service (any time before creating the profile), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service</p>
7.	Select CUG Profile from <CUG Profile> drop-down list
8.	<p>PLMN Specific SS Configuration:</p> <p>Select PLMN Specific SS Codes from <PLMN Specific SS Codes> drop-down list</p>
9.	Select the status for the PLMN Specific SS Configuration from <Status> drop-down list
10.	<p>On clicking the right-arrow button, the PLMN Specific SS Configuration and Status (as a string) will be moved to the adjacent field</p> <p>However if the user wants to just remove any service (any time before creating the profile), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service</p>

11.	<p>On clicking the Submit button, new profile (Supplementary Service) will be created and a message window to that effect will be displayed</p>  <p>On clicking the Home button of the message window, it directs the user back to the Supplementary Services profiles grid</p>
12.	<p>On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the Supplementary Services profiles grid</p>

View

Home Location Register → Supplementary Services → Profile Management → Create / View

View enables the user to peruse details related to chosen profile (Supplementary Service Profile).

On clicking the '**View**' link of a chosen 'Profile' (from the Supplementary Service Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile – Supplementary Service.

The screen below displays the details related to chosen profile (Supplementary Services Profile)

View							
<p>Note: General SS Codes configuration format Call Forward SS Codes will have below format for the Active SS Status CFU, CFB, CFNRC format will be SS Code - BSG Code - Default FTN - FTN - FTS - Notify Forwarding Party - Redirecting Presentation - Notify Calling Party - SS Status CFNRY format will be SS Code - BSG Code - Default FTN - FTN - FTS - Notify Forwarding Party - Redirecting Presentation - Notify Calling Party - No Reply Timer(Sec) - SS Status Other SS Codes will have SS Code - BSG Code - SS Status</p>							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Profile Name</td> <td>ProfileTest1</td> </tr> <tr> <td>Status</td> <td>CREATED</td> </tr> </table>		Profile Name	ProfileTest1	Status	CREATED		
Profile Name	ProfileTest1						
Status	CREATED						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="background-color: #e0e0e0;">General SS Configuration</th> </tr> <tr> <th style="width: 20%;">SS Codes</th> <th style="width: 80%;">Values</th> </tr> </thead> <tbody> <tr> <td>BAOC</td> <td>Faximile Services-Provision</td> </tr> </tbody> </table>		General SS Configuration		SS Codes	Values	BAOC	Faximile Services-Provision
General SS Configuration							
SS Codes	Values						
BAOC	Faximile Services-Provision						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="background-color: #e0e0e0;">CUG Profile</th> </tr> <tr> <th style="width: 20%;">CUG Profile</th> <th style="width: 80%;">Status</th> </tr> </thead> <tbody> <tr> <td>CUG Profile</td> <td>namewewe</td> </tr> </tbody> </table>		CUG Profile		CUG Profile	Status	CUG Profile	namewewe
CUG Profile							
CUG Profile	Status						
CUG Profile	namewewe						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="background-color: #e0e0e0;">PLMN Specific SS Configuration</th> </tr> <tr> <th style="width: 20%;">SS Codes</th> <th style="width: 80%;">Status</th> </tr> </thead> <tbody> <tr> <td>PLMN-SPECIFICSS-5</td> <td>Provision</td> </tr> </tbody> </table>		PLMN Specific SS Configuration		SS Codes	Status	PLMN-SPECIFICSS-5	Provision
PLMN Specific SS Configuration							
SS Codes	Status						
PLMN-SPECIFICSS-5	Provision						
<input type="button" value="Home"/>							

STEP	ACTION
1.	User can peruse details related to the chosen Supplementary Service Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the Supplementary Services profiles grid

Searching for a specific Supplementary Services profiles (Record)

The screenshot shows a search interface with a 'Search' section. It includes a dropdown menu labeled 'Select Column' with options like 'Select Column' and 'Profile Name'. A red arrow points to the 'Profile Name' option in the dropdown. To the right of the dropdown is a text input field and a 'Go' button, with another red arrow pointing to the 'Go' button.

STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Supplementary Services Profiles (record) will be highlighted among the list of Supplementary Services Profiles records.

The screen below depicts fetching and displaying the give Supplementary Services Profiles record.

The screenshot shows a 'Create / View' interface. At the top, there is a search bar with 'Select Column' dropdown and a 'Go' button. To the right is a 'View Per Page' dropdown set to 10. Below the search bar is a 'Create' button. The main area is a table with three columns: 'Profile Name', 'Status', and 'Action'. The table contains several rows of data. One row, specifically for 'SSPM', has a blue background and is highlighted. The 'Action' column for this row contains a 'View' link. At the bottom of the table is another 'Create' button and a page number '1 2'. In the footer, there is a 'Home' button.

Profile Name	Status	Action
allsspostpaid	APPROVED	View
dsdas	CREATED	View
MMMMMM	CREATED	View
MOBILYSS	APPROVED	View
MobSS	APPROVED	View
ProfileDemo	CREATED	View
ProfileTest1	CREATED	View
sdsdsds	CREATED	View
SSPM	CREATED	View
SSProfile	CREATED	View

Manage

Home Location Register → Supplementary Services → SS Profile Management → Manage

'Manage' helps the user modifying and deleting (managing) a chosen Supplementary Service profile that was created, but still to be approved. This module also helps **approving or rejecting** the profile.

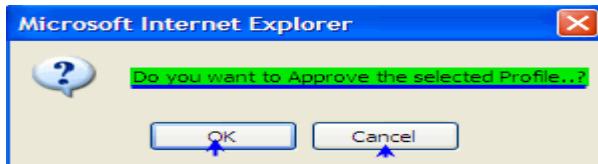
Initially, 'Supplementary Services' displays a grid showing the list of existing supplementary services' Profiles that were configured and created.

The screen below shows the list of various Supplementary Service (Profiles) configurations in a grid.

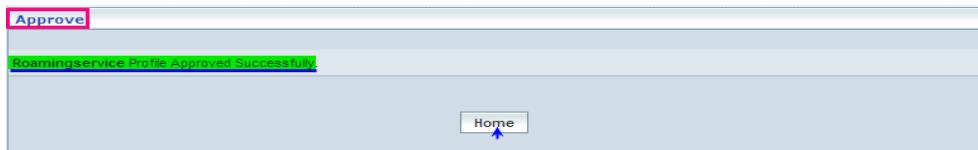
Profile Name	Status	Action
dssdas	CREATED	Modify Delete
GO232	CREATED	Modify Delete
MMMMMM	CREATED	Modify Delete
ProfileDemo	CREATED	Modify Delete
ProfileTest1	CREATED	Modify Delete
sdsdssds	CREATED	Modify Delete
SSPM	CREATED	Modify Delete
SSProfile	CREATED	Modify Delete
ss_Rajesh	CREATED	Modify Delete
TT11	CREATED	Modify Delete

STEP	ACTION
1.	By default, the list of Supplementary Service profiles will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
4.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
5.	<p>To Approve a Profile:</p> <p>Select the corresponding radio option of the desired profile to approve the same</p>

- 6.** On clicking the **Approved** button, an alert window message will be displayed enabling the user to confirm approval of the chosen profile



On clicking the **OK** button of the alert window, the chosen profile will be approved and a message window to that effect will be displayed



On clicking the **Cancel** button of the alert window, it retains the 'Manage Profiles' grid

On clicking the **Home** button of the message window, it redirects the user to the 'Manage Profiles' grid

NOTE: The Profile that was approved will be disappeared from the 'Manage Profiles' grid. However, status related to the Profile will be dynamically updated (changed to 'Approved' from 'Created') in the 'Supplementary Services Profiles' grid

- 7.** **To Reject a Profile:**
Select the corresponding radio option of the desired profile to reject the same

8.	<p>On clicking the Reject button, an alert window message will be displayed enabling the user to confirm rejection of the chosen profile</p>  <p>On clicking the OK button of the alert window, the chosen profile will be rejected and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the 'Manage Profiles' grid</p> <p>On clicking the Home button of the message window, it redirects the user to the 'Manage Profiles' grid</p> <p>NOTE: Status related to the Profile will be dynamically updated (changed to 'Rejected' from 'Created') in the Supplementary Services grid and as well as in 'Manage Profiles' grid</p> <ul style="list-style-type: none"> * Once rejected profile can always be approved any time later by way of similar process of approving a profile
9.	<p>On clicking the Home button at the bottom of the grid, it redirects the user to the 'Supplementary Services' main page</p>

Modify:

Home Location Register → Supplementary Services → Profile Management → Manage → Modify

Modify enables the user to modify / update the details related to an existing Supplementary Services profile.

On clicking the '**Modify**' link of a chosen 'Profile' (from the Supplementary Service Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile – Supplementary Service.

The screen below shows modifying / updating the details related to an existing Supplementary Services profile.

Modify

Note: General SS Codes configuration format
Call Forward SS Codes will have below format for the Active SS Status
CFU, CFB, CFNRC format will be
SS Code - BSG Code - Default FTN - FTN - FTS - Notify Forwarding Party - Redirecting Presentation - Notify Calling Party - SS Status
CFNRY format will be SS Code - BSG Code - Default FTN - FTN - FTS - Notify Forwarding Party - Redirecting Presentation - Notify Calling Party - No Reply Timer(Sec) - SS Status
Other SS Codes will have SS Code - BSG Code - SS Status
Configuration of BAOC and CFU SS Codes are not allowed to map with same BSG and Status as Active

Profile Name SSProfile

General SS Configuration

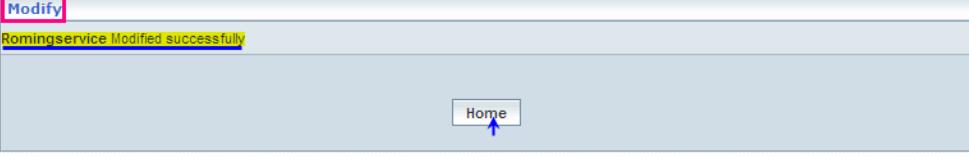
SS Codes	Select
BSG Codes	
SS Status	Provision
CUG Profile	MOBILYCUG

PLMN Specific SS Configuration

PLMN Specific SS Codes	Select
Status	Provision

Submit Home

Indicates Mandatory

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (Supplementary Services profile) details will be updated accordingly and a message window to that effect will be displayed  <p>On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the 'Supplementary Services Profile Management' main page

Delete

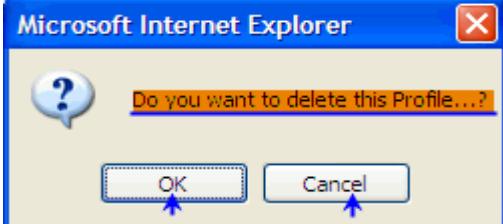
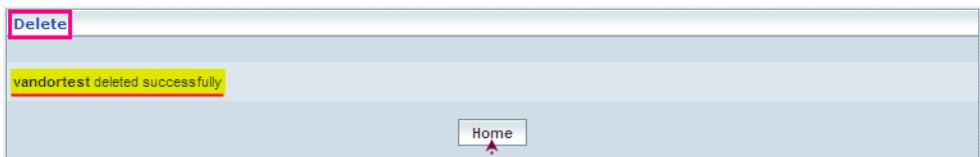
Home Location Register → Supplementary Services → Profile Management → Manage → Delete

Delete enables the user to delete an existing Supplementary Services profile.

On clicking the '**Delete**' link of a chosen 'Profile' (from the Supplementary Service Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile.

The screen below shows the details related to an existing Supplementary Services profile, which enables the user to delete the same (Profile) – Supplementary Service.

Delete	
Note: General SS Codes configuration format Call Forward SS Codes will have below format for the Active SS Status CFU, CFB, CFNRC format will be SS Code - BSG Code - Default FTN - FTN - FTS - Notify Forwarding Party - Redirecting Presentation - Notify Calling Party - SS Status CFNRY format will be SS Code - BSG Code - Default FTN - FTN - FTS - Notify Forwarding Party - Redirecting Presentation - Notify Calling Party - No Reply Timer(Sec) - SS Status Other SS Codes will have SS Code - BSG Code - SS Status	
Profile Name TT11	
Status CREATED	
General SS Configuration	
SS Codes	Values
CFB	All Data CDS Services-Provision
CUG Profile MobCug	
PLMN Specific SS Configuration	
SS Codes	Status
PLMN-SPECIFICSS-B	Provision
Delete Home	

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (Supplementary Services profile)</p>  <p>On clicking the OK button of the alert window, the chosen Mobile Supplementary Services profile will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid</p>
3.	<p>On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Supplementary Services Profile Management' main page</p>

Searching for a specific Supplementary Services profiles (Record)



STEP	ACTION
4.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
5.	Enter the 'Profile Name' that corresponds with the given search criterion
6.	On clicking the Go button, the corresponding Supplementary Services Profiles (record) will be highlighted among the list of Supplementary Services Profiles records.

The screen below depicts fetching and displaying the give Supplementary Services Profiles record.

Profile Name	Status	Action
demo3232	CREATED	Modify Delete
dsdas	CREATED	Modify Delete
GO232	CREATED	Modify Delete
hghg	CREATED	Modify Delete
MMMMM	CREATED	Modify Delete
ProfileDemo	CREATED	Modify Delete
ProfileTest1	CREATED	Modify Delete
sdsdsds	CREATED	Modify Delete
SSProfile	CREATED	Modify Delete
ss_Rajesh	CREATED	Modify Delete

11 Location Services

Location Services contains the GLMC profiles, LCS Services, External Clients, and LCS Profiles. User can create or manager GLMC profiles, LCS Services, External Clients, and LCS Profiles. Create includes create / view. Manage includes modify, delete, approve, and reject.

[Home Location Register → Location Services](#)

11.1 GMLC Profile

The GMLC initiates location requests on behalf of external clients. The E.164 address of the GMLC is provided to an HLR when the GMLC requests a serving MSC address or SGSN address from the HLR for a target MS. The E.164 address of the GMLC is also provided to a serving MSC or SGSN when the GMLC requests the location of a target MS served by this MSC or SGSN.

[Home Location Register → Location Services → GMLC Profile](#)

Initially, 'GMLC Profile' displays a grid showing the list of existing GMLC Profiles that are configured and created. This list may include those profiles that are created and approved, created and rejected and also those created but still to be approved or rejected.

Create / View

[Home Location Register → Location Services → GMLC Profile → Create / View](#)

This allows the user to create a new GMLC profile and peruse the details related to the existing profiles.

The screen below shows the list of various GMLC profiles in a grid.

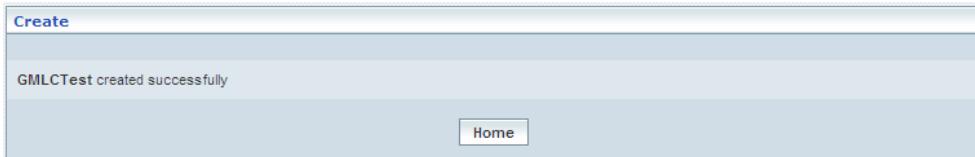
Create / View		
Search <input type="button" value="Select Column"/> <input type="text"/> <input type="button" value="Go"/>		View Per Page <input type="button" value="10"/> <input type="button" value="12"/>
<input type="button" value="Create"/>		1 2
Profile Name	Status	Action
ABC	CREATED	<input type="button" value="View"/>
Demo	CREATED	<input type="button" value="View"/>
Demoeewe	CREATED	<input type="button" value="View"/>
GMLCTest	CREATED	<input type="button" value="View"/>
GMLCTest1	CREATED	<input type="button" value="View"/>
GTest	CREATED	<input type="button" value="View"/>
PP2	CREATED	<input type="button" value="View"/>
Test	CREATED	<input type="button" value="View"/>
Thu2323	CREATED	<input type="button" value="View"/>
ThursdayTest	CREATED	<input type="button" value="View"/>

1 2

STEP	ACTION
1.	By default, the list of profiles (GMLC) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (GMLC Profile)
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'GMLC Profiles' main page

The screen below shows to create a new GMLC Profile

The screenshot shows a 'Create' screen for a GMLC Profile. The top bar has the word 'Create' and a note 'Indicates Mandatory'. Below this are two input fields: 'Profile Name' containing 'GMLCTest' and 'GMLC Addresses' containing '2323'. A dropdown menu is open next to 'GMLC Addresses'. At the bottom are 'Submit' and 'Home' buttons.

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the profile in <Profile Name> field.
3.	Enter the GMLC address in the <GMLC Addresses> field NOTE: GMLC address should be numeric value
4.	Click the right-arrow to add the GMLC address for mapping
5.	To remove from mapping, select the GMLC address and then click left-arrow.
6.	On clicking the Submit button, new profile (GMLC Profile) will be created and a message window to that effect will be displayed 
7.	On clicking the Home button of the message window, it directs the user back to the 'GMLC Profiles' grid
7.	On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the 'GMLC Profiles' main page

View

Home Location Register → Location Services → GMLC Profile → Create / View

View enables the user to peruse details related to chosen profile (GMLC Service Profile).

On clicking the '**View**' link of a chosen 'Profile' (from the GMLC Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile – GMLC profile.

The screen below displays the details related to chosen profile (GMLC Profile).

View	
Profile Name	GMLCTest
GMLC Addresses	423232
Home	

STEP	ACTION
1.	User can peruse details related to the chosen GMLC Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'GMLC Profiles' grid

Searching for a specific GMLC Profiles (Record)

The screenshot shows a search interface with a 'Search' button, a dropdown menu labeled 'Select Column' with a red arrow pointing to it, a text input field, and a 'Go' button with a red arrow pointing to it.

STEP	ACTION
1.	Select a search criterion (Profile Name) from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion (Profile Name) will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the Profile Name that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding GMLC Profiles (record) will be highlighted among the list of GMLC Profiles records.

The screen below depicts fetching and displaying the give GMLC Profiles record.

Create / View		
Search	Select Column	Go
View Per Page 10		
Create		1 2
Profile Name	Status	Action
ABC	CREATED	View
Demo	CREATED	View
Demoeewe	CREATED	View
fsdfsd	CREATED	View
GMLCTest	CREATED	View
GMLCTest1	CREATED	View
GTest	CREATED	View
PP2	CREATED	View
Test	APPROVED	View
Thu2323	CREATED	View
Create		1 2
	Home	

Manage

Home Location Register → Location Services → GMLC Profile → Manage

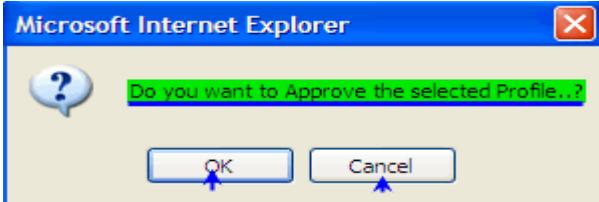
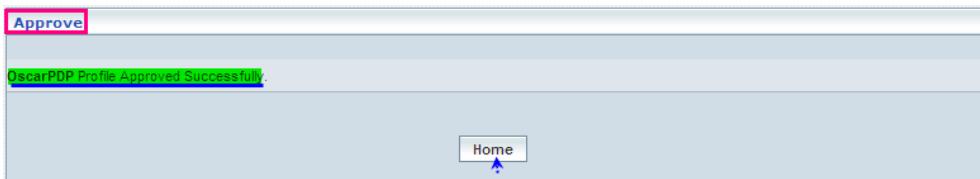
'Manage' helps the user modifying and deleting (managing) a chosen GMLC profile that was created, but still to be approved. This module also helps **approving** or **rejecting** the profile.

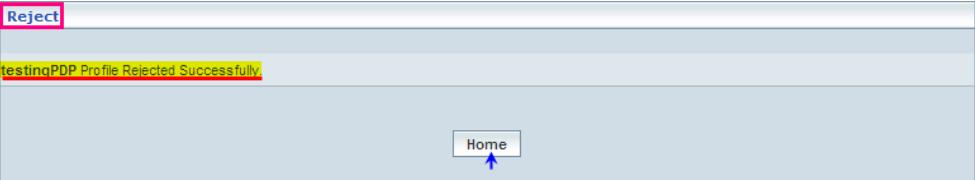
Initially, 'GMLC' displays a grid showing the list of existing supplementary services' Profiles that were configured and created.

The screen below shows the list of various GMLC Profiles configurations in a grid.

Profile Name	Status	Action
ABC	CREATED	Modify Delete
Demo	CREATED	Modify Delete
Demoeeve	CREATED	Modify Delete
GMLCTes	CREATED	Modify Delete
GMLCTes1	CREATED	Modify Delete
GTest	CREATED	Modify Delete
PP2	CREATED	Modify Delete
Test	CREATED	Modify Delete
Thu2323	CREATED	Modify Delete
ThursdayTest	CREATED	Modify Delete

STEP	ACTION
1.	<p>By default, the list of GMLC profiles will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'</p>
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid. However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>

3.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
4.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
5.	<p>To Approve a Profile:</p> <p>Select the corresponding radio option of the desired profile to approve the same</p>
6.	On clicking the Approve button, an alert window message will be displayed enabling the user to confirm approval of the chosen profile
	
	On clicking the OK button of the alert window, the chosen profile will be approved and a message window to that effect will be displayed
	
	On clicking the Cancel button of the alert window, it retains the 'Manage Profiles' grid
	On clicking the Home button of the message window, it redirects the user to the 'Manage Profiles' grid
	<p>NOTE: The Profile that was approved will be disappeared from the 'Manage Profiles' grid. However, status related to the Profile will be dynamically updated (changed to 'Approved' from 'Created') in the 'PDP Profiles' grid</p>
7.	<p>To Reject a Profile:</p> <p>Select the corresponding radio option of the desired profile to reject the same</p>
8.	On clicking the Reject button, an alert window message will be displayed enabling the user to confirm rejection of the chosen profile

	 <p>On clicking the OK button of the alert window, the chosen profile will be rejected and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the 'Manage Profiles' grid</p> <p>On clicking the Home button of the message window, it redirects the user to the 'Manage Profiles' grid</p> <p>NOTE: Status related to the Profile will be dynamically updated (changed to 'Rejected' from 'Created') in the Profiles grid and as well as in 'Manage Profiles' grid</p> <p>* Once rejected profile can always be approved any time later by way of similar process of approving a profile</p>
9.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'GMLC Profiles' main page

Modify

Home Location Register → Location Services → GMLC Profile → Manage

→ Modify

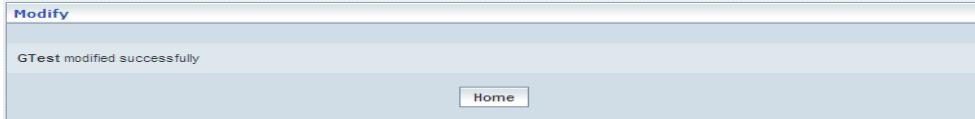
Modify enables the user to modify / update the details related to an existing GMLC profile. On clicking the '**Modify**' link of a chosen 'Profile' (from the GMLC Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile – GMLC.

The screen below shows modifying / updating the details related to an existing GMLC profile.

Profile Name GTest

GMLC Addresses | [434 54545]

Modify **Home**

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (GMLC profile) details will be updated accordingly and a message window to that effect will be displayed 
4.	On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid

Delete

Home Location Register → Location Services → GMLC Profile → Manage → Delete

Delete enables the user to delete an existing GMLC Services profile.

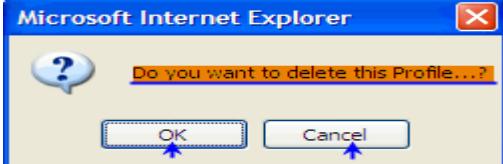
On clicking the '**Delete**' link of a chosen 'Profile' (from the GMLC Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile.

The screen below shows the details related to an existing GMLC profile, which enables the user to delete the same (Profile) – GMLC.

Profile Name Demo

GMLC Addresses 3432

Delete **Home**

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (Supplementary Services profile)  <p>On clicking the OK button of the alert window, the chosen Mobile Supplementary Services profile will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Manage Profiles' grid

Searching for a specific GMLC Profiles (Record)



STEP	ACTION
1.	Select a search criterion (Profile Name) from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion (Profile Name) will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the Profile Name that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding GMLC Profiles (record) will be highlighted among the list of GMLC Profile records.

The screen below depicts fetching and displaying the give GMLC Profile record.

Manage				
Search		Select Column	Go	View Per Page 10
		Approve	Reject	1 2
	Profile Name	Status	Action	
<input type="radio"/>	ABC	CREATED	Modify	Delete
<input type="radio"/>	Demo	CREATED	Modify	Delete
<input type="radio"/>	Demoeewe	CREATED	Modify	Delete
<input type="radio"/>	fsdfsd	CREATED	Modify	Delete
<input type="radio"/>	GMLCTest	CREATED	Modify	Delete
<input type="radio"/>	GMLCTest1	CREATED	Modify	Delete
<input type="radio"/>	GTest	CREATED	Modify	Delete
<input type="radio"/>	PP2	CREATED	Modify	Delete
<input type="radio"/>	Thu2323	CREATED	Modify	Delete
<input type="radio"/>	ThursdayTest	CREATED	Modify	Delete

11.2 LCS Services

[Home Location Register → Location Services → LCS Services](#)

Location Services (LCS) is the actual geographic position of the mobile station, geographic position is in terms of latitude, longitude and relative velocity of the mobile station.

In this section user can create, view, and modify the LCS services. User can also approve or reject the LCS services.

This section enables users to perform the following tasks of the LCS Services (Location Services. This usually implies positioning of an MS for commercial services, not emergency services)

This module helps the user performing the following actions:

- ◆ Create
- ◆ View
- ◆ Modify
- ◆ Delete
- ◆ Approve
- ◆ Reject
- ◆ Search

[Create / View](#)

[Home Location Register → Location Services → LCS Services → Create / View](#)

This allows the user to create a new LCS service and peruse the details related to the existing services

The screen below shows the list of various LCS Services in a grid.

Create / View			
Search <input type="button" value="Select Column"/> <input type="text"/> <input type="button" value="Go"/>		View Per Page <input type="button" value="10"/> <input type="button" value="1"/> <input type="button" value="2"/>	
<input type="button" value="Create"/>		1 2	
Profile Name		Status	Action
demo1		CREATED	<input type="button" value="View"/>
demo22		CREATED	<input type="button" value="View"/>
demotest		CREATED	<input type="button" value="View"/>
L2		CREATED	<input type="button" value="View"/>
LCSservice1		CREATED	<input type="button" value="View"/>
monitest		CREATED	<input type="button" value="View"/>
S1		CREATED	<input type="button" value="View"/>
test22		CREATED	<input type="button" value="View"/>
testdemo2		CREATED	<input type="button" value="View"/>
testdemo22		CREATED	<input type="button" value="View"/>

1 2

STEP	ACTION
1.	By default, the list of LCS services will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid. However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new LCS Service
5.	On clicking the View link of a chosen Service, corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'LCS Services' main page

Create

Home Location Register → Location Services → LCS Services → Create / View

Create enables the user to create a new LCS Service.

The screen below shows creating a new LCS Service

The screenshot shows a 'Create' screen for LCS Services. At the top, there's a 'Profile Name' field containing 'testdemo22'. Below it are three dropdown fields: 'Service Identity' (set to 'routingToNearestCommercialEnterprise'), 'Restriction' (set to 'GMLC-LIST'), and 'Notification' (set to 'NotifyAndVerify-LocationAllowedIfNoResponse'). To the right of these fields is a large text area where service details are listed. A green-bordered box highlights the right arrow button in a toolbar above this area, which is used for moving items between fields. At the bottom of the screen are 'Submit' and 'Home' buttons.

STEP	ACTION
1.	User must enter the details of the LCS Services details where it is a mandatory information Indicates Mandatory
2.	Enter Profile Name in <Profile Name> field.
3.	Select the service identity from <Service Identity> field
4.	Select the restriction from <Restriction> field
5.	Select the notification from <Notification> field
6.	On clicking the right-arrow button, the service identity, restriction, and notification (as a string) will be moved to the adjacent field. User can move the desired number of services from different service identities. User cannot map the duplicate service identity. However if the user wants to just remove any service (any time before creating the profile), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service
7.	On clicking the Submit button, the new LCS Service will be created successfully. A message window will be displayed to that effect <p>The message window displays the text 'LCS Services testdemo22 created successfully' and a 'Home' button at the bottom.</p>
8.	On clicking the Home button of the message window, it redirects the user to the 'Create' Screen

View

On clicking the '**View**' link of a chosen 'LCS Service' (from the LCS Service List); corresponding information related to the LCS Service will be displayed in a separate screen enabling the user to peruse details of the same.

The screen below shows the view of a chosen LCS Service.

View		
Profile Name demo1		
Service Identity	Restriction	Notification
personTracking	GMLC-LIST	NotifyAndVerify-LocationNotAllowedIfNoResponse
Home		

STEP	ACTION
1.	The 'Profile Name', 'Service Identity', 'Restriction' and 'Notification' details will be dynamically displayed in their respective fields
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'LCS Services' profiles grid

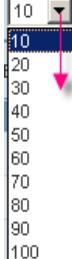
Manage

Home Location Register → Location Services → LCS Services → Manage

Manage enables the users to perform search, modify, delete, approve and delete LCS Services

The screen below shows the 'Manage' Screen

Manage				
Search	Select Column	Go	View Per Page	10
Approve Reject				
	Profile Name	Status	Action	
<input type="radio"/>	demo1	CREATED	Modify	Delete
<input type="radio"/>	demo22	CREATED	Modify	Delete
<input type="radio"/>	demotest	CREATED	Modify	Delete
<input type="radio"/>	L2	CREATED	Modify	Delete
<input type="radio"/>	LCSservice1	CREATED	Modify	Delete
<input type="radio"/>	monitest	CREATED	Modify	Delete
<input type="radio"/>	S1	CREATED	Modify	Delete
<input type="radio"/>	test22	CREATED	Modify	Delete
<input type="radio"/>	testdemo2	CREATED	Modify	Delete
<input type="radio"/>	testdemo22	CREATED	Modify	Delete
Approve Reject				
1 2				
Home				

STEP	ACTION
1.	By default, the list of LCS Services will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Modify link, 'Modify' screen will be displayed enabling the user to update / change corresponding values (as required) of a chosen 'LCS Services'
4.	On clicking the Delete link, of a chosen 'LCS Services', it enables the user to delete the same
5.	<p>To Approve a LCS Service:</p> <p>Select the corresponding radio option of the desired service to approve the same</p>

6. On clicking the **Approve** button, an alert window message will be displayed enabling the user to confirm approval of the chosen service



On clicking the **OK** button of the alert window, the chosen service will be approved and a message window to that effect will be displayed



On clicking the **Cancel** button of the alert window, it retains the 'Manage Service' grid

On clicking the **Home** button of the message window, it redirects the user to the 'Manage Services' grid

NOTE: The service that was approved will be disappeared from the 'Manage Services' grid. However, status related to the service will be dynamically updated (changed to 'Approved' from 'Created') in the 'Services' grid

7.	<p>To Reject a Services:</p> <p>Select the corresponding radio option of the desired service to reject the same</p> <p>On clicking the Reject button, an alert window message will be displayed enabling the user to confirm rejection of the chosen service.</p>  <p>On clicking the OK button of the alert window, the chosen service will be rejected and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the 'Manage Services' grid</p> <p>On clicking the Home button of the message window, it redirects the user to the 'Manage Services' grid</p> <p>NOTE: Status related to the Services will be dynamically updated (changed to 'Rejected' from 'Created') in the Service grid and as well as in 'Manage Services' grid</p> <ul style="list-style-type: none"> * Once rejected service can always be approved any time later by way of similar process of approving a service
8.	<p>On clicking the Home button at the bottom of the grid, it redirects the user to the 'LCS Services' main page</p>

Modify

On clicking the '**Modify**' link of a chosen 'LCS Services' (from the LCS Services List); corresponding information related to the LCS Services will be displayed in a separate screen enabling the user to modify details of the same.

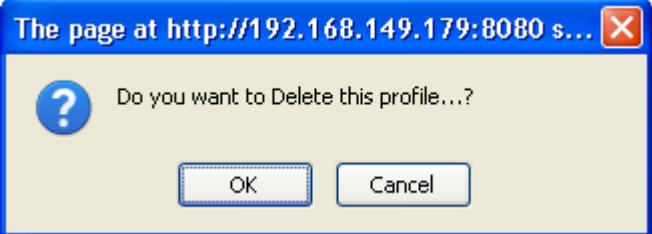
The screen below shows modifying / updating an existing LCS Services

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes related to LCS Services ('Service Identity', 'Restriction', 'Notification' and mapping atleast one service)
3.	On clicking the Submit button, the changes made will be updated accordingly in the database. A message window will be displayed to that effect
4.	On clicking the Home button of the message window, it redirects the user to the 'Manage' Screen

Delete

On clicking the '**Delete**' link of a chosen 'LCS Services' (from the LCS Services List); corresponding information related to the LCS Services will be displayed in a separate screen enabling the user to delete details of the same.

The screen below shows deleting an existing LCS Service

STEP	ACTION
1.	<p>On clicking the Delete button, an alert message window will be displayed enabling the user to confirm deletion of the chosen LCS Service</p> 
2.	<p>On clicking the OK button of the alert message window, the chosen LCS Service details will be deleted and a message window will be displayed to that effect. It will be disappeared from the 'LCS Services' grid.</p>  <p>On clicking the Home button of the message window, it directs the user to 'Manage' Screen</p> <p>On clicking the Cancel button of the alert message window, it retains the grid without deleting the LCS Services record</p>
3.	<p>On clicking the Home button at the bottom of the 'Delete' screen (before submission), it redirects to the 'LCS Services' Screen</p>

Searching for a specific CUG Profile (Record)



STEP	ACTION
1.	<p>Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field</p> <p>* By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field</p>
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding LCS Services (record) will be highlighted among the list of LCS Services records.

The screen below depicts fetching and displaying the give LCS Services record.

	Profile Name	Status	Action
<input type="radio"/>	demo1	CREATED	Modify Delete
<input type="radio"/>	demo22	CREATED	Modify Delete
<input type="radio"/>	demotest	CREATED	Modify Delete
<input type="radio"/>	L2	CREATED	Modify Delete
<input type="radio"/>	LCSservice1	CREATED	Modify Delete
<input type="radio"/>	monitest	CREATED	Modify Delete
<input type="radio"/>	S1	CREATED	Modify Delete
<input type="radio"/>	test22	CREATED	Modify Delete
<input type="radio"/>	testdem02	CREATED	Modify Delete
<input type="radio"/>	testdem022	CREATED	Modify Delete

11.3 External Clients

This parameter is only applicable to the call/session unrelated privacy class and call/session related privacy class, and gives the identities of the external clients that are allowed to locate a target MS for a MT-LR. Each identity is an international (e.g.E.164) address. For each identified external client, GMLC restrictions may be defined. It may also be indicated if the MS shall be notified of a non-restricted MT-LR from each identified LCS client and, if so, whether notification only or notification with privacy verification shall apply.

Create / View

[Home Location Register](#) → [Location Service](#) → [External Client](#) → [Create / View](#)

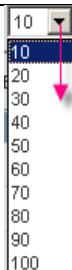
This allows the user to create a new profile and peruse the details related to the existing profiles.

The screen below shows the list of various External Client profiles in a grid.

Create / View		
Search		View Per Page
Create		1 2
LCS Client Name	Status	Action
ABC	CREATED	View
Demo	CREATED	View
ECFf	CREATED	View
ECTest	CREATED	View
External Clients Test	CREATED	View
GHJ	CREATED	View
GMLC	CREATED	View
Test	CREATED	View
THU	CREATED	View
Tt2	CREATED	View

Create **1 2**

Home

STEP	ACTION
1.	By default, the list of profiles (External Client) will be displayed as records in a grid. The columns include 'LCS client name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (External Client)
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'External Client' main page

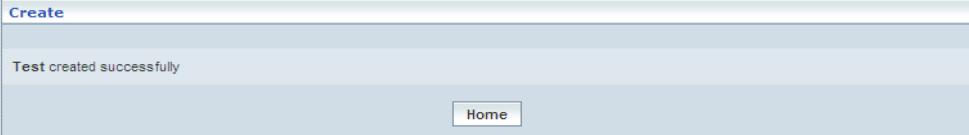
Create

[Home Location Register](#) → [Location Service](#) → [External Client](#) → [Create / View](#)

Create enables the user to create a new profile (External client) and attribute various values to constitute the same.

The screen below shows creating a new profile as External client profile

The screenshot shows a 'Create' interface for a new profile. It includes fields for LCS Client Name (mandatory), Client Address, Restriction, and Notification. A list of services is displayed on the right, with a 'Submit' button at the bottom.

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information Indicates Mandatory
2.	Enter name of the LCS client name in <LCS Client Name> field.
3.	Select the client address in the <Client Address> field. NOTE: The <Client Address> should be numeric value only.
4.	Select the restriction, such as, GMLC-LIST, Home county.
5.	Select the notification in the <Notification> field.
6.	On clicking the right-arrow button, the client address, restriction, and notification (as a string) will be moved to the adjacent field. User can move the desired number of services from different service identities. User cannot map the duplicate client address. However if the user wants to just remove any service (any time before creating the profile), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service
7.	On clicking the Submit button, new profile (external client) will be created and a message window to that effect will be displayed.  On clicking the Home button of the message window, it directs the user back to the 'External Clients Profiles' grid
8.	On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the 'External Client' main page

View

Home Location Register → Location Service → External Client → Create / View

View enables the user to peruse details related to chosen profile (External client)

On clicking the '**View**' link of a chosen 'Profile' (from the External Client List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile - External client.

The screen below displays the details related to chosen profile (External client)

View		
LCS Client Name Test		
Client Address 342323	Restriction GMLC-LIST	Notification NotifyLocationAllowed
Home		

STEP	ACTION
1.	User can peruse details related to the chosen PDP Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'External Clients' Profile grid

Searching for a specific External Clients Profile (Record)

STEP	ACTION
1.	Select a search criterion (LCS Client Name) from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion (LCS Client Name) will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the LCS Client Name that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding External Clients Profile (record) will be highlighted among the list of External Clients Profile records.

The screen below depicts fetching and displaying the give External Clients Profile record.

Create / View		
<input type="button" value="Create"/> 1 2		
LCS Client Name	Status	Action
ABC	CREATED	<input type="button" value="View"/>
Demo	CREATED	<input type="button" value="View"/>
ECFf	CREATED	<input type="button" value="View"/>
ECTest	CREATED	<input type="button" value="View"/>
External Clients Test	CREATED	<input type="button" value="View"/>
GHJ	CREATED	<input type="button" value="View"/>
GMLC	CREATED	<input type="button" value="View"/>
Test	CREATED	<input type="button" value="View"/>
THU	CREATED	<input type="button" value="View"/>
Tt2	CREATED	<input type="button" value="View"/>

1 2

Manage

Home Location Register → Location Services → External Client → Manage

'Manage' helps the user modifying and deleting (managing) a chosen External client that was created, but still to be approved. This module also helps **approving** or **rejecting** the profile.

Initially, 'External client displays a grid showing the list of existing External client that were configured and created.

The screen below shows the list of various External client (Profiles) configurations in a grid. Descending

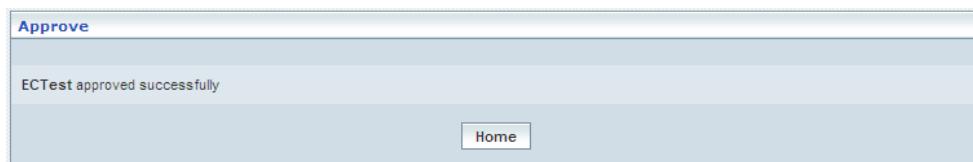
	LCS Client Name	Status	Action
<input type="radio"/>	ABC	CREATED	Modify Delete
<input type="radio"/>	Demo	CREATED	Modify Delete
<input type="radio"/>	ECFf	CREATED	Modify Delete
<input checked="" type="radio"/>	ECTest	CREATED	Modify Delete
<input type="radio"/>	External Clients	CREATED	Modify Delete
<input type="radio"/>	GHJ	CREATED	Modify Delete
<input type="radio"/>	GMLC	CREATED	Modify Delete
<input type="radio"/>	Test	CREATED	Modify Delete
<input type="radio"/>	THU	CREATED	Modify Delete
<input type="radio"/>	Tt2	CREATED	Modify Delete

STEP	ACTION
1.	By default, the list of external clients will be displayed as records in a grid. The columns include 'LCS Client Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
4.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
5.	<p>To Approve a Profile:</p> <p>Select the corresponding radio option of the desired profile to approve the same</p>

- 6.** On clicking the **Approve** button, an alert window message will be displayed enabling the user to confirm approval of the chosen profile



On clicking the **OK** button of the alert window, the chosen profile will be approved and a message window to that effect will be displayed



On clicking the **Cancel** button of the alert window, it retains the 'Manage Profiles' grid

On clicking the **Home** button of the message window, it redirects the user to the 'Manage Profiles' grid

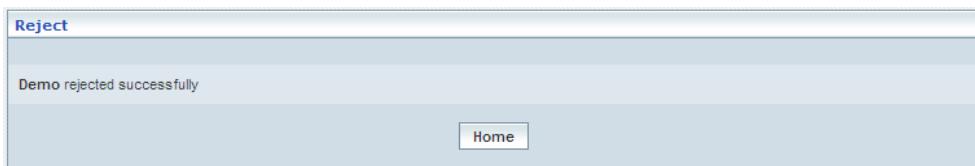
NOTE: The Profile that was approved will be disappeared from the 'Manage Profiles' grid. However, status related to the Profile will be dynamically updated (changed to 'Approved' from 'Created') in the 'PDP Profiles' grid

- 7.** **To Reject a Profile:**
Select the corresponding radio option of the desired profile to reject the same

- 8.** On clicking the **Reject** button, an alert window message will be displayed enabling the user to confirm rejection of the chosen profile



On clicking the **OK** button of the alert window, the chosen profile will be rejected and a message window to that effect will be displayed



On clicking the **Cancel** button of the alert window, it retains the 'Manage Profiles' grid

On clicking the **Home** button of the message window, it redirects the user to the 'Manage Profiles' grid

NOTE: Status related to the Profile will be dynamically updated (changed to 'Rejected' from 'Created') in the external clients grid and as well as in 'Manage Profiles' grid

* Once rejected profile can always be approved any time later by way of similar process of approving a profile

- 9.** On clicking the **Home** button at the bottom of the grid, it redirects the user to the 'External Clients' main page

Modify

[Home Location Register](#) → [Location Services](#) → [External Client](#) → [Manage](#) → [Modify](#)

Modify enables the user to modify / update the details related to an existing external client.

On clicking the '**Modify**' link of a chosen 'Profile' (from the external client List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile- external client.

The screen below shows modifying / updating the details related to an existing external client profile.

The screenshot shows a 'Modify' screen for an LCS Client profile named 'Test'. The profile details are as follows:

- LCS Client Name:** Test
- Client Address:** [Text input field]
- Restriction:** [Select dropdown]
- Notification:** [Select dropdown]

To the right of the profile details is a list of external clients:

- 342323-GMLC-LIST-NotifyLocationAI
- 43423-GMLC-LIST-NotifyLocationAllo

At the bottom of the screen are 'Submit' and 'Home' buttons.

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <LCS client Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (external client) details will be updated accordingly and a message window to that effect will be displayed  <p>On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the 'Manage Profiles' grid

Delete

Home Location Register → Location Services → External Client → Manage → Delete

Delete enables the user to delete existing external clients.

On clicking the '**Delete**' link of a chosen 'Profile' (from the external clients List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile- external clients.

The screen below shows the details related to an existing External Client profile, which enables the user to delete the same (Profile).

LCS Client Name XYZ

Client Address	Restriction	Notification
7676	GMLC-LIST	NotifyLocationAllowed

Delete **Home**

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (external client) <p>On clicking the OK button of the alert window, the chosen PDP profile will be deleted and a message window to that effect will be displayed</p>
	<p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Manage Profiles' grid

Searching for a specific External Clients Profile (Record)

Search **LCS Client Name** **Go**

Select Column **LCS Client Name**

STEP	ACTION
1.	Select a search criterion (LCS Client Name) from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion (LCS Client Name) will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the LCS Client Name that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding External Clients Profile (record) will be highlighted among the list of External Clients Profile records.

The screen below depicts fetching and displaying the give External Clients Profile record.

LCS Client Name	Status	Action
34423	CREATED	Modify Delete
ABC	CREATED	Modify Delete
DD2	CREATED	Modify Delete
Demo	REJECTED	Modify Delete
ECFf	CREATED	Modify Delete
External Clients Test	CREATED	Modify Delete
GHJ	CREATED	Modify Delete
GMLC	CREATED	Modify Delete
Test	CREATED	Modify Delete
THU	CREATED	Modify Delete

11.4 LCS Profiles

In this section user can create, view, and modify the LCS profile. User can also approve or reject the LCS profile.

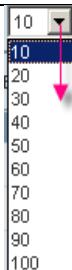
Create / View

Home Location Register → Location Services → LCS Profiles → Create / View

This allows the user to create a new profile and peruse the details related to the existing profiles

The screen below shows the list of various LCS profiles in a grid.

Create / View			
Search		Select Column	Go
		View Per Page 10	
Create		1 2	
Profile Name	Status	Action	
ABC	CREATED	View	
Dd1	CREATED	View	
DemoLCS	CREATED	View	
LCS Profile	CREATED	View	
MNO	CREATED	View	
PP1	CREATED	View	
Profile	CREATED	View	
Test	CREATED	View	
TestLCS	CREATED	View	
XXX	CREATED	View	

STEP	ACTION
1.	By default, the list of profiles (LCS) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (LCS Profile)
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'LCS Profile' main page

Create

[Home Location Register](#) → [Location Services](#) → [LCS Profiles](#) → [Create / View](#)

Create enables the user to create a new profile (LCS Profile) and attribute various values to constitute the same.

The screen below shows creating a new profile as LCS Profile

Create

Profile Name | Test | Indicates Mandatory

Universal

Call / Session Related

SS Status | Active and Operative

Notification | NotifyLocationAllowed

Call / Session Unrelated

SS Status | Provisioned

Notification | NotifyAndVerify-LocationAllowedIfNoResponse

External Client | Select

PLMN Operator Class

PLMN Client list

broadcastService
o-andM-HPLMN
o-andM-VPLMN
anonymousLocation
targetMSsubscribedService

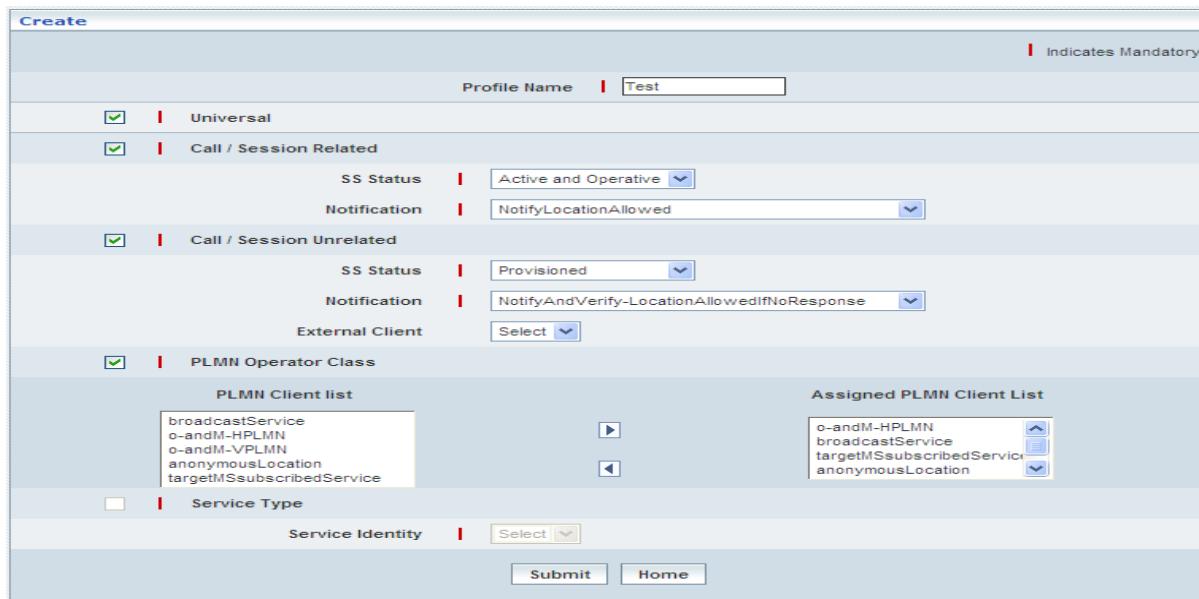
Assigned PLMN Client List

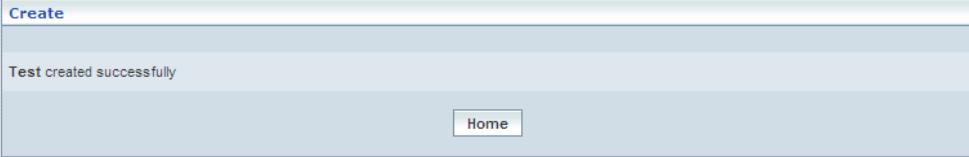
o-andM-HPLMN
broadcastService
targetMSsubscribedService
anonymousLocation

Service Type

Service Identity | Select

Submit | Home



STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is mandatory information  Indicates Mandatory .
2.	Enter name of the profile name in <Profile Name> field.
3.	LCS profile contains five SS codes including Universal, Call/Session Related, Call/Session Unrelated, PLMN Operator Class, and Service Type. User can either select Universal, Call/Session Related, Call/Session Unrelated, PLMN Operator Class or Service Type.
4.	Select 'Universal'.
5.	Select 'Call/Session Related'. The <SS Status> and <Notification> fields are activated only if the 'Call/Session Related' is selected. User has to enter the activated details.
6.	Select 'Call/Session Unrelated'. The <SS Status>, <Notification> and <External Client> fields are activated only if the 'Call/Session Unrelated' is selected. User has to enter the activated details.
7.	Select 'PLMN Operator Class'. The list of <PLMN Client list> is activated. User has to map at least one PLMN client to the <Assigned PLMN Client List>.
8.	Select 'Service Type'. Choose the identity. User can choose the identity only if the service type is selected. User has to enter the activated details.
9.	On clicking the Submit button, new profile (LCS) will be created and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the 'LCS Profiles' grid
10.	On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the 'LCS Profiles' grid

View

Home Location Register → Location Services → LCS Profiles → Create / View

View enables the user to peruse details related to chosen profile (LCS Profile).

On clicking the '**View**' link of a chosen 'Profile' (from the LCS Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile – LCS.

The screen below displays the details related to chosen profile (LCS Profile)

Profile Name		Test
Universal		
Call / Session Related		
SS Status	Active and Operative	
Notification	NotifyLocationAllowed	
Call / Session Unrelated		
SS Status	Provisioned	
Notification	NotifyAndVerify-LocationAllowedIfNoResponse	
External Client	--	
PLMN Operator Class		
PLMN Client list	o-andM-HPLMN broadcastService targetMSsubscribedService anonymousLocation o-andM-VPLMN	
Home		

STEP	ACTION
1.	User can peruse details related to the chosen LCS Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'LCS Profiles' grid

Searching for a specific LCS Profile (Record)



STEP	ACTION
1.	Select a search criterion (Profile Name) from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion (Profile Name) will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the Profile Name that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding LCS Profile (record) will be highlighted among the list of LCS Profile records.

The screen below depicts fetching and displaying the give LCS Profile record.

Profile Name	Status	Action
ABC	CREATED	View
Dd1	CREATED	View
DemoLCS	CREATED	View
LCS Profile	CREATED	View
MNO	CREATED	View
PP1	CREATED	View
Profile	CREATED	View
Test	CREATED	View
TestLCS	CREATED	View
XXX	CREATED	View

Manage

Home Location Register → Location Services → LCS Profiles → Manage

'Manage' helps the user modifying and deleting (managing) a chosen LCS profile that was created, but still to be approved. This module also helps **approving** or **rejecting** the profile.

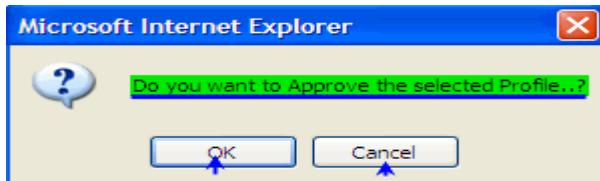
Initially, 'LCS displays a grid showing the list of existing LCS Profiles that were configured and created.

The screen below shows the list of various LCS (Profiles) configurations in a grid.

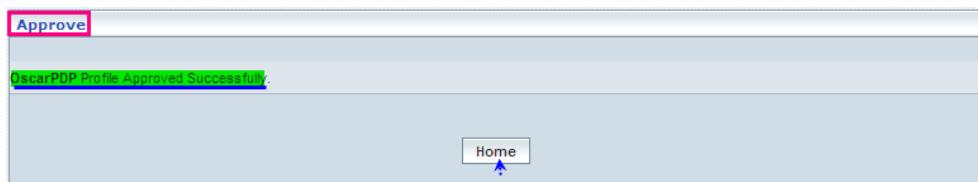
	Profile Name	Status	Action
<input type="radio"/>	ABC	CREATED	Modify Delete
<input type="radio"/>	Dd1	CREATED	Modify Delete
<input type="radio"/>	DemoLCS	CREATED	Modify Delete
<input checked="" type="radio"/>	LCS Profile	CREATED	Modify Delete
<input type="radio"/>	MNO	CREATED	Modify Delete
<input type="radio"/>	PP1	CREATED	Modify Delete
<input type="radio"/>	Profile	CREATED	Modify Delete
<input type="radio"/>	Test	CREATED	Modify Delete
<input type="radio"/>	TestLCS	CREATED	Modify Delete
<input type="radio"/>	XXX	CREATED	Modify Delete

STEP	ACTION
1.	By default, the list of LCS profiles will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
4.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
5.	<p>To Approve a Profile:</p> <p>Select the corresponding radio option of the desired profile to approve the same</p>

- 6.** On clicking the **Approve** button, an alert window message will be displayed enabling the user to confirm approval of the chosen profile



On clicking the **OK** button of the alert window, the chosen profile will be approved and a message window to that effect will be displayed



On clicking the **Cancel** button of the alert window, it retains the 'Manage Profiles' grid

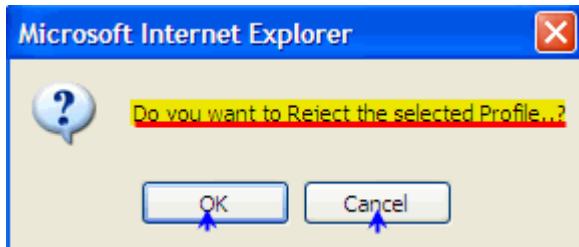
On clicking the **Home** button of the message window, it redirects the user to the 'Manage Profiles' grid

NOTE: The Profile that was approved will be disappeared from the 'Manage Profiles' grid. However, status related to the Profile will be dynamically updated (changed to 'Approved' from 'Created') in the 'Profiles' grid

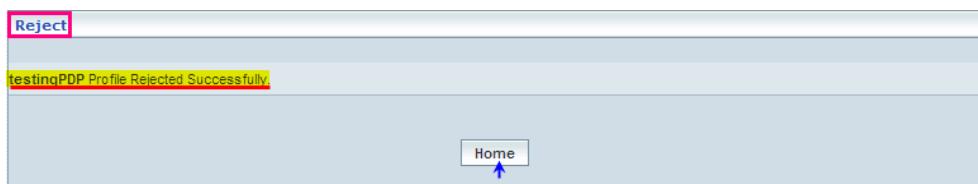
- 7.** **To Reject a Profile:**

Select the corresponding radio option of the desired profile to reject the same

- 8.** On clicking the **Reject** button, an alert window message will be displayed enabling the user to confirm rejection of the chosen profile



On clicking the **OK** button of the alert window, the chosen profile will be rejected and a message window to that effect will be displayed



On clicking the **Home** button of the alert window, it retains the 'Manage Profiles' grid

On clicking the **Home** button of the message window, it redirects the user to the 'Manage Profiles' grid

NOTE: Status related to the Profile will be dynamically updated (changed to 'Rejected' from 'Created') in the Profiles grid and as well as in 'Manage Profiles' grid

* Once rejected profile can always be approved any time later by way of similar process of approving a profile

- 9.** On clicking the **Home** button at the bottom of the grid, it redirects the user to the 'LCS Profiles' main page

Modify

Home Location Register → Location Services → LCS Profiles → Manage → Modify

Modify enables the user to modify / update the details related to an existing LCS profile.

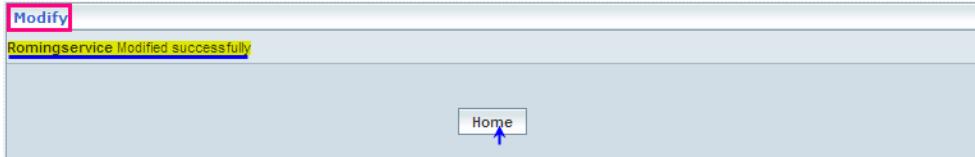
On clicking the '**Modify**' link of a chosen 'Profile' (from the LCS Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile – LCS profile.

The screen below shows modifying / updating the details related to an existing LCS profile.

Modify

Indicates Mandatory

Profile Name		SSSA
<input checked="" type="checkbox"/> Universal		
<input type="checkbox"/> Call / Session Related		
SS Status	<input type="button" value="Select"/>	
Notification	<input type="button" value="Select"/>	
<input type="checkbox"/> Call / Session Unrelated		
SS Status	<input type="button" value="Select"/>	
Notification	<input type="button" value="Select"/>	
External Client <input type="button" value="Select"/>		
<input type="checkbox"/> PLMN Operator Class		
PLMN Client list		Assigned PLMN Client List
<input type="checkbox"/> broadcastService <input type="checkbox"/> o-andM-HPLMN <input type="checkbox"/> o-andM-VPLMN <input type="checkbox"/> anonymousLocation <input type="checkbox"/> targetMISubscribedService		<input type="button" value="▶"/> <input type="button" value="◀"/>
<input type="checkbox"/> Service Type		
Service Identity <input type="button" value="Select"/>		
<input type="button" value="Submit"/> <input type="button" value="Home"/>		

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (LCS profile) details will be updated accordingly and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the 'Manage Profiles' grid

Delete

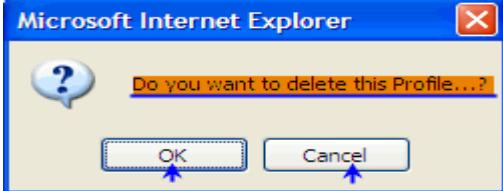
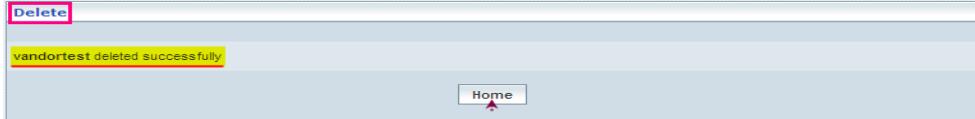
Home Location Register → Location Services → LCS Profiles → Manage → Delete

Delete enables the user to delete an existing LCS profile.

On clicking the '**Delete**' link of a chosen 'Profile' (from the LCS Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile.

The screen below shows the details related to an existing LCS profile, which enables the user to delete the same (Profile) – LCS.

Delete	
Indicates Mandatory	
Profile Name	SSSA
Universal	
<input type="button" value="Delete"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (LCS profile)</p>  <p>On clicking the OK button of the alert window, the chosen Mobile LCS profile will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Manage Profiles' grid

Searching for a specific LCS Profile (Record)



STEP	ACTION
1.	<p>Select a search criterion (Profile Name) from the drop-down list of the search criteria of the <Search> field</p> <p>* By default the list of search criterion (Profile Name) will be dynamically displayed as drop-down list of the <Search> field</p>
2.	Enter the Profile Name that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding LCS Profile (record) will be highlighted among the list of LCS Profile records.

The screen below depicts fetching and displaying the give LCS Profile record.

Manage				
Search		Select Column	Go	View Per Page 10
		Approve	Reject	1 2
		ABC	CREATED	Modify Delete
		Dd1	CREATED	Modify Delete
		DemoLCS	CREATED	Modify Delete
		LCS Profile	CREATED	Modify Delete
		MNO	CREATED	Modify Delete
		PP1	CREATED	Modify Delete
		Profile	CREATED	Modify Delete
		Test	CREATED	Modify Delete
		TestLCS	CREATED	Modify Delete
		XXX	CREATED	Modify Delete

Home

12 PDP Profile Management

Packet Data Protocol (PDP) Profile contains the data, PDP Type & Address related to a subscriber that needs to be permanently and conditionally stored in HLR (Home Location Register), SGSN (Serving GPRS Service Node) and GGSN (Gateway GPRS Support Node).

[Home Location Register → PDP Profile Management](#)

Initially, PDP Profile Management displays a grid showing the list of existing PDP Profiles that are configured and created. This list may include those profiles that are created and approved, created and rejected and also those created but still to be approved or rejected.

[Create / View](#)

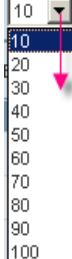
[Home Location Register → PDP Profile Management → Create / View](#)

This allows the user to create a new profile and peruse the details related to the existing profiles

The screen below shows the list of various PDP profiles in a grid.

<u>Create / View</u>			
Search Select Column Go		View Per Page 10	
Create		1 2	
Profile Name	Status	Action	
D1	CREATED	View	
Demoeee	CREATED	View	
P1	CREATED	View	
PDP1	CREATED	View	
PDP2	CREATED	View	
PDPTTest	APPROVED	View	
PDPTTestDemo	CREATED	View	
t10	CREATED	View	
Test	CREATED	View	
Test6767	CREATED	View	

Create	1 2
Home	

STEP	ACTION
1.	By default, the list of profiles (PDP Profiles) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
4.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (PDP Profile)
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'PDP Profiles Management' main page

Create

Home Location Register → PDP Profile Management → Create / View

Create enables the user to create a new profile (PDP Profile) and attribute various values to constitute the same.

The screen below shows creating a new profile as PDP Profile

Create		Indicates Mandatory
Profile Name	PDP TEST DEMO	
PDP Context Identifier	46	
PDP Type	ETSI	
Access Point Name	TT	
VPLMN Address Allowed	True	
GPRS Precedence Class	Normal Priority	
GPRS Delay Class	Delay Class 1	
GPRS Reliability Class	Unacknowledged GTP; Acknowledged LLC and RLC, Protected data	
GPRS Peak Throughput Class	Up to 2000(octet/s)	
GPRS Mean Throughput Class	200(octet/h)	
Allocation/Retention Priority	2	
Traffic Class	Conversational class	
Delivery Order	With delivery order ('yes')	
Delivery Of Erroneous SDU	Subscribed delivery of erroneous SDUs	
Maximum SDU Size	10 Octects	
Maximum Bit Rate For Uplink	1 kbps	
Maximum Bit Rate For Downlink	1 kbps	
Residual BER	5*10^-3	
SDU Error Ratio	7*10^-3	
Transfer Delay	20 ms	
Traffic Handling Priority	Priority level 1	
Guaranteed Bit Rate For Uplink	2 kbps	
Guaranteed Bit Rate For Downlink	13 kbps	
Source Statistics Descriptor	Speech	
Signalling Indication	Not optimized for signaling traffic	
m Bit Rate For Downlink (Extended)	10300 kbps	
:d Bit Rate For Downlink (Extended)	9800 kbps	
num Bit Rate For Uplink (Extended)	9400 kbps	
iteed Bit Rate For Uplink (Extended)	9100 kbps	
Extended QoS	Include Ext QoS	
APN Level APN OI Replacement		
<input type="button" value="Submit"/> <input type="button" value="Home"/>		

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the profile in <Profile Name> field, attributing to the proposed PDP Profile
3.	Enter a context identifier representing the PDP context identifier in the <PDP Context Identifier> field
4.	Select PDP type from the drop-down list of the <PDP Type> field * By default, the list of PDP types (ETSI / IETF) will be dynamically displayed as drop-down list of the <PDP Type> field
5.	Enter name of the access point in the <Access Point Name> field, to indicate location / trace of the access point for the proposed PDP Profile NOTE: Access Point Name length should be more than or equal to 2 characters
6.	Select the allowed VPLMN address, whether 'False' or 'True' from the drop-down list of the <VPLMN Address Allowed> field * By default, the list (True / False) will be dynamically displayed as drop-down list of the <VPLMN Address Allowed> field
7.	Select a class to indicate the GPRS Precedence from the drop-down list of the <GPRS Precedence Class> field * By default, the list of classes (Normal Priority / Low Priority / High Priority) will be dynamically displayed as drop-down list of the <GPRS Precedence Class> field
8.	Select a class to indicate the GPRS delay from the drop-down list of the <GPRS Delay Class> field * By default, the list of classes (1 / 2 / 3 / 4) will be dynamically displayed as drop-down list of the <GPRS Delay Class> field
9.	Select a class to indicate the GPRS Reliability from the drop-down list of the <GPRS Reliability Class> field * By default, the list of classes related to GPRS reliability will be dynamically displayed as drop-down list of the <GPRS Reliability Class> field
10.	Select a class to indicate the GPRS peak throughput from the drop-down list of the <GPRS Peak Throughput Class> field * By default, the list of classes related to GPRS peak throughput will be dynamically displayed as drop-down list of the <GPRS Peak Throughput Class> field

11.	Select a class to indicate the GPRS mean throughput from the drop-down list of the <GPRS Mean Throughput Class> field * By default, the list of classes related to GPRS peak throughput will be dynamically displayed as drop-down list of the <GPRS Mean Throughput Class> field
12.	Select a priority to indicate the allocation/retention from the drop-down list of the <Allocation/Retention Priority> field * By default, the list of priorities (1 / 2 / 3 / 4) will be dynamically displayed as drop-down list of the <Allocation/Retention Priority> field
13.	Select a class to indicate the Traffic from the drop-down list of the <Traffic Class> field * By default, the list of classes (Subscribed traffic class / Conversational class / Streaming class / Interactive class / Background class) will be dynamically displayed as drop-down list of the <Traffic Class> field
14.	Select an order to indicate the Deliver from the drop-down list of the <Deliver Order> field * By default, the list of orders (Subscribed delivery order / With delivery order ('yes') / Without delivery order ('no') / Reserved 1) will be dynamically displayed as drop-down list of the <Deliver Order> field
15.	Select a SDU to indicate the Delivery of Erroneous from the drop-down list of the <Delivery of Erroneous SDU> field * By default, the list of SDU related to Delivery of Erroneous reliability will be dynamically displayed as drop-down list of the <Delivery of Erroneous SDU> field
16.	Select a Size to indicate the Maximum SDU from the drop-down list of the <Maximum SDU Size> field * By default, the list of Size related to Maximum SDU reliability will be dynamically displayed as drop-down list of the <Maximum SDU Size> field
17.	Select a Maximum Bit Rate to indicate for Uplink from the drop-down list of the <Maximum Bit Rate For Uplink> field * By default, the list of Maximum Bit Rate related for Uplink reliability will be dynamically displayed as drop-down list of the <Maximum Bit Rate For Uplink> field

18.	Select a Maximum Bit Rate to indicate for Downlink from the drop-down list of the <Maximum Bit Rate For Downlink> field * By default, the list of Maximum Bit Rate related for Downlink reliability will be dynamically displayed as drop-down list of the <Maximum Bit Rate For Downlink> field
19.	Select a BER to indicate the Residual from the drop-down list of the <Residual BER> field * By default, the list of BER related to Residual reliability will be dynamically displayed as drop-down list of the <Residual BER> field
20.	Select an Error Ratio to indicate SDU from the drop-down list of the <SDU Error Ratio> field * By default, the list of Error Ratio related to SDU reliability will be dynamically displayed as drop-down list of the <SDU Error Ratio> field
21.	Select a Delay to indicate Transfer from the drop-down list of the <Transfer Delay> field * By default, the list of Delay related to Transfer reliability will be dynamically displayed as drop-down list of the <Transfer Delay> field
22.	Select a Priority to indicate Traffic Handling from the drop-down list of the <Traffic Handling Priority> field * By default, the list of Priority related to Transfer Handling reliability will be dynamically displayed as drop-down list of the <Traffic Handling Priority> field
23.	Select a Guaranteed Bit Rate to indicate for Uplink from the drop-down list of the <Guaranteed Bit Rate For Uplink> field * By default, the list of Guaranteed Bit Rate related For Uplink reliability will be dynamically displayed as drop-down list of the <Guaranteed Bit Rate For Uplink> field
24.	Select a Guaranteed Bit Rate to indicate for Downlink from the drop-down list of the <Guaranteed Bit Rate For Downlink> field * By default, the list of Guaranteed Bit Rate related for Downlink reliability will be dynamically displayed as drop-down list of the <Guaranteed Bit Rate For Downlink> field
25.	Select a Descriptor to indicate Source Statistics from the drop-down list of the <Source Statistics Descriptor> field * By default, the list of Descriptor related to Source Statistics reliability will be dynamically displayed as drop-down list of the <Source Statistics Descriptor> field

26.	Select an Indication to indicate Signaling from the drop-down list of the <Signaling Indication> field * By default, the list of Indication related to Signaling reliability will be dynamically displayed as drop-down list of the <Signaling Indication> field
27.	Select a Maximum Bit Rate to indicate for Downlink (Extended) from the drop-down list of the <Maximum Bit Rate For Downlink (Extended)> field * By default, the list of Maximum Bit Rate related For Downlink (Extended) reliability will be dynamically displayed as drop-down list of the <Maximum Bit Rate For Downlink (Extended)> field
28.	Select a Guaranteed Bit Rate to indicate for Downlink (Extended) from the drop-down list of the <Guaranteed Bit Rate For Downlink (Extended)> field * By default, the list of Guaranteed Bit Rate related For Downlink (Extended) reliability will be dynamically displayed as drop-down list of the <Guaranteed Bit Rate For Downlink (Extended)> field
29.	Select a Maximum Bit Rate to indicate for Uplink (Extended) from the drop-down list of the <Maximum Bit Rate For Uplink (Extended)> field * By default, the list of Maximum Bit Rate related For Uplink (Extended) reliability will be dynamically displayed as drop-down list of the <Maximum Bit Rate For Uplink (Extended)> field
30.	Select a Guaranteed Bit Rate to indicate for Uplink (Extended) from the drop-down list of the <Guaranteed Bit Rate For Uplink (Extended)> field * By default, the list of Guaranteed Bit Rate related For Uplink (Extended) reliability will be dynamically displayed as drop-down list of the <Guaranteed Bit Rate For Uplink (Extended)> field
31.	Select Extended QOS from the drop down list
32.	APN Level APN OI Replacement: Enter a name in order to locate the home GGSN. The configured profiles shall be displayed/available at PDP Profiles during the configuration of Home Profiles. For more information, refer <i>Subscriber Profile Management > Home Profile</i> .

33.	On clicking the Submit button, new profile (PDP Profile) will be created and a message window to that effect will be displayed 
34.	On clicking the Home button of the message window, it directs the user back to the 'PDP Profiles' grid

View

[Home Location Register](#) → [PDP Profile Management](#) → [Create / View](#)

View enables the user to peruse details related to chosen profile (PDP Profile).

On clicking the '**View**' link of a chosen 'Profile' (from the PDP Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile - PDP.

The screen below displays the details related to chosen profile (PDP Profile)

View	
Profile Name	PDPTestDemo
PDP Context Identifier	46
PDP Type	ETSI
Access Point Name	TTt
VPLMN Address Allowed	True
GPRS Precedence Class	Normal Priority
GPRS Delay Class	Delay Class 1
GPRS Reliability Class	Unacknowledged GTP; Acknowledged LLC and RLC; Protected data
GPRS Peak Throughput Class	Up to 2000(octet/s)
GPRS Mean Throughput Class	200(octet/h)
Allocation/Retention Priority	2
Traffic Class	Conversational class
Delivery Order	With delivery order ('yes')
Delivery Of Erroneous SDU	Subscribed delivery of erroneous SDUs
Maximum SDU Size	10 Octects
Maximum Bit Rate For Uplink	1 kbps
Maximum Bit Rate For Downlink	1 kbps
Maximum Bit Rate For Downlink	1 kbps
Residual BER	5*10^-3
SDU Error Ratio	7*10^-3
Transfer Delay	20 ms
Traffic Handling Priority	Priority level 1
Guaranteed Bit Rate For Uplink	2 kbps
Guaranteed Bit Rate For Downlink	13 kbps
Source Statistics Descriptor	Speech
Signalling Indication	Not optimized for signaling traffic
Maximum Bit Rate For Downlink (Extended)	10300 kbps
Guaranteed Bit Rate For Downlink (Extended)	9800 kbps
Maximum Bit Rate For Uplink (Extended)	9400 kbps
Guaranteed Bit Rate For Uplink (Extended)	9100 kbps
Home	

STEP	ACTION
1.	User can peruse details related to the chosen PDP Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'PDP Profiles' grid

Searching for a specific PDP Profile Management (Record)

The screenshot shows a search interface for PDP profiles. At the top left is a 'Search' label. Below it is a dropdown menu set to 'Profile Name' with a downward arrow. To its right is a text input field. Further right is a 'Go' button with a red arrow pointing to it. Below these elements is a horizontal line with a red arrow pointing to the word 'Profile Name'.

STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding PDP Profile Management (record) will be highlighted among the list of PDP Profile Management records.

The screen below depicts fetching and displaying the give PDP Profile Managements record.

The screenshot shows a 'Create / View' interface for managing PDP Profile Management records. At the top, there is a search bar with 'Select Column' dropdown, a 'Go' button, and a 'View Per Page' dropdown set to 10. Below the search bar is a 'Create' button. The main area is a table with three columns: 'Profile Name', 'Status', and 'Action'. The table contains several rows of data. One specific row, 'PDPTest', is highlighted with a blue background and has the status 'APPROVED'. The 'Action' column for this row contains a 'View' link. Other rows include 'D1', 'Demoeee', 'P1', 'PDP1', 'PDP2', 'PDPTestDemo', 't10', 'Test', and 'Test6767', all with 'CREATED' status and 'View' action links. At the bottom of the table area are two 'Create' buttons and a 'Home' button.

Profile Name	Status	Action
D1	CREATED	View
Demoeee	CREATED	View
P1	CREATED	View
PDP1	CREATED	View
PDP2	CREATED	View
PDPTest	APPROVED	View
PDPTestDemo	CREATED	View
t10	CREATED	View
Test	CREATED	View
Test6767	CREATED	View

Manage

Home Location Register → PDP Profile Management → Manage

'Manage' helps the user modifying and deleting (managing) a chosen PDP profile that was created, but still to be approved. This module also helps **approving** or **rejecting** the profile.

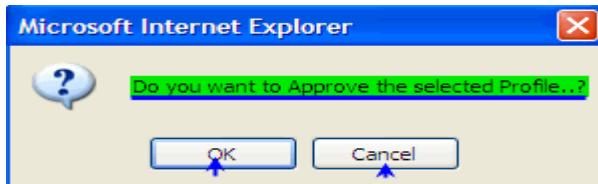
Initially, 'PDP Profiles' displays a grid showing the list of existing PDP Profiles that were configured and created.

The screen below shows the list of various PDP (Profiles) configurations in a grid.

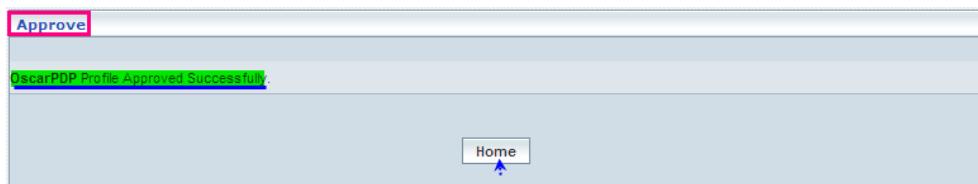
Profile Name	Status	Action
D1	CREATED	Modify Delete
Demoeee	CREATED	Modify Delete
P1	CREATED	Modify Delete
PDP1	CREATED	Modify Delete
PDP2	CREATED	Modify Delete
PDPDemo	CREATED	Modify Delete
PDPSetDemo	CREATED	Modify Delete
t10	CREATED	Modify Delete
Test	CREATED	Modify Delete
Test6767	CREATED	Modify Delete

STEP	ACTION
1.	By default, the list of PDP profiles will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid. However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
4.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
5.	<p>To Approve a Profile:</p> <p>Select the corresponding radio option of the desired profile to approve the same</p>

- 6.** On clicking the **Approve** button, an alert window message will be displayed enabling the user to confirm approval of the chosen profile



On clicking the **OK** button of the alert window, the chosen profile will be approved and a message window to that effect will be displayed



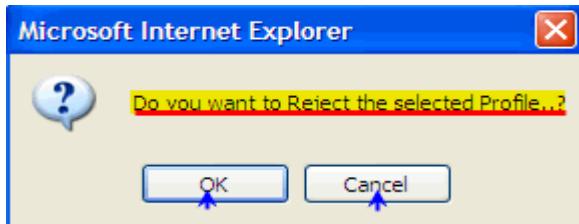
On clicking the **Cancel** button of the alert window, it retains the 'Manage Profiles' grid

On clicking the Home button of the message window, it redirects the user to the 'Manage Profiles' grid

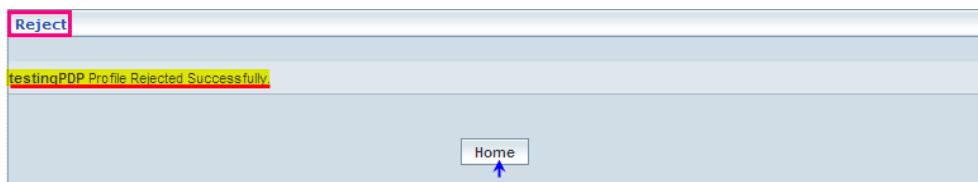
NOTE: The Profile that was approved will be disappeared from the 'Manage Profiles' grid. However, status related to the Profile will be dynamically updated (changed to 'Approved' from 'Created') in the 'PDP Profiles' grid

- 7.** **To Reject a Profile:**
Select the corresponding radio option of the desired profile to reject the same

- 8.** On clicking the **Reject** button, an alert window message will be displayed enabling the user to confirm rejection of the chosen profile



On clicking the **OK** button of the alert window, the chosen profile will be rejected and a message window to that effect will be displayed



On clicking the **Cancel** button of the alert window, it retains the 'Manage Profiles' grid

On clicking the **Home** button of the message window, it redirects the user to the 'Manage Profiles' grid

NOTE: Status related to the Profile will be dynamically updated (changed to 'Rejected' from 'Created') in the PDP Profiles grid and as well as in 'Manage Profiles' grid

* Once rejected profile can always be approved any time later by way of similar process of approving a profile

- 9.** On clicking the **Home** button at the bottom of the grid, it redirects the user to the 'PDP Profiles Management' main page

Modify

Home Location Register → PDP Profile Management → Manage → Modify

Modify enables the user to modify / update the details related to an existing PDP profile.

On clicking the '**Modify**' link of a chosen 'Profile' (from the PDP Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile- PDP.

The screen below shows modifying / updating the details related to an existing PDP profile.

Modify

Indicates Mandatory

Profile Name	PDPTestDemo
PDP Context Identifier	46
PDP Type	ETSI
Access Point Name	TIt
VPLMN Address Allowed	True
GPRS Precedence Class	Normal Priority
GPRS Delay Class	Delay Class 1
GPRS Reliability Class	Unacknowledged GTP; Acknowledged LLC and RLC, Protected data
GPRS Peak Throughput Class	Up to 2000(octet/s)
GPRS Mean Throughput Class	200(octet/h)
Allocation/Retention Priority	2
Traffic Class	Conversational class
Delivery Order	With delivery order ('yes')
Delivery Of Erroneous SDU	Subscribed delivery of erroneous SDUs
Maximum SDU Size	10 Octects
Maximum Bit Rate For Uplink	1 kbps
Maximum Bit Rate For Downlink	1 kbps
Residual BER	5*10^-3
SDU Error Ratio	7*10^-3
Transfer Delay	60 ms
Traffic Handling Priority	Priority level 1
Guaranteed Bit Rate For Uplink	2 kbps
Guaranteed Bit Rate For Downlink	13 kbps
Source Statistics Descriptor	Speech
Signalling Indication	Not optimized for signaling traffic
Maximum Bit Rate For Downlink (Extended)	10300 kbps
Guaranteed Bit Rate For Downlink (Extended)	9800 kbps
Maximum Bit Rate For Uplink (Extended)	9400 kbps
Guaranteed Bit Rate For Uplink (Extended)	9100 kbps
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (PDP profile) details will be updated accordingly and a message window to that effect will be displayed  <p>On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the 'Manage Profiles' grid

Delete

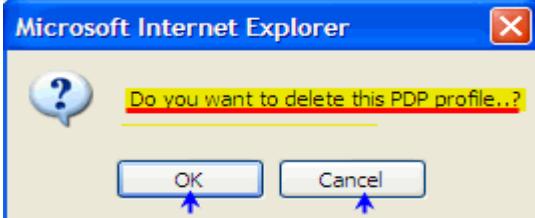
Home Location Register → PDP Profile Management → Manage → Delete

Delete enables the user to delete an existing PDP profile.

On clicking the '**Delete**' link of a chosen 'Profile' (from the PDP Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile- PDP.

The screen below shows the details related to an existing PDP profile, which enables the user to delete the same (Profile).

Delete	
Profile Name	Test
PDP Context Identifier	34
PDP Type	ETSI
Access Point Name	htrh
VPLMN Address Allowed	True
GPRS Precedence Class	High Priority
GPRS Delay Class	Reserved-000
GPRS Reliability Class	Unacknowledged GTP and LLC; Acknowledged RLC; Protected data
GPRS Peak Throughput Class	Up to 8000(octet/s)
GPRS Mean Throughput Class	1000(octet/h)
Allocation/Retention Priority	1
Traffic Class	Conversational class
Delivery Order	With delivery order ('yes')
Delivery Of Erroneous SDU	Erroneous SDUs are delivered ('yes')
Maximum SDU Size	20 Octects
Maximum Bit Rate For Uplink	1 kbps
Maximum Bit Rate For Downlink	2 kbps
Residual BER	5*10^-3
SDU Error Ratio	1*10^-3
Transfer Delay	30 ms
Traffic Handling Priority	Priority level 3
Guaranteed Bit Rate For Uplink	1 kbps
Guaranteed Bit Rate For Downlink	16 kbps
Source Statistics Descriptor	Speech
Signalling Indication	Not optimized for signaling traffic
Maximum Bit Rate For Downlink (Extended)	10200 kbps
Guaranteed Bit Rate For Downlink (Extended)	9500 kbps
Maximum Bit Rate For Uplink (Extended)	9300 kbps
Guaranteed Bit Rate For Uplink (Extended)	9000 kbps
Delete Home	

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (PDP profile)  <p>On clicking the OK button of the alert window, the chosen PDP profile will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Manage Profiles' grid

[Searching for a specific PDP Profile Management \(Record\)](#)



STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field <i>* By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field</i>
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding PDP Profile Management (record) will be highlighted among the list of PDP Profile Management records.

The screen below depicts fetching and displaying the give PDP Profile Managements record.

Manage					
Search		Select Column	Go	View Per Page 10	
		Approve	Reject	1 2	
	Profile Name	Status	Action		
<input type="radio"/>	D1	CREATED	Modify Delete		
<input type="radio"/>	Demoeee	CREATED	Modify Delete		
<input type="radio"/>	K10	CREATED	Modify Delete		
<input type="radio"/>	L10	CREATED	Modify Delete		
<input type="radio"/>	P1	CREATED	Modify Delete		
<input type="radio"/>	PDP1	CREATED	Modify Delete		
<input type="radio"/>	PDP2	CREATED	Modify Delete		
<input type="radio"/>	PDPTestDemo	CREATED	Modify Delete		
<input type="radio"/>	t10	CREATED	Modify Delete		
<input type="radio"/>	Test6767	CREATED	Modify Delete		

1 2

13 Bearer Capability Profiles

Bearer Capability Profile contains the data that needs to be permanently and conditionally stored in HLR (ITC value and Service Code) along with other attributes (Home Location Register).

[Home Location Register → Bearer Capability Profiles](#)

Initially, Bearer Capability Profile displays a grid showing the list of existing profiles that are configured and created. This list may include those profiles that are created and approved, created and rejected and also those created but still to be approved or rejected.

[Create / View](#)

[Home Location Register → Bearer Capability Profiles → Create / View](#)

This allows the user to create a new profile and peruse the details related to the existing profiles

The screen below shows the list of various Bearer Capability profiles in a grid.

The screenshot shows a web-based application interface for managing Bearer Capability Profiles. At the top, there is a header bar with the title "Create / View". Below the header, there is a search bar with a dropdown menu labeled "Select Column" and a "Go" button. To the right of the search bar is a "View Per Page" dropdown set to "10". A "Create" button is located in the top-left corner of the main content area. The main content is a grid table with three columns: "Profile Name", "Status", and "Action". The "Profile Name" column lists ten entries: "BearerTest", "CMN", "DemoBCP", "L10", "L909", "MBO", "T1", "TestBCP", "Testuuu", and "tyt". The "Status" column for all entries is "CREATED". The "Action" column contains a single "View" link for each row. At the bottom of the grid, there is another "Create" button and a "Home" button.

Profile Name	Status	Action
BearerTest	CREATED	View
CMN	CREATED	View
DemoBCP	CREATED	View
L10	CREATED	View
L909	CREATED	View
MBO	CREATED	View
T1	CREATED	View
TestBCP	CREATED	View
Testuuu	CREATED	View
tyt	CREATED	View

STEP	ACTION
1.	By default, the list of profiles (Bearer Capability Profiles) will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number' </p>
2	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
3.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (Bearer Capability Profile)
4.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile
5.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Bearer Capability Profiles' main page

Create:

Home Location Register → Bearer Capability Profiles → Create / View

Create enables the user to create a new profile (Bearer Capability Profile) and attribute various values to constitute the same.

The screen below shows creating a new profile as Bearer Capability Profile

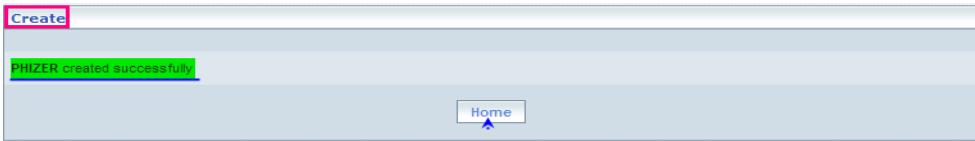
Create

[!] Indicates Mandatory

Profile Name	PHIZER	Enter name of the profile attributing to Bearer Capability Profile
ITC	Unrestricted digital Information	
Service Code	DataCDS-Services	
User Rate	2.4 kbit/s	
Radio Channel Requirement	full rate	
Compression	data compression not possible	
Structure	service data unit integrity	
Signal Access Protocol	I.440/450	
Connection Element	non transparent	
UIMI	User initiated modification up to 2 TCH/F	
Modem Type	V.26 ter	
Rate Adaption	ITU-T X.31 flag stuffing	
UIL2P	videotex profile 1	
Description	Phizer created	

Submit **Home**

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Select ITC value from the drop-down list of the <ITC> field * By default, the list of ITC values (Speech / Unrestricted Digital Information / 3.1 KHz audio / Restricted Digital Information) will be dynamically displayed as drop-down list of the <ITC> field
3.	Select a service code from the drop-down list of the <Service Code> field * By default, the list of service codes will be dynamically displayed as drop-down list of the <Service Code> field
4.	Select a 'user rate' from the drop-down list of the <User Rate> field * By default, the list of user rates will be dynamically displayed as drop-down list of the <User Rate> field
5.	Select a 'radio channel requirement' from the drop-down list of the <Radio Channel Requirement> field * By default, the list of radio channel requirements will be dynamically displayed as drop-down list of the <Radio Channel Requirement> field
6.	Select a 'compression value' from the drop-down list of the <Compression> field * By default, the list of compression values will be dynamically displayed as drop-down list of the <Compression> field
7.	Select a structure value from the drop-down list of the <Structure> field * By default, the list of structure values will be dynamically displayed as drop-down list of the <Structure> field
8.	Select a value of signal access protocol from the drop-down list of the <Signal Access Protocol> field * By default, the list of signal access protocols will be dynamically displayed as drop-down list of the <Signal Access Protocol> field
9.	Select a value for 'connection element' from the drop-down list of the <Connection Element> field * By default, the list of connection elements will be dynamically displayed as drop-down list of the <Connection Element> field
10.	Select a value for UIMI from the drop-down list of the <UIMI> field * By default, the list of values for UIMI will be dynamically displayed as drop-down list of the <UIMI> field

11.	Select a value for Modern Type from the drop-down list of the <Modern Type> field * By default, the list of values for Modern types will be dynamically displayed as drop-down list of the <Modern Type> field
12.	Select a value for rate adaption from the drop-down list of the <Rate Adaption> field * By default, the list of values for rate adaption will be dynamically displayed as drop-down list of the <Rate Adaption>field
13.	Select a value for UIL2P from the drop-down list of the <UIL2P> field * By default, the list of values for UIMI will be dynamically displayed as drop-down list of the <UIL2P> field
14.	On clicking the Submit button, new profile (Bearer Capability Profile) will be created and a message window to that effect will be displayed 
15.	On clicking the Home button of the message window, it directs the user back to the Bearer Capability Profiles grid

View

Home Location Register → Bearer Capability Profiles → Create / View

View enables the user to peruse details related to chosen profile (Bearer Capability Profile).

On clicking the '**View**' link of a chosen 'Profile' (from the Bearer Capability Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile - Bearer Capability.

The screen below displays the details related to chosen profile (Bearer Capability Profile)

View	
Profile Name	PHIZER
ITC	Unrestricted digital Information
Service Code	T12 EmergencyCalls
User Rate	4.8 kbit/s
Radio Channel Requirement	-
Compression	data compression possible
Structure	unstructured
Signal Access Protocol	I.440/450
Connection Element	transparent
UIMI	User initiated modification up to 2 TCH/F
Modem Type	V.22
Rate Adaption	ITU-T X.31 flag stuffing
UIL2P	videotex profile 1
Description	Phizer is created
Home	

STEP	ACTION
1.	User can peruse details related to the chosen Bearer Capability Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'Bearer Capability Profiles' Screen

Searching for a specific Bearer Capability Profiles (Record)



STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Bearer Capability Profiles (record) will be highlighted among the list of Bearer Capability Profiles records.

The screen below depicts fetching and displaying the give Bearer Capability Profiles record.

Create / View			
Search		View Per Page	
Create		1 2	
Profile Name	Status	Action	
BearerTest	CREATED	View	
CMN	CREATED	View	
DemoBCP	CREATED	View	
L10	CREATED	View	
L909	CREATED	View	
MBO	CREATED	View	
T1	CREATED	View	
TestBCP	CREATED	View	
Testuuu	CREATED	View	
tyt	CREATED	View	

Create Home 1 2

Manage

Home Location Register → Bearer Capability Profiles → Manage

'Manage' helps the user modifying and deleting (managing) a chosen Bearer Capability Profile that was created, but still to be approved. This module also helps **approving** or **rejecting** the profile.

Initially, 'Bearer Capability Profiles' displays a grid showing the list of existing Bearer Capability Profiles that were configured and created.

The screen below shows the list of various Bearer Capability (Profiles) configurations in a grid.

Manage

Search Select Column Go View Per Page 10

Approve Reject 1 2

	Profile Name	Status	Action
<input type="radio"/>	BeareTest	CREATED	Modify Delete
<input type="radio"/>	CMN	CREATED	Modify Delete
<input checked="" type="radio"/>	DemoBCP	CREATED	Modify Delete
<input type="radio"/>	1	CREATED	Modify Delete
<input type="radio"/>	L909	CREATED	Modify Delete
<input type="radio"/>	MBO	CREATED	Modify Delete
<input type="radio"/>	T1	CREATED	Modify Delete
<input type="radio"/>	TestBCP	CREATED	Modify Delete
<input type="radio"/>	Testuuu	CREATED	Modify Delete
<input type="radio"/>	tyt	CREATED	Modify Delete

Sort Ascending Sort Descending

Select either to Approve or Reject

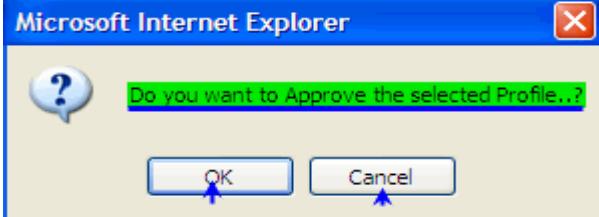
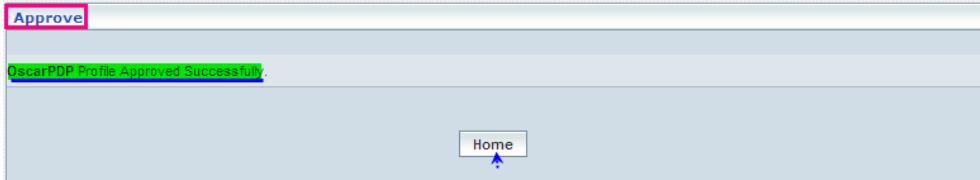
Approve Reject 1 2

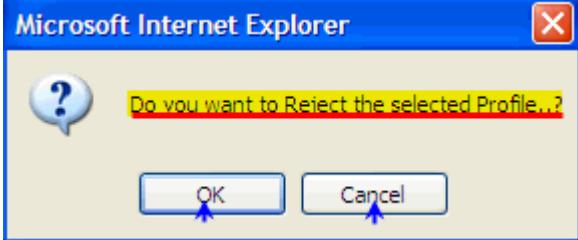
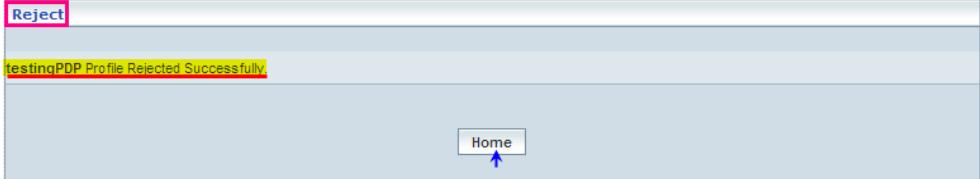
Home

The screenshot shows a table with columns: Profile Name, Status, and Action. The 'Profile Name' column has sorting arrows indicating 'Sort Ascending' (blue arrow pointing up) and 'Sort Descending' (red arrow pointing down). A red callout box highlights the 'DemoBCP' row, which has a green checkmark in its radio button column. The 'Action' column contains 'Modify' and 'Delete' links. At the top and bottom of the table are 'Approve' and 'Reject' buttons. The bottom right corner features a 'Home' button.

	Profile Name	Status	Action
<input type="radio"/>	BeareTest	CREATED	Modify Delete
<input type="radio"/>	CMN	CREATED	Modify Delete
<input checked="" type="radio"/>	DemoBCP	CREATED	Modify Delete
<input type="radio"/>	1	CREATED	Modify Delete
<input type="radio"/>	L909	CREATED	Modify Delete
<input type="radio"/>	MBO	CREATED	Modify Delete
<input type="radio"/>	T1	CREATED	Modify Delete
<input type="radio"/>	TestBCP	CREATED	Modify Delete
<input type="radio"/>	Testuuu	CREATED	Modify Delete
<input type="radio"/>	tyt	CREATED	Modify Delete

STEP	ACTION
1.	By default, the list of Bearer Capability profiles will be displayed as records in a grid. The columns include 'Profile Name', 'Status' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
2	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
3.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
4.	<p>To Approve a Profile:</p> <p>Select the corresponding radio option of the desired profile to approve the same</p>

<p>5.</p>	<p>On clicking the Approve button, an alert window message will be displayed enabling the user to confirm approval of the chosen profile</p>  <p>On clicking the OK button of the alert window, the chosen profile will be approved and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the 'Manage Profiles' grid</p> <p>On clicking the Home button of the message window, it redirects the user to the 'Manage Profiles' grid</p> <p>NOTE: The Profile that was approved will be disappeared from the 'Manage Profiles' grid. However, status related to the Profile will be dynamically updated (changed to 'Approved' from 'Created') in the 'Bearer Capability Profiles' grid</p>
<p>6.</p>	<p>To Reject a Profile:</p> <p>Select the corresponding radio option of the desired profile to reject the same</p>

7.	<p>On clicking the Reject button, an alert window message will be displayed enabling the user to confirm rejection of the chosen profile</p>  <p>On clicking the OK button of the alert window, the chosen profile will be rejected and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the 'Manage Profiles' grid</p> <p>On clicking the Home button of the message window, it redirects the user to the 'Manage Profiles' grid</p> <p>NOTE: Status related to the Profile will be dynamically updated (changed to 'Rejected' from 'Created') in the Bearer Capability Profiles grid and as well as in 'Manage Profiles' grid</p> <ul style="list-style-type: none"> * Once rejected profile can always be approved any time later by way of similar process of approving a profile
8.	<p>On clicking the Print button at the bottom of the grid, user can take printouts of the Profiles' list</p>
9.	<p>On clicking the Home button at the bottom of the grid, it redirects the user to the 'Bearer Capability Profiles' main page</p>

Modify

[Home Location Register](#) → [Bearer Capability Profiles](#) → [Manage](#) → [Modify](#)

Modify enables the user to modify / update the details related to an existing Bearer Capability Profile.

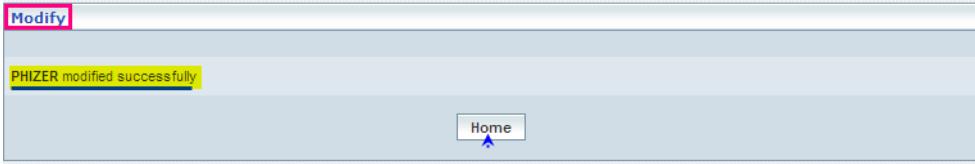
On clicking the '**Modify**' link of a chosen 'Profile' (from the Bearer Capability Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile- Bearer Capability.

The screen below shows modifying / updating the details related to an existing Bearer Capability Profile.

Modify * User can make necessary changes / updates to the values configured earlier

Indicates Mandatory

Profile Name	PHIZER Name of the profile will be dynamically displayed and it cannot be modified
ITC	Unrestricted digital Information
Service Code	T12 EmergencyCalls
User Rate	4.8 kbit/s
Radio Channel Requirement	Select
Compression	data compression possible
Structure	unstructured
Signal Access Protocol	I.440/450
Connection Element	transparent
UIMI	User initiated modification up to 2 TCH/F
Modem Type	V.22
Rate Adaption	ITU-T X.31 flag stuffing
UIL2P	videotex profile 1
Description	Phizer is created
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (Bearer Capability Profile) details will be updated accordingly and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the 'Manage Profiles' grid

Delete

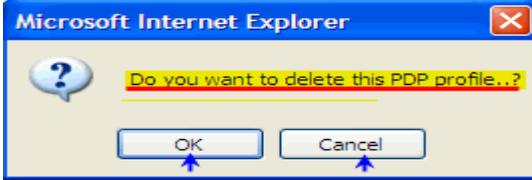
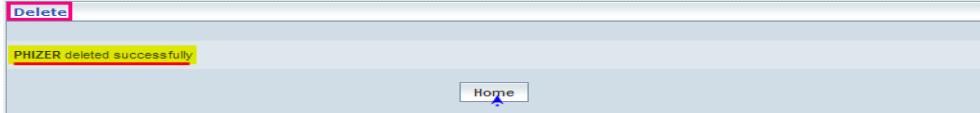
Home Location Register → Bearer Capability Profiles → Manage → Delete

Delete enables the user to delete an existing Bearer Capability Profile.

On clicking the '**Delete**' link of a chosen 'Profile' (from the Bearer Capability Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile- Bearer Capability.

The screen below shows the details related to an existing Bearer Capability Profile, which enables the user to delete the same (Profile).

Delete	
Profile Name	PHIZER
ITC	Unrestricted digital Information
Service Code	T12 EmergencyCalls
User Rate	4.8 kbit/s
Radio Channel Requirement	-
Compression	data compression possible
Structure	unstructured
Signal Access Protocol	I.440/450
Connection Element	transparent
UIMI	User initiated modification up to 2 TCH/F
Modem Type	V.22
Rate Adaption	ITU-T X.31 flag stuffing
UIL2P	ISO 6429, codeset 0 (DC1/DC3)
Description	Phizer is created
Delete Home	

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (Bearer Capability Profile)  <p>On clicking the OK button of the alert window, the chosen Bearer Capability Profile will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Manage Profiles' grid

Searching for a specific Bearer Capability Profiles (Record)



The screenshot shows a search interface with a 'Search' field containing a dropdown menu labeled 'Select Column'. Below the dropdown is another dropdown menu labeled 'Profile Name'. To the right of the search field is a 'Go' button with a red arrow pointing towards it.

STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Bearer Capability Profiles (record) will be highlighted among the list of Bearer Capability Profiles records.

The screen below depicts fetching and displaying the give Bearer Capability Profiles record.

Manage				
Search		Select Column	Go	View Per Page 10
		Approve	Reject	1 2
		Profile Name	Status	Action
<input type="radio"/>	BearerTest	CREATED	Modify	Delete
<input type="radio"/>	CMN	CREATED	Modify	Delete
<input type="radio"/>	DemoBCP	CREATED	Modify	Delete
<input type="radio"/>	L10	CREATED	Modify	Delete
<input type="radio"/>	L909	CREATED	Modify	Delete
<input type="radio"/>	MBO	CREATED	Modify	Delete
<input type="radio"/>	T1	CREATED	Modify	Delete
<input type="radio"/>	TestBCP	CREATED	Modify	Delete
<input type="radio"/>	Testuuu	CREATED	Modify	Delete
<input type="radio"/>	tyt	CREATED	Modify	Delete

Approve Reject 1 2

Home

14 Special Services

Special Services contains the profiles, such as SoLSA (Support Of Location Service Area) and RSZI (Regional Subscription Zone Identity) related to a subscriber that needs to be permanently and conditionally stored in HLR (Home Location Register)

[Home Location Register → Special Services](#)

14.1 SoLSA

Initially, Special Services (SoLSA - Support Of Location Service Area) displays a grid showing the list of existing Profile that are configured and created. This list may include those profiles that are created, and managed by viewing, modifying and deleting the same.

Create

[Home Location Register → Special Services → SoLSA Profile → Create](#)

Create enables the user to create a new profile (SoLSA Profile) and attribute various values to constitute the same.

The screen below shows creating a new profile as SoLSA Profile

Create	
Note: Mapping format PLMN Name-LSA Name-LSA ID	
Indicates Mandatory	
Profile Name	SoLSATest
PLMN Name	65
LSA Details	trtr54-3333 secunderabad-45 begumpet-1965
LSA Only Access Indicator	Yes
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the profile in <Profile Name> field, attributing to the proposed SoLSA Profile
3.	Select name of the PLMN from <PLMN Name> drop-down list * By default, its related data gets displayed in <LSA Details> field
4.	Select the LSA Details and click  button to map at least one PLMN – LSA Details configuration. * If you want to un-map the same click  button
5.	Select the LSA Only Access Indicator, whether 'False' or 'True' from the drop-down list of the <LSA Only Access Indicator> field * By default, the list (True / False) will be dynamically displayed as drop-down list of the <LSA Only Access Indicator> field
6.	On clicking the Submit button, new profile (SoLSA Profile) will be created and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the 'Create' Screen
7.	On clicking the Home button of the 'Create' Screen (before creating any new profile), it directs the user to the 'SoLSA Profile' Screen

Manage

Home Location Register → Special Services → SoLSA Profile → Manage

'Manage' helps the user viewing, modifying and deleting (managing) a chosen SoLSA profile that was created.

Initially, 'SoLSA Profile' displays a grid showing the list of existing SoLSA Profile that were configured and created.

The screen below shows the list of various SoLSA (Profiles) configurations in a grid.

Manage				
Search		Select Column	Go	View Per Page
1 2				
1 2				
Profile Name	Action			
MobLSAHome	View		Modify	
rewrew	View		Modify	
rrrrrr	View		Modify	
Solsa_Rajesh	View		Modify	
fdfd	View		Modify	
tstlsaxius	View		Modify	
MobLSARoam	View		Modify	
MOBILYSOLSA	View		Modify	
SoLSATest	View		Modify	
Test1	View		Modify	

[Print](#)[Home](#)

STEP	ACTION
1.	By default, the list of SoLSA profiles will be displayed as records in a grid. The columns include 'Profile Name' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid. However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
2	On clicking the View link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to view details of the profile
3.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
4.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
5.	On clicking the Print button at the bottom of the grid, user can take printouts of the SoLSA Profile list
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'SoLSA Profile' main page

[View](#)

Home Location Register → Special Services → SoLSA Profile → Manage → View

View enables the user to peruse details related to chosen profile (SoLSA Profile).

On clicking the '**View**' link of a chosen 'Profile' (from the SoLSA Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile - SoLSA.

The screen below displays the details related to chosen profile (SoLSA Profile)

View	
Note: Mapping format PLMN Name-LSA Name-LSA ID	
Profile Name	MOBILYSOLSA
LSA Details	MOBILY1-MOBILYLSA-123456
LSA Only Access Indicator	Yes
Home	

STEP	ACTION
1.	User can peruse details related to the chosen SoLSA Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'SoLSA Profile' Screen

Modify

[Home Location Register](#) → [Special Services](#) → [SoLSA Profile](#) → [Manage](#) → [Modify](#)

Modify enables the user to modify / update the details related to an existing SoLSA profile.

On clicking the '**Modify**' link of a chosen 'Profile' (from the SoLSA Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile- SoLSA.

The screen below shows modifying / updating the details related to an existing SoLSA profile.

Note: Mapping format
PLMN Name-LSA Name-LSA ID

Profile Name	MOBILYSOLSA
PLMN Name	India
LSA Details	IndiLSA1-1 IndiLSA2-2 IndiLSA4-4 IndiLSA3-3 IndiLSA5-5 sasas-321 IndiLSA7-7 IndiLSA6-6
	MOBILY1-MOBILYLSA-123456
	Submit Home

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (SoLSA profile) details will be updated accordingly and a message window to that effect will be displayed
	<p>On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the 'Manage Profiles' grid

Delete

Home Location Register → Special Services → SoLSA Profile → Manage → Delete

Delete enables the user to delete an existing SoLSA profile.

On clicking the '**Delete**' link of a chosen 'Profile' (from the SoLSA Profile List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile- SoLSA.

The screen below shows the details related to an existing SoLSA profile, which enables the user to delete the same (Profile).

Delete

Note: Mapping format
PLMN Name-LSA Name-LSA ID

Profile Name	SoLSATest
LSA Details	
65-secunderabad-45	
LSA Only Access Indicator	
Yes	
<input type="button" value="Delete"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (SoLSA profile)</p> <p>On clicking the OK button of the alert window, the chosen SoLSA profile will be deleted and a message window to that effect will be displayed</p> <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Manage Profiles' grid

Searching for a specific SoLSA Profile (Record)

Search

Profile Name

Select Column

Profile Name

STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding SoLSA Profile (record) will be highlighted among the list of SoLSA Profile records.

The screen below depicts fetching and displaying the give SoLSA Profile record.

Manage

Profile Name	Action
MobLSAHome	View Modify Delete
rewrew	View Modify Delete
rrrrr	View Modify Delete
Solsa_Rajesh	View Modify Delete
fdfd	View Modify Delete
tstlsaxius	View Modify Delete
MobLSARoam	View Modify Delete
MOBILYSOLSA	View Modify Delete
SoLSATest	View Modify Delete
Test1	View Modify Delete

1 2

14.2 RSZI

Initially, Special Services (RSZI - Regional Subscription Zone Identity) displays a grid showing the list of existing Profile that are configured and created. This list may include those profiles that are created, and managed by viewing, modifying and deleting the same.

Create

Home Location Register → Special Services → RSZI Profile → Create

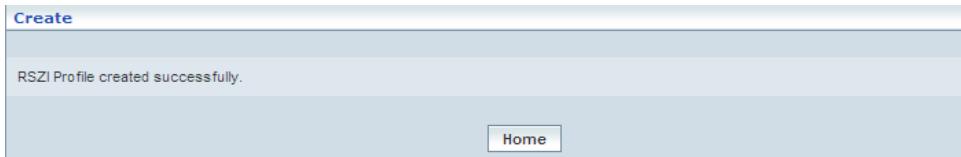
Create enables the user to create a new profile (RSZI Profile) and attribute various values to constitute the same.

The screen below shows creating a new profile as RSZI Profile

Note: Mapping format
PLMN Name-Zone Name-Zone Code

Profile Name	RSZITestDemo121
PLMN Name	TESTDEMO
Zone Code Details	test7-5
	TESTDEMO-test7-5

Submit Home

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the profile in <Profile Name> field, attributing to the proposed RSZI Profile
3.	Select name of the PLMN from <PLMN Name> drop-down list * By default, its related data gets displayed in <Zone Code Details> field
4.	Select the Zone Code Details and click  button to map at least one Zone Code Details * If you want to un-map the same click  button
5.	On clicking the Submit button, new profile (RSZI Profile) will be created and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the 'Create' Screen
6.	On clicking the Home button of the 'Create' Screen (before creating any new profile), it directs the user to the 'RSZI Profile' Screen

Manage

Home Location Register → Special Services → RSZI Profile → Manage

'Manage' helps the user viewing, modifying and deleting (managing) a chosen RSZI profile that was created.

Initially, 'RSZI Profile' displays a grid showing the list of existing RSZI Profile that were configured and created.

The screen below shows the list of various RSZI (Profiles) configurations in a grid.

Manage	
Profile Name	Action
Rszi_Rajesh	View Modify Delete
RSZIProfilet	View Modify Delete
MOBILYRSZI	View Modify Delete
Mobily_Rszi	View Modify Delete
RR1	View Modify Delete
TTI1	View Modify Delete
MobRaziHome	View Modify Delete
RSZITest	View Modify Delete
MMRSZI	View Modify Delete
GG1	View Modify Delete

1 2

[Print](#)[Home](#)

STEP	ACTION
1.	By default, the list of RSZI profiles will be displayed as records in a grid. The columns include 'Profile Name' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid. However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
2	On clicking the View link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to view details of the profile
3.	On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile
4.	On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile
5.	On clicking the Print button at the bottom of the grid, user can take printouts of the RSZI Profile list
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'RSZI Profile' main page

[View](#)

Home Location Register → Special Services → RSZI Profile → Manage → View

View enables the user to peruse details related to chosen profile (RSZI Profile).

On clicking the '**View**' link of a chosen 'Profile' (from the RSZI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile - RSZI.

The screen below displays the details related to chosen profile (RSZI Profile)

Profile Name	Zone Code Details
Mobily_Rszi	65-Secunderabad-1982

Home

STEP	ACTION
1.	User can peruse details related to the chosen RSZI Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'RSZI Profile' Screen

Modify

Home Location Register → Special Services → RSZI Profile → Manage → Modify

Modify enables the user to modify / update the details related to an existing RSZI profile.

On clicking the '**Modify**' link of a chosen 'Profile' (from the RSZI Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile- RSZI.

The screen below shows modifying / updating the details related to an existing RSZI profile.

Note: Mapping format
PLMN Name-Zone Name-Zone Code

Profile Name	RSZIProfilet
PLMN Name	XYZ
Zone Code Details	test477-5777

Submit Home

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (RSZI profile) details will be updated accordingly and a message window to that effect will be displayed <p>RSZI Profile modified successfully.</p> <p>Home</p> On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the 'Manage Profiles' grid

Delete

[Home Location Register](#) → [Special Services](#) → [RSZI Profile](#) → [Manage](#) → [Delete](#)

Delete enables the user to delete an existing RSZI profile.

On clicking the '**Delete**' link of a chosen 'Profile' (from the RSZI Profile List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile- RSZI.

The screen below shows the details related to an existing RSZI profile, which enables the user to delete the same (Profile).

Delete

Note: Mapping format
PLMN Name-Zone Name-Zone Code

Profile Name	Mobily_Rszi
Zone Code Details	65-Secunderabad-1982

Delete **Home**

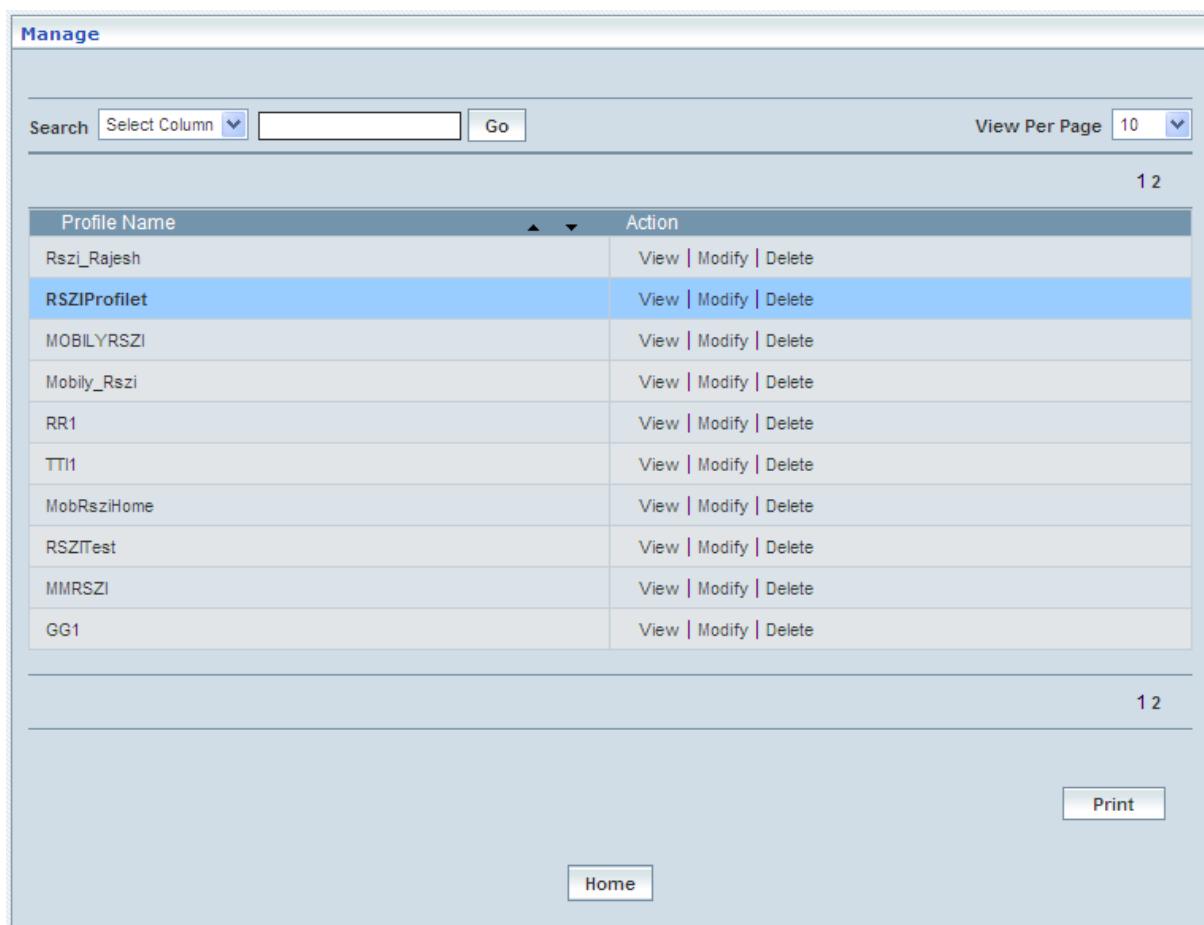
STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (RSZI profile)</p> <p>On clicking the OK button of the alert window, the chosen RSZI profile will be deleted and a message window to that effect will be displayed</p> <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Manage Profiles' grid

Searching for a specific RSZI Profile (Record)

Search **Profile Name** **Select Column** **Profile Name** **Go** **→**

STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding RSZI Profile (record) will be highlighted among the list of RSZI Profile records.

The screen below depicts fetching and displaying the give RSZI Profile record.



Profile Name	Action
Rszi_Rajesh	View Modify Delete
RSZIProfilelet	View Modify Delete
MOBILYRSZI	View Modify Delete
Mobily_Rszi	View Modify Delete
RR1	View Modify Delete
TTI1	View Modify Delete
MobRsziHome	View Modify Delete
RSZITest	View Modify Delete
MMRSZI	View Modify Delete
GG1	View Modify Delete

1 2

[Print](#)

[Home](#)

15 Subscriber Profile Management

Subscriber Profile Management enables the user to create and manage (Approve / Reject / Modify / Delete) the subscriber profiles.

The subscriber profiles are classified in to two types–Homes and Roaming profiles.

This module also helps to fetch a desired subscriber profile with the help of the '**Search**' option based on the provided search criterion. The search criteria include: Profile Name & Default Profile

15.1 Home Profile

[Home Location Register](#) → [Subscriber Profile Management](#) → [Home Profile](#)

Initially, Home Profile displays a grid showing the list of existing Subscriber Profiles that are configured and created. This list may include those profiles that are created and approved, created and rejected and also those created but still to be approved or rejected.

Create / View

[Home Location Register](#)→[Subscriber Profile Management](#)→[Home Profile](#)→[Create / View](#)

This allows the user to create a new profile and peruse the details related to the existing profiles

The screen below shows the list of various Subscriber profiles in a grid.

Create / View						
<input type="button" value="Search"/> <input type="button" value="Select Column"/> <input type="text"/> <input type="button" value="Go"/> <input type="button" value="View Per Page"/> 10 <input type="button" value="▼"/>						
<input type="button" value="Create"/> <input type="button" value="Default Profile"/> <input type="button" value="1"/> <input type="button" value="2"/> <input type="button" value="3"/> <input type="button" value="4"/> <input type="button" value="5"/>						
	Profile Name	Profile Type	Status	Default Profile	Action	
<input type="radio"/>	DCSM	GSM	APPROVED		View Reference	
<input type="radio"/>	DCSOne1	GSM	APPROVED		View Reference	
<input type="radio"/>	GPRSCSM1	GPRS	APPROVED		View Reference	
<input type="radio"/>	GPRSCSOne1	GSM	APPROVED		View Reference	
<input type="radio"/>	GPRSCSlonet1	GPRS	APPROVED		View Reference	
<input type="radio"/>	gprsprof	GPRS	APPROVED	DEFAULT	View Reference	
<input type="radio"/>	gprsthree	GPRS	CREATED		View Reference	
<input type="radio"/>	gsmdefsva	GSM	APPROVED	DEFAULT	View Reference	
<input type="radio"/>	hlrtest	GSM	APPROVED		View Reference	
<input type="radio"/>	hlrtestgsm	GSM	APPROVED		View Reference	

STEP	ACTION
1.	By default, the list of profiles (Subscriber Profiles) will be displayed as records in a grid. The columns include 'Profile Name', 'Profile Type', 'Status', 'Default Profile' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
2	Status indicates the profile status whether just created (Created) or created and approved (Approved) or created but rejected (Rejected)
3.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (Subscriber Profile)
4.	On clicking the Default Profile button, it enables the user to set a chosen profile as a 'Default Profile'
5.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile
6.	On clicking the Reference link of a chosen 'Profile', a replica of the profile will be displayed in a separate screen (along with all the configured values / parameters of the chosen profile). This enables the user to create another profile with similar configured values or with slight changes but with a distinct name. This provision of reference creation in fact reduces the time in creating a profile similar to the one that already exists
7.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Subscriber Profiles Management' main page

Create

Home Location Register→Subscriber Profile Management→Home Profile→Create / View

Create enables the user to create a new profile (Subscriber Profile) and attribute various values to constitute the same.

However, Subscriber Profile shall be classified based on the selection of **Network Access Mode** and can create the profile accordingly.

Network Access Modes can be of two types:

- GSM
- GPRS

The screen below shows creating a new profile as Subscriber Profile, selecting the **Network Access Mode** as GSM

Create

Profile Name: HomeProfileTest | Indicates Mandatory

Network Access Mode	GSM
ROAMING	National
Access Restriction	UTRAN
Charging Characteristics	Normal
Mobile Station Category	Ordinary calling subscriber
Multiparty Maximum Count	1
Supplementary Services Profile	allspostpaid

CAMEL Subscriptions

GSM CAMEL Subscription

Originating CSI	MobilyOCSI
Terminating CSI	MobilyTCSI
VMSC Terminating CSI	Select
Dialled Service CSI	dcsi_Rajesh
Mobility Management GSM CSI	Select
Supplementary Services CSI Profile	12344
Translation Information Flag CSI	Select
USSD CSI	MobilyUCSI
Mobile Originating SMS CSI	Select
Mobile Terminating SMS CSI	Select

LCS & GMLC Profiles

LCS Profile	Select
GMLC Profile	Select

Selective Roaming

VLR Profile	pp33
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Special Services

SoLSA Profile	MOBILYSOLSA
RSZI Profile	MOBILYRSZI

SCF Notification Flags

Notify CSE for ODB	True
OCSI Notification Flag	True
OCSI State	Active
TCSI Notification flag	True
TCSI State	Active
DCSI Notification Flag	True
DCSI State	Active
SSCSI Notification Flag	True
SSCSI State	Active
UCSI Notification Flag	True
UCSI State	Active

Basic Services

Tele Services

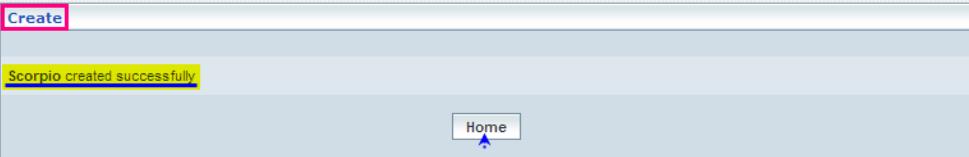
<input checked="" type="checkbox"/> SpeechTransmissionServices	<input checked="" type="checkbox"/> ShortMessageServices	<input checked="" type="checkbox"/> FacsimileTransmissionServices																	
<input checked="" type="checkbox"/> VoiceGroupCallServices																			
Available Services																			
<table border="1"> <tr><td>T11 Telephony</td><td>↑</td><td>↓</td></tr> <tr><td>T12 EmergencyCalls</td><td>↑</td><td>↓</td></tr> <tr><td>T61 FacsimileGroup3AndAlterSpeech</td><td>↑</td><td>↓</td></tr> <tr><td>T62 AutomaticFacsimileGroup3</td><td>↑</td><td>↓</td></tr> </table>			T11 Telephony	↑	↓	T12 EmergencyCalls	↑	↓	T61 FacsimileGroup3AndAlterSpeech	↑	↓	T62 AutomaticFacsimileGroup3	↑	↓					
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VoiceGroupCallServices	↑	↓																	
ShortMessageServices	↑	↓																	
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<input type="checkbox"/> DataPDS-Services	<input checked="" type="checkbox"/> AlternateSpeech-DataCDA	<input checked="" type="checkbox"/> AlternateSpeech-DataCDS																	
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abcd	↑	↓																	
fdfdf	↑	↓																	
test	↑	↓																	
SCFName	↑	↓																	
General ODB Data																			
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Services Barred																			
<table border="1"> <tr><td>pimn-SpecificBarringType2</td><td>↑</td><td>↓</td></tr> </table>		pimn-SpecificBarringType2	↑	↓															
pimn-SpecificBarringType2	↑	↓																	

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information M Indicates Mandatory
2.	Enter name of the profile in <Profile Name> field attributing to the proposed Subscriber Profile, where the access mode is GSM
3.	<p>Select the network access mode (GSM / GPRS) to specify the subscriber's network access mode from the drop-down list of the <Network Access Mode> field</p> <p>* By default, the list of network access modes will be dynamically displayed as drop-down list of the <Network Access Mode> field</p> <p>NOTE: In this case, the Network Access Mode is GSM</p>
4.	<p>Select a roaming option (Not Allowed/National/International) to specify the subscriber's roaming provision from the drop-down list of the <Roaming> field</p> <p>* By default, the list of options related to roaming facility will be dynamically displayed as drop-down list of the <Roaming> field</p>
5.	<p>Select the access restriction (UTRAN/GERAN) to specify subscriber's restriction to access from the drop-down list of the <Access Restriction> field</p> <p>* By default, the list of options related to access restriction will be dynamically displayed as drop-down list of the <Access Restriction> field</p>
6.	<p>Select the charging model (Normal/Pre-Paid/Flat-Rate/Billing) to specify subscriber's billing or charging pattern from the drop-down list of the <Charging Characteristics> field</p> <p>* By default, the list of charging options will be dynamically displayed as drop-down list of the <Charging Characteristics> field</p>
7.	<p>Select one of the Mobile Station (Call Service) categories to specify subscriber's preferred category from the drop-down list of the <Mobile Station Categories> field</p> <p>* By default, the list of default Call Service options (Mobile Station Categories) will be dynamically displayed as drop-down list of the <Mobile Station Categories> field</p>
8.	Enter multi-party maximum count (> 2 and < = 5) in the <Multi-Party Maximum Count> field

9.	<p>Select a supplementary service profile to specify subscriber's preferred package of supplementary services from the drop-down list of the <Supplementary Services Profile> field</p> <p>* By default, the list of supplementary services profiles will be dynamically displayed as drop-down list of the <Supplementary Services Profile> field</p>
10.	<p>CAMEL Subscriptions: GSM</p> <p>Select values for each of the GSM-CAMEL Subscription elements (Originating CSI, Terminating CSI, VMSI Terminating CSI, Dialed Service CSI, Mobility Management CSI, Supplementary Services CSI, Translation Information Flag CSI, USSD CSI, Mobile Originating SMS CSI and Mobile Terminating SMS CSI) from their corresponding drop-down lists respectively</p> <p>* By default, the list of values for each of the CAMEL Subscription elements will be dynamically displayed as drop-down list of the respective fields</p>
11.	<p>LCS & GMLC Profile: GSM</p> <p>Select values for the LCS and GMLC profiles from their corresponding drop-down lists respectively</p> <p>* By default, the list of values for each of the LCS and GMLC profiles will be dynamically displayed as drop-down list of the respective fields</p>
12.	<p>Selective Roaming: GSM</p> <p>Select values for the VLR profile from their corresponding drop-down lists respectively</p> <p>* By default, the list of values for the VLR profiles will be dynamically displayed as drop-down list of the respective fields</p>
13.	<p>Special Services</p> <p>Select values for the SoLSA and RSZI profile from their corresponding drop-down lists respectively</p> <p>* By default, the list of values for the SoLSA and RSZI profiles will be dynamically displayed as drop-down list of the respective fields</p>

14.	<p>SCF Notification Flags: GSM</p> <p>SCF Notification - Notify CSE for ODB is mandatory and the user must compulsorily set the preferred value (True / False) for the same Rest of the SCF Notifications shall be applicable based on the selection related to GSM-CAMEL Subscription elements, only the resultant SCF Notifications will be dynamically displayed enabling the user to set corresponding parameters ('value-True/False' & 'status-Active/Inactive') accordingly</p> <p>* By default, the value (True / False) and the status (Active / Inactive) for each of the SCF Notifications will be displayed as corresponding drop-downs respectively</p>
15.	<p>Basic Services Block:</p> <p>Basic services comprise Tele Services and Bearer Services</p> <p>NOTE: Only 5 (Five) BC Profiles pertaining to a Tele sub-service can be assigned</p> <p>However, more than one Tele sub-service, subject to 5 BC Profiles (each) can be assigned</p> <p>NOTE: Only 5 (Five) BC Profiles pertaining to each Bearer service (Data CDA Service / Data CDS Service) can be assigned</p>
16.	<p>Tele Services</p> <ul style="list-style-type: none"> • Parent services of the selected services (as a string) will be dynamically moved to the <Assigned Services> text field below, which is on to the right side of the screen and the corresponding sub-services will be dynamically moved to the text field <Available Services> which is on to the left side of the screen <p>Select the desired sub service from the list <Available Services> and on clicking the right-arrow button, the sub-service (as a string) will be moved to the <Assigned Services> field and reckoned as an assigned service</p> <p>With the effect of a sub service being assigned, the corresponding list of BC Profiles (if any) will be dynamically displayed in the <Available BC Profiles> text field below, which is on to the left side of the screen</p> <p>Select the desired BC Profile from the list <Available BC Profiles> and on clicking the right-arrow button, the BC Profile (as a string) will be moved to the <Assigned BC Profiles> field and reckoned as an assigned (BC) Profile</p>

	<p>However, if the user wants to just remove any Tele Service, (any time before creating the profile); selecting the service from the <Assigned Services> text field and subsequently clicking, the left-arrow button removes the service. Consequently, the corresponding BC profiles those 'available' and as well 'assigned' (BC profiles) will also be removed from the corresponding text fields</p>
	<p>Similarly, if the user wants to just remove any BC Profile (any time before creating the profile), selecting the profile from the <Assigned BC Profiles> text field and subsequently clicking the left-arrow button removes the same</p>
17.	<p>Bearer Services</p> <ul style="list-style-type: none"> On selecting a Bearer Service (Data CDA / Data CDS), the corresponding list of BC Profiles will be dynamically displayed in the <Available BC Profiles> text field below, which is on to the left side of the screen <p>Select the desired <u>BC Profile</u> from the list <Available BC Profiles> and on clicking the right-arrow button, the BC Profile (as a string) will be moved to the <Assigned BC Profiles> field and reckoned as an assigned (BC) Profile</p> <p>If the user deselects (un-checks) any Bearer Service, the corresponding BC profiles those 'available' and as well 'assigned' (BC profiles) will also be removed from the corresponding text fields</p> <p>If the user wants to just remove any BC Profile (any time before creating the profile), selecting the profile from the <Assigned BC Profiles> text field and subsequently clicking the left-arrow button removes the same</p>
18.	<p>GSM SCF Name Block:</p> <p>By default, the list of names (addresses) will be dynamically displayed in the text field, which is on to the left side of the screen</p>
19.	<p>Operator Determined Barring: GSM</p> <p>By default the various barring services are displayed in General ODB Data and PLMN ODB Data.</p> <ul style="list-style-type: none"> To add the services form General ODB Data or PLMN ODB Data to Services Barred, select the service to be barred from respective operator and click  <p>To remove the selected barred services form Services Barred operator, select the services to be removed and click </p>

	On mapping the desired number of names (addresses), those names (each of them as a string) will be dynamically moved to the text field, which is on to the right side of the screen
20.	On clicking the Submit button, new profile (Subscriber Profile) will be created and a message window will be displayed to that effect  <p>Scorpio created successfully</p> <p>Home</p>
21.	On clicking the Home button of the message window, it directs the user back to the 'Subscriber Profiles' grid

The screen below shows creating a new profile as Subscriber Profile, selecting the **Network Access Mode** as [GPRS](#)

Create

Indicates Mandatory

Profile Name	HomePr454
Network Access Mode	GPRS
ROAMING	National
Access Restriction	UTRAN
Charging Characteristics	Pre-Paid
Mobile Station Category	Ordinary calling subscriber

PDG Profiles

testAPN/DPD-3
 tunisairppdp-12
 maxcomppdp-12
 akhijedw-34
 akhijedw32-36

PDPPIOK-10
 maxcomppdp-12

UE Level APN OI Replacement

CAMEL Subscriptions

GPRS CAMEL Subscription

GPRS CSI	maxcomgrpscsi
Mobility Management GPRS CSI	Select
Mobile Originating SMS CSI	Select
Mobile Terminating SMS CSI	Select

Selective Roaming

SGSN Profile	maxcomallowedsgsnprofile
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Special Services

SoLSA Profile	Select
RSZI Profile	Select

SCF Notification Flags

Notify CSE for ODB	True
GPRCSI Notification Flag	True
GPRCSI State	Active

Basic Services

Tele Services

<input type="checkbox"/> SpeechTransmissionServices	<input type="checkbox"/> ShortMessageServices	<input type="checkbox"/> FacsimileTransmissionServices
<input checked="" type="checkbox"/> VoiceGroupCallServices		
Available Services <input type="checkbox"/> T91_VoiceGroupCall <input type="checkbox"/> T92_VoiceBroadcastCall		Assigned Services <input type="checkbox"/> VoiceGroupCallServices
Available BC Profiles <input type="checkbox"/>		Assigned BC Profiles <input type="checkbox"/>

Bearer Services

<input type="checkbox"/> DataCDA-Services	<input type="checkbox"/> DataCDS-Services	<input type="checkbox"/> PadAccessCA-Services
<input type="checkbox"/> DataPDS-Services	<input type="checkbox"/> AlternateSpeech-DataCDA	<input type="checkbox"/> AlternateSpeech-DataCDS
<input type="checkbox"/> SpeechFollowedByDataCDA	<input type="checkbox"/> SpeechFollowedByDataCDS	
Available Services <input type="checkbox"/>		Assigned Services <input type="checkbox"/>
Available BC Profiles <input type="checkbox"/>		Assigned BC Profiles <input type="checkbox"/>

GSM SCF Name

<input type="checkbox"/> scsf maxcomscf	<input type="checkbox"/> maxcomscf
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Operator Determined Barring

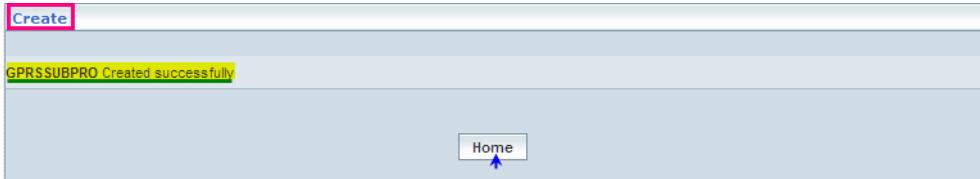
General ODB Data <input type="checkbox"/> allCT-Barred <input type="checkbox"/> allC-CallsBarred <input type="checkbox"/> allG-CallsBarred <input type="checkbox"/> allPacketOrientedServicesBarred <input type="checkbox"/> chargeableCT-Barred <input type="checkbox"/> dualChanneledCT-Barred		Services Barred <input type="checkbox"/> allIOG-CallsBarred
PLMN ODB Data <input type="checkbox"/> pimn-SpecificBarringType1 <input type="checkbox"/> pimn-SpecificBarringType2 <input type="checkbox"/> pimn-SpecificBarringType3 <input type="checkbox"/> pimn-SpecificBarringType4		Services Barred <input type="checkbox"/> pimn-SpecificBarringType2

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the profile in <Profile Name> field attributing to the proposed Subscriber Profile, where the access mode is GPRS
3.	<p>Select the network access mode (GSM / GPRS) to specify the subscriber's network access mode from the drop-down list of the <Network Access Mode> field</p> <p>* By default, the list of network access modes will be dynamically displayed as drop-down list of the <Network Access Mode> field</p> <p>NOTE: In this case, the Network Access Mode is GPRS</p>
4.	<p>Select a roaming option (Not Allowed/National/International) to specify the subscriber's roaming provision from the drop-down list of the <Roaming> field</p> <p>* By default, the list of options related to roaming facility will be dynamically displayed as drop-down list of the <Roaming> field</p>
5.	<p>Select the access restriction (UTRAN/GERAN) to specify subscriber's restriction to access from the drop-down list of the <Access Restriction> field</p> <p>* By default, the list of options related to access restriction will be dynamically displayed as drop-down list of the <Access Restriction> field</p>
6.	<p>Select the charging model (Normal/Pre-Paid/Flat-Rate/Billing) to specify subscriber's billing or charging pattern from the drop-down list of the <Charging Characteristics> field</p> <p>* By default, the list of charging options will be dynamically displayed as drop-down list of the <Charging Characteristics> field</p>
7.	<p>Select one of the Mobile Station (Call Service) categories to specify subscriber's preferred category from the drop-down list of the <Mobile Station Categories> field</p> <p>* By default, the list of default Call Service options (Mobile Station Categories) will be dynamically displayed as drop-down list of the <Mobile Station Categories> field</p>

8.	<p>Based on the selection of Network Access Mode as GPRS, PDP Profiles section will be dynamically displayed</p> <p>By default, the list of PDP Profiles will be dynamically displayed in the text field, which is on to the left side of the screen</p> <p>Select the desired PDP Profile from the list <Left Text Field> and on clicking the right-arrow button, the profile (as a string) will be moved to the <Text Field> which is on to the right side of the screen</p> <p>On mapping the desired number of PDP Profiles (each of them as a string) will be dynamically moved to the text field</p> <p>However if the user wants to just remove any PDP profile (any time before creating the profile), selecting the PDP profile from the right text field and subsequently clicking the left-arrow button removes the PDP profile</p>
9.	<p>Based on the selection of Network Access Mode as GPRS, UE Level APN OI Replacement section will be dynamically displayed.</p> <p>UE Level APN OI Replacement: Enter a name to locate the Home GGSN.</p> <p>APN-OI-Replacement: Enter a name to locate the Home GGSN.</p> <p>The configured profiles shall be displayed/available at PDP Profiles during the creation of subscribers. For more information, refer <i>Subscriber Management > Create Subscriber</i>.</p>
10.	<p>CAMEL Subscriptions Block: GPRS</p> <p>Select values for each of the GPRS-CAMEL Subscription elements (GPRS CSI, Mobility Management CSI, Mobile Originating SMS CSI and Mobile Terminating SMS CSI) from their corresponding drop-down lists respectively</p> <p>* By default, the list of values for each of the CAMEL Subscription elements will be dynamically displayed as drop-down list of the respective fields</p>
11.	<p>Selective Roaming: GPRS</p> <p>Select values for the SGSN profile from their corresponding drop-down lists respectively</p> <p>* By default, the list of values for the SGSN profiles will be dynamically displayed as drop-down list of the respective fields</p>

12.	<p>Special Services</p> <p>Select values for the SoLSA and RSZI profile from their corresponding drop-down lists respectively</p> <p>* By default, the list of values for the SoLSA and RSZI profiles will be dynamically displayed as drop-down list of the respective fields</p>
13.	<p>SCF Notifications Block: GPRS</p> <p>SCF Notification - Notify CSE for ODB is mandatory and the user must compulsorily set the preferred value (True / False) for the same</p> <p>Rest of the SCF Notifications shall be applicable based on the selection related to GPRS-CAMEL Subscription elements, only the resultant SCF Notifications will be dynamically displayed enabling the user to set corresponding parameters ('value-True/False' & 'status-Active/Inactive') accordingly</p> <p>* By default, the value (True / False) and the status (Active / Inactive) for each of the SCF Notifications will be displayed as corresponding drop-downs respectively</p>
14.	<p>Basic Services Block:</p> <p>Basic services comprise Tele Services and Bearer Services</p> <p>NOTE: Only 5 (Five) BC Profiles pertaining to a Tele sub-service can be assigned</p> <p>However, more than one Tele sub-service, subject to 5 BC Profiles (each) can be assigned</p> <p>NOTE: Only 5 (Five) BC Profiles pertaining to each Bearer service (Data CDA Service / Data CDS Service) can be assigned</p>
15.	<p>Tele Services</p> <ul style="list-style-type: none"> On selecting a specific Tele Service, the corresponding Parent services (as a string) will be dynamically moved to the <Assigned Services> text field below, which is on to the right side of the screen and the corresponding sub-services will be dynamically moved to the text field <Available Services> which is on to the left side of the screen
	<p>Select the desired sub service from the list <Available Services> and on clicking the right-arrow button, the sub-service (as a string) will be moved to the <Assigned Services> field and reckoned as an assigned service</p>

	<p>However if the user wants to just remove any service (any time before creating the profile), selecting the service from the <Assigned Services> text field and subsequently clicking the left-arrow button removes the service</p> <p>NOTE: BC Profiles and Bearer Services are not applicable for GPRS Network</p>
	<p>Bearer Services</p> <ul style="list-style-type: none"> On selecting a Bearer Service (Data CDA / Data CDS), the corresponding list of BC Profiles will be dynamically displayed in the <Available BC Profiles> text field below, which is on to the left side of the screen <p>Select the desired <u>BC Profile</u> from the list <Available BC Profiles> and on clicking the right-arrow button, the BC Profile (as a string) will be moved to the <Assigned BC Profiles> field and reckoned as an assigned (BC) Profile</p>
	<p>If the user deselects (un-checks) any Bearer Service, the corresponding BC profiles those 'available' and as well 'assigned' (BC profiles) will also be removed from the corresponding text fields</p>
	<p>If the user wants to just remove any BC Profile (any time before creating the profile), selecting the profile from the <Assigned BC Profiles> text field and subsequently clicking the left-arrow button removes the same</p>
16.	<p>GSM SCF Name Block:</p> <p>By default, the list of names (addresses) will be dynamically displayed in the text field, which is on to the left side of the screen</p>
17.	<p>Operator Determined Barring: GSM</p> <p>By default the various barring services are displayed in General ODB Data and PLMN ODB Data.</p> <ul style="list-style-type: none"> To add the services form General ODB Data or PLMN ODB Data to Services Barred, select the service to be barred from respective operator and click  <p>To remove the selected barred services form Services Barred operator, select the services to be removed and click </p>
	<p>On mapping the desired number of names (addresses), those names (each of them as a string) will be dynamically moved to the text field, which is on to the right side of the screen</p>

18.	On clicking the Submit button, new profile (Subscriber Profile) will be created and a message window to that effect will be displayed 
	On clicking the Home button of the message window, it directs the user back to the Subscriber Profiles grid
19.	On clicking the Home button of the 'Create' screen (before creating any new profile), it directs the user to the Subscriber Profiles grid

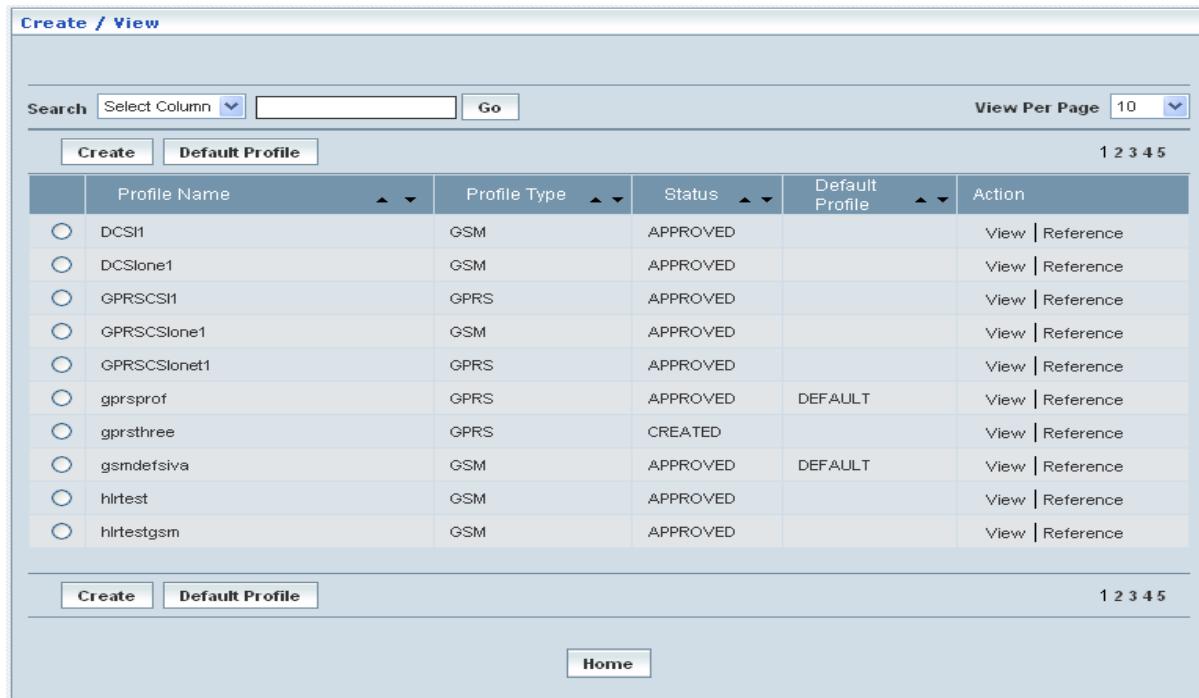
Default Profile

Home Location Register→Subscriber Profile Management→Home Profile→Create / View

'Default Profile' enables the user to set a chosen profile as a 'Default Profile'.

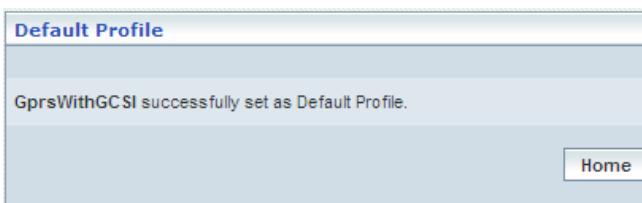
On clicking the '**Default Profile**' button, it enables the user to set a chosen profile as a 'Default Profile'.

User can choose two default profiles, one from each 'Profile Type' (GSM or GPRS).



Create / View					
Search <input type="button" value="Select Column"/> <input type="text"/> <input type="button" value="Go"/>		View Per Page <input type="button" value="10"/> <input type="button" value="1"/> <input type="button" value="2"/> <input type="button" value="3"/> <input type="button" value="4"/> <input type="button" value="5"/>			
Create <input type="button" value="Default Profile"/>		1 2 3 4 5			
	Profile Name	Profile Type	Status	Default Profile	Action
<input type="radio"/>	DCS11	GSM	APPROVED		<input type="button" value="View"/> <input type="button" value="Reference"/>
<input type="radio"/>	DCS1one1	GSM	APPROVED		<input type="button" value="View"/> <input type="button" value="Reference"/>
<input type="radio"/>	GPRSCSI1	GPRS	APPROVED		<input type="button" value="View"/> <input type="button" value="Reference"/>
<input type="radio"/>	GPRSCS1one1	GSM	APPROVED		<input type="button" value="View"/> <input type="button" value="Reference"/>
<input type="radio"/>	GPRSCS1onet1	GPRS	APPROVED		<input type="button" value="View"/> <input type="button" value="Reference"/>
<input type="radio"/>	gprsprof	GPRS	APPROVED	DEFAULT	<input type="button" value="View"/> <input type="button" value="Reference"/>
<input type="radio"/>	gprsthree	GPRS	CREATED		<input type="button" value="View"/> <input type="button" value="Reference"/>
<input type="radio"/>	gsmdefsvsa	GSM	APPROVED	DEFAULT	<input type="button" value="View"/> <input type="button" value="Reference"/>
<input type="radio"/>	hlrtest	GSM	APPROVED		<input type="button" value="View"/> <input type="button" value="Reference"/>
<input type="radio"/>	hlrtestgsm	GSM	APPROVED		<input type="button" value="View"/> <input type="button" value="Reference"/>

1 2 3 4 5

STEP	ACTION
1.	User must select the radio button of the desired profile that is proposed to be set as default profile
2.	On clicking the Default Profile button, it displays an alert window enabling the user to confirm setting of the chosen profile as the 'Default Profile'  <p>On clicking the OK button, the chosen profile will be automatically reckoned as the Default Profile and a message window will be displayed to that effect</p>  <p>On clicking the Cancel button of the alert window, it retains the 'Subscriber Profile Management – Create / View' Grid (without setting the chosen profile as Default Profile)</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Create / View' Screen</p>
3.	On clicking the Home button of the 'Create' Screen (before setting it as to default profile), it directs the user to the 'Home Profile' Screen * In the 'Default Profile' column it is marked as 'Default'

View

Home Location Register → Subscriber Profile Management → Home Profile → Create / View

View enables the user to peruse details related to chosen profile (Subscriber Profile).

On clicking the '**View**' link of a chosen 'Profile' (from the Subscriber Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the Subscriber Profile.

The screen below displays the details related to chosen profile (Subscriber Profile)

View			
Profile Name	GprsWithGCSI		
Network Access Mode	GPRS		
ROAMING	International		
Access Restriction	UTRAN		
Charging Characteristics	Normal		
Mobile Station Category	Ordinary calling subscriber		
PDP Profiles	PDPTest-12		
CAMEL Subscriptions			
GPRS CAMEL Subscription			
Mobility Management GPRS CSI	-		
GPRS CSI	MobilyGCSI		
Mobile Originating SMS CSI	-		
Mobile Terminating SMS CSI	-		
Selective Roaming			
SGSN Profile	-		
Special Services			
SoLSA Profile	MobLSAHome		
RSZI Profile	MobRsziHome		
SCF Notification Flags			
Notify CSE for ODB	True		
GPRS			
MGCSI Notification Flag	-	MGCSI State	-
GPRSCSI Notification Flag	True	GPRSCSI State	Active
MOSMCSI Notification Flag	-	MOSMCSI State	-
MTSMCSI Notification Flag	-	MTSMCSI State	-
Basic Services			
Tele Services			
T11 Telephony			
T12 EmergencyCalls			
T21 ShortMessageMT-PP			
T22 ShortMessageMO-PP			
GSM SCF Name			
MobilyScf			
Home			

STEP	ACTION
1.	User can peruse details related to the chosen Subscriber Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'Subscriber Profiles' grid

Reference

Home Location Register → Subscriber Profile Management → Home Profile → Create / View

On clicking the '**Reference**' link of a chosen 'Profile' (from the list of subscriber profiles), a replica of the profile will be displayed in a separate screen (along with all the configured values / parameters of the chosen profile). This enables the user to create another profile with similar configured values or with slight changes but with a distinct name. This provision of reference creation in fact reduces the time in creating a profile similar to the one that already exists

The screen below displays the details related to chosen profile (Subscriber Profile) enabling the user to create a reference / similar profile with distinct name

Reference Indicates Mandatory

Profile Name	GprsWithGCSI12
Network Access Mode	GPRS
ROAMING	International
Access Restriction	UTRAN
Charging Characteristics	Normal
Mobile Station Category	Ordinary calling subscriber

PPD Profiles

PDPTest-12 PDPDemo-33	▶	PDPTest-12	◀
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CAMEL Subscriptions

GPRS CAMEL Subscription

GPRS CSI	MobilyGCSI
Mobility Management GPRS CSI	Select
Mobile Originating SMS CSI	Select
Mobile Terminating SMS CSI	Select

Selective Roaming

SGSN Profile	Select
--------------	--------

Special Services

SoLSA Profile	MobLSAHome
RSZI Profile	MobRszIHome

SCF Notification Flags

Notify CSE for ODB	True
GPRSCSI Notification Flag	True
GPRSCSI State	Active

Basic Services

Tele Services

<input checked="" type="checkbox"/> SpeechTransmissionServices	<input checked="" type="checkbox"/> ShortMessageServices	<input type="checkbox"/> FacsimileTransmissionServices
<input type="checkbox"/> VoiceGroupCallServices		

Available Services	Assigned Services
T11 Telephony T12 EmergencyCalls T21 ShortMessageMT-PP T22 ShortMessageMO-PP	T11 Telephony T12 EmergencyCalls T21 ShortMessageMT-PP T22 ShortMessageMO-PP

Available BC Profiles	Assigned BC Profiles

Bearer Services

DataCDA-Services DataPDS-Services SpeechFollowedByDataCDA	DataCDS-Services AlternateSpeech-DataCDA SpeechFollowedByDataCDS	PadAccessCA-Services AlternateSpeech-DataCDS
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Available Services	Assigned Services

Available BC Profiles	Assigned BC Profiles

GSM SCF Name

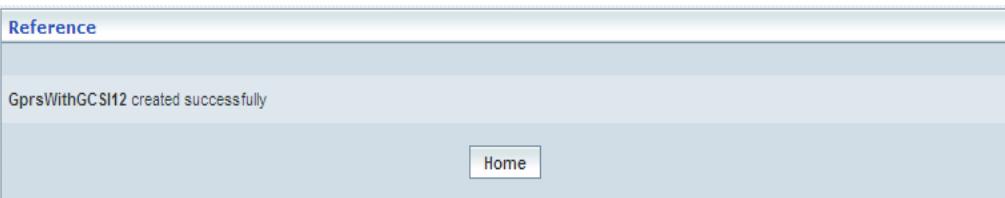
abcd fdfdf test SCFName	▶	▶	MobilyScf	◀	◀
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Operator Determined Barring

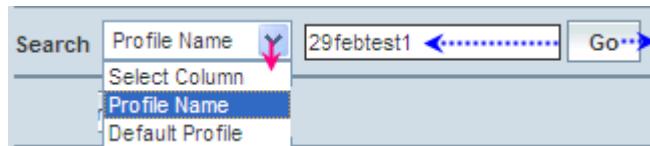
General ODB Data	Services Barred			
allECT-Barred allIC-CallsBarred allIG-CallsBarred allPacketOrientedServicesBarred chargeableECT-Barred doublyChargeableECT-Barred	▶	▶	◀	◀

PLMN ODB Data	Services Barred			
plmn-SpecificBarringType1 plmn-SpecificBarringType2 plmn-SpecificBarringType3 plmn-SpecificBarringType4	▶	▶	◀	◀

Submit **Home**

STEP	ACTION
1.	User can create a different Subscriber Profile that is similar to the reference profile, but with a distinct name Enter a different name in the <Profile Name> field
2.	User can either retain all the values that were configured for the reference profile to attribute the same to the proposed profile or can make minor changes to the existing values
3.	On clicking the Submit button, new profile (Subscriber Profile) will be created and a message window to that effect will be displayed  <p>On clicking the Home button of the message window, it directs the user back to the Subscriber Profiles grid</p>
4.	On clicking the Home button at the bottom of the 'Reference Screen' (before creating a similar profile), it redirects the user to the Subscriber Profiles grid

Searching for a specific Subscriber - Home Profile (Record)



STEP	ACTION
1.	Select a search criterion ('Profile Name' or 'Default Profile') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name' or 'Default Profile') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the value ('Profile Name' or 'Default Profile') that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Subscriber - Home Profile (record) will be highlighted among the list of Profiles records

The screen below depicts fetching and displaying the Subscriber - Home Profile record.

Create / View					
Search Select Column		Go	View Per Page 10		
Create		Default Profile	1 2		
	Profile Name	Profile Type	Status	Default Profile	Action
<input type="radio"/>	BhaskarGPRS	GPRS	APPROVED		View Reference
<input type="radio"/>	GPRSPostpaid	GPRS	APPROVED		View Reference
<input type="radio"/>	GPRSPrepaid	GPRS	APPROVED		View Reference
<input type="radio"/>	GprsWithGCSI	GPRS	APPROVED	DEFAULT	View Reference
<input type="radio"/>	GprsWithGCSI12	GPRS	CREATED		View Reference
<input type="radio"/>	GSMPospaid	GSM	APPROVED		View Reference
<input type="radio"/>	GSMPrepaid	GSM	APPROVED		View Reference
<input type="radio"/>	MobGPRSLoad	GPRS	APPROVED		View Reference
<input type="radio"/>	MobHomeProf	GSM	APPROVED		View Reference
<input type="radio"/>	MOBILYGPRS	GPRS	APPROVED		View Reference

Manage

'Manage' helps the user modifying and deleting (managing) a chosen Subscriber profile that was created, but still to be approved. This module also helps **approving** or **rejecting** the profile.

[Home Location Register](#) → [Subscriber Profile Management](#) → [Home Profile](#) → [Manage](#)

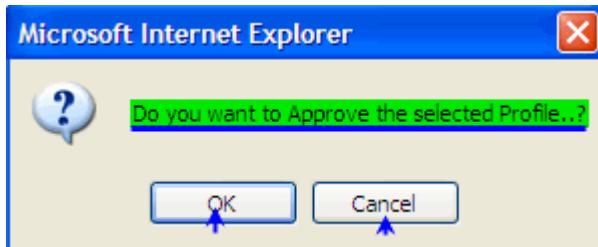
Initially, 'Subscriber Profiles Management' displays a grid showing the list of existing supplementary services' Profiles that were configured and created.

The screen below shows the list of various Subscriber Profiles in a grid.

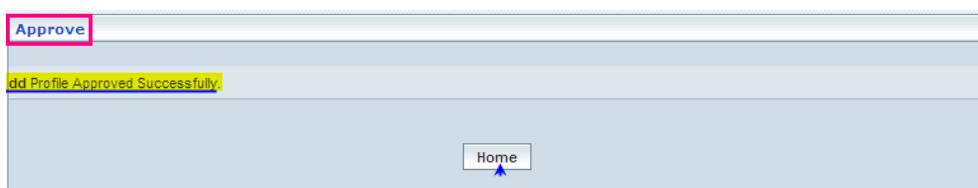
Manage					
Search Select Column		Go	View Per Page 10		
Approve		Reject	1 2		
	Profile Name	Profile Type	Status	Action	
<input type="radio"/>	BhaskarGPRS2	GPRS	CREATED	Modify	Delete
<input type="radio"/>	GprsWithGCSI12	GPRS	CREATED	Modify	Delete
<input type="radio"/>	GprsWithGCSIff	GPRS	CREATED	Modify	Delete
<input type="radio"/>	GSMPospaid34234	GSM	CREATED	Modify	Delete
<input type="radio"/>	GSMPospaid5	GSM	CREATED	Modify	Delete
<input type="radio"/>	GSMPospaid55454	GSM	CREATED	Modify	Delete
<input type="radio"/>	MobGPRSLoad5	GPRS	CREATED	Modify	Delete
<input type="radio"/>	MOBILYHOMEQGSM4	GSM	CREATED	Modify	Delete
<input type="radio"/>	SP1	GSM	CREATED	Modify	Delete
<input type="radio"/>	Test	GSM	CREATED	Modify	Delete

STEP	ACTION
1.	<p>By default, the list of Subscriber profiles will be displayed as records in a grid. The columns include 'Profile Name', 'Profile Type', 'Status' and 'Action'</p>
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
2	<p>On clicking the Modify link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile</p>
3.	<p>On clicking the Delete link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the profile</p>
4.	<p>To Approve a Profile:</p> <p>Select the corresponding radio option of the desired profile to approve the same</p>

- 5.** On clicking the **Approve** button, an alert window message will be displayed enabling the user to confirm approval of the chosen profile



On clicking the **OK** button of the alert window, the chosen profile will be approved and a message window to that effect will be displayed

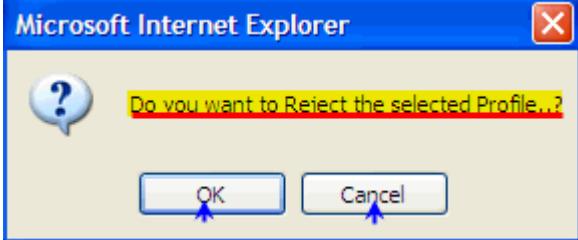
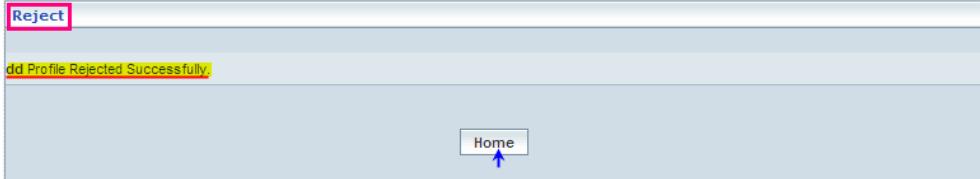


On clicking the **Cancel** button of the alert window, it retains the 'Manage Profiles' grid

On clicking the **Home** button of the message window, it redirects the user to the 'Manage Profiles' grid

NOTE: The Profile that was approved will be disappeared from the 'Manage Profiles' grid. However, status related to the Profile will be dynamically updated (changed to 'Approved' from 'Created') in the 'Subscriber Profiles' grid

- 6.** **To Reject a Profile:**
Select the corresponding radio option of the desired profile to reject the same

7.	<p>On clicking the Reject button, an alert window message will be displayed enabling the user to confirm rejection of the chosen profile</p>  <p>On clicking the OK button of the alert window, the chosen profile will be rejected and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the 'Manage Profiles' grid</p> <p>On clicking the Home button of the message window, it redirects the user to the 'Manage Profiles' grid</p> <p>NOTE: Status related to the Profile will be dynamically updated (changed to 'Rejected' from 'Created') in the Subscriber Profiles grid and as well as in 'Manage Profiles' grid</p> <ul style="list-style-type: none"> * Once rejected profile can always be approved any time later by way of similar process of approving a profile
8.	<p>On clicking the Home button at the bottom of the grid, it redirects the user to the 'Subscriber Profiles Management' main page</p>

Modify

Modify enables the user to modify / update the details related to an existing Subscriber profile.

[Home Location Register](#)→[Subscriber Profile Management](#) → [Home Profile](#) → [Manage](#) → [Modify](#)

On clicking the '**Modify**' link of a chosen 'Profile' (from the Subscriber Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the Subscriber Profile.

The screen below shows modifying / updating the details related to an existing Subscriber profile.

Modify

Indicates Mandatory

Profile Name	GSMPospaid55454
Network Access Mode	GSM
ROAMING	International
Access Restriction	UTRAN
Charging Characteristics	Normal
Mobile Station Category	Calling Subscriber with priority
MultiParty Maximum Count	
Supplementary Services Profile	allsspostpaid

CAMEL Subscriptions

GSM CAMEL Subscription

Originating CSI	Select
Terminating CSI	Select
VMSC Terminating CSI	Select
Dialled Service CSI	Select
Mobility Management GSM CSI	Select
Supplementary Services CSI Profile	Select
Translation Information Flag CSI	Select
USSD CSI	Select
Mobile Originating SMS CSI	Select
Mobile Terminating SMS CSI	Select

LCS & GMLC Profiles

LCS Profile	Select
GMLC Profile	Select

Selective Roaming

VLR Profile	Select
-------------	--------

Special Services

SoLSA Profile	Select
RSZI Profile	Select

SCF Notification Flags

Notify CSE for ODB	True
--------------------	------

Basic Services

Tele Services

<input checked="" type="checkbox"/> SpeechTransmissionServices	<input checked="" type="checkbox"/> ShortMessageServices	<input checked="" type="checkbox"/> FacsimileTransmissionServices				
<input checked="" type="checkbox"/> VoiceGroupCallServices						
<table border="1"> <thead> <tr> <th>Available Services</th> <th>Assigned Services</th> </tr> </thead> <tbody> <tr> <td>T11 Telephony T12 EmergencyCalls T21 ShortMessageMT-PP T22 ShortMessageMO-PP</td> <td>SpeechTransmissionServices ShortMessageServices FacsimileTransmissionServices VoiceGroupCallServices</td> </tr> </tbody> </table>			Available Services	Assigned Services	T11 Telephony T12 EmergencyCalls T21 ShortMessageMT-PP T22 ShortMessageMO-PP	SpeechTransmissionServices ShortMessageServices FacsimileTransmissionServices VoiceGroupCallServices
Available Services	Assigned Services					
T11 Telephony T12 EmergencyCalls T21 ShortMessageMT-PP T22 ShortMessageMO-PP	SpeechTransmissionServices ShortMessageServices FacsimileTransmissionServices VoiceGroupCallServices					
<table border="1"> <thead> <tr> <th>Available BC Profiles</th> <th>Assigned BC Profiles</th> </tr> </thead> <tbody> <tr> <td>< [] ></td> <td>< [] ></td> </tr> </tbody> </table>			Available BC Profiles	Assigned BC Profiles	< [] >	< [] >
Available BC Profiles	Assigned BC Profiles					
< [] >	< [] >					

Bearer Services

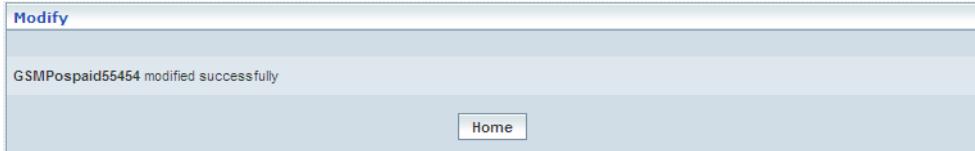
<input checked="" type="checkbox"/> DataCDA-Services	<input checked="" type="checkbox"/> DataCDS-Services	<input type="checkbox"/> PadAccessCA-Services				
<input type="checkbox"/> DataPDS-Services	<input type="checkbox"/> AlternateSpeech-DataCDA	<input type="checkbox"/> AlternateSpeech-DataCDS				
<input type="checkbox"/> SpeechFollowedByDataCDA	<input type="checkbox"/> SpeechFollowedByDataCDS					
<table border="1"> <thead> <tr> <th>Available Services</th> <th>Assigned Services</th> </tr> </thead> <tbody> <tr> <td>B21 DataCDA-300bps B22 DataCDA-1200bps B23 DataCDA-1200-75bps B24 DataCDA-2400bps</td> <td>DataCDA-Services DataCDS-Services</td> </tr> </tbody> </table>			Available Services	Assigned Services	B21 DataCDA-300bps B22 DataCDA-1200bps B23 DataCDA-1200-75bps B24 DataCDA-2400bps	DataCDA-Services DataCDS-Services
Available Services	Assigned Services					
B21 DataCDA-300bps B22 DataCDA-1200bps B23 DataCDA-1200-75bps B24 DataCDA-2400bps	DataCDA-Services DataCDS-Services					
<table border="1"> <thead> <tr> <th>Available BC Profiles</th> <th>Assigned BC Profiles</th> </tr> </thead> <tbody> <tr> <td>< [] ></td> <td>< [] ></td> </tr> </tbody> </table>			Available BC Profiles	Assigned BC Profiles	< [] >	< [] >
Available BC Profiles	Assigned BC Profiles					
< [] >	< [] >					

GSM SCF Name

abcd fdfdf test SCFName	<input type="button" value="▲"/>	<input type="button" value="▼"/>	<input type="button" value="▶"/>	<input type="button" value="◀"/>	SCFName
----------------------------------	----------------------------------	----------------------------------	----------------------------------	----------------------------------	---------

Operator Determined Barring

<table border="1"> <thead> <tr> <th>General ODB Data</th> <th>Services Barred</th> </tr> </thead> <tbody> <tr> <td>allECT-Barred allIC-Barred allIG-CallsBarred allPacketOrientedServicesBarred chargeableECT-Barred doublyChargeableECT-Barred</td> <td>allIG-CallsBarred</td> </tr> </tbody> </table>		General ODB Data	Services Barred	allECT-Barred allIC-Barred allIG-CallsBarred allPacketOrientedServicesBarred chargeableECT-Barred doublyChargeableECT-Barred	allIG-CallsBarred
General ODB Data	Services Barred				
allECT-Barred allIC-Barred allIG-CallsBarred allPacketOrientedServicesBarred chargeableECT-Barred doublyChargeableECT-Barred	allIG-CallsBarred				
<table border="1"> <thead> <tr> <th>PLMN ODB Data</th> <th>Services Barred</th> </tr> </thead> <tbody> <tr> <td>plmn-SpecificBarringType1 plmn-SpecificBarringType2 plmn-SpecificBarringType3 plmn-SpecificBarringType4</td> <td></td> </tr> </tbody> </table>		PLMN ODB Data	Services Barred	plmn-SpecificBarringType1 plmn-SpecificBarringType2 plmn-SpecificBarringType3 plmn-SpecificBarringType4	
PLMN ODB Data	Services Barred				
plmn-SpecificBarringType1 plmn-SpecificBarringType2 plmn-SpecificBarringType3 plmn-SpecificBarringType4					
<input type="button" value="Submit"/> <input type="button" value="Home"/>					

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing values / configurations of the profile
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (Subscriber profile) details will be updated accordingly and a message window to that effect will be displayed  <p>On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the 'Manage Profiles' grid

Delete

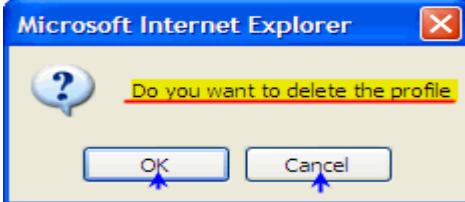
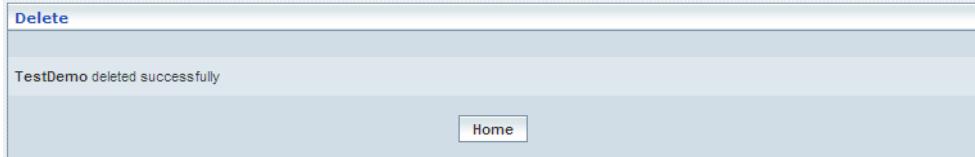
Home Location Register → Subscriber Profile Management → Home Profile → Manage → Delete

Delete enables the user to delete an existing Subscriber profile.

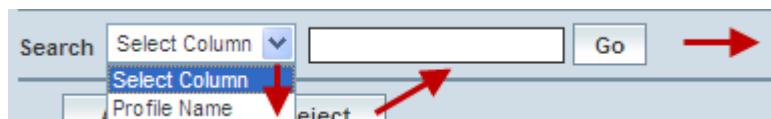
On clicking the '**Delete**' link of a chosen 'Profile' (from the Subscriber Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the Subscriber Profile.

The screen below shows the details related to an existing Subscriber profile, which enables the user to delete the same (Profile).

Delete			
Profile Name	TestDemo		
Network Access Mode	GSM		
ROAMING	National		
Access Restriction	UTRAN		
Charging Characteristics	Pre-Paid		
Mobile Station Category	Data Call (Voice band data)		
MultiParty Maximum Count	-		
Supplementary Services Profile	-		
CAMEL Subscriptions			
GSM CAMEL Subscription			
Originating CSI	-		
Terminating CSI	-		
VMSC Terminating CSI	-		
Dialled Service CSI	-		
Mobility Management GSM CSI	-		
Supplementary Services CSI Profile	-		
Translation Information Flag CSI	-		
USSD CSI	-		
Mobile Originating SMS CSI	-		
Mobile Terminating SMS CSI	-		
LCS & GMLC Profiles			
LCS Profile	-		
GMLC Profile	-		
Selective Roaming			
VLR Profile	-		
Special Services			
SoLSA Profile	-		
RSZI Profile	-		
SCF Notification Flags			
Notify CSE for ODB	True		
GSM			
OCSI Notification Flag	-	OCSI State	-
TCSI Notification flag	-	TCSI State	-
VTC SI Notification Flag	-	VTC SI State	-
DCSI Notification Flag	-	DCSI State	-
MCSI Notification Flag	-	MCSI State	-
UCSI Notification Flag	-	UCSI State	-
SSCSI Notification Flag	-	SSCSI State	-
MOSMCSI Notification Flag	-	MOSMCSI State	-
MTSMCSI Notification Flag	-	MTSMCSI State	-
TIFCSI Notification Flag	-		
Basic Services			
Tele Services with Bearer Capability Profiles			
SpeechTransmissionServices			
Bearer Services with Bearer Capability Profiles			
DataCDA-Services			
GSM SCF Name			
SCFName			
Delete Home			

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile (Subscriber profile)</p>  <p>On clicking the OK button of the alert window, the chosen Subscriber profile will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Manage Profiles' grid

Searching for a specific Subscriber - Home Profile (Record)



STEP	ACTION
1.	<p>Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field</p> <p>* By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field</p>
2.	Enter the value ('Profile Name') that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Subscriber - Home Profile (record) will be highlighted among the list of Profiles records

The screen below depicts fetching and displaying the Subscriber - Home Profile record.

Manage					
Search		Select Column	Go	View Per Page 10	
		Approve	Reject	1 2	
	Profile Name	Profile Type	Status	Action	
<input type="radio"/>	BhaskarGPRS2	GPRS	CREATED	Modify	Delete
<input type="radio"/>	GPRSPostpaidsdssds	GPRS	CREATED	Modify	Delete
<input type="radio"/>	GprsWithGCSI12	GPRS	CREATED	Modify	Delete
<input type="radio"/>	GprsWithGCSIff	GPRS	CREATED	Modify	Delete
<input type="radio"/>	GSMPospaid34234	GSM	CREATED	Modify	Delete
<input type="radio"/>	GSMPospaid55454	GSM	CREATED	Modify	Delete
<input type="radio"/>	MobGPRSLoad5	GPRS	CREATED	Modify	Delete
<input type="radio"/>	MOBILYHOMEGSM4	GSM	CREATED	Modify	Delete
<input type="radio"/>	SP1	GSM	CREATED	Modify	Delete
<input type="radio"/>	Test	GSM	CREATED	Modify	Delete

Approve **Reject** 1 2

Home

16 Subscriber Management

This chapter describes how to manage subscribers using various management options like Authentication, create, refer, and upload subscribers. This chapter also talks about other options such as provisioning subscribers, attach/detach SS codes (Bulk), add/remove Tele-Bearer (Bulk), and LCS services.

[Home Location Register → Subscriber Management](#)

Subscriber Management administers and streamlines the information related to subscribers and few associated or default service offerings that could be assigned to subscribers based on their subscriptions.

This Module thus maintains the details related to following supplementary services:

- Call Barring
- Call Forwarding
- Line Identity
- Call Completion
- Other Supplementary Services

Subscriber Management allows the user performing the following functions:

- Manage KI Key Index
- Manage OP Index
- Authentication Centre
- Authentication View
- Create Subscriber
- Reference Subscriber
- Bulk Subscriber Creation
- Provision / Modify GPRS (Bulk)
- Upload OCSI Number Criteria
- Change Subscriber Profile
- Change IMSI / MSISDN (Bulk)
- Operator Determined Barring
- Activate / Deactivate Subscribers
- Attach / Detach SS Codes (Bulk)
- Add / Remove Tele-Bearer(Bulk)
- Subscriber Information
- Remove Subscriber
- Remove Subscribers (Bulk)
- Cancel Location (Bulk)

16.1 Manage KI Key Index

The manage KI Index module shows the user to create new KI key index. The KI key is created based on the index value and the encoding algorithm.

Initially the Manage KI Key Index screen is displayed as shown below.

Manage KI Key Index	
Search <input type="button" value="Select Column"/> <input type="text"/> <input type="button" value="Go"/> View Per Page <input type="button" value="10"/>	
<input type="button" value="Create"/>	
Index	Action
0	<input type="button" value="View"/>
012345678901234	<input type="button" value="View"/>
1	<input type="button" value="View"/>
1111	<input type="button" value="View"/>
1212	<input type="button" value="View"/>
1234	<input type="button" value="View"/>
123456	<input type="button" value="View"/>
1950	<input type="button" value="View"/>
2123	<input type="button" value="View"/>
32423	<input type="button" value="View"/>

View

This module enables the user to view the existing KI key Index and value configurations

The below screen shows the existing KI Key index configuration

View
Index 012345678901234
Index Value H
<input type="button" value="Home"/>

STEP	ACTION
1.	Click on the View link from the Manage KI Key Index screen. A new window appears with the KI key Index and Value details
2.	On clicking the Home button, it only redirects the user back to the 'Manage KI Key Index' main page

Create

The user can create new KI Key Index and value based on the Encoding Algorithm using this module.

The below screen shows the create KI Key index details

The screenshot shows a 'Create' form for KI Key Index. At the top right, there is a note: 'Indicates Mandatory'. The form contains three input fields: 'Index' (mandatory), 'Index Value' (mandatory), and 'Encoding Algorithm' (dropdown menu). Below the fields are two buttons: 'Submit' and 'Home'.

STEP	ACTION
1.	Click on the Create button from the Manage KI Key Index screen. A new window appears with the KI key Index and Value fields
2.	Enter preferred KI Key Index number in the <Index> field
3.	Enter the corresponding KI Key Index value in the <Index Value> field
4.	Select the encoding algorithm from the <Encoding Algorithm> dropdown <ul style="list-style-type: none"> • AES • DES
5.	Click on Submit button, the new KI key Index is inserted successfully and a success message to that effect is displayed.
6.	On clicking the Home button, it only redirects the user back to the 'Manage KI Key Index' main page

16.2 Manage OP Index

The manage KI Index module shows the user to create new OP index. Initially the Manage OP Index screen is displayed as shown below.

Manage OP Index	
<input type="button" value="Create"/> 1	
Index	Action
121212	<input type="button" value="View"/>
12345	<input type="button" value="View"/>
2123	<input type="button" value="View"/>
32423	<input type="button" value="View"/>
345	<input type="button" value="View"/>
Mohit1234	<input type="button" value="View"/>
abc	<input type="button" value="View"/>
hello1	<input type="button" value="View"/>
index1	<input type="button" value="View"/>
nan	<input type="button" value="View"/>

[View](#)

This module enables the user to view the existing OP Index and value configurations

The below screen shows the existing OP index configuration

View	
Index	12345
Index Value	H
<input type="button" value="Home"/>	

STEP	ACTION
1.	Click on the View link from the Manage OP Index screen. A new window appears with the OP Index and Value details
2.	On clicking the Home button, it only redirects the user back to the 'Manage OP Index' main page

[Create](#)

The user can create new OP Index and value using this module.

The below screen shows the create KI Key index details

The screenshot shows a 'Create' form with the following fields:

- Index**: An input field with a red asterisk (*) indicating it is mandatory.
- Index Value**: An input field with a red asterisk (*) indicating it is mandatory.
- Submit**: A button to submit the form.
- Home**: A button to return to the main page.

A legend at the top right of the form area states: **Indicates Mandatory**.

STEP	ACTION
1.	Click on the Create button from the Manage OP Index screen. A new window appears with the OP Index and Value fields
2.	Enter preferred OP Index number in the <Index> field
3.	Enter the corresponding OP Index value in the <Index Value> field
4.	Click on Submit button, the new OP Index is inserted successfully and a success message to that effect is displayed.
5.	On clicking the Home button, it only redirects the user back to the 'Manage OP Index' main page

16.3 Authentication Center

VLR indicates authentication request whenever there is a location update. Authentication Center queries the data base for KI and OPC for the requested IMSI. With these details Authentication center generates triplet (SRES, RAND, KC) and sends to VLR in authentication response.

[Home Location Register → Subscriber Management → Authentication Center](#)

Authentication Center here in this context is a storing location for storing the data related to various IMSI (International Mobile Subscriber Identifier) numbers along with the corresponding cipher codes (KI and OPC, Authentication Algorithm, Node Type, AMF and Encryption Algorithm). This allows the user to store a set/group of IMSI (IMSI numbers along with cipher codes, each one as record in a new line) at a stretch in bulk.

Mapping a subscriber's profile to an IMSI which is authenticated by the Authentication Center

The proposed file for upload needs to be encrypted before uploading the file. Encryption shall be executed through FTP (File Transfer Protocol).

Note: The flat file should be encrypted before uploading.

Encrypting file format is as below

IMSI,KI,OPC,AUTHENTICATION ALGORITHM,NODE TYPE,AMF,ENCRYPTION ALOGORITHM

Upload file format after encryption is as below

Encryption Status,IMSI,KI,OPC,AUTHENTICATION ALGORITHM,NODE TYPE,AMF,ENCRYPTION ALOGORITHM

Encryption Status field will be added for each record on encrypting the flat file.

The screen below shows uploading the encrypted flat-file that consists of IMSI along with the corresponding cipher codes (stored as records)

Authentication Center

| Indicates Mandatory

Note: The flat file should be encrypted before uploading.

Encrypting file format is as below

IMSI,KI,OPC,AUTHENTICATION ALGORITHM,NODE TYPE,AMF,ENCRYPTION ALOGORITHM

Upload file format after encryption is as below

Encryption Status,IMSI,KI,OPC,AUTHENTICATION ALGORITHM,NODE TYPE,AMF,ENCRYPTION ALOGORITHM

Encryption Status field will be added for each record on encrypting the flat file.

- The file extensions accepted are '.txt' or '.csv'.
- Each IMSI should be in a new separate line, should be unique and should be numeric.
- IMSI length should be between 15 to 20 digits.
- KI length should be 32 characters.
- OPC length should be 32 characters.
- Values accepted in KI and OPC are (0 to 9) and (A to F).
- AUTHENTICATION ALGORITHM should be numeric and the values accepted are 1,2,3,4 and 5.
 - 1 - GSM-MILEANGE
 - 2 - COMP128-1
 - 3 - COMP128-2
 - 4 - COMP128-3
 - 5 - MILEANGE
- NODE TYPE should be numeric and the values accepted are 0,1 and 2.
 - 0 - VLR
 - 1 - SGSN
 - 2 - VLR & SGSN
- AMF is non-mandatory (Please leave the field blank if AMF is not provided).
- AMF length should be 4 characters and the Values accepted are (0 to 9) and (A to F).
- ENCRYPTION ALOGORITHM should be numeric and the values accepted are 0,1 and 2.
 - 0 - AES
 - 1 - DES
 - 2 - NOENCRYPTION
- If AUTHENTICATION ALGORITHM is GSM-MILEANGE or MILEANGE then OPC is mandatory and if ENCRYPTION ALOGORITHM is AES then OPC is mandatory, otherwise OPC is non-mandatory(Please leave the field blank if OPC is not provided).

Upload | D:\Rajin\Projects\HLR\Aut | Browse...

Submit | Home

STEP	ACTION
1.	Browse for the encrypted Flat file that consists of a set of IMSI numbers (along with the corresponding cipher codes)
2.	On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload In case of the upload failure, the corresponding 'Error Records' will be automatically displayed
3.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Subscriber Management' main page

16.4 Authentication View

Home Location Register → Subscriber Management → Authentication View

Authentication view allows the user obtaining authentication details related to a given IMSI. Initially, it displays a screen enabling the user to provide an IMSI for obtaining the corresponding authentication details.

The screen below shows entering an IMSI.

The screenshot shows a web-based form titled "Authentication View". At the top right, there is a note "Indicates Mandatory" next to a red vertical bar. Below this, there is a single input field labeled "IMSI" containing the value "786000000000012". At the bottom of the form are two buttons: "Submit" and "Home".

STEP	ACTION
1.	Enter an IMSI in the <IMSI> field
2.	On clicking the Submit button the corresponding authentication algorithm will be displayed in separate screen The screenshot shows the results of an IMSI submission. It displays the entered IMSI (786000000000011) and the corresponding Authentication Algorithm (COMP128-1). There is also a "Home" button at the bottom.
3.	On clicking the Home button of the message window, it directs the user back to the 'Authentication View' Screen

16.5 Create Subscriber

Home Location Register → Subscriber Management → Create Subscriber

'Create Subscribers' helps the user creating subscribers by way of relating all the required attributes. Subscribers may belong to GSM and GPRS Networks.

The screen below shows creating a subscriber belonging to **GSM** Network.

Create Subscriber

Profile Type | **GSM** GPRS

Profile Name | 14thkaponee

State | Active

Current location to be retrieved | True

IMSI | 345678910456321

MSISDN | 1987654323456

MultiNumbered MSISDNs | 1987654323458

Service Code | DataCDS-Services

Mapping | Demapping

Indicates Mandatory

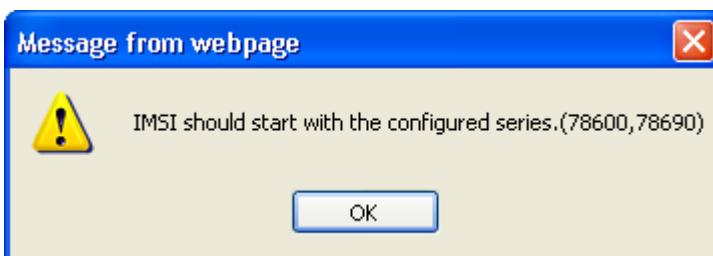
List of the **(Approved)** Subscriber Profiles pertaining to GSM network will be displayed here

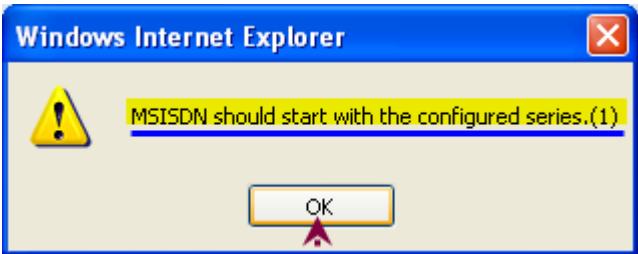
Associating multiple MSISDN(s) to the given IMSI

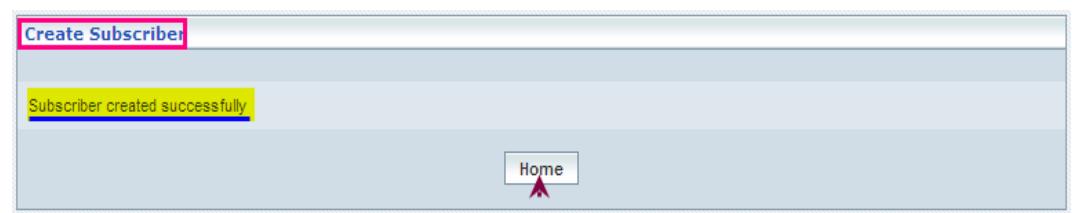
Submit Home

Detailed description of the Mapping/Demapping dropdown: The dropdown contains a list of service profiles mapped to the given MSISDN. The visible items are: 1987654323458-T11 Telephony, 1987654323458-DataCDS-Services, 1987654323459-T22 ShortMessageMO-PP, 1987654323460-T62 AutomaticFacsimileGroup, 1987654323461-T21 ShortMessageMT-PP, 1987654323462-T12 EmergencyCalls.

STEP	ACTION
1.	Select radio option (GSM / GPRS) to specify the network for the proposed subscriber In this case – Subscriber belongs to GSM Network
2.	With the effect of selecting GSM Network, only the corresponding (subscriber) profiles will be dynamically displayed as drop-down list of the <Profile Name> field NOTE: However, the subscriber profiles include <u>Only</u> the approved profiles
3.	Select a profile from the drop down list of the <Profile Name> field
4.	Select status (Active / Inactive) to indicate initial default status of the subscriber from the drop-down list of the <State> field * By default, the status elements (Active / Inactive) will be dynamically displayed as drop-down list of the <State> field
5.	Select a value (True / False) to indicate default value of the subscriber for the 'current location to be retrieved' feature * By default, the value elements (True / False) will be dynamically displayed as drop-down list of the <current location to be retrieved> field
6.	Enter IMSI number in the <IMSI> field NOTE: Given IMSI must be the constituent of the Configured series. If the user is trying to enter an IMSI, which the series has not been configured, an alert message will be displayed to that effect



7.	<p>Enter MSISDN number in the <MSISDN> field</p> <p>NOTE: Given MSISDN must be the constituent of the Configured series. If the user is trying to enter an MSISDN, which the series has not been configured, an alert message will be displayed to that effect</p>   <p>NOTE: First given MSISDN shall be reckoned as basic MSISDN and several other discrete MSISDN can be assigned to the given IMSI</p>
8.	Enter MSISDN (additional and other than basic MSISDN) in the <Multi Numbered MSISDNs> field
9.	<p>Select the SS Code for additional MSISDN from the drop-down list of the <SS Code> field</p> <p>* By default, the list of SS Codes will be dynamically displayed as drop-down list of the <SS Code> field</p> <p>NOTE: SS Code must be unique to each of those MSISDN(s) attributed to the given IMSI</p>
10.	<p>On clicking the right-arrow button, the combination of (additional) MSISDN and the chosen SS Code (as a string) will be moved to the <Text Field> which is on to the right side of the screen</p> <p>User can assign the required number of MSISDN(s) in a similar fashion</p> <p>However if the user wants to remove an MSISDN (any time before creating the Subscriber), selecting a combination from the right text field and subsequently clicking the left-arrow button removes the same</p>

11.	<p>On clicking the Submit button, subscriber will be created, a message window will be displayed to that effect</p>  <p>On clicking the Home button of the message window, it directs the user back to the 'Create Subscriber' Screen</p>
12.	<p>On clicking the Home button (prior to submission of IMSI), it directs the user to the 'Subscriber Management' main page</p>

The screen below shows creating a subscriber belonging to **GPRS** Network.

Create Subscriber

Profile Type: GSM GPRS (Indicates Mandatory)

Profile Name: 13thgprsall

State: Active

Current location to be retrieved: False

Change the order of PDP Profiles

Defining the order of PDP Profiles

IP Address: 3.3.3.6

pdppcmone
1stfebpdp

Mapping

Demapping

IMSI: 30421283000144

MSISDN: 13345765576576576

Submit Home

STEP	ACTION
1.	Select radio option (GSM / GPRS) to specify the network for the proposed subscriber In this case – Subscriber belongs to GSM Network
2.	With the effect of selecting GPRS Network, only the corresponding (subscriber) profiles will be dynamically displayed as drop-down list of the <Profile Name> field NOTE: However, the subscriber profiles include Only the approved profiles
3.	Select a profile from the drop down list of the <Profile Name> field
4.	With the effect of choosing a specific profile, Only the corresponding PDP profiles will be dynamically displayed in the text field which is on to left side of the screen. These profiles have to be prioritized in a specific order based on the type (dynamic / static) of profiles composition. Note: The PDP Profiles shall be configured for the subscriber's (level) at Subscriber Profile Management. For more information, refer <i>Subscriber Profile Management > Home Profile</i> .

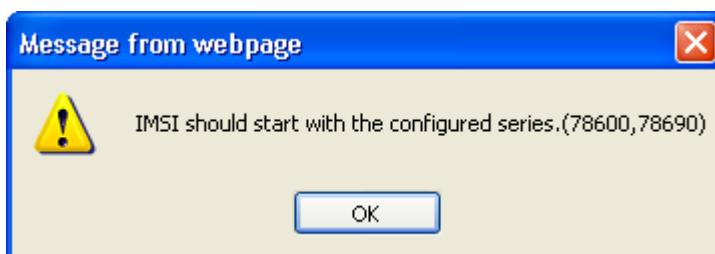
5.	Select status (Active / Inactive) to indicate initial default status of the subscriber from the drop-down list of the <State> field * By default, the status elements (Active / Inactive) will be dynamically displayed as drop-down list of the <Status> field
6.	Select a value (True / False) to indicate default value of the subscriber for the 'current location to be retrieved' feature * By default, the value elements (True / False) will be dynamically displayed as drop-down list of the <current location to be retrieved> field
7.	Select radio option  (Dynamic / Static) to specify the nature of Profiles Composition
8.	The option 'Dynamic' indicates random attribution of profiles to the GPRS Subscriber, whereas 'Static' indicates fixed / defined attribution of profiles
9.	With the effect of choosing 'Static' Option, order prioritization of PDP profiles with respect to various IP Addresses becomes mandatory
10.	Enter IP Address in the <IP Address> field
11.	Select a Profile from the list of Profiles in the text field NOTE: IP Address must be unique to each of those attributed Profiles
12.	On clicking the right-arrow button, the combination of IP address and the chosen Profile (as a string) will be moved to the <Text Field> which is on to the right side of the screen User can assign the required number of IP Addresses in a similar fashion However if the user wants to remove an IP Address (any time before creating the Subscriber), selecting a combination from the right text field and subsequently clicking the left-arrow button removes the same NOTE: Nevertheless, it is mandatory to prioritize the order of entire PDP Profiles (in contemplation with various IP Addresses) of the chosen Profile

- 13.** Enter IMSI number in the <IMSI> field

NOTE: Given IMSI must be the constituent of the Configured series. If the user is trying to enter an IMSI, which the series has not been configured, an alert message will be displayed to that effect

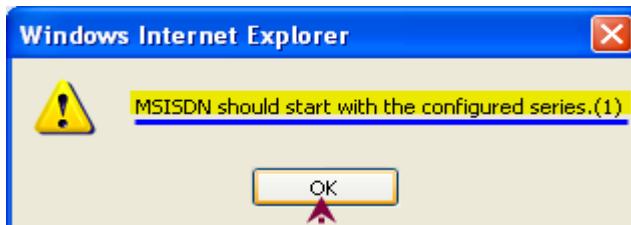


New

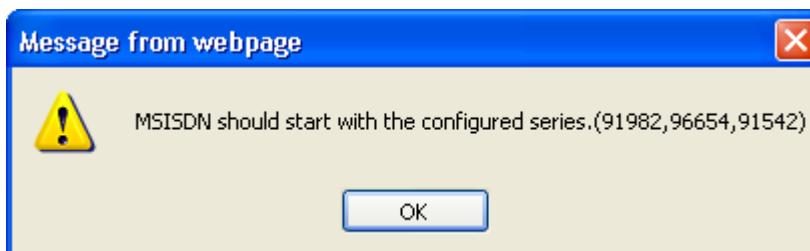


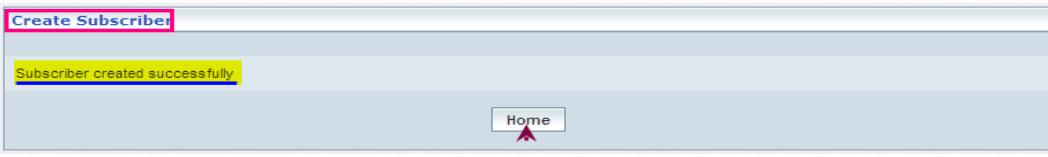
- 14.** Enter MSISDN number in the <MSISDN> field

NOTE: Given MSISDN must be the constituent of the Configured series. If the user is trying to enter an MSISDN, which the series has not been configured, an alert message will be displayed to that effect



New



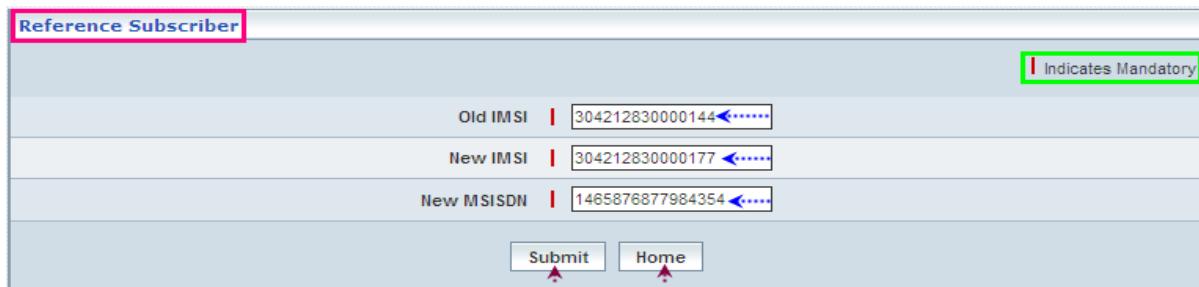
15.	<p>On clicking the OK button, subscriber will be created, a message window will be displayed to that effect</p>  <p>On clicking the Home button of the message window, it directs the user back to the 'Create Subscriber' Screen</p>
16.	<p>On clicking the Home button (prior to submission of IMSI), it directs the user to the 'Subscriber Management' main page</p>

16.6 Reference Subscriber

[Home Location Register → Subscriber Management → Reference Subscriber](#)

'Reference Subscriber' enables the user to create an identical Subscriber précis similar to that of the one which is already in existence. In other words, a new Subscriber précis can be created having the similar configuration as that of the existing IMSI of the Subscriber. This minimizes the time and effort in creating a new Subscriber précis with similar configurations as that of the existing Subscriber's IMSI. At the time attributing a précis with reference to the existing IMSI, it is also essential to provide a new MSISDN in order to complete creating a subscriber.

The screen below shows creating a Subscriber précis with the existing reference.



Reference Subscriber	
Indicates Mandatory	
Old IMSI	304212830000144
New IMSI	304212830000177
New MSISDN	1465876877984354
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	<p>Enter old (reference) IMSI in the <Old IMSI> field</p> <p>NOTE:</p> <ul style="list-style-type: none"> ◆ Reference IMSI must belong to an existing subscriber ◆ Given IMSI must be the constituent of the Configured series. If the user is trying to enter an IMSI, which the series has not been configured, an alert message will be displayed to that effect
2.	<p>Enter new (proposed) IMSI in the <New IMSI> field</p> <p>NOTE:</p> <ul style="list-style-type: none"> ◆ New IMSI must be authenticated but should not belong to any existing subscriber ◆ The Network Access Mode (GSM / GPRS / GSM-GPRS) of new IMSI should be similar to that of Old IMSI or it should be (neutrally) GSM-GPRS <p>Given IMSI must be the constituent of the Configured series. If the user is trying to enter an IMSI, which the series has not been configured, an alert message will be displayed to that effect</p>
3.	<p>Enter MSISDN (new) in the <MSISDN> field</p> <p>NOTE: Given MSISDN must be the constituent of the Configured series. If the user is trying to enter an MSISDN, which the series has not been configured, an alert message will be displayed to that effect</p>
4.	On clicking the Submit button the corresponding authentication algorithm will be displayed in separate screen
5.	On clicking the Home button (prior to submission of IMSI), it directs the user to the 'Subscriber Management' main page

16.7 Bulk Subscriber Creation

[Home Location Register](#) → [Subscriber Management](#) → [Bulk Subscriber Creation](#)

'Upload Subscribers' helps the user storing data (of a group of subscribers) related to various IMSI (International Mobile Subscriber Identifier) numbers along with the corresponding MSISDN and also along with the corresponding cipher codes when authentication is required to be mentioned. This allows the user to store a set/group of IMSI at a stretch in bulk (IMSI numbers along with MSISDN and also along with cipher codes, as the case may be) and attributing the values and parameters that correspond with the associated Network Access Mode of the set of IMSI.

However, uploading the subscribers' data shall be carried out in contemplation with each of the following network access modes:

- GSM

- GPRS

The screen below shows assigning the values to a bulk upload of the group of Subscribers' details, where the network access mode is **GSM**.

Bulk Subscriber Creation			
Indicates Mandatory			
<p>Note: Upload file format is as below For GSM IMSI,MSISDN,MSISDN1:ServiceCode1,MSISDN2:ServiceCode2,...</p> <p>MSISDN is optional (please leave the field blank if MSISDN is not provided).</p> <p>MULTINUMBERED MSISDN:ServiceCode combinations are optional.</p> <p>If MSISDN is provided then only MULTINUMBERED MSISDN:ServiceCode combinations can be provided.</p> <p>MULTINUMBERED MSISDN should be unique and ServiceCode should be unique in each record.</p> <p>For GPRS IMSI,MSISDN,PDP-Address,PDP-Address1,...</p> <p>MSISDN is optional (please leave the field blank if MSISDN is not provided).</p> <p>PDP-Address are not mandatory, If GPRS profiles are selected, please provide comma (,) separated PDP-Address for each of the PDP Profiles.</p> <ul style="list-style-type: none"> • The file extensions accepted are '.txt' or '.csv'. • Each Record should be in a new separate line. • IMSI should be numeric and unique. • IMSI Length should be between 15 to 20 digits. • MSISDN Should be numeric and unique. • MSISDN should start with Configured PLMN Series. • MSISDN length should be between Min (CC+6(SN) or NDC length+6(CC+SN)) digits and Max(20) digits. • Please map all the PDP profiles when the profile type selected is GPRS. 			
<p>Note: Configured PLMN Series</p> <table border="1" style="width: 100%;"> <tr> <td>911234</td> <td>9123</td> </tr> </table> <p>Profile Type <input checked="" type="radio"/> GSM <input type="radio"/> GPRS</p> <p>Profile Name FR_SUB</p> <p>State Active</p> <p>Current location to be retrieved True</p> <p>Upload C:\Documents and Settings\ [Browse...]</p> <p style="text-align: center;">Submit Home</p>		911234	9123
911234	9123		

STEP	ACTION
1.	Select a radio option (GSM /GPRS) to specify the profile type, in other words select the network access mode of the profile NOTE: First Case - GSM
2.	With the effect of selecting the profile's network access mode, the corresponding list of (Only Approved profiles) (names) will be dynamically displayed as a drop-down list of the <Profile Name> field select the desired profile name from the drop-down list of the <Profile Name>field
3.	Select status (Active / Inactive) to indicate initial default status of the subscriber from the drop-down list of the <State> field * By default, the status elements (Active / Inactive) will be dynamically displayed as drop-down list of the <State> field
4.	Select a value (True / False) to indicate default value of the subscriber for the 'current location to be retrieved' feature * By default, the value elements (True / False) will be dynamically displayed as drop-down list of the <current location to be retrieved> field
5.	Browse for a Flat file that consists of a set of IMSI numbers along with the corresponding MSISDN and along with cipher codes
6.	On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload
7.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Subscriber Management' main page

The screen below shows assigning the values to a bulk upload of the group of Subscribers' details, where the network access mode is [GPRS](#).

Bulk Subscriber Creation

| Indicates Mandatory

Note: Upload file format is as below
For GSM **IMSI,MSISDN,MSISDN1:ServiceCode1,MSISDN2:ServiceCode2,...**
MSISDN is optional (please leave the field blank if MSISDN is not provided).
MULTINUMBERED MSISDN:ServiceCode combinations are optional.
If MSISDN is provided then only MULTINUMBERED MSISDN:ServiceCode combinations can be provided.
MULTINUMBERED MSISDN should be unique and ServiceCode should be unique in each record.
For GPRS **IMSI,MSISDN,PDP-Address,PDP-Address1,...**
MSISDN is optional (please leave the field blank if MSISDN is not provided).
PDP-Address are not mandatory, If GPRS profiles are selected, please provide comma (,) separated PDP-Address for each of the PDP Profiles.

- The file extensions accepted are '.txt' or '.csv'.
- Each Record should be in a new separate line.
- IMSI should be numeric and unique.
- IMSI Length should be between 15 to 20 digits.
- MSISDN Should be numeric and unique.
- MSISDN should start with Configured PLMN Series.
- MSISDN length should be between Min (CC+6(SN) or NDC length+6(CC+SN)) digits and Max(20) digits.
- Please map all the PDP profiles when the profile type selected is GPRS.

Note: Configured PLMN Series

911234	9123
--------	------

Profile Type | GSM GPRS

Profile Name | GPRSJune

State | Active

Current location to be retrieved | True

Dynamic Static

Change the order of PDP Profiles

testone
test7

testone

|

Upload |

STEP	ACTION
1.	Select a radio option (GSM/ GPRS) to specify the profile type, in other words select the network access mode of the profile; NOTE: Second Case - GPRS
2.	With the effect of selecting the profile's network access mode, the corresponding list of profiles (Only Approved profiles) (names) will be dynamically displayed as a drop-down list of the <Profile Name> field select the desired profile from the drop-down list of the <Profile Name>field; Select a profile from the drop down list of the <Profile Name> field
3.	Select status (Active / Inactive) to indicate initial default status of the subscriber from the drop-down list of the <State> field * By default, the status elements (Active / Inactive) will be dynamically displayed as drop-down list of the <State> field
4.	Select a value (True / False) to indicate default value of the subscriber for the 'current location to be retrieved' feature * By default, the value elements (True / False) will be dynamically displayed as drop-down list of the <current location to be retrieved> field
5.	Select radio option (Dynamic / Static) to specify the nature of Profiles Composition
6.	The option 'Dynamic' indicates random attribution of profiles to the GPRS Subscriber, whereas 'Static' indicates fixed / defined attribution of profiles
7.	With the effect of choosing 'Static' Option, order prioritization of PDP profiles becomes mandatory ; Select a PDP Profile from the list of PCP Profiles in the text field
8.	On clicking the right-arrow button, the chosen Profile (as a string) will be moved to the <Text Field> which is on to the right side of the screen User can assign the required number of Profiles in a similar fashion However if the user wants to remove a Profile (any time before uploading the file), selecting a profile from the right text field and subsequently clicking the left-arrow button removes the same NOTE: Nevertheless, it is mandatory to prioritize the order of entire PDP Profiles of the chosen Profile
9.	Browse for a Flat file that consists of a set of IMSI numbers along with the corresponding MSISDN and along with cipher codes
10.	On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload
11.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Subscriber Management' main page

16.8 Provision / Modify GPRS (Bulk)

Home Location Register → Subscriber Management → Provision / Modify GPRS (Bulk)

'Provision / Modify GPRS (Bulk)' helps the user provisioning (new) or updating (existing) Profiles in contemplation with the corresponding PDP profiles of subscribers in bulk at a stretch.

Provisioning of GPRS is applicable only to those subscribers belonging to the network access mode being 2 in terms of Authentication.

If both GSM and GPRS network access modes have been assigned to subscribers, consequently, the corresponding Tele services of the selected GPRS profiles must be the sub-set of their respective GSM Tele services.

The screen below shows provisioning / updating (as the case may be) the PDP profiles of a group of subscribers in bulk at a stretch.

Provision / Modify GPRS (Bulk)

Note: Upload file format is as below

IMSI,PDP-Address,PDP-Address1....

PDP-Address's are not mandatory. If static is selected, please provide comma (,) separated PDP-Address for each of the PDP Profiles.

- The file extensions accepted are '.txt' or '.csv'.
- Each Record should be in a new separate line.
- IMSI should be numeric and unique.
- IMSI Length should be between 15 to 20 digits.

Based on the chosen profile, the corresponding PDP profiles will be dynamically displayed here in this text field

Profile Name | gprslatest

List of the (**Approved**) Subscriber Profiles pertaining to GPRS network will be displayed here

Dynamic Static

Change the order of PDP Profiles

Upload | C:\Documents and Settings\ | Browse...

Submit | **Home**

STEP	ACTION
1.	Select a profile from the drop down list of the <Profile Name> field
2.	With the effect of choosing a specific profile, Only the corresponding PDP profiles will be dynamically displayed in the text field which is on to left side of the screen. These profiles have to be prioritized in a specific order based on the type (dynamic / static) of profiles composition
3.	Select radio option (Dynamic / Static) to specify the nature of Profiles Composition
4.	The option 'Dynamic' indicates random attribution of profiles to the GPRS Subscriber, whereas 'Static' indicates fixed / defined attribution of profiles
5.	With the effect of choosing 'Static' Option, order prioritization of PDP profiles with respect to various IP Addresses becomes mandatory
6.	Select a Profile from the list of Profiles in the text field NOTE: IP Address must be unique to each of those attributed Profiles
7.	On clicking the right-arrow button, chosen Profile (as a string) will be moved to the <Text Field> which is on to the right side of the screen User has to assign the entire profiles in a similar fashion However if the user wants to remove a profile (any time before creating the Subscriber), selecting a profile and subsequently clicking the left-arrow button removes the same NOTE: Nevertheless, it is mandatory to prioritize the order of entire PDP Profiles of the chosen Profile
8.	User must follow the guide lines for Data Formats related IMSI and PDP Addresses
9.	Browse for a Flat file that consists of a set of records containing IMSI and the PDP Addresses (mentioned in a specific format and each one starting in a new line)
10.	On clicking the Submit button, provisioning GPRS / updating the GPRS Profiles related to a group of subscribers will be carried out and a message window will be displayed to that effect  On clicking the Home button of the message window, it directs the user back to the 'Provision / Modify GPRS (Bulk)' screen
11.	On clicking the Home button of the Provision/Modify GPRS screen, it directs the user to the 'Subscriber Management' main page

16.9 Upload OCSI Number Criteria

[Home Location Register](#) → [Subscriber Management](#) → [Upload OCSI Number Criteria](#)

'Upload OCSI Number Criteria' helps the user uploading a set of OCSI Numbers in bulk / at a stretch. OCSI number is a combined element of the following constituents.

- IMSI (International Mobile Subscriber Identifier)
- Match Type
- Destination Number Length(s) (Respectively for the count of numbers configured)
- Corresponding Destination Numbers (as configured)

The screen below shows uploading a set / group of OCSI Numbers in bulk.

STEP	ACTION
1.	User must follow the guide lines for Data Formats of the OCSI Number
2.	User can upload OCSI number criteria by selecting the desired visiting network from the <Visiting Network> drop-down list
3.	Browse for a Flat file that consists of a set of OCSI numbers in a specific format and each one starting in a new line
4.	On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload
5.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Subscriber Management' main page

16.10 Change Subscriber Profile

[Home Location Register](#) → [Subscriber Management](#) → [Change Subscriber Profile](#)

'Change Subscriber Profile' helps the user changing data related to a set of IMSI (International Mobile Subscriber Identifier) at a stretch in bulk. In other words, this allows the user to change values and parameters that correspond to the relevant Network Access for a set/group of IMSI at a stretch in bulk.

However, changes to the subscribers' data shall be carried out in contemplation with each of the following network access modes:

- GSM
- GPRS

* Once, any network access related changes made to the values & parameters of a set of IMSI, the changed values are applicable and effective (for the said set of IMSI) till the next change. In other words, in the event of changing network access values of the IMSI, the old (existing) values will be terminated and IMSI numbers will be updated with the changed values.

The screen below shows changing network access related values for a group of Subscribers' IMSI, where the network access mode is [GSM](#).

Change Subscriber Profile

Note: Upload file format is as below

Indicates Mandatory

IMSI

Along with the above mentioned file format if GPRS profile is selected, please provide comma (,) separated PDP Address for each of the PDP profiles.

- The file extensions accepted are '.txt' or '.csv'.
- Each IMSI should be in a new separate line.
- IMSI should be numeric.
- IMSI Length should be between 15 to 20 digits.
- Please map all the PDP profiles when the profile type selected is GPRS

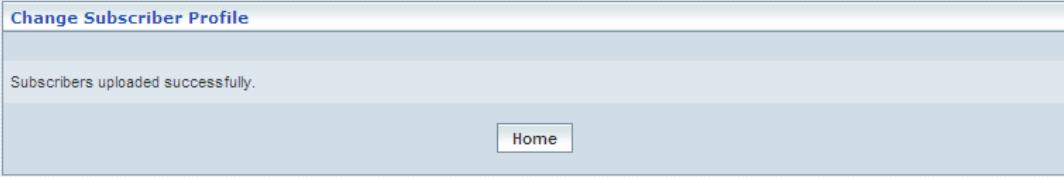
User must follow these guidelines for the Subscriber data format

Profile Type	<input checked="" type="radio"/> GSM <input type="radio"/> GPRS
Profile Name	12thgsmbearservices
State	Active
Upload	C:\Documents and Settings\ <input type="button" value="Browse..."/>

List of the (Approved) Subscriber Profiles pertaining to GSM network will be displayed here

Browse for a flat-file consisting a group of IMSI along with related data

Submit Home

STEP	ACTION
1.	Select a radio option (GSM /GPRS) to specify the profile type, in other words select the network access mode of the profile NOTE: First Case - GSM
2.	With the effect of selecting the profile's network access mode, the corresponding list of (Only Approved profiles) (names) will be dynamically displayed as a drop-down list of the <Profile Name> field select the desired profile name from the drop-down list of the <Profile Name>field
3.	Select status (Active / Inactive) to indicate initial default status of the subscriber from the drop-down list of the <State> field * By default, the status elements (Active / Inactive) will be dynamically displayed as drop-down list of the <State> field
4.	Browse for a Flat file that consists of a set of IMSI numbers, in a specific format and each one starting in a new line
5.	On clicking the Submit button, a message window to that effect will be displayed confirming the updates to the values pertaining the set of IMSI  <p>On clicking the Home button of the message window, it redirects the user to the 'Change Subscriber Profile' Screen</p>
6.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Subscriber Management' main page

The screen below shows changing network access related values for a group of Subscribers' IMSI, where the network access mode is **GPRS**.

Change Subscriber Profile

Note: Upload file format is as below
IMSI
Along with the above mentioned file format if GPRS profile is selected, please provide comma (,) separated PDP Address for each of the

- The file extensions accepted are '.txt' or '.csv'.
- Each IMSI should be in a new separate line.
- IMSI should be numeric.
- IMSI Length should be between 15 to 20 digits.
- Please map all the PDP profiles when the profile type selected is GPRS

Based on the chosen profile, the corresponding PDP profiles will be dynamically displayed here in this text field

<input type="radio"/> GSM	<input checked="" type="radio"/> GPRS
Profile Name	13thgprs
State	Active

User must follow these guidelines for the Subscriber data formats

Dynamic Static
Change the order of PDP Profiles

Defining the order of PDP Profiles

Mapping **Demapping**

1stfebpdp 1stfebpdp

Upload | C:\Documents and Setting | Browse...

List of the (Approved) Subscriber Profiles pertaining to GPRS network will be displayed here

Browse for a flat-file consisting a group of IMSI along with related data

Submit | Home

STEP	ACTION
1.	Select a radio option (GSM/ <u>GPRS</u>) to specify the profile type, in other words select the network access mode of the profile NOTE: Second Case - <u>GPRS</u>
2.	With the effect of selecting the profile's network access mode, the corresponding list of profiles (Only Approved profiles) (names) will be dynamically displayed as a drop-down list of the <Profile Name> field select the desired profile from the drop-down list of the <Profile Name> field; Select a profile from the drop down list of the <Profile Name> field
3.	Select status (Active / Inactive) to indicate initial default status of the subscriber from the drop-down list of the <State> field * By default, the status elements (Active / Inactive) will be dynamically displayed as drop-down list of the <State> field
4.	Select radio option (Dynamic / Static) to specify the nature of Profiles Composition
5.	The option 'Dynamic' indicates random attribution of profiles to the GPRS Subscriber, whereas 'Static' indicates fixed / defined attribution of profiles
6.	With the effect of choosing 'Static' Option, order prioritization of PDP profiles becomes mandatory ; Select a PDP Profile from the list of PCP Profiles in the text field
7.	On clicking the right-arrow button, the chosen Profile (as a string) will be moved to the <Text Field> which is on to the right side of the screen User can assign the required number of Profiles in a similar fashion However if the user wants to remove a Profile (any time before uploading the file), selecting a profile from the right text field and subsequently clicking the left-arrow button removes the same NOTE: Nevertheless, it is mandatory to prioritize the order of entire PDP Profiles of the chosen Profile
8.	Browse for a Flat file that consists of a set of IMSI in a specific format and each one starting in a new line
9.	On clicking the Submit button, a message window to that effect will be displayed confirming the updates to the values pertaining the set of IMSI
10.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Subscriber Management' main page

16.11 Change IMSI/MSISDN (Bulk)

[Home Location Register](#) → [Subscriber Management](#) → [Change IMSI/MSISDN \(Bulk\)](#)

'Change IMSI/MSISDN (Bulk)' helps the user to change the data related to a set of IMSI (International Mobile Subscriber Identifier), MSISDN (Mobile Subscriber ISDN Number) and add MSISDN at a stretch in bulk.

The screen below shows changing of IMSI, changing of MSISDN and adding of MSISDN by browsing the .txt file.

Change IMSI / MSISDN (Bulk)

Note: Upload file format is as below
OLD IMSI,NEW IMSI (or) OLD MSISDN,NEW MSISDN (or) OLD IMSI,NEW MSISDN

- The file extensions accepted are '.txt' or '.csv'.
- Each record should be in a new separate line.
- IMSI should be numeric.
- IMSI length should be between 15 to 20 digits.
- MSISDN should be numeric.
- MSISDN should start with Configured PLMN Series.
- MSISDN length should be between Min (CC+6(SN) or NDC length+6(CC+SN)) digits and Max(20) digits.

Change IMSI Change MSISDN Add MSISDN

File

Change IMSI

The screen below shows uploading a set / group of subscribers in bulk for Change IMSI

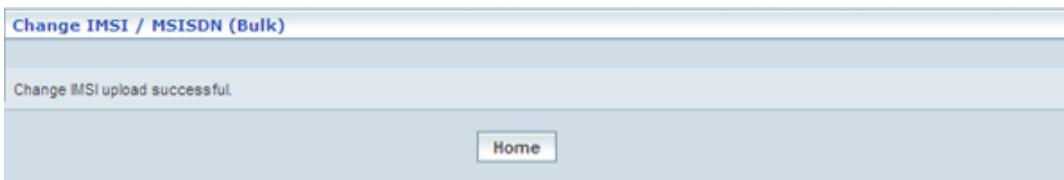
Change IMSI / MSISDN (Bulk)

Note: Upload file format is as below
OLD IMSI,NEW IMSI (or) OLD MSISDN,NEW MSISDN (or) OLD IMSI,NEW MSISDN

- The file extensions accepted are '.txt' or '.csv'.
- Each record should be in a new separate line.
- IMSI should be numeric.
- IMSI length should be between 15 to 20 digits.
- MSISDN should be numeric.
- MSISDN should start with Configured PLMN Series.
- MSISDN length should be between Min (CC+6(SN) or NDC length+6(CC+SN)) digits and Max(20) digits.

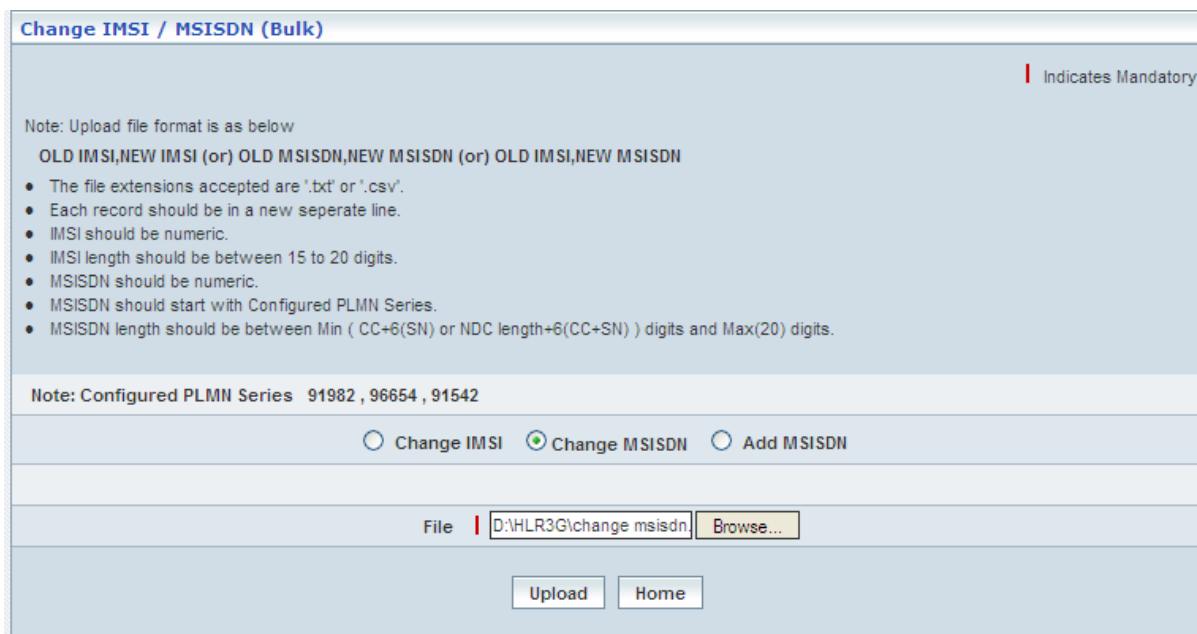
Change IMSI Change MSISDN Add MSISDN

File

STEP	ACTION
1.	Select the Change IMSI radio button
2.	Browse for a Flat file that consists of a set of Change IMSI numbers in a specific format and each one starting in a new line
3.	On clicking the Upload button, a message window to that effect will be displayed confirming the successful upload  <p>On clicking the Home button of the message window, it directs the user back to the 'Change IMSI/MSISDN (Bulk)' Screen</p>
4.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Subscriber Management' main page

Change MSISDN

The screen below shows uploading a set / group of subscribers in bulk for Change MSISDN



Change IMSI / MSISDN (Bulk)

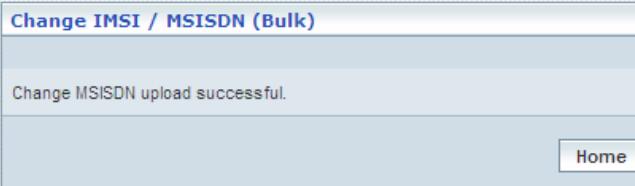
Note: Upload file format is as below
OLD IMSI,NEW IMSI (or) OLD MSISDN,NEW MSISDN (or) OLD IMSI,NEW MSISDN

- The file extensions accepted are '.txt' or '.csv'.
- Each record should be in a new separate line.
- IMSI should be numeric.
- IMSI length should be between 15 to 20 digits.
- MSISDN should be numeric.
- MSISDN should start with Configured PLMN Series.
- MSISDN length should be between Min (CC+6(SN) or NDC length+6(CC+SN)) digits and Max(20) digits.

Note: Configured PLMN Series 91982 , 96654 , 91542

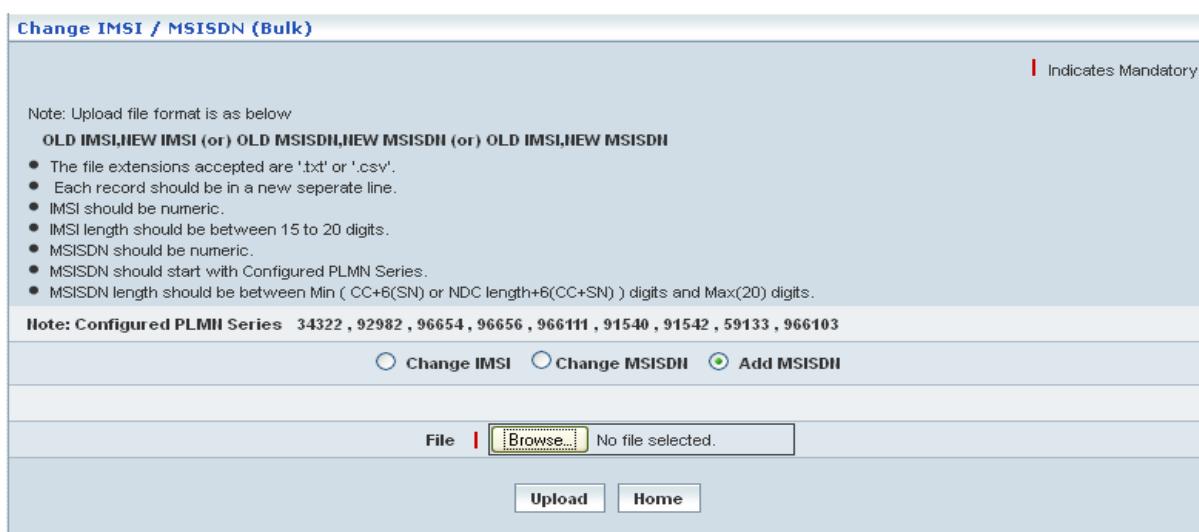
Change IMSI Change MSISDN Add MSISDN

File | D:\HLR3G\change msisdn

STEP	ACTION
1.	Select the Change MSISDN radio button
2.	Browse for a Flat file that consists of a set of Change IMSI numbers in a specific format and each one starting in a new line
3.	On clicking the Upload button, a message window to that effect will be displayed confirming the successful upload  <p>On clicking the Home button of the message window, it directs the user back to the 'Change IMSI/MSISDN (Bulk)' Screen</p>
4.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Subscriber Management' main page

Add MSISDN

The screen below shows uploading a set / group of subscribers in bulk for ADD MSISDN



Change IMSI / MSISDN (Bulk)

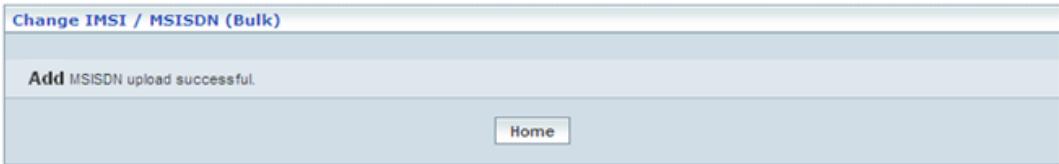
Note: Upload file format is as below
OLD IMSI,NEW IMSI (or) OLD MSISDN,NEW MSISDN (or) OLD IMSI,NEW MSISDN

- The file extensions accepted are '.txt' or '.csv'.
- Each record should be in a new separate line.
- IMSI should be numeric.
- IMSI length should be between 15 to 20 digits.
- MSISDN should be numeric.
- MSISDN should start with Configured PLMN Series.
- MSISDN length should be between Min (CC+6(SN) or NDC length+6(CC+SN)) digits and Max(20) digits.

Note: Configured PLMN Series 34322 , 92982 , 96654 , 96656 , 966111 , 91540 , 91542 , 59133 , 966103

Change IMSI Change MSISDN Add MSISDN

File No file selected.

STEP	ACTION
1.	Select the Add MSISDN radio button
2.	Browse for a Flat file that consists of a set of Add IMSI numbers in a specific format and each one starting in a new line
3.	On clicking the Upload button, a message window to that effect will be displayed confirming the successful upload  <p>On clicking the Home button of the message window, it directs the user back to the 'Change IMSI/MSISDN (Bulk)' Screen</p>
4.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Subscriber Management' main page

16.12 Operator Determined Barring

Home Location Register → Subscriber Management → Operator Determined Barring

'Operator Determined Barring' helps the Operator (user) to bar certain services to a set of IMSI (International Mobile Subscriber Identifier) at a stretch in bulk. In other words, this allows the Operator barring a group of subscribers in bulk from certain services and those subscribers shall be identified with respect to their IMSI for this purpose.

- * Once the subscribers are barred from services defined by the operator, the blockage is applicable and effective till the next update.

The screen below shows barring certain services to a set / group of IMSI.

Operator Determined Barring

Indicates Mandatory

Note: To remove all the services for the uploading subscribers do not map any services and click on submit. Consequently all the barred services will be unbarred for the subscribers.

Upload file format is as below

IMSI

- The file extensions accepted are '.txt' or '.csv'.
- Each IMSI should be in a new separate line.
- IMSI should be numeric.
- IMSI length should be between 15 to 20 digits.

General ODB Data

allECT-Barred	allC-CallsBarred
allOG-CallsBarred	allPacketOrientedServicesBarred
chargeableECT-Barred	doublyChargeableECT-Barred
doublyChargeableECT-Barred	internationalECT-Barred

Services Barred

allECT-Barred	allOG-CallsBarred
allPacketOrientedServicesBarred	doublyChargeableECT-Barred

PLMN ODB Data

plmn-SpecificBarringType1	plmn-SpecificBarringType2
plmn-SpecificBarringType3	plmn-SpecificBarringType4

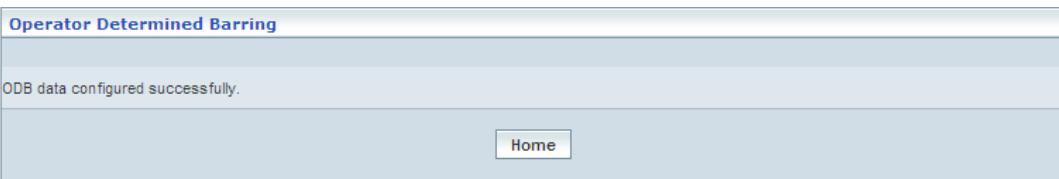
Services Barred

plmn-SpecificBarringType1	plmn-SpecificBarringType2
plmn-SpecificBarringType3	

Buttons

Upload | C:\Documents and Setting | Browse...

Submit | Home

STEP	ACTION
1.	<p>There are two ways that an operator can bar different subscribers from using those barred services accordingly</p> <ul style="list-style-type: none"> • General (general & usual services) • PLMN (explicit to the operator specific)
2.	<p>* General</p> <p>In this case, the corresponding list of operator-services will be dynamically displayed in the <General ODB Data> text field, which is on to the left side of the screen</p> <p>Select the desired service from the list <General ODB Data> and on clicking the right-arrow button, the service (as a string) will be moved to the <Services Barred> text field, which is on to the right side of the screen</p>
3.	<p>However if the user wants to just remove any service (any time before submission of barring), selecting the service from the <Services Barred> text field and subsequently clicking the left-arrow button removes the service</p>
4.	<p>* PLMN</p> <p>In this case, the corresponding list of operator-services will be dynamically displayed in the <PLMN ODB Data> text field, which is on to the left side of the screen</p> <p>Select the desired service from the list <PLMN ODB Data> and on clicking the right-arrow button, the service (as a string) will be moved to the <Services Barred> text field, which is on to the right side of the screen</p>
5.	<p>However if the user wants to just remove any service (any time before submission of barring), selecting the service from the <Services Barred> text field and subsequently clicking the left-arrow button removes the service</p>
6.	<p>Browse for a Flat file that consists of a set of IMSI numbers in a specific format and each one starting in a new line</p>
7.	<p>On clicking the Submit button, a message window to that effect will be displayed</p>  <p>On clicking the Home button of the message window, it directs the user back to the 'Operator Determined Barring' Screen</p>
8.	<p>On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'HLR' main page</p>

16.13 Activate / Deactivate Subscribers

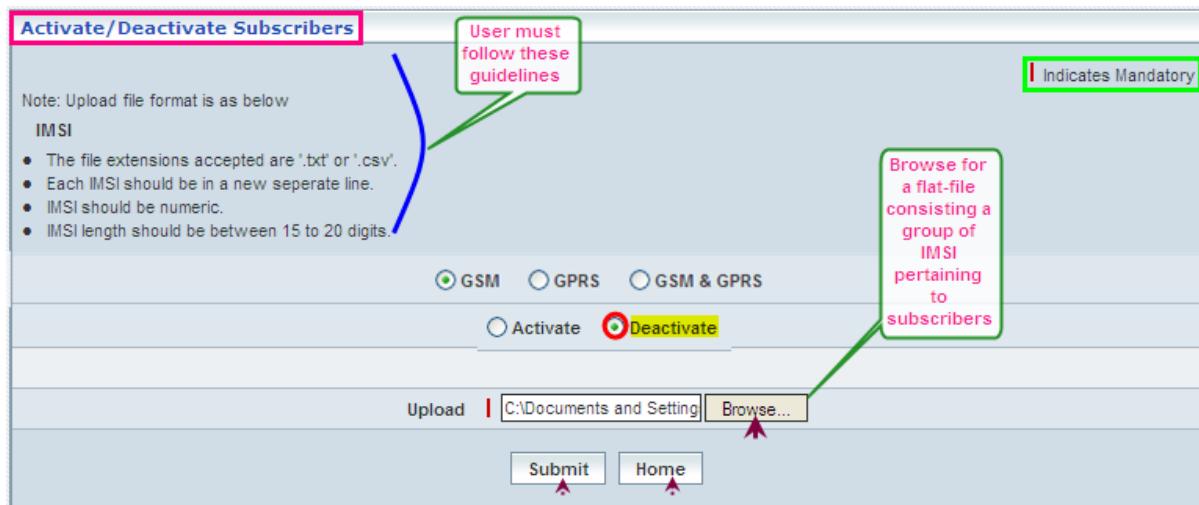
Home Location Register → Subscriber Management → Subscriber Information

'Activate / Deactivate subscribers' here in this context refers the activation and deactivation of subscribers in bulk. This enables the user to either activate or deactivate subscribers as the case may be.

The screen below shows activating the subscribers.

STEP	ACTION
1.	Select radio option (GSM /GPRS / GSM&GPRS) to specify the network type of the subscribers
2.	Select radio option (Activate / Deactivate) to specify an action whether to activate or deactivate the subscribers
3.	Browse for a Flat file that consists of a set of IMSI numbers (pertaining to subscribers in bulk) in a specific format and each one starting in a new line
4.	On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload
5.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'HLR' main page

The screen below shows deactivating the subscribers.



STEP	ACTION
1.	Select radio option (Activate / Deactivate) to specify an action whether to activate or deactivate the subscribers
2.	Browse for a Flat file that consists of a set of IMSI numbers (pertaining to subscribers in bulk) in a specific format and each one starting in a new line
3.	On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload
4.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'HLR' main page

16.14 Attach / Detach SS Codes (Bulk)

[Home Location Register](#) → [Subscriber Management](#) → [Attach / Detach SS Codes \(Bulk\)](#)

'Attach / Detach SS Codes' helps the user uploading the subscribers in bulk to whom the supplementary services needs to be attached (few more to the existing services) or detached (withdraw certain services from the existing services).

Attaching the supplementary services refers to adding few more supplementary services in addition to the existing services of the subscriber. Whereas, detaching the supplementary services refers to withdrawing certain services from the existing services of the subscriber. Attach and detach features shall be functioning independently but not together at a time.

Supplementary services here in this context have been indicated through SS Codes and are categorized into General SS Codes and PLMN Specific SS Codes.

The screen below shows Attach / Detach SS Codes (Bulk).

The screenshot shows a user interface titled "Attach / Detach SS Codes (Bulk)". At the top, there are three radio buttons: "General SS Codes" (selected), "PLMN Specific SS Codes", and "CUG SS Code". Below the radio buttons are two buttons: "Submit" and "Home".

STEP	ACTION
1.	Select the desired radio option of SS Codes (General / PLMN Specific / CUG) to attach or detach
2.	On clicking the Submit button, it navigates to another window according to the selection
3.	On clicking the Home button at the bottom, it redirects the user to the 'Subscriber Management' records grid

General SS Codes - Attach

The screen below shows attaching the supplementary services to a group of subscribers represented by way of their IMSI(s).

The below screen displays the attach of the General SS Codes

General SS Codes

Note: Upload file format is as below

IMSI

- The file extensions accepted are '.txt' or '.csv'.
- Each IMSI should be in a new separate line.
- IMSI should be numeric.
- IMSI length should be between 15 to 20 digits.

Default FTN and Forward to Number represents following combinations for Call Forward SS Codes

- If TIF flag is set to Active / Not Configured for the subscriber then Forward to Number represents FTN text box.
- If TIF flag is set to Inactive for the subscriber then Forward to Number represents NAI + NPI + CC + FTN value.

Configuration of BAOC and CFU SS Codes are not allowed for attaching of same BSG and Status as Active

Attach Detach

SS Codes | BAOC

BSG Codes	Mapped SS and BSG Codes
All Data CDA Services All Data CDS Services Fax Services Short Message Services Speech	BAOC-Fax Services-----Active

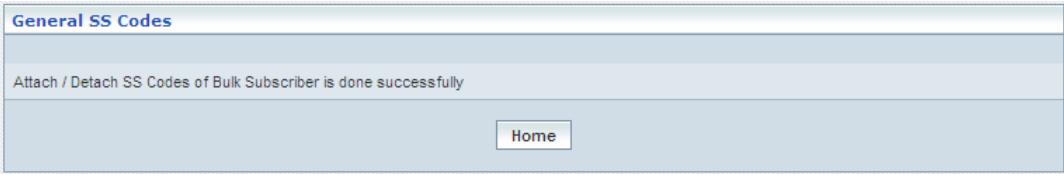
Status Provision

Upload D:\HLR3G\imsi.txt Browse...

Submit Home

Indicates Mandatory

BAOC-Fax Services-----Active

STEP	ACTION
1.	Select radio option (Attach / Detach) to specify an action whether to attach or detach the services to the subscribers First Case: Attach
2.	Select an SS Code from the drop-down list of the <SS Codes> field * By default, the list of SS Codes will be dynamically displayed as drop-down list of the <SS Codes> field
3.	With the effect of selecting an SS Code, the corresponding list of basic services (group of services pertaining to the chosen SS Code) will be dynamically displayed in the text box, which is on to left side of the screen
4.	Select the desired service from the list (of the left text field) and specify its' status whether ' Active ' and ' Provision ' by way of selecting the preferred status from the drop-down list of the <Status> field * By default, the list of 'status criteria' (Active / Provision) will be dynamically displayed as drop-down list of the <Status> field Relevant Status Criteria will be dynamically displayed in contemplation with the chosen SS Code
5.	On clicking the right-arrow button, the basic service along with (name of) the SS code, corresponding status and along with other configurations (if any) will be moved to the adjacent field User can move the desired number of services from different Basic Services Groups belonging to different SS Codes in a similar fashion However if the user wants to just remove any service (any time before attaching the services), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service
6.	Browse for a Flat file that consists of a set of IMSI numbers (pertaining to subscribers in bulk) in a specific format and each one starting in a new line
7.	On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload  On clicking the Home button of the message window, it directs the user back to the 'General SS Codes' Screen
8.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Attach / Detach SS Codes (Bulk)' main page

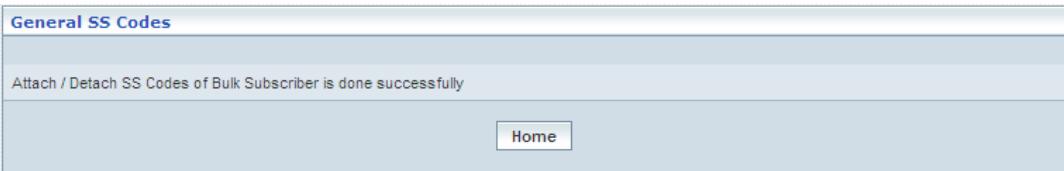
General SS Codes - Detach

The screen below shows **detaching** the supplementary services from the existing services pertaining to a group of subscribers represented by way of their IMSI(s).

The below screen displays the detach of the General SS codes

The screenshot shows a software interface for managing General SS Codes. At the top, there's a note about file upload format (.txt or .csv) and a section for 'IMSI' with instructions: 'The file extensions accepted are '.txt' or '.csv'. Each IMSI should be in a new separate line. IMSI should be numeric. IMSI length should be between 15 to 20 digits.' Below this, it says 'Default FTN and Forward to Number represents following combinations for Call Forward SS Codes' with two bullet points: 'If TIF flag is set to Active / Not Configured for the subscriber then Forward to Number represents FTN text box.' and 'If TIF flag is set to Inactive for the subscriber then Forward to Number represents NAI + NPI + CC + FTN value.' A note states 'Configuration of BAOC and CFU SS Codes are not allowed for attaching of same BSG and Status as Active'. The main area has a radio button for 'Attach' (unchecked) and one for 'Detach' (checked). A dropdown menu for 'SS Codes' is set to 'CW'. On the left, under 'BSG Codes', there's a list: 'All Data CDA Services', 'All Data CDS Services', 'Fascimile Services', and 'Speech'. On the right, under 'Mapped SS and BSG Codes', there's a list: 'CW-Fascimile Services'. At the bottom, there's an 'Upload' field containing 'D:\HLR3G\imsi.txt', a 'Browse...' button, a 'Submit' button, and a 'Home' button.

STEP	ACTION
1.	Select radio option (Attach / Detach) to specify an action whether to attach or detach the services to the subscribers Second Case: Detach
2.	Select an SS Code from the drop-down list of the <SS Codes> field * By default, the list of SS Codes will be dynamically displayed as drop-down list of the <SS Codes> field

3.	With the effect of selecting an SS Code, the corresponding list of basic services (group of services pertaining to the chosen SS Code) will be dynamically displayed in the text box, which is on to left side of the screen
4.	Select the desired service from the list (of the left text field)
5.	On clicking the right-arrow button, the basic service along with (name of) the SS code will be moved to the adjacent field User can move the desired number of services from different Basic Services Groups belonging to different SS Codes in a similar fashion However if the user wants to just remove any service (any time before attaching the services), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service
6.	Browse for a Flat file that consists of a set of IMSI numbers (pertaining to subscribers in bulk) in a specific format and each one starting in a new line
7.	On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload  <p>On clicking the Home button of the message window, it directs the user back to the 'General SS Codes' Screen</p>
8.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Attach / Detach SS Codes (Bulk)' main page

PLMN Specific SS Codes - Attach

The screen below shows **attaching** the supplementary services to a group of subscribers represented by way of their IMSI(s).

The below screen displays attach of the PLMN Specific SS Codes

PLMN Specific SS Codes

Note: Upload file format is as below

IMSI

- The file extensions accepted are '.txt' or '.csv'.
- Each IMSI should be in a new separate line.
- IMSI should be numeric.
- IMSI length should be between 15 to 20 digits.

Attach Detach

SS Codes | Select ▾

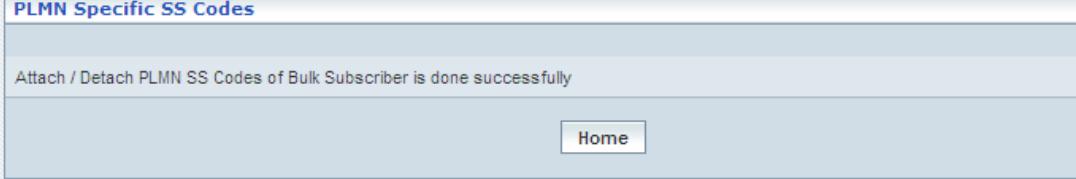
Status | Provision ▾

Upload | D:\HLR3G\imsi.txt | Browse...

Submit | Home

Indicates Mandatory

PLMN-SPECIFICSS-4#Active

STEP	ACTION
1.	Select radio option (Attach / Detach) to specify an action whether to attach or detach the services to the subscribers First Case: Attach
2.	Select an SS Code from the drop-down list of the <SS Codes> field * By default, the list of SS Codes will be dynamically displayed as drop-down list of the <SS Codes> field
3.	Select the desired service from the list (of the left text field) and specify its' status whether ' Active ' and ' Provision ' by way of selecting the preferred status from the drop-down list of the <Status> field * By default, the list of 'status criteria' (Active / Provision) will be dynamically displayed as drop-down list of the <Status> field Relevant Status Criteria will be dynamically displayed in contemplation with the chosen SS Code
4.	On clicking the right-arrow button, the basic service along with (name of) the SS code, corresponding status and along with other configurations (if any) will be moved to the adjacent field User can move the desired number of services from different Basic Services Groups belonging to different SS Codes in a similar fashion However if the user wants to just remove any service (any time before attaching the services), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service
5.	Browse for a Flat file that consists of a set of IMSI numbers (pertaining to subscribers in bulk) in a specific format and each one starting in a new line
6.	On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload  On clicking the Home button of the message window, it directs the user back to the 'PLMN Specific SS Codes' Screen
7.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Attach / Detach SS Codes (Bulk)' main page

PLMN Specific SS Codes - Detach

The screen below shows **detaching** the supplementary services from the existing services pertaining to a group of subscribers represented by way of their IMSI(s).

The below screen displays the detach of the PLMN Specific SS Codes

The screenshot shows a web-based application titled 'PLMN Specific SS Codes'. At the top right, there is a note: 'Indicates Mandatory' with a red vertical bar icon. Below this, a note says: 'Note: Upload file format is as below'. Under the heading 'IMSI', there is a bulleted list of requirements:

- The file extensions accepted are '.txt' or '.csv'.
- Each IMSI should be in a new separate line.
- IMSI should be numeric.
- IMSI length should be between 15 to 20 digits.

In the center, there are two radio buttons: 'Attach' (unchecked) and 'Detach' (checked). A red box highlights the 'Detach' button. Below these buttons is a dropdown menu labeled 'SS Codes' with the option 'Select' chosen. To the right of the dropdown is a window titled 'PLMN-SPECIFICSS-C' containing a list of items. At the bottom of the window are left and right arrow buttons.

At the bottom of the interface are three buttons: 'Upload' (disabled), 'D:\HLR3G\imsi.txt' (disabled), and 'Browse...'. Below these buttons are 'Submit' and 'Home' buttons.

STEP	ACTION
1.	Select radio option (Attach / Detach) to specify an action whether to attach or detach the services to the subscribers Second Case: Detach
2.	Select an SS Code from the drop-down list of the <SS Codes> field * By default, the list of SS Codes will be dynamically displayed as drop-down list of the <SS Codes> field
3.	On clicking the right-arrow button, the PLMN Specific SS Codes will be moved to the adjacent field. User can move the same by selecting the it from the right text field and subsequently clicking the left-arrow button
4.	Browse for a Flat file that consists of a set of IMSI numbers (pertaining to subscribers in bulk) in a specific format and each one starting in a new line
5.	On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload <p>On clicking the Home button of the message window, it directs the user back to the 'PLMN Specific SS Codes' Screen</p>

- | | |
|-----------|---|
| 6. | On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Attach / Detach SS Codes (Bulk)' main page |
|-----------|---|

CUG SS Code - Attach

The screen below shows **attaching** the supplementary services to a group of subscribers represented by way of their IMSI(s).

The below screen displays the attach of the CUG SS Code

CUG SS Code

Note: Upload file format is as below
The file extensions accepted are '.txt' or '.csv'.
Each Record should be in a new separate line.

Attach

IMSI,CUG IC,BSG,Inter CUG Access,Preferential CUG

- IMSI should be numeric, and length should be between 15 to 20 digits.
- CUG IC should be 5 to 9 digits
- BSG should be in (1,3,4,5)
1 - Speech, 3 - Facsimile Services, 4 - All Data CDA Services, 5 - All Data CDS Services
- Inter CUG Access should be in (0,1,2,3)
0 - None designated, 1 - Outgoing Access, 2 - Incoming Access, 3 - Outgoing and Incoming Access
- Preferential CUG should be 0 or CUG Index
0 - None designated

Detach

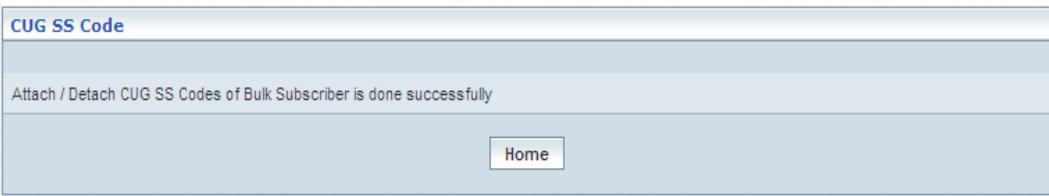
IMSI

- IMSI should be numeric, and length should be between 15 to 20 digits.

Attach Detach

Upload | D:\HLR3G\cug.txt | Browse...

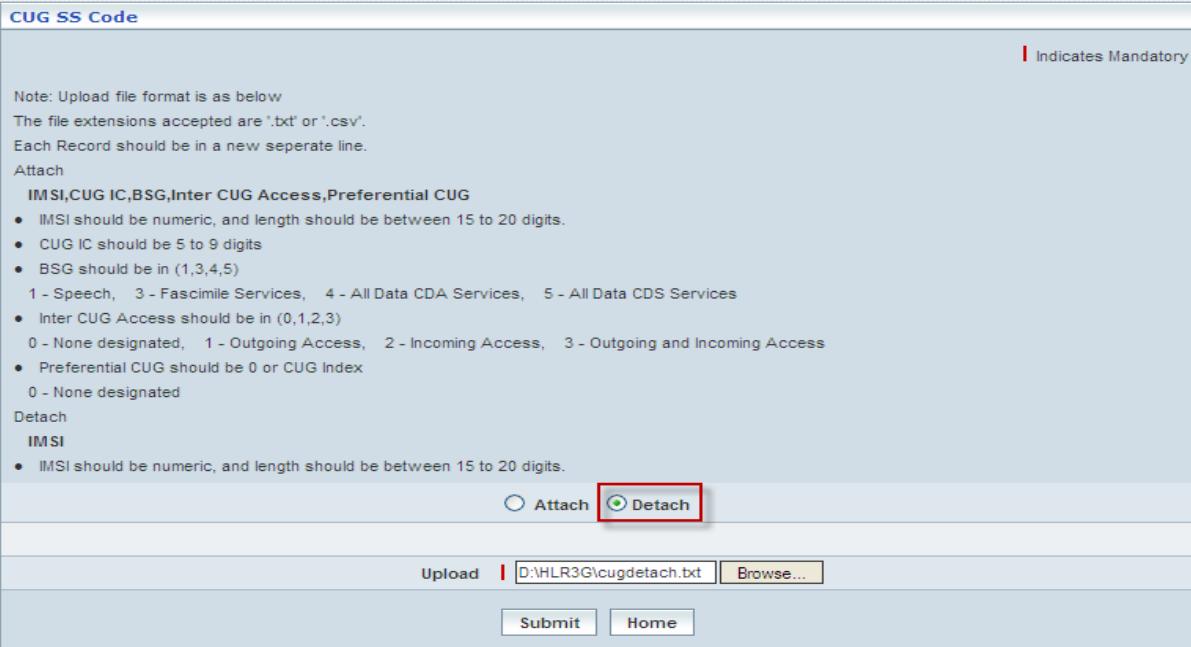
Submit | Home

STEP	ACTION
1.	Select radio option (Attach / Detach) to specify an action whether to attach or detach the services to the subscribers First Case: Attach
2.	Browse for a Flat file that consists of a set of IMSI, CUG IC, BSG, Inter CUG Access, Preferential CUG numbers (pertaining to subscribers in bulk) in a specific format and each one starting in a new line
3.	On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload  On clicking the Home button of the message window, it directs the user back to the 'CUG SS Code' Screen
4.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Attach / Detach SS Codes (Bulk)' main page

CUG SS Code - Detach

The screen below shows **detaching** the supplementary services from the existing services pertaining to a group of subscribers represented by way of their IMSI(s).

The below screen displays the detach of the CUG SS Code



CUG SS Code

Note: Upload file format is as below
The file extensions accepted are '.txt' or '.csv'.
Each Record should be in a new separate line.

Attach
IMSI,CUG IC,BSG,Inter CUG Access,Preferential CUG

- IMSI should be numeric, and length should be between 15 to 20 digits.
- CUG IC should be 5 to 9 digits
- BSG should be in (1,3,4,5)
- 1 - Speech, 3 - Facsimile Services, 4 - All Data CDA Services, 5 - All Data CDS Services
- Inter CUG Access should be in (0,1,2,3)
- 0 - None designated, 1 - Outgoing Access, 2 - Incoming Access, 3 - Outgoing and Incoming Access
- Preferential CUG should be 0 or CUG Index
- 0 - None designated

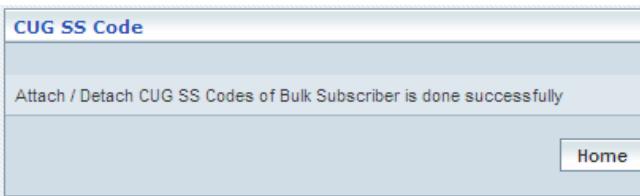
Detach
IMSI

- IMSI should be numeric, and length should be between 15 to 20 digits.

Attach Detach

Upload | D:\HLR3G\cugdetach.txt | Browse... |

Submit | Home |

STEP	ACTION
1.	Select radio option (Attach / Detach) to specify an action whether to attach or detach the services to the subscribers Second Case: Detach
2.	Browse for a Flat file that consists of a set of IMSI, CUG IC, BSG, Inter CUG Access, Preferential CUG numbers (pertaining to subscribers in bulk) in a specific format and each one starting in a new line
3.	On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload  On clicking the Home button of the message window, it directs the user back to the 'CUG SS Code' Screen
4.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Attach / Detach SS Codes (Bulk)' main page

16.15 Add / Remove Tele-Bearer (Bulk)

Home Location Register → Subscriber Management → Add / Remove Tele-Bearer (Bulk)

'Add / Remove Tele Bearer (Bulk)' helps the user to modify / update the existing configurations of the Tele Bearers services for a set of subscribers in bulk (at a stretch) where the network access mode is GSM. This screen also helps to modify / update the existing multi-numbered MSISDN.

If the GSM Profile of the subscriber includes Supplementary Service profile, it is mandatory to have the corresponding SS Codes of that profile to be retained while updating the services.

The screen below displays updating the configuration related to Tele Bearer services of a set of subscribers in bulk (at a stretch) – Add

Add / Remove Tele-Bearer(Bulk)

Note: Upload file format is as below
For ADD **IMSI.MULTI NUMBERED MSISDN1.MULTI NUMBERED MSISDN2....**
MULTI NUMBERED MSISDN Should be numeric and unique and length is between 10 and 20.
For REMOVE **IMSI**

The file extensions accepted are 'txt' or 'csv'.
Each Record should be in a new separate line.
IMSI should be numeric and unique.
IMSI Length should be between 15 to 20 digits.

Based on the chosen Service, the corresponding BC profiles will be dynamically displayed here in this text field

List of the Tele/Bearer Services

Add Remove

Service Code	Available BC Profiles	Mapping	Demapping	BC Profiles
DataCDS-Services	datcdsbcprofile1 datcdsbcprofile2			DataCDA-Services,datcdabcprofile1 DataCDA-Services,datcdabcprofile2 DataCDS-Services, DataCDS-Services,datcdsbcprofile2

Upload | C:\Documents and Settings\Browse...
Submit | Home

The diagram shows a central text field labeled 'Available BC Profiles' containing 'datcdsbcprofile1' and 'datcdsbcprofile2'. Two green arrows point from this field to two adjacent columns: 'Mapping' and 'Demapping'. A blue arrow points from the 'Mapping' column to a list of BC profiles on the right. A red arrow points from the 'Demapping' column back to the 'Available BC Profiles' field. A pink callout box above the 'Available BC Profiles' field states: 'Based on the chosen Service, the corresponding BC profiles will be dynamically displayed here in this text field'. A green callout box to the right of the 'BC Profiles' list states: 'List of the Tele/Bearer Services'. A yellow note at the top left specifies file formats: 'The file extensions accepted are 'txt' or 'csv''. A legend at the top right indicates a red vertical bar means 'Indicates Mandatory'.

STEP	ACTION
1.	Choose the radio option Add / Remove as the case may be
2.	<p>ADD Case:</p> <p>Select a service code from the drop-down list of the service codes from the <Service Codes> field</p> <p>By default, the entire list of services (child services) will be dynamically displayed as drop-down list of the <Service Codes> field</p> <p>With the effect of selecting a service, the corresponding list of BC profiles will be dynamically displayed in the <Available BC Profiles> text field</p>
	<p>Select the desired BC Profile from the list <Available BC Profiles> and on clicking the right-arrow button, the BC Profile along with the Service Code (as a string) will be moved to the right text field</p> <p>NOTE:</p> <ul style="list-style-type: none"> • Assigning BC Profiles with Service Code is not mandatory, it is only an option • Only 5 BC Profiles of a service code can be mapped <p>However if the user wants to remove any service (any time before attaching the services), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service</p>
	<p>Browse for a Flat file that consists of a set of records consisting of IMSI along with MSISDN multi-numbers (pertaining to subscribers in bulk) in a specific format and each one starting in a new line</p> <p>NOTE:</p> <ul style="list-style-type: none"> • Associating multi-numbers to IMSI is not mandatory, it is only an option. Only IMSI(s) can be uploaded • Associating multi-number to IMSI will be assigned to services based on the order of mapped services
3.	<p>On clicking the Submit button, updates related to Tele Bearer Services will be carried out and a message window will be displayed to that effect</p>  <p>On clicking the Home button of the message window, it directs the user back to the 'Add/Remove Tele Bearer (Bulk)' screen</p>
4.	On clicking the Home button of the Add / Remove Tele Bearer (Bulk) screen, it directs the user to the 'Subscriber Information' main page

The screen below displays updating the configuration related to Tele Bearer services of a set of subscribers in bulk (at a stretch) - Remove

Add / Remove Tele-Bearer(Bulk)

Note: Upload file format is as below:
For ADD **IMSI,MULTI NUMBERED MSISDN1,MULTI NUMBERED MSISDN2,...**
MULTI NUMBERED MSISDN Should be numeric and unique and length is between 10 and 20.
For REMOVE **IMSI**
• The file extensions accepted are 'txt' or 'csv'.
• Each Record should be in a new separate line.
• IMSI should be numeric and unique.
• IMSI Length should be between 15 to 20 digits.

Add Remove

Service Code | T11 Telephony

Available BC Profiles

Mapping Demapping

Upload | C:\Documents and Settings\ [Browse...]

Submit Home

Indicates Mandatory

List of the Tele-Bearer Services

STEP	ACTION
1.	Choose the radio option Add / Remove as the case may be
2.	<p>Remove Case:</p> <p>Select a service code from the drop-down list of the service codes from the <Service Codes> field</p> <p>By default, the entire list of services (child services) will be dynamically displayed as drop-down list of the <Service Codes> field</p>
3.	<p>On clicking the right-arrow button, the corresponding Service Codes (as a string) will be moved to the right text field</p> <p>However if the user wants to remove any service (any time before attaching the services), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service</p>
4.	Browse for a Flat file that consists of a set of records consisting of IMSI (pertaining to subscribers in bulk) in a specific format and each one starting in a new line
5.	<p>On clicking the Submit button, updates related to Tele Bearer Services will be carried out and a message window will be displayed to that effect</p>  <p>On clicking the Home button of the message window, it directs the user back to the 'Add/Remove Tele Bearer (Bulk)' screen</p>
6.	On clicking the Home button of the Add / Remove Tele Bearer (Bulk) screen, it directs the user to the 'Subscriber Information' main page

16.16 Subscriber Information

Home Location Register → Subscriber Management → Subscriber Information

'Subscriber Information' helps the user perusing details (certain standard information) like Basic Details of the chosen subscriber and helps providing various services through the corresponding navigation screens. The services include 'Supplementary Services', 'Operator Determined Barring', 'Modify CSI Flags & State', 'Change IMSI', 'Add/Change MSISDN', 'Deactivate GSM Subscription', 'Attach / Detach SS Codes', 'OCSI Number Criteria', 'Provision/Modify GPRS', 'Trace Active', 'GSM Tele-Bearer Services', 'Multi-Numered MSISDNs', 'MOLR Capability', 'Allowed VLR Profile', 'VPLMN Restriction', 'GSM SoLSA Data' and 'GSM RSZI Data'

Initially, it displays a screen enabling the user to enter an IMSI or the MSISDN (two options) to obtain the corresponding details.

The screen below shows entering the subscriber's IMSI or MSISDN.

Subscriber Information		Indicates Mandatory
<input checked="" type="radio"/> Home <input type="radio"/> Roaming		
<input checked="" type="radio"/> IMSI <input type="radio"/> MSISDN 786000000000011		
<input type="button" value="Submit"/> <input type="button" value="Home"/>		

Or

Subscriber Information		Indicates Mandatory
<input checked="" type="radio"/> Home <input type="radio"/> Roaming		
<input type="radio"/> IMSI <input checked="" type="radio"/> MSISDN 966540000011		
<input type="button" value="Submit"/> <input type="button" value="Home"/>		

STEP	ACTION
1.	Select the radio option (Home/Roaming) to specify the subscriber identity reference (User Input - Reference)
2.	Select the radio option (IMSI/MSISDN) to specify the subscriber identity reference (User Input - Reference)
3.	Enter an IMSI number in the <IMSI> field or the MSISDN in the <MSISDN>, as the case may be
4.	On clicking the Submit button, it displays the entire details related to the given subscriber in a different screen enabling the user to peruse the information accordingly NOTE: Only the corresponding services (based on the given subscriber IMSI) will be displayed as discrete buttons just below the basic details
5.	On clicking the Home button (prior to the submission of IMSI or MISISDN), it only redirects the user back to the 'Subscriber Profile Management' main page

The screen below shows basic details and other information through the navigation buttons at the bottom of the screen.

The details and the navigation buttons at the bottom displayed on the screen depend on the type of profile (Home / Roaming) the subscriber is provisioned with.

However, the options and provisions of the features displayed as navigation buttons does not change for both the profiles.

- Supplementary Services
- Operator Determined Barring
- Modify CSI Flags & State
- Change IMSI
- Add/Change MSISDN
- Activate / Deactivate GSM Subscription
- Activate / Deactivate GPRS Subscription
- Attach / Detach SS Codes
- OCSI Number Criteria
- Provision / Modify GPRS
- Trace Active
- GSM Tele-Bearer Services
- Multi-Numbered MSISDN(s)
- MOLR CAPABILITY
- Allowed VLR Profile
- Allowed SGSN Profile
- VPLMN Restriction
- GSM SoLSA Data
- GPRS SoLSA Data
- GSM RSZI Data
- GPRS RSZI Data

The below screen displays the subscriber information under profile Home

View					
IMSI	78600519999919	MSISDN	9154299919		
GSM Profile Name	UATGSMProfile	GPRS Profile Name	UATGPRSProfile		
Subscriber Status	Service Granted	Access Restriction	UTRAN		
Network Access Mode	GSM & GPRS	IMEI	786005199999192		
GSM Roaming Status	Not Allowed	GSM Current Roaming Status	National		
GPRS Roaming Status	Not Allowed	GPRS Current Roaming Status	National		
Charging Characteristics	Normal	Mobile Station Category	ordinary calling subscriber		
GSM State	Active	GPRS State	Active		
MultiParty Maximum Count	0	Supplementary Services Profile	-		
VLR Number	9154299919	MSC Number	9154299918		
SGSN Number	9154299911	SGSN Address	9154299912		
GGSN Number	-	GGSN Address	-		
MSPurged For GSM	Yes	MSPurged For GPRS	No		
GSM CAMEL Subscriptions					
Originating CSI Profile	-	Terminating CSI Profile	-		
VMSC Terminating CSI Profile	-	Supplementary Services CSI Profile	-		
Translation Information Flag CSI	-	Mobility Management GSM CSI	-		
Dialed Service CSI	-	USSD CSI	-		
Mobile Originating SMS CSI	-	Mobile Terminating SMS CSI	-		
GPRS CAMEL Subscriptions					
GPRS CSI	-	Mobility Management GPRS CSI	-		
Mobile Originating SMS CSI	-	Mobile Terminating SMS CSI	-		
GSM Tele Services					
SpeechTransmissionServices	ShortMessageServices	FaxTransmissionServices			
VoiceGroupCallServices					
GSM Bearer Services					
DataCDS-Services					
GPRS Tele Services					
SpeechTransmissionServices	ShortMessageServices	FaxTransmissionServices			
VoiceGroupCallServices					
Multi Numbered MSISDN's Services with Bearer Capability Profiles					
PDP Profile Names	-				
General ODB Data	-				
HPLMN ODB Data	-				
Location Services					
Age of Location Info	-	MSC Number	-		
SGSN Number	-	Selected LSA Id	-		
Location Number	-	Location Area Code	-		
Cell Id	-	Geographic Info	-		
Geodetic Info	-	Subscriber State	-		
Updated Time	-	MCC	-		
MIC	-	LCS Profile	LCSProfONE		
GMLC Profile	-				
Selective Roaming					
Allowed VLR Profile	TESTVLR	Allowed SGSN Profile	abc		
Supplementary Services Change IMSI Deactivate GPRS Subscription Provision / Modify GPRS GPRS Tele-Bearer services Allowed VLR Profile GSM SoLSA Data GPRS RSZI Data		Operator Determined Barring Add / Change MSISDN Attach / Detach SS Codes Trace Active Multilumbered MSISDNs Allowed SGSN Profile GPRS SoLSA Data			
Modify CSI Flags & State Deactivate GSM Subscription OCSI Number Criteria GSM Tele-Bearer services MOLR CAPABILITY VPLMN Restriction GSM PSZI Data					
Home					

The below screen displays the subscriber information under profile Roam

View			
IMSI	977991234567894	MSISDN	91982011112
VLR Number	919820111114	MSC Number	919820111114
GSM Profile Name	-	GPRS Profile Name	-
Subscriber Status	ODB	Access Restriction	-
Network Access Mode	GSM & GPRS	Roaming Status	International
Charging Characteristics	-	Mobile Station Category	-
GSM State	Deactive	GPRS State	Deactive
MultiParty Maximum Count	0	Supplementary Services Profile	-
SGSN Number	919820111116	SGSN Address	C00B010203
GGSN Number	0	GGSN Address	0
GSM CAMEL Subscriptions			
Originating CSI Profile	-	Terminating CSI Profile	-
VMSC Terminating CSI Profile	-	Supplementary Services CSI Profile	-
Translation Information Flag CSI	-	Mobility Management GSM CSI	-
Dialled Service CSI	-	USSD CSI	-
Mobile Originating SMS CSI	-	Mobile Terminating SMS CSI	-
GPRS CAMEL Subscriptions			
GPRS CSI	-	Mobility Management GPRS CSI	-
Mobile Originating SMS CSI	-	Mobile Terminating SMS CSI	-
GSM Tele Services			
SpeechTransmissionServices			
GSM Bearer Services			
DataCDA-Services			
GPRS Tele Services			
SpeechTransmissionServices		ShortMessageServices	FacsimileTransmissionServices
VoiceGroupCallServices			
PDP Profile Names			
General ODB Data			
allOG-CallsBarred	internationalECT-Barred		
HPLMN ODB Data			
Location Services			
Age of Location Info	-	MSC Number	-
SGSN Number	-	Selected LSA Id	-
Location Number	-	Location Area Code	-
Cell Id	-	Geographic Info	-
GeodeticInfo	-	Subscriber State	-
Updated Time	-	LCS Profile	-
GMLC Profile	-		
Supplementary Services	Operator Determined Barring	Modify CSI Flags & State	
Attach / Detach SS Codes	OCSI Number Criteria	GSM Tele-Bearer services	
GPRS Tele-Bearer services	MOLR CAPABILITY		
Home			

STEP	ACTION
1.	User can peruse basic details of the subscriber
2.	On clicking the Supplementary Services button at the bottom of the screen, a navigation screen will be displayed enabling the user to obtain corresponding 'Supplementary Services' details accordingly
3.	On clicking the Operator Determined Barring button, it displays the corresponding 'Operator Determined Barring' screen in a different screen enabling the user to bar certain services at runtime (to change the current barring and bar few other services)
4.	On clicking the Modify CSI Flags & State button, it displays the presently configured values of the CSI Flags in a separate screen enabling the user to modify / update the values accordingly.
5.	On clicking the Change IMSI button, it displays the present IMSI of the subscriber in a separate screen enabling the user to provide a new IMSI in place of the Old IMSI
6.	On clicking the Add/Change MSISDN button, it displays the present MSISDN of the subscriber in a separate screen enabling the user to provide a new IMSI in place of the Old MSISDN
7.	On clicking the Deactivate GSM Subscription button, it enables the user to change the status of a GSM subscriber from activation to deactivation
8.	On clicking the Attach/Detach SS Codes button, it enables the user to attach or detach, as the case may be, certain services represented by way of SS Codes
9.	On clicking the OCSI Number Criteria button, it enables the user to attribute an OCSI number that is a combined element of the following constituents. <ul style="list-style-type: none"> • IMSI (International Mobile Subscriber Identifier) • Match Type • Destination Number Length(s) (Respectively for the count of numbers configured) • Corresponding Destination Numbers (as configured)
10.	On clicking the Provision/Modify GPRS button, it enables the user provisioning or modifying GPRS service to a GSM service
11.	On clicking the Trace Active button, it enables the user to modify / update Trace Active services
12.	On clicking the GSM Tele-Bearer Services button, it enables the user to modify / update GSM Tele-Bearer services
13.	On clicking the MultiNumbered MSISDN's button, it enables the user to provide multi-numbered MSISDN(s)

14.	On clicking the MOLR CAPABILITY button, it enables the user to modify / update MOLR Capability services
15.	On clicking the Allowed VLR Profile button, it enables the user to modify / update Allowed VLR profile
16.	On clicking the VPLMN Restriction button, it enables the user to create and modify/update the VPLMN Restriction details
17.	On clicking the GSM SoLSA Data button, it enables the user to manually modify/update the GSM SoSLA Data details
18.	On clicking the GSM RSZI Data button, it enables the user to manually modify/update the GSM RSZI details
19.	On clicking the Home button of the 'Subscriber Details' screen, it only redirects the user back to the 'Subscriber Information' screen

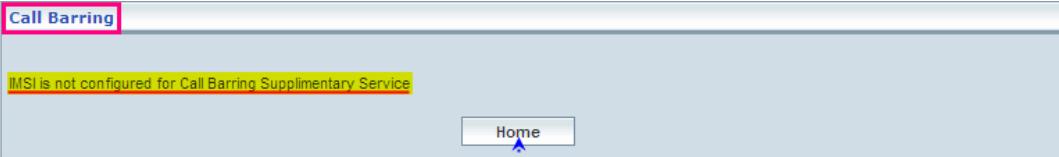
Supplementary Services

On clicking the 'Supplementary Services' button at the bottom of the screen, a navigation screen will be displayed enabling the user to obtain corresponding supplementary services' details accordingly. Supplementary Services include:

- Call Barring
- Call Forwarding
- Line Identify
- Call Completion
- Others (Other Services)
- Call Charging
- LCS Services
- PLMN Specific SS
- Communication of Interest

The screen below is the navigation screen to peruse various Supplementary Services of the chosen subscriber.

Supplementary Services			
IMSI	7860000000000012	MSISDN	966540000012
Call Barring	Call Forwarding	Line Identity	Call Completion
Others	Call Charging	LCS Services	PLMN Specific SS
Communication of Interest			
Home			

STEP	ACTION
1.	Corresponding IMSI & MSISDN of the Subscriber will be dynamically displayed in their respective fields
2.	<p>Details related to each of the supplementary services (Call Barring, Call Forwarding, Line Identity, Call Completion, Others, Call Charging, LCS Services, PLMN Specific SS and Communication of Interest) can be obtained in a separate screen by clicking the respective buttons</p> <p>NOTE: If this subscriber had not been configured for any of these services, a message window will be displayed stating that this subscriber profile has not been configured for the chosen supplementary service and it directs the user to the corresponding service screen allowing the user to configure run-time</p>  <p>On clicking the Home button of the message window, it directs the user to the corresponding 'Supplementary Services' Screen</p>
3.	On clicking the Home button of the 'Supplementary Services' screen, it redirects the user back to the 'Subscriber Information – View' screen

Call Barring

'Call Barring' helps the user in provisioning the 'Call Barring' service (a supplementary service – service different from default services and it is categorized as supplementary service) to a specific subscriber in contemplation with his/her respective IMSI.

The screen below shows configuring the **Call Barring – Details**.

Call Barring

Indicates Mandatory

IMSI 786000000000012

Control of SS Flag | ByOperator | Password | Notify CSE Flag | True |

Bar Outgoing Calls

Type of Call | BAOC |

Basic Service Group | All Data CDA Services |

BAOC-All Data CDS Services-Provisioned
BAOC-All Data CDA Services-Provisioned
BAOC-Faximile Services-Active
BAOC-Short Message Services-Provisioned
BAOC-Speech-Provisioned
BAOC-All Data CDS Services-Provisioned

Bar Incoming Calls

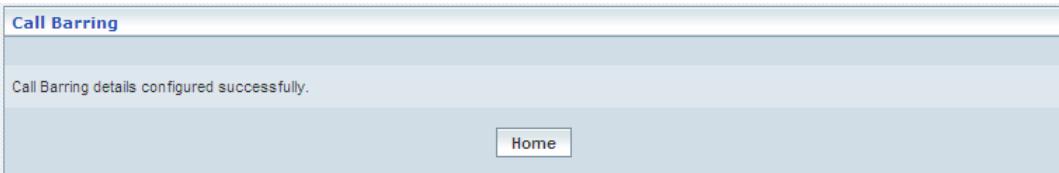
Type of Call | BAIC |

Basic Service Group | All Data CDA Services |

BAIC-All Data CDS Services-Provisioned
BAIC-All Data CDA Services-Provisioned
BAIC-Faximile Services-Provisioned
BAIC-Short Message Services-Provisioned
BAIC-Speech-Provisioned
BAIC-All Data CDS Services-Provisioned

Submit **Home**

STEP	ACTION - Call Barring Details Screen
1.	Given IMSI number will be dynamically displayed in the <IMSI> field
2.	<p>Control of SS Flag:</p> <p>Select an option (By Subscriber / By Operator) to specify the default option for the 'Control of SS Flag' element from the drop-down list of the <Control of SS Flag> field</p> <p>* By default, the options (By Subscriber / By Operator) will be dynamically displayed as drop-down list of the <Control of SS Flag> field</p> <p>NOTE: 'Password' field will be enabled only for 'By Subscriber' Option</p> <p>'By Operator' Option does not require a password and hence, 'Password' field will be disabled for 'By Operator' Option</p> <p>If the chosen option for 'Control of SS Flag' is 'By Subscriber user must enter a password in the <Password> filed</p> <p>NOTE: Password must have 0000–9999 digits: only numeric</p>
3.	<p>Notify CSE Flag:</p> <p>User can specify a value (True / False) to indicate default value for the CSE Flag</p>
4.	<p>Bar Outgoing Calls:</p> <p>On selecting the 'Bar Outgoing Calls' check box, the corresponding fields will be enabled allowing the user to change the existing services</p> <p>* However, if the user submits the details without checking the Service blocks, all the pre-configured services shall be dynamically updated to the provisioned state</p>
5.	<p>To Map a service:</p> <p>Select a call type from the drop-down list of the <Type of Call> field</p> <p>* By default, the call types will be dynamically displayed as drop-down list of the <Type of Call> field</p> <p>With the effect of selecting a call type, the corresponding BSG(s) will be dynamically displayed as a drop-down list of the <Basic Services Group> field</p> <p>Select a service from the drop-down list of the <Basic Service Group> field</p> <p><i>[The chosen service (BSG) that needs to be changed requires deletion from the services list in the right list field (pre-configured or existing services list).]</i></p> <p>To remove a service:</p> <p><i>Select the desired service from the right list field and subsequently clicking the left-arrow button removes the chosen service]</i></p>

	On clicking the right-arrow button, the mapped service details will be moved to the adjacent List field which is on right top of the 'Bar Outgoing Calls' Block However, the password & Control of SS Flag details will be simultaneously moved to the List field at the bottom of the 'Bar Outgoing Calls' Block
6.	Bar Incoming Calls: User can also map the Bar Incoming Calls service in a similar fashion as mentioned above
7.	On clicking the Submit button, Call Barring service shall be provisioned to the given IMSI and a message will be displayed to that effect  <p>The screenshot shows a message window with a light blue header containing the text 'Call Barring'. The main body of the window displays the message 'Call Barring details configured successfully.' in a dark grey box. At the bottom right, there is a small rectangular button labeled 'Home'.</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Supplementary Services' screen</p>
8.	On clicking the Home button of the 'Call Barring – Details' screen (prior to submission of the Call Barring services), it only redirects the user back to the 'Supplementary Services' screen

Call Forwarding

'Call Forwarding' helps the user in provisioning the 'Call Forwarding' service (a supplementary service – service different from default services and it is categorized as supplementary service) to a specific subscriber in contemplation with his/her respective IMSI.

The screen below shows configuring the **Call Forwarding – Details**.

Call Forwarding

| Indicates Mandatory

IMSI 786000000000011

All forwardings

<input checked="" type="checkbox"/> CFU	Notify CSE Flag	True <input type="button" value="▼"/>
---	-----------------	---------------------------------------

All conditional forwardings

<input type="checkbox"/> CFB	Notify CSE Flag	False <input type="button" value="▼"/>
<input type="checkbox"/> CFNRY	Notify CSE Flag	False <input type="button" value="▼"/>
<input type="checkbox"/> CFNRC	Notify CSE Flag	False <input type="button" value="▼"/>

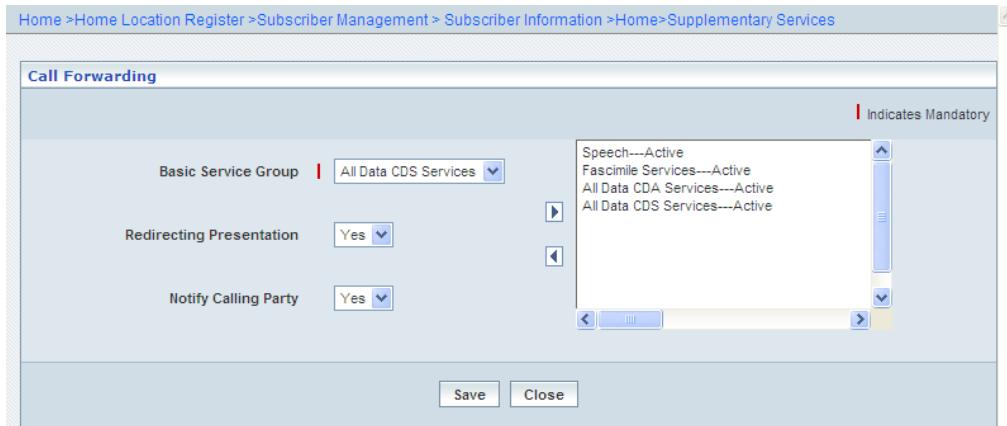
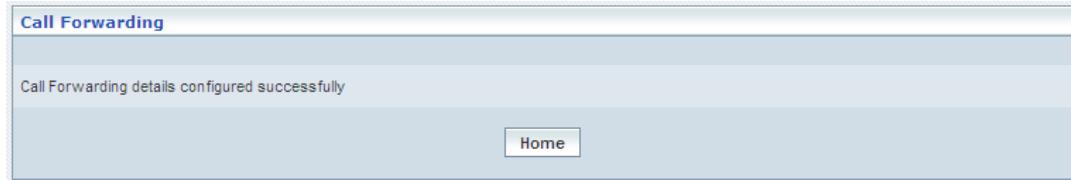
Call deflection forwarding

<input checked="" type="checkbox"/> CD	Notify CSE Flag	True <input type="button" value="▼"/>
--	-----------------	---------------------------------------

STEP	ACTION – Call Forwarding Details Screen
1.	<p>Given IMSI number will be dynamically displayed in the <IMSI> field</p> <p>There are 2 radio options, such as 'All forwardings' and 'All conditional forwardings'. 'All forwardings', which in turn consists of 'CFU' (Call Forwarding Unconditional) option and 'All conditional forwardings', which in turn consists of 'CFB' (Call Forwarding on Busy), 'CFNRY' (Call Forwarding No Reply) and 'CFNRC' (Call Forwarding Not Reachable) and other option, such as 'Call deflection forwarding', which in turn consists of 'CD' (Call Deflection)</p>
2.	<p>All forwardings:</p> <p>On selecting 'All forwardings' radio button, 'CFU' sub-service gets enabled.</p> <p>On selecting 'CFU' (Call Forwarding Unconditional) check-box, the 'Call Forwarding' related to 'CFU' gets displayed in separate screen</p>
	<p>To Map a service:</p> <p>Select a service group from the drop-down list of the <Basic Service Group> field</p> <p>* Based on the selection of Call Forwarding Type, only the corresponding BSG (Basic Services Group) services will be displayed as drop-down list <Basic Services Group> field</p>
	<p><i>[The chosen service (BSG) that needs to be changed requires deletion from the services list in the right list field (pre-configured or existing services list).]</i></p> <p>To remove a service:</p> <p><i>Select the desired service from the right list field and subsequently clicking the left-arrow button removes the chosen service]</i></p>

	<p>Select status (Registered / Active) from the drop-down list of the <Status> field to specify service status</p> <ul style="list-style-type: none"> * By default, the status options will be dynamically displayed as drop-down list of the <Status> field
	<ul style="list-style-type: none"> * By default, the FTN number is displayed in <Default FTN> field
	<ul style="list-style-type: none"> * By default, number to which the call would be forwarded to, as the case may be – will be dynamically displayed in the <Forwarded To Number> field
	<p>Enter a number indicating as alias (sub-address) to which the call would be forwarded to, as the case may be – in the <Forwarded To Sub-address> field</p> <p>NOTE: Forward to sub-address feature is optional</p>
	<p>If the Sub-Address Type is:</p> <p>NSAP: Actual number submitted shall append with a standard tag and the given FTS value will be flipped accordingly to get stored in database</p>
	<p>If FTS is even:</p> <p>Example:</p> <p>FTS from GUI = 9949023009 DB = 08009994200390</p>
	<p>If FTS is odd:</p> <p>Example:</p> <p>FTS from GUI = 99490230091 --994902300910 (when FTS value is odd, '0' will be appended to the given FTS value) DB = 0800999420039001</p>
	<p>User Specific: Actual number submitted shall append with a standard tag and the given FTS value will be flipped accordingly to get stored in database</p>
	<p>If FTS is even:</p> <p>Example:</p> <p>FTS from GUI = 9949023009 DB = 0:9949023009</p>
	<p>If FTS is odd:</p> <p>Example:</p> <p>FTS from GUI = 994902399 --994902300910 (when FTS value is odd, '0' will be appended to the given FTS value) DB = 8:9949023990</p>

	Select a value (Yes / No) to specify the default value for the 'Notify Forwarding Party' element from the drop-down list of the <Notify Forwarding Party> field * By default, the values (Yes/No) will be dynamically displayed as drop-down list of the <Notify Forwarding Party> field
	Select a value (Yes / No) to specify the default value for the 'Redirecting Presentation' element from the drop-down list of the <Redirecting Presentation> field * By default, the values (Yes/No) will be dynamically displayed as drop-down list of the <Redirecting Presentation> field
	Select a value (Yes / No) to specify the default value for the 'Notify Calling Party' element from the drop-down list of the <Notify Calling Party> field * By default, the values (Yes/No) will be dynamically displayed as drop-down list of the <Notify Calling Party> field
	On clicking the right-arrow button, the mapped service details will be moved to the adjacent List field which is on to the right side of the screen
3.	On clicking the Save button, configured services will be saved and stored internally
4.	On clicking the Close button (prior to configuration of services), it directs the user back to the 'Call Forwarding - Details ' screen
5.	Select a value (Yes / No) to specify the default value for the 'Notify CSE' element from the drop-down list of the <Notify CSE Flag> field * By default, the values (Yes/No) will be dynamically displayed as drop-down list of the <Notify CCE Flag> field
6.	<p><u>All conditional forwardings:</u></p> <p>On selecting 'All conditional forwardings' radio button, 'CFB' (Call Forwarding on Busy), 'CFNRY' (Call Forwarding No Reply) and 'CFNRC' (Call Forwarding Not Reachable) sub-services gets enabled.</p> <p>On selecting 'CFB', 'CFNRY' or 'CFNRC' checkboxes, its related details are displayed in separate screen</p> <p>NOTE: The data entry for these three options is same as above, which is described for 'CFU' and click Save button to save the data.</p>

7.	<p><u>Call deflection forwarding:</u></p> <p>In this deflection, only one options, such as 'CD' is available.</p> <p>On selecting the CD (<i>Call Deflection</i>) of the 'Call deflection forwarding', however subject to the chosen option, the corresponding details related to conditional sub-services will be dynamically displayed in a separate screen enabling the user to configure services</p>  <p>NOTE: The data entry for this 'CD' is also same as above, which is described for 'CFU' and click Save button to save the data.</p>
8.	<p>On clicking the Submit button, Call Forwarding service shall be provisioned to the given IMSI and a message will be displayed to that effect</p>  <p>On clicking the Home button of the message window, it directs the user back to the 'Supplementary Services' screen</p>
9.	<p>On clicking the Home button of the 'Call Forwarding' screen (prior to submission of the Call Forwarding services), it only redirects the user back to the 'Supplementary Services' main page</p>

Line Identity

'Line Identity' helps the user in provisioning the 'Line Identity' service (a supplementary service – service different from default services and it is categorized as supplementary service) to a specific subscriber in contemplation with his/her respective IMSI.

The screen below shows configuring the **Line Identity – Details**.

Line Identification

Indicates Mandatory

IMSI 786000000000011

CLIP

Basic Service Group | All Data CDA Services

Override Category | Enabled

CLIR

Basic Service Group | Speech

CLI Restriction | Permanent

COLP

Basic Service Group | All Data CDS Services

Override Category | Enabled

COLR

Basic Service Group | Fascimile Services

CLI Restriction | Permanent

Submit Home

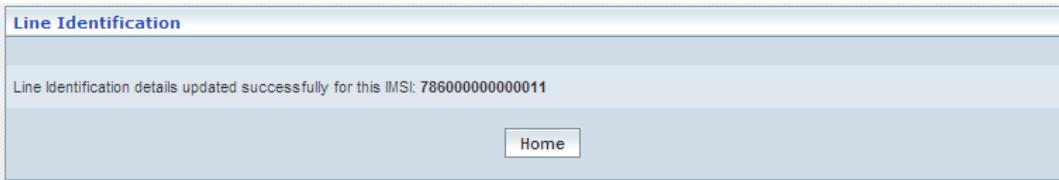
Speech--Active
Fascimile Services--Active
All Data CDA Services--Active
All Data CDS Services--Active

Fascimile Services--Active
All Data CDA Services--Active
All Data CDS Services--Active

Speech--Active
Fascimile Services--Active
All Data CDA Services--Active
All Data CDS Services--Active

Speech--Active
Fascimile Services--Active
All Data CDA Services--Active
All Data CDS Services--Active

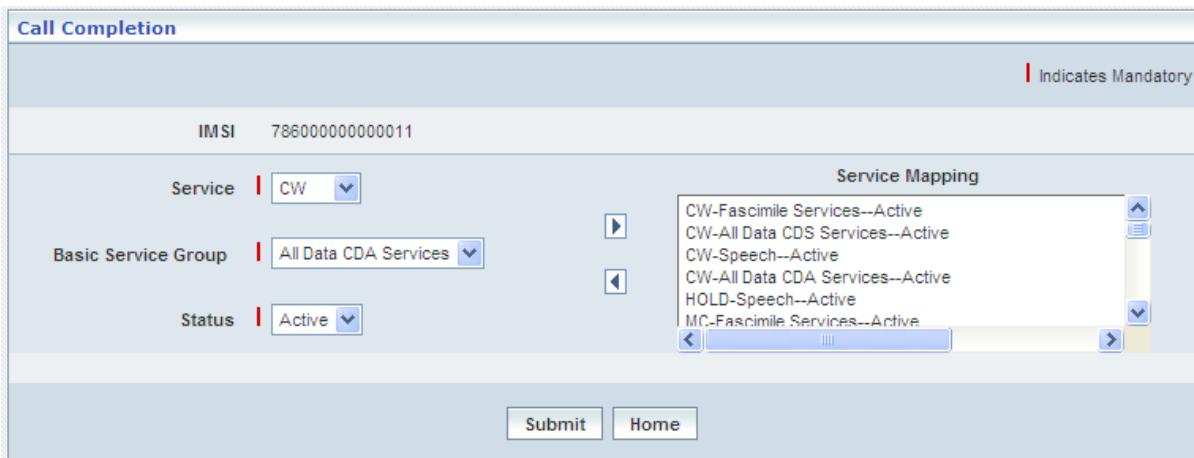
STEP	ACTION – Line Identity Details Screen
1.	Given IMSI number will be dynamically displayed in the <IMSI> field
2.	<p>Calling Line Identification Presentation (CLIP): On the 'Calling Line Identification Presentation' check box, the corresponding fields will be enabled allowing the user to change the existing services</p>
	<ul style="list-style-type: none"> * However, if the user submits the details without checking the Service blocks, all the pre-configured services shall be dynamically updated to the provisioned state
3.	<p>To Map a service: Select a service group from the drop-down list of the <Basic Service Group> field</p> <ul style="list-style-type: none"> * Based on the selection of 'Calling Line Identification Presentation', only the corresponding BSG (Basic Services Group) services will be displayed as drop-down list <Basic Services Group> field
	<p><i>[The chosen service (BSG) that needs to be changed requires deletion from the services list in the right list field (pre-configured or existing services list).]</i></p> <p>To remove a service: <i>Select the desired service from the right list field and subsequently clicking the left-arrow button removes the chosen service]</i></p> <p>All Line Identity supplementary service basic service groups' status is always active.</p>
	<p>If CLIP and COLP are being selected, CLI restrictions will not be applicable. For CLIR & CLOR a default value for Override Category (Enabled / Disabled) from the drop-down list of the <CLI Restrictions> field</p> <ul style="list-style-type: none"> * By default, the Override Category options will be dynamically displayed as drop-down list of the <Override Category> field
	<p>If CLIR and COLR are being selected, Override Category will not be applicable. For CLIP & CLOP Select a default value for CLI Restriction (Permanent/TempDefaultRestriction/TempDefaultAllowed) from the drop-down list of the <CLI Restriction> field</p> <ul style="list-style-type: none"> * By default, the CLI Restriction options will be dynamically displayed as drop-down list of the <CLI Restriction> field
	<p>On clicking the right-arrow button, the mapped service details will be moved to the adjacent List field which is on to the right side of the 'Calling Line Identification Presentation' Block</p>

4.	Calling Line Identification Restriction (CLIR) User can map the above said services also in a similar fashion as mentioned above
5.	Connected Line Identification Presentation (COLP) User can map the above said services also in a similar fashion as mentioned above
6.	Connected Line Identification Restriction (COLR) User can map the above said services also in a similar fashion as mentioned above
7.	On clicking the Submit button, Line Identity service shall be applied to the given IMSI and a message will be displayed to that effect 
8.	On clicking the Home button of the message window, it directs the user back to the 'Supplementary Services' screen

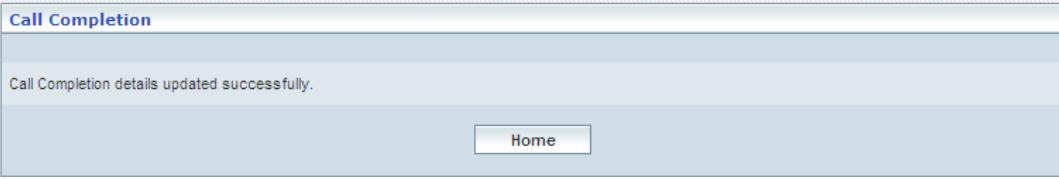
Call Completion

'Call Completion' helps the user in provisioning the 'Call Completion' service (a supplementary service – service different from default services and it is categorized as supplementary service) to a specific subscriber in contemplation with his/her respective IMSI.

The screen below shows configuring the **Call Completion – Details**.



Call Completion		Indicates Mandatory
IMSI 786000000000011		
Service	CW	Service Mapping CW-Faximile Services--Active CW-All Data CDS Services--Active CW-Speech--Active CW-All Data CDA Services--Active HOLD-Speech--Active MC-Faximile Services--Active
Basic Service Group	All Data CDA Services	<input type="button" value=""/> < <input type="button" value=""/> >
Status	Active	<input type="button" value=""/> < <input type="button" value=""/> >
<input type="button" value="Submit"/> <input type="button" value="Home"/>		

STEP	ACTION – Call Completion Details Screen
1.	Given IMSI number will be dynamically displayed in the <IMSI> field
2.	<p>To Map a service:</p> <p>Select a service from the drop-down list of the <Service> field</p> <p>* Based on the selection of Service, only the corresponding BSG (Basic Services Group) services will be displayed as drop-down list <Basic Services Group> field</p>
3.	Select a Basic Service group from the drop-down list of the <Basic Service Group> field
4.	<ul style="list-style-type: none"> Select status (Active) from the drop-down list of the <Status> field for Call Wait Basic Service Groups. By default, the status options (Only Active in this case) will be dynamically displayed as drop-down list of the <Status> field. NBR user value should be less than or equal to NBRSB value of System Parameters for Multi Call Supplementary services. NBR user value is same for all Multi call BSGs.
	<p>[The chosen service (BSG) that needs to be changed requires deletion from the services list in the right list field (pre-configured or existing services list).]</p> <p>To remove a service:</p> <p>Select the desired service from the right list field and subsequently clicking the left-arrow button removes the chosen service]</p> <p>* However, the SS Code 'HOLD' once mapped shall be constantly in active state and cannot be removed</p>
5.	On clicking the right arrow button, the mapped service details will be moved to the adjacent List field which is on to the right side. All Multi call BSGs status is always active or in withdrawal status.
6.	<p>On clicking the Submit button, Call Completion service shall be applied to the given IMSI and a message will be displayed to that effect</p>  <p>On clicking the Home button of the message window, it directs the user back to the 'Supplementary Services' screen</p>
7.	On clicking the Home button of the 'Call Completion – Details' screen (prior to submission of the Call Completion services), it only redirects the user back to the 'Supplementary Services' screen

Others (Other Supplementary Services)

'Other Supplementary Services' helps the user in provisioning the 'Other Supplementary Services' (supplementary services – service different from default services and it is categorized as supplementary service) to a specific subscriber in contemplation with his/her respective IMSI.

The screen below shows configuring the **Other (Other Supplementary Services) – Details.**

Other Supplementary Services	
IMSI	786000000000011
Service Mapping	ECT-Speech-Active MULTIPY-Speech-Active
<input type="button" value="Home"/>	

STEP	ACTION - Other Supplementary Services – Details Screen
1.	Given IMSI number will be dynamically displayed in the <IMSI> field
2.	Service Mapping: The listed services in the <Service Mapping> field are the configured supplementary services for the current subscriber. All corresponding Other Supplementary services are always active.
3.	On clicking the Home button of the 'Other Supplementary Services – Details' screen it redirects the user back to the 'Supplementary Services' screen

Call Charging

Call charging helps you to provisioning the call charging services, where you can view the services of the IMSI.

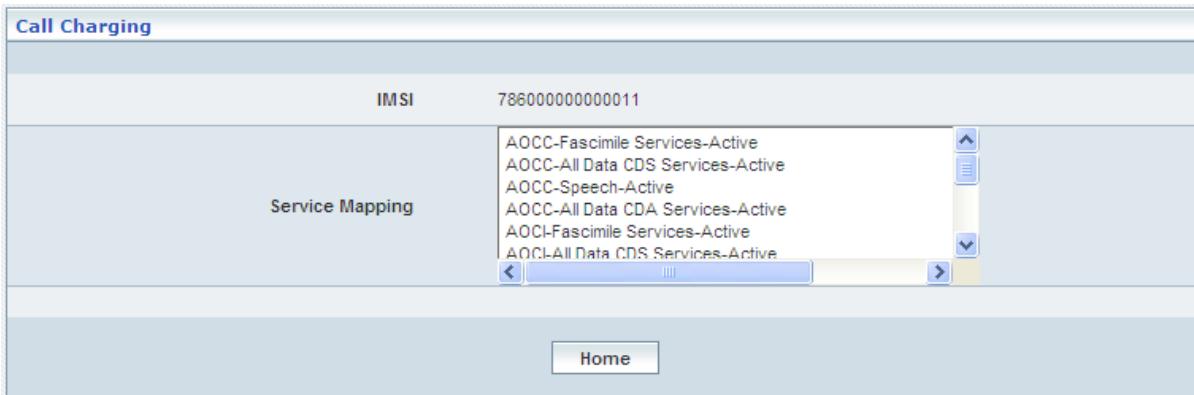
Services provides by the Call Charging:

1. AOCC - Advice of Charge Charging
2. AOCl - Advice of Charge Information

AOCC: - AoCC is a supplementary service that may be subscribed to enable a user to invoke AoC (Advice of Charge) on the MS (Mobile Station). The supplementary AoCC service is activated for every prepaid customer in the HLR, which will be used in call setup and tariff switching.

AOCI: Advice of Charge Information supplementary service permits the MS (Mobile Station) to display an accurate estimate of the size of the bill, which will eventually be levied in the HPLMN (Home Public Land Mobile Network).

The screen below shows configuring the **Call charges**



STEP	ACTION - Other Supplementary Services – Details Screen
1.	Given IMSI number will be dynamically displayed in the <IMSI> field
2.	Service Mapping: The listed services in the <Service Mapping> field are the configured supplementary services for the current subscriber. The AOCC and AOCI services are always the status is active.
3.	On clicking the Home button of the 'Call Charging – Details' screen it redirects the user back to the 'Supplementary Services' screen

LCS Services

LCS Services describes the list of LCS services for the IMSI. In profile level, if the LCS profile is selected, the same services of the profile will be available to the IMSI. User can modify the services at IMSI level. The services are universal, call/session related, call/session unrelated, PLMN operation class, service type, service identity.

Location Services

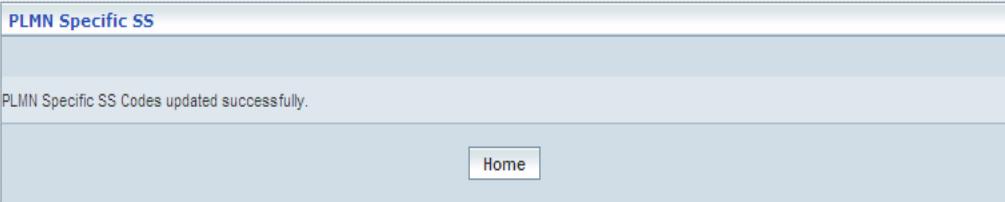
Indicates Mandatory

IMSI		786000000000011
<input checked="" type="checkbox"/> Universal		
<input checked="" type="checkbox"/> Call / Session Related		
SS Status		Provisioned
Notification		NotifyLocationAllowed
<input checked="" type="checkbox"/> Call / Session Unrelated		
SS Status		Provisioned
Notification		NotifyLocationAllowed
External Client		ECTest
<input checked="" type="checkbox"/> PLMN Operator Class		
PLMN Client list		Assigned PLMN Client List
broadcastService o-andM-HPLMN o-andM-VPLMN anonymousLocation targetMSsubscribedService		<input type="button" value="▶"/> <input type="button" value="◀"/>
<input type="checkbox"/> Service Type		
Service Identity		Select
<input type="button" value="Submit"/> <input type="button" value="Home"/>		

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is mandatory information  Indicates Mandatory .
2.	LCS profile contains five SS codes including Universal, Call/Session Related, Call/Session Unrelated, PLMN Operator Class, and Service Type. User can either select Universal, Call/Session Related, Call/Session Unrelated, PLMN Operator Class or Service Type.
3.	Given IMSI number will be dynamically displayed in the <IMSI> field
4.	Select 'Universal'.
5.	Select 'Call/Session Related'. The <SS Status> and <Notification> fields are activated only if the 'Call/Session Related' is selected. User has to enter the activated details.
6.	Select 'Call/Session Unrelated'. The <SS Status>, <Notification> and <External Client> fields are activated only if the 'Call/Session Unrelated' is selected. User has to enter the activated details.
7.	Select 'PLMN Operator Class'. The list of <PLMN Client list> is activated. User has to map at least one PLMN client to the <Assigned PLMN Client List>.
8.	Select 'Service Type'. Choose the identity. User can choose the identity only if the service type is selected. User has to enter the activated details.
9.	On clicking the Submit button, new profile (LCS) will be created and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the 'Supplementary Services' Screen
10.	On clicking the Home button of the 'Location Services' screen (prior to submission of the Location services), it directs the user to 'Supplementary Services' screen

PLMN Specific SS

PLMN Specific SS Services describes the list of PLMN Specific SS Codes services for the IMSI.

STEP	ACTION
1.	Given IMSI number will be dynamically displayed in the <IMSI> field
2.	Select PLMN Specific SS codes from <PLMN Specific SS Codes> drop-down list
3.	Select the status of the codes from <Status> drop-down list
4.	On clicking the right-arrow button, the PLMN Specific SS codes along with the selected features will be moved to the adjacent field * There can be several PLMN Specific SS codes assigned and hence, user can enter the desired number of PLMN Specific SS codes in a similar fashion
5.	However, if the user wants to remove a given PLMN Specific SS codes, selecting a string that needs to be removed from the list (of PLMN Specific SS codes) and subsequently clicking the left-arrow button removes the same
6.	On clicking the Submit button, the PLMN Specific SS codes will be stored in the database. A message window will be displayed to that effect  On clicking the Home button of the message window, it redirects the user to the 'PLMN Specific SS' screen
7.	On clicking the Home button of the 'PLMN Specific SS' screen (prior to submission of the PLMN Specific SS services), it directs the user to 'Supplementary Services' screen

Operator Determined Barring

On clicking the **Operator Determined Barring** button; the corresponding screen will be displayed enabling the user to configure values to provide 'Operator Determined Barring' service.

The screen below shows the 'Operator Determined Barring', enabling the user to update Operator Determined Barring – services for the given subscriber

General ODB Data		Services Barred	
allECT-Barred allIC-CallsBarred allOG-CallsBarred allPacketOrientedServicesBarred chargeableECT-Barred doublyChargeableECT-Barred internationalECT-Barred	[Up/Down Arrows]	allOG-CallsBarred	[Up/Down Arrows]
<input type="button" value="<"/> <input type="button" value=">"/>		<input type="button" value="<"/> <input type="button" value=">"/>	

PLMN ODB Data		Services Barred	
plmn-SpecificBarringType1 plmn-SpecificBarringType2 plmn-SpecificBarringType3 plmn-SpecificBarringType4	[Up/Down Arrows]		
<input type="button" value="<"/> <input type="button" value=">"/>		<input type="button" value="<"/> <input type="button" value=">"/>	

<input type="button" value="Submit"/>	<input type="button" value="Home"/>
---------------------------------------	-------------------------------------

STEP	ACTION
1.	Given IMSI number will be dynamically displayed in the <IMSI> field
2.	Currently barred services (Operator Determined Barring-Services) will be displayed in the 'Operator Determined Barring' screen
3.	NOTE: However, if the user wants to update the barred services of the subscriber, it can be done in a similar fashion as explained above under the section 'Operator Determined Barring' – Operator Determined Barring (Click this hyperlink)

Modify CSI Flags & State

On clicking the **Modify CSI Flags & State** button; the corresponding screen will be displayed enabling the user to modify / update the values related to CSI Flags of the chosen subscriber.

The screen below shows the presently configured values for CSI Flags enabling the user to update them accordingly.

Modify

IMSI 977991234567894

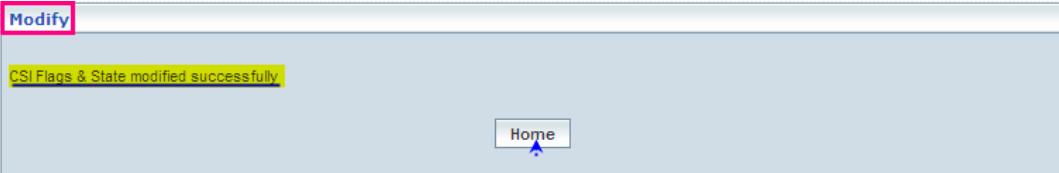
GSM CAMEL Subscriptions

OCSI Notification Flag	True <input type="button" value="▼"/>
OCSI State	Inactive <input type="button" value="▼"/>
TCSI Notification flag	True <input type="button" value="▼"/>
TCSI State	Inactive <input type="button" value="▼"/>
UCSI Notification Flag	True <input type="button" value="▼"/>
UCSI State	Inactive <input type="button" value="▼"/>

GPRS CAMEL Subscriptions

MOSMCSI Notification Flag	True <input type="button" value="▼"/>
MOSMCSI State	Inactive <input type="button" value="▼"/>
MTSMCSI Notification Flag	True <input type="button" value="▼"/>
MTSMCSI State	Inactive <input type="button" value="▼"/>

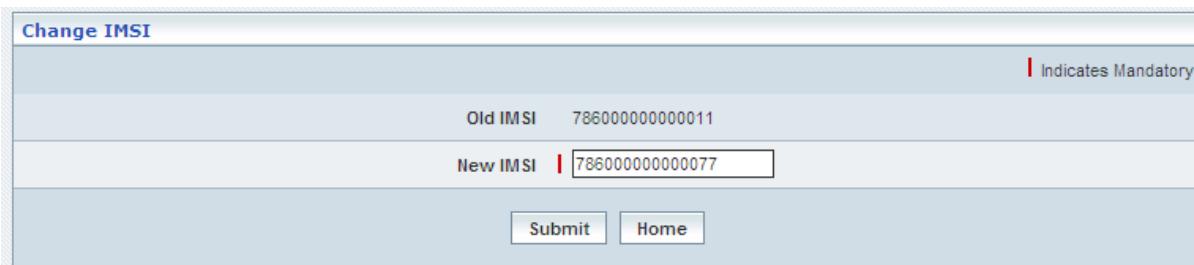
Submit **Home**

STEP	ACTION
1.	IMSI of the chosen subscriber will be dynamically displayed in the <IMSI> field Based on the Subscriber's CAMEL subscription (GSM / GPRS), only the corresponding notification elements will be dynamically displayed enabling the user to modify / update values accordingly
2.	User can modify 'CSI Flag' (Notification & State) values as required
3.	On clicking the Submit button, 'CSI Flag' will be updated with respect to the given IMSI. A message window will be displayed to that effect  On clicking the Home button of the message window, it directs the user back to the 'Subscriber Information - View' screen
4.	On clicking the Home button of the 'Modify' screen (prior to submission of updates), it only redirects the user back to the 'Subscriber Information - View' screen

Change IMSI

On clicking the **Change IMSI** button; the corresponding screen will be displayed enabling the user to modify / update IMSI (number) of the chosen subscriber.

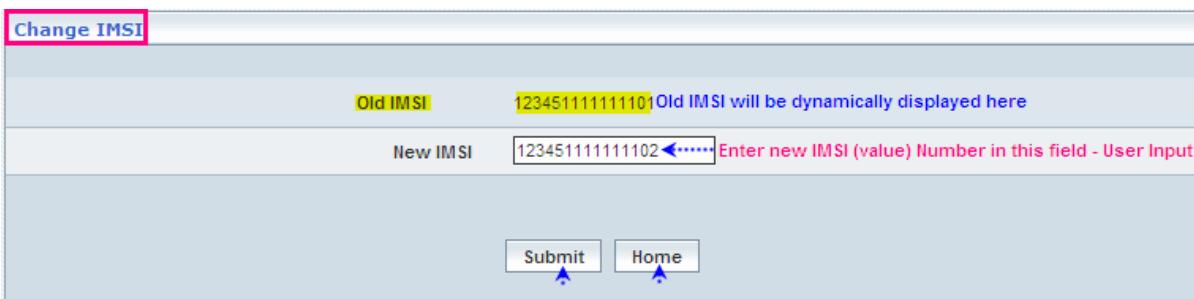
The screen below shows updating (changing) the IMSI of a chosen subscriber.



Change IMSI

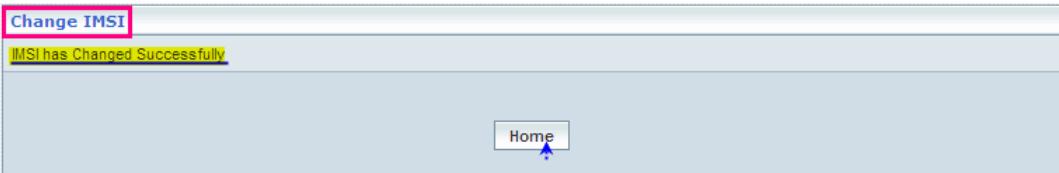
Indicates Mandatory

Old IMSI	78600000000011
New IMSI	78600000000077
<input type="button" value="Submit"/> <input type="button" value="Home"/>	



Change IMSI

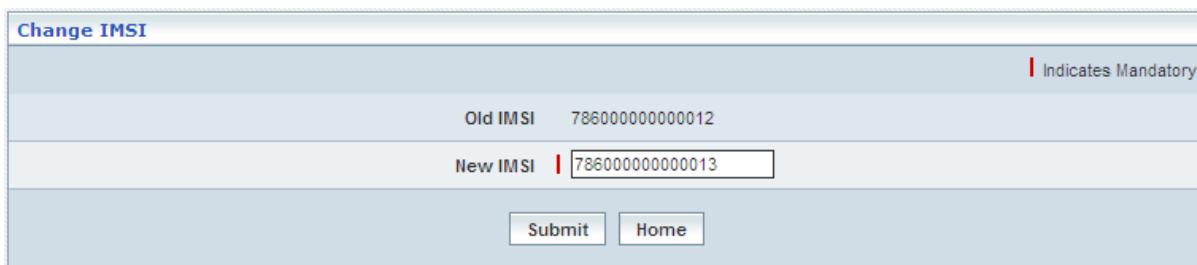
Old IMSI	12345111111110 Old IMSI will be dynamically displayed here
New IMSI	12345111111102 Enter new IMSI (value) Number in this field - User Input
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	Current IMSI of the chosen subscriber will be dynamically displayed in the <Old IMSI> field
2.	User can enter new IMSI (value) number in the <New IMSI> field Authentication should be similar for new IMSI as that of the old IMSI
3.	On clicking the Submit button, 'New IMSI' will be updated. A message window will be displayed to that effect  On clicking the Home button of the message window, it directs the user back to the 'Subscriber Information - View' screen
4.	On clicking the Home button of the 'Change IMSI' screen (prior to submission of changed IMSI), it only redirects the user back to the 'Subscriber Information - View' screen

Add/Change MSISDN

On clicking the **Add/Change MSISDN** button; the corresponding screen will be displayed enabling the user to add / modify / update MSISDN (number) of the chosen subscriber.

The screen below shows updating (changing) the MSISDN of a chosen subscriber.

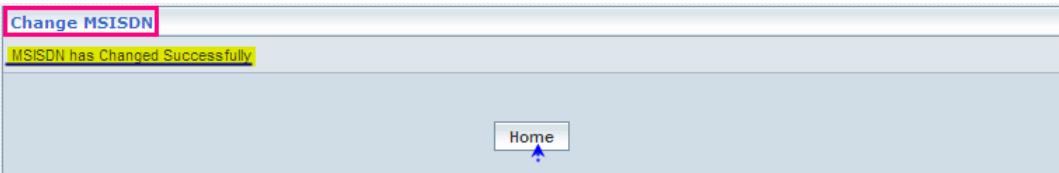


Change MSISDN

Indicates Mandatory

Old MSISDN	78600000000012
New MSISDN	78600000000013

Submit Home

STEP	ACTION
1.	Current MSISDN of the chosen subscriber will be dynamically displayed in the <Old MSISDN> field If the chosen subscriber does not have an MSISDN, user can add a new MSISDN
2.	User can enter new MSISDN number in the <New MSISDN> field
3.	On clicking the Submit button, 'New MSISDN' will be updated. A message window will be displayed to that effect  On clicking the Home button of the message window, it directs the user back to the 'Subscriber Information - View' screen
4.	On clicking the Home button of the 'Change IMSI' screen (prior to submission of changed IMSI), it only redirects the user back to the 'Subscriber Information - View' screen

Activate / Deactivate GSM Subscription

User can activate or deactivate the GSM subscription status of a subscriber.

The screen below shows updating (changing) the **Status** (activation / deactivation) of a GSM - subscriber.

This subscriber been in **active** state, **Activate GSM Subscription** button is displayed (by default initially) which enables the user to activate the subscriber.

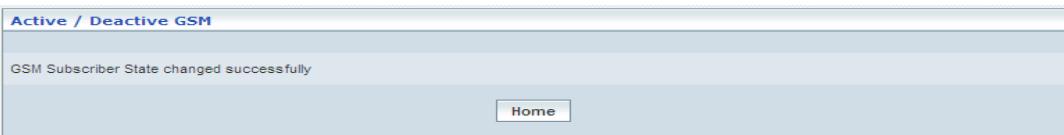
The screen shows activating the GSM Subscription

View																					
IMSI	786000000000012	MSISDN	966540000012																		
VLR Number	-	MSC Number	-																		
GSM Profile Name	GSMPospaid	GPRS Profile Name	-																		
Subscriber Status	ODB	Access Restriction	UTRAN																		
Network Access Mode	GSM																				
GSM Roaming Status	National	GSM Current Roaming Status	-																		
Charging Characteristics	Normal	Mobile Station Category	Calling Subscriber with priority																		
GSM State	Deactive	GPRS State	Not Available																		
MultiParty Maximum Count	0	Supplementary Services Profile	allspostpaid																		
GSM CAMEL Subscriptions																					
Originating CSI Profile	-	Terminating CSI Profile	-																		
VMSC Terminating CSI Profile	-	Supplementary Services CSI Profile	-																		
Translation Information Flag CSI	-	Mobility Management GSM CSI	-																		
Dialled Service CSI	-	USSD CSI	-																		
Mobile Originating SMS CSI	-	Mobile Terminating SMS CSI	-																		
GSM Tele Services																					
T12 EmergencyCalls	ShortMessageServices	FacsimileTransmissionServices																			
VoiceGroupCallServices																					
GSM Bearer Services																					
B22 DataCDA-1200bps	DataCDS-Services	PadAccessCA-Services																			
DataPDS-Services	AlternateSpeech-DataCDA	AlternateSpeech-DataCDS																			
SpeechFollowedByDataCDA	SpeechFollowedByDataCDS																				
Multi Numbered MSISDN's Services with Bearer Capability Profiles																					
919820000010	T12 EmergencyCalls	-																			
General ODB Data																					
allPacketOrientedServicesBarred																					
HPLMN ODB Data																					
plmn-SpecificBarringType3																					
Location Services																					
Age of Location Info	-	MSC Number	-																		
SGSN Number	-	Selected LSA Id	-																		
Location Number	-	Location Area Code	-																		
Cell Id	-	Geographic Info	-																		
Geodetic Info	-	Subscriber State	-																		
Updated Time	-	MCC	-																		
MNC	<div style="border: 1px solid #000; padding: 5px; width: fit-content;"> <p>Message from webpage</p>  <p>Do you want to Active the GSM Subscriber State..?</p> <div style="text-align: center; margin-top: 5px;"> <input type="button" value="OK"/> <input type="button" value="Cancel"/> </div> </div>																				
GMLC Profile																					
Selective Roaming																					
Allowed VLR Profile																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 2px;">Supplementary Services</td><td style="padding: 2px;">Operator Determined Barring</td><td style="padding: 2px;">Modify CSI Flags & State</td></tr> <tr><td style="padding: 2px;">Change IMSI</td><td style="padding: 2px;">Add / Change MSISDN</td><td style="padding: 2px;">Activate GSM Subscription</td></tr> <tr><td style="padding: 2px;">Attach / Detach SS Codes</td><td style="padding: 2px;">OCSI Number Criteria</td><td style="padding: 2px;">Provision / Modify GPRS</td></tr> <tr><td style="padding: 2px;">Trace Active</td><td style="padding: 2px;">GSM Tele-Bearer services</td><td style="padding: 2px;">MultiNumbered MSISDNs</td></tr> <tr><td style="padding: 2px;">MOLR CAPABILITY</td><td style="padding: 2px;">Allowed VLR Profile</td><td style="padding: 2px;">VPLMN Restriction</td></tr> <tr><td style="padding: 2px;">GSM SoLSA Data</td><td style="padding: 2px;">GSM RSZI Data</td><td></td></tr> </table>				Supplementary Services	Operator Determined Barring	Modify CSI Flags & State	Change IMSI	Add / Change MSISDN	Activate GSM Subscription	Attach / Detach SS Codes	OCSI Number Criteria	Provision / Modify GPRS	Trace Active	GSM Tele-Bearer services	MultiNumbered MSISDNs	MOLR CAPABILITY	Allowed VLR Profile	VPLMN Restriction	GSM SoLSA Data	GSM RSZI Data	
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GSM SoLSA Data	GSM RSZI Data																				
<input type="button" value="Home"/>																					

This subscriber been in **Inactive** state, **Activate GSM Subscription** button would have been displayed instead of **Deactivate GSM Subscription** button, which enables the user to deactivate the subscriber.

The screen shows deactivating the GSM Subscription

View																					
IMSI	786000000000012	MSISDN	966540000012																		
VLR Number	-	MSC Number	-																		
GSM Profile Name	testlsaxiusnepal	GPRS Profile Name	-																		
Subscriber Status	ODB	Access Restriction	UTRAN																		
Network Access Mode	GSM																				
GSM Roaming Status	Not Allowed	GSM Current Roaming Status	-																		
Charging Characteristics	Normal	Mobile Station Category	ordinary calling subscriber																		
GSM State	Active	GPRS State	Not Available																		
MultiParty Maximum Count	0	Supplementary Services Profile	-																		
GSM CAMEL Subscriptions																					
Originating CSI Profile	-	Terminating CSI Profile	-																		
VMSC Terminating CSI Profile	-	Supplementary Services CSI Profile	-																		
Translation Information Flag CSI	-	Mobility Management GSM CSI	-																		
Dialled Service CSI	-	USSD CSI	-																		
Mobile Originating SMS CSI	-	Mobile Terminating SMS CSI	-																		
GSM Tele Services																					
T11 Telephony	T12 EmergencyCalls	T21 ShortMessageMT-PP																			
T22 ShortMessageMO-PP																					
GSM Bearer Services																					
Multi Numbered MSISDN's Services with Bearer Capability Profiles -																					
General ODB Data																					
allOG-CallsBarred																					
HPLMN ODB Data																					
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SGSN Number	-	Selected LSA Id	-																		
Location Number	-	Location Area Code	-																		
Cell Id	-	Geographic Info	-																		
Geodetic Info	-	Subscriber State	-																		
Updated Time	-	MCC	-																		
MNC	Message from webpage  Do you want to Deactive the GSM Subscriber State..? <input type="button" value="OK"/> <input type="button" value="Cancel"/>																				
GMLC Profile																					
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Supplementary Services	Operator Determined Barring	Modify CSI Flags & State																			
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Trace Active	GSM Tele-Bearer services	MultiNumbered MSISDNs																			
MOLR CAPABILITY	Allowed VLR Profile	VPLMN Restriction																			
GSM SolSA Data	GSM RSZI Data																				
<input type="button" value="Home"/>																					

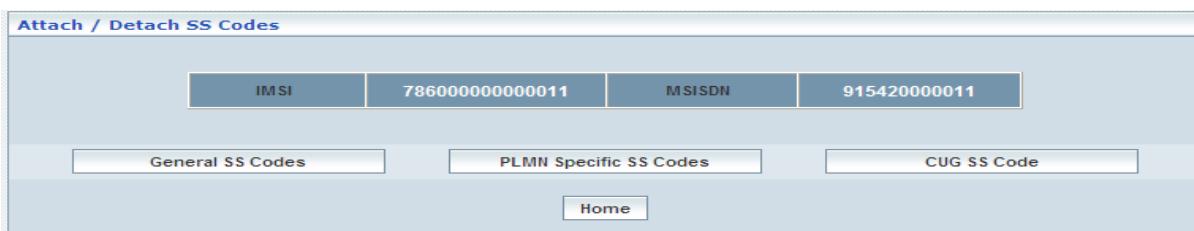
STEP	ACTION
1.	Present status (whether Active / Inactive) of the subscriber will be displayed in the <Subscriber State> field
2.	On clicking the Deactivate GSM Subscription button; an alert message window will be displayed enabling the user to confirm status change of the chosen subscriber
3.	On clicking the OK button of the alert message window, Subscriber Status will be updated (From ' Active ' to ' Inactive ' and ' Inactive ' to ' Active ' - as the case may be) accordingly. A message window will be displayed to that effect  <p>On clicking the Cancel button of the alert message window, it retains the 'Subscriber Information - View' screen (without any changes made to the subscriber's Status)</p>
4.	On clicking the Home button of the message window, it redirects the user back to the 'Subscriber Information - View' screen. User can verify the changed Status (From ' Active ' to ' Inactive ' and ' Inactive ' to ' Active ' - as the case may be) of the subscriber accordingly in the <Subscriber State> field

Attach / Detach SS Codes

Attaching the supplementary services refers to adding few more supplementary services in addition to the existing services of the chosen subscriber. Whereas, detaching the supplementary services refers to withdrawing certain services from the existing services of the subscriber. Attach and detach features shall be functioning independently but not together at a time.

Supplementary services here in this context have been indicated through SS Codes.

The screen below shows **attaching** the supplementary services to this chosen subscriber represented by way of his / her IMSI



General SS Codes

The screen below shows attaching/uploading the General SS Codes

General SS Codes

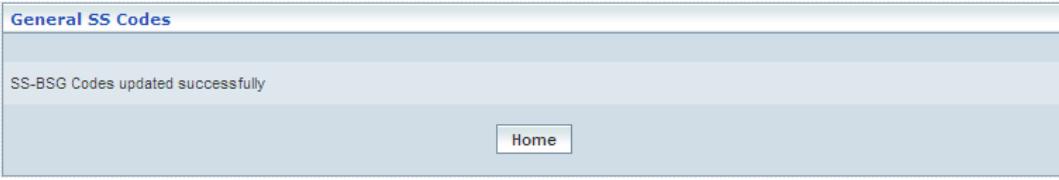
Note: Default FTN and Forward to Number represents following combinations for Call Forward SS Codes

- If TIF flag is set to Active / Not Configured for the subscriber then Forward to Number represents FTN text box.
- If TIF flag is set to Inactive for the subscriber then Forward to Number represents NAI + NPI + CC + FTN value.

Configuration of BAOC and CFU SS Codes are not allowed to map with same BSG and Status as Active

IMSI	786000000000011
SS Codes	BOICEHC
BSG Codes	All Data CDA Services All Data CDS Services Fascimile Services Short Message Services Speech
Status	Active
Mapped SS and BSG Codes	CFB-Fascimile Services-----Provision CFNRC-All Data CDA Services-----Provision CFNRC-Fascimile Services-----Provision CFNRY-Fascimile Services-913023423434-A14635 CFU-All Data CDA Services-D1363223423-E143345 CFB-All Data CDS Services-----Provision CFU-All Data CDS Services-D1363223423-E143345 CD-Speech-----Active CFB-All Data CDA Services-----Provision CD-All Data CDS Services-----Active CFNRY-Speech-913023423434-A14635345345345 CFB-Speech-----Provision CFNRC-Speech-----Provision CD-Fascimile Services-----Active

Submit **Home**

STEP	ACTION
1.	By default, IMSI number will be dynamically displayed in <IMSI> field
2.	Select an SS Code from the drop-down list of the <SS Codes> field * By default, the list of SS Codes will be dynamically displayed as drop-down list of the <SS Codes> field
3.	With the effect of selecting an SS Code, the corresponding list of basic services (group of services pertaining to the chosen SS Code) will be dynamically displayed in the <BSG Codes> list box, which is on to left side of the screen and its status, such as 'Active' and 'Provision' will also dynamically displayed in <Status> drop-down list and it gets enabled
4.	Select the desired service from the <BSG codes> list and select the status from <Status> drop-down list and then click right-arrow button, the basic service along with (name of) the SS code, corresponding status and along with other configurations (if any) will be moved to the adjacent field User can move the desired number of services from different Basic Services Groups belonging to different SS Codes in a similar fashion However if the user wants to just remove any service (any time before attaching the services), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service
5.	On clicking the Submit button, a message window to that effect will be displayed confirming the updates to the supplementary services of the subscriber  On clicking the Home button of the message window, it redirects the user to the 'General SS Codes' screen
6.	On clicking the Home button (prior attaching/uploading the General SS Codes), it only redirects the user back to the 'Attach / Detach SS Codes' main page

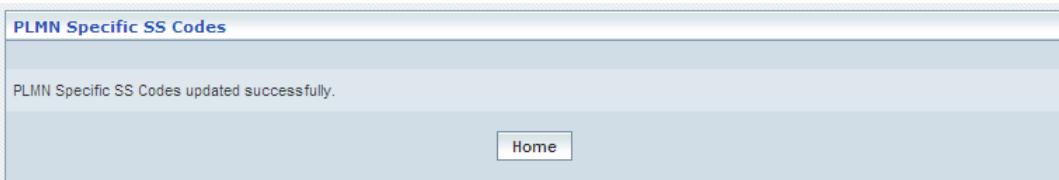
PLMN Specific SS Codes

The screen below shows attaching/uploading the PLMN Specific SS Codes

PLMN Specific SS Codes

Indicates Mandatory

IMSI	786000000000011		
SS Codes	Select	▶	◀
Status	Provision	◀	▶
PLMN-SPECIFICSS-4#Active			
<input type="button" value="Submit"/> <input type="button" value="Home"/>			

STEP	ACTION
1.	By default, IMSI number will be dynamically displayed in <IMSI> field
2.	Select an SS Code from the drop-down list of the <SS Codes> field * By default, the list of SS Codes will be dynamically displayed as drop-down list of the <SS Codes> field
3.	Select the status from <Status> drop-down list and then click right-arrow button, the basic service along with (name of) the SS code, corresponding status will be moved to the adjacent field User can move the desired number of services from different Basic Services Groups belonging to different SS Codes in a similar fashion However if the user wants to just remove any service (any time before attaching the services), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service
4.	On clicking the right-arrow button, the basic service along with (name of) the SS code, corresponding status and along with other configurations (if any) will be moved to the adjacent field User can move the desired number of services from different Basic Services Groups belonging to different SS Codes in a similar fashion However if the user wants to just remove any service (any time before attaching the services), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service
5.	On clicking the Submit button, a message window to that effect will be displayed confirming the updates to the supplementary services of the subscriber  On clicking the Home button of the message window, it directs the user back to the 'PLMN Specific SS Codes' Screen
6.	On clicking the Home button (prior attaching/uploading the PLMN Specific SS Codes), it only redirects the user back to 'Attach / Detach SS Codes' main page

CUG SS Codes - Attach

The screen below shows **attaching** the supplementary services to a group of subscribers represented by way of their IMSI(s).

The below screen displays the attach of the CUG SS Code

CUG SS Code

Note: | Indicates Mandatory

Interlock codes Mapping with each BSG format is as below

Interlock Code-CUG Index-BSG

BSG Index mapping format is as below

BSG-Inter CUG Access-Prefierencial CUG

<input checked="" type="radio"/> Attach	<input type="radio"/> Detach
IMSI	786000000000011

Global Interlock Codes

404311111 404111112 404111113 404111114 404111115 404111116 404111117 404111118 404111119 ... < >	404111114 ... < >
--	-------------------------

Interlock Codes Mapping with each BSG

404111114-4-Fascimile Services 404111114-4-All Data CDA Services ... < >	404111114-4-Fascimile Services ... < >
--	---

BSG Index mapping

BSG: Select Inter CUG Access: None designated Preferencial CUG: None designated	Fascimile Services-Outgoing Access-4 ... < >
---	---

Submit **Home**

STEP	ACTION
1.	<p>Select radio option (Attach / Detach) to specify an action whether to attach or detach the services to the subscribers</p> <p>First Case: Attach</p>
2.	By default, IMSI number will be dynamically displayed in <IMSI> field
3.	<p>Global Interlock Codes:</p> <p>Select the global interlock codes from the list and click right-arrow button, the global interlock codes will be moved to the adjacent field</p> <p>However if the user wants to just remove the global interlock codes (any time before attaching the services), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service</p>
4.	<p>Interlock Codes Mapping with each BSG:</p> <p>By default on selecting the Global Interlock Codes and mapping the same, its related details are displayed in this Block.</p> <p>Select the interlock codes from the list and click right-arrow button, the interlock codes will be moved to the adjacent field</p> <p>However if the user wants to just remove the interlock codes (any time before attaching the services), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service</p>
5.	<p>BSG Index Mapping:</p> <p>Select BSG from <BSG> drop-down list,</p> <p>Select Inter CUG Access from <Inter CUG Access> drop-down list,</p> <p>Select Perferential CUG from <Perferential CUG>drop-down list and click right-arrow button, to map atleast one BSG index mapping it will be moved to the adjacent field</p> <p>However if the user wants to just remove the mapping gof BSG index (anytime before attaching the services), selecting the service from the right text field and subsequently clicking the left-arrow button removes the service</p>
6.	<p>On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload</p> <div style="border: 1px solid #ccc; padding: 10px;"> <p>CUG SS Code</p> <p>Attach/Detach of Subscriber CUG details done successfully.</p> <p>Home</p> </div> <p>On clicking the Home button of the message window, it directs the user back to the 'CUG SS Code' Screen</p>

- | | |
|----|---|
| 7. | On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Attach / Detach SS Codes (Bulk)' main page |
|----|---|

CUG SS Code - Detach

The screen below shows **detaching** the supplementary services from the existing services pertaining to a group of subscribers represented by way of their IMSI(s).

The below screen displays the detach of the CUG SS Code

CUG SS Code

Note:
Interlock codes Mapping with each BSG format is as below
Interlock Code-CUG Index-BSG
BSG Index mapping format is as below
BSG-Inter CUG Access-Prefierencial CUG

IMSI: 786000000000011

Attach Detach

Global Interlock Codes

404311111	404111114
404111112	
404111113	
404111114	
404111115	
404111116	
404111117	
404111118	
404111119	

Interlock Codes Mapping with each BSG

404111114-4-Fascimile Services	404111114-4-Fascimile Services
404111114-All Data CDA Services	

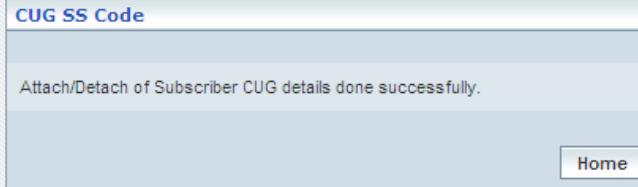
BSG Index mapping

BSG: Select

Inter CUG Access: None designated

Preferencial CUG: None designated

Submit Home

STEP	ACTION
1.	Select radio option (Attach / Detach) to specify an action whether to attach or detach the services to the subscribers Second Case: Detach
2.	By default, IMSI number will be dynamically displayed in <IMSI> field
3.	Mapping of all the Block are dynamically displayed in their respected fields
4.	On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload 
5.	On clicking the Home button of the message window, it directs the user back to the 'CUG SS Code' Screen

OCSI Number Criteria

'OCSI Number Criteria' helps the user in the following ways:

- View the current configuration details of the OCSI Number Criteria of the chosen subscriber
- Modify the existing configuration details of the OCSI Number Criteria of the chosen subscriber

OCSI number is a combined element of the following constituents.

- IMSI (International Mobile Subscriber Identifier)
- Match Type
- Destination Number Length(s) (Respectively for the count of numbers configured)
- Corresponding Destination Numbers (as configured)

Initially, it displays a screen enabling the user to select an option for viewing or updating the details related to OCSI criteria of the subscriber

The screen below shows choosing an option (View / Modify).

OCSI Number Criteria		
IMSI	786000000000011	
	View	Modify
	Home	

STEP	ACTION
1.	IMSI of the chosen subscriber will be dynamically displayed in the <IMSI> field
2.	On clicking the View button, the corresponding details related to OCSI Number Criteria of the chosen subscriber will be displayed in a separate screen
3.	On clicking the Modify button, the corresponding details related to OCSI Number Criteria of the chosen subscriber will be displayed in a separate screen, enabling the user to modify / update present configurations of the OCSI Number Criteria
4.	On clicking the Home button (prior to view or modify), it redirects the user back to the 'Subscriber Information' main page

[View](#)

The screen below shows details related to OCSI Number Criteria of the chosen subscriber.

View	
IMSI	304212830000143
Match Type	Enabling
Destination Number List	
Destination Number1	12132132
Destination Number2	354531
Destination Number3	--
Destination Number4	4546
Destination Number5	465465
Destination Number6	--
Destination Number7	--
Destination Number8	--
Destination Number9	--
Destination Number10	--
Destination Number Length List	
Destination Number Length1	42
Destination Number Length2	--
Destination Number Length3	45
	Home

STEP	ACTION
1.	User can peruse details related to OCSI Number Criteria of the chosen subscriber
2.	On clicking the Home button, it redirects the user back to the 'OCSI Number Criteria' main page

Modify

The screen below shows updating the details related to OCSI Number Criteria of the chosen subscriber.

Modify

IMSI 304212830000143

Match Type | Enabling

Destination Number List

Destination Number1	12132132
Destination Number2	354531
Destination Number3	
Destination Number4	4546
Destination Number5	465465
Destination Number6	
Destination Number7	
Destination Number8	
Destination Number9	525436
Destination Number10	

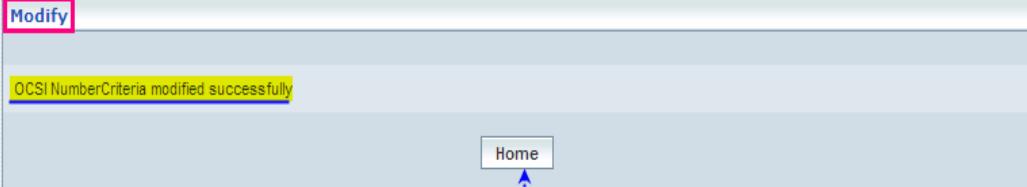
Destination Number Length List

Destination Number Length1	42
Destination Number Length2	
Destination Number Length3	45

Submit Home

Indicates Mandatory

User can change / update the current values as required and accordingly

STEP	ACTION
1.	IMSI of the chosen subscriber will be dynamically displayed in the <IMSI> field
2.	User can change match type value Select the preferred match type from the drop-down list of the <Match Type> field
3.	On clicking the Submit button, the corresponding details related to OCSI Number Criteria of the chosen subscriber will be updated and a message window will be displayed to that effect  <p>On clicking the Home button of the message window, it redirects the user back to the 'OCSI Number Criteria' main page</p>
4.	On clicking the Home button (prior to view or modify), it redirects the user back to the 'Subscriber Information' main page

Provision / Modify GPRS

'Provision / Modify GPRS' helps the user provisioning (new) or updating (existing) Profiles in contemplation with the corresponding PDP profiles of the chosen subscriber.

Provisioning of GPRS is applicable only to those subscribers belonging to the network access mode being 2 in terms of Authentication.

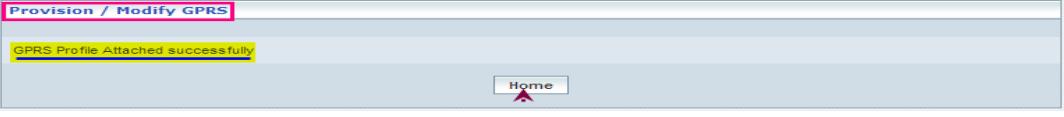
If both GSM and GPRS network access modes have been assigned to a subscriber, consequently, the corresponding Tele services of the selected GPRS profile must be the sub-set of the GSM Tele services.

The screen below shows provisioning / updating (as the case may be) the PDP profiles of the chosen subscriber.

Provision / Modify GPRS

Indicates Mandatory

IMSI	786000000000012
Profile Name	BhaskarGPRS
<input type="radio"/> Dynamic <input checked="" type="radio"/> Static	
Change the order of PDP Profiles	
IP Address <input type="text" value="10.10.19.25"/>	PDPTest
	PDPTest-10.10.19.25
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	IMSI of the chosen subscriber will be dynamically displayed in the <IMSI> field
2.	Select a profile from the drop down list of the <Profile Name> field
3.	With the effect of choosing a specific profile, Only the corresponding PDP profiles will be dynamically displayed in the text field which is on to left side of the screen. These profiles have to be prioritized in a specific order based on the type (dynamic / static) of profiles composition
4.	Select radio option (Dynamic / Static) to specify the nature of Profiles Composition
5.	The option 'Dynamic' indicates random attribution of profiles to the GPRS Subscriber, whereas 'Static' indicates fixed / defined attribution of profiles
6.	With the effect of choosing 'Static' Option, order prioritization of PDP profiles with respect to various IP Addresses becomes mandatory
7.	Enter IP Address in the <IP Address> field
8.	Select a Profile from the list of Profiles in the text field NOTE: IP Address must be unique to each of those attributed Profiles
9.	On clicking the right-arrow button, the combination of IP address and the chosen Profile (as a string) will be moved to the <Text Field> which is on to the right side of the screen User can assign the required number of IP Addresses in a similar fashion However if the user wants to remove an IP Address (any time before creating the Subscriber), selecting a combination from the right text field and subsequently clicking the left-arrow button removes the same NOTE: Nevertheless, it is mandatory to prioritize the order of entire PDP Profiles (in contemplation with various/or similar IP Addresses) of the chosen Profile
10.	On clicking the Submit button, provisioning GPRS / updating the GPRS Profiles related to the subscriber (as the case may be) will be carried out and a message window will be displayed to that effect Error   <p>On clicking the Home button of the message window, it directs the user back to the 'Subscriber Information' Screen</p>

- | | |
|------------|--|
| 11. | On clicking the Home button (before provisioning GPRS / updating the GPRS Profiles), it directs the user to the 'Subscriber Management' main page |
|------------|--|

Trace Active/Trace Deactive

Trace Activity helps the users to modify/update the Trace type and HLR Trace type. It consists of two events—Event 1 and Event 2. The Event 1 includes the following events—MOC, MTC, SMS MO, SMS MT, PDS MO, PDS MT, SS, Location Updates, IMSI attach, and detach. The Event 2 includes the following events—MOC, MTC, SMS_MO, SMS_MT, PDS MO, PDS MT, and SS. By default, the Trace Active button is shown in subscriber information. Once the trace is active, then the enables trace deactivate in the place of Trace active.

User can activate or deactivate the Trace Type and HLR Trace Type.

This trace type been in **active** state, **Trace Active** button is displayed (by default initially) which enables the user to activate the trace type and HLR trace type.

The screen shows activating the Trace Type and HLR Trace Type

View																					
IMSI	786000000000012	MSISDN	96654000012																		
VLR Number	-	MSC Number	-																		
GSM Profile Name	GSMPospaid	GPRS Profile Name	-																		
Subscriber Status	ODB	Access Restriction	UTRAN																		
Network Access Mode	GSM																				
GSM Roaming Status	International	GSM Current Roaming Status	-																		
Charging Characteristics	Normal	Mobile Station Category	Calling Subscriber with priority																		
GSM State	Active	GPRS State	Not Available																		
MultiParty Maximum Count	0	Supplementary Services Profile	allsspostpaid																		
GSM CAMEL Subscriptions																					
Originating CSI Profile	-	Terminating CSI Profile	-																		
VMSC Terminating CSI Profile	-	Supplementary Services CSI Profile	-																		
Translation Information Flag CSI	-	Mobility Management GSM CSI	-																		
Dialled Service CSI	-	USSD CSI	-																		
Mobile Originating SMS CSI	-	Mobile Terminating SMS CSI	-																		
GSM Tele Services																					
SpeechTransmissionServices	ShortMessageServices	FacsimileTransmissionServices																			
VoiceGroupCallServices																					
GSM Bearer Services																					
DataCDA-Services	DataCDS-Services																				
Multi Numbered MSISDN's Services with Bearer Capability Profiles -																					
General ODB Data																					
allPacketOrientedServicesBarred																					
HPLMN ODB Data																					
plmn-SpecificBarringType3																					
Location Services																					
Age of Location Info	-	MSC Number	-																		
SGSN Number	-	Selected LSA Id	-																		
Location Number	-	Location Area Code	-																		
Cell Id	-	Geographic Info	-																		
Geodetici Info	-	Subscriber State	-																		
Updated Time	-	MCC	-																		
MNC	-	LCS Profile	-																		
GMLC Profile	-																				
Selective Roaming																					
Allowed VLR Profile	-	Allowed SGSN Profile	-																		
<table border="1"> <tr><td>Supplementary Services</td><td>Operator Determined Barring</td><td>Modify CSI Flags & State</td></tr> <tr><td>Change IMSI</td><td>Add / Change MSISDN</td><td>Deactivate GSM Subscription</td></tr> <tr><td>Attach / Detach SS Codes</td><td>OCSI Number Criteria</td><td>Provision / Modify GPRS</td></tr> <tr><td>Trace Active</td><td>GSM Tele-Bearer services</td><td>MultiNumbered MSISDNs</td></tr> <tr><td>MOLR CAPABILITY</td><td>Allowed VLR Profile</td><td>VPLMN Restriction</td></tr> <tr><td>GSM SoLSA Data</td><td>GSM RSZI Data</td><td></td></tr> </table>				Supplementary Services	Operator Determined Barring	Modify CSI Flags & State	Change IMSI	Add / Change MSISDN	Deactivate GSM Subscription	Attach / Detach SS Codes	OCSI Number Criteria	Provision / Modify GPRS	Trace Active	GSM Tele-Bearer services	MultiNumbered MSISDNs	MOLR CAPABILITY	Allowed VLR Profile	VPLMN Restriction	GSM SoLSA Data	GSM RSZI Data	
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MOLR CAPABILITY	Allowed VLR Profile	VPLMN Restriction																			
GSM SoLSA Data	GSM RSZI Data																				
Home																					

STEP	ACTION
1.	Present status (whether Active / Inactive) of the trace type will be displayed in the <Subscriber State> field
2.	On clicking the Trace Active button; 'Trace Active' Screen will be displayed enabling the user to enter the details of the trace types

Trace Active

Note: Indicates Mandatory

Event 1 Includes the below Invoking Events

- MOC, MTC, SMS MO, SMS MT, PDS MO, PDS MT, SS, Location Updates, IMSI attach, IMSI detach

Event 2 Includes the below Invoking Events

- MOC, MTC, SMS_MO, SMS_MT, PDS MO, PDS MT, SS only

IMSI	786000000000012
OMCID	434

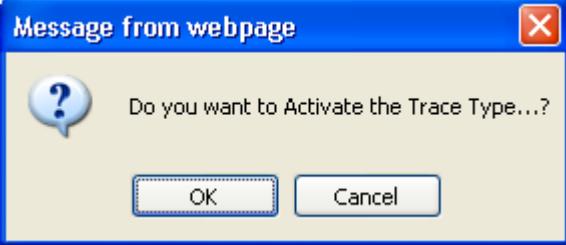
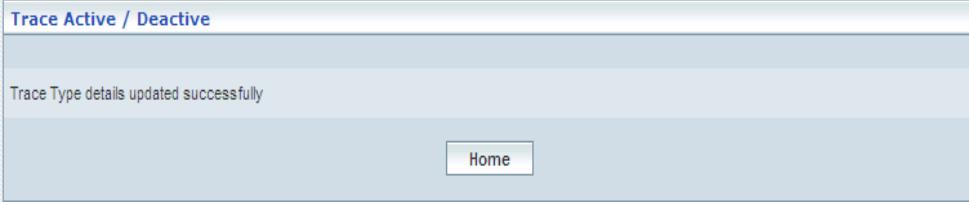
Trace Type

Invoking Events	Event 1
MSC Record Type	Basic
BSS Record Type	Handover
Priority Indication	<input checked="" type="radio"/> No priority <input type="radio"/> Priority

HLR Trace Type

Invoking Events	Operator definable
HLR Record Type	Detailed
Priority Indication	<input checked="" type="radio"/> No priority <input type="radio"/> Priority

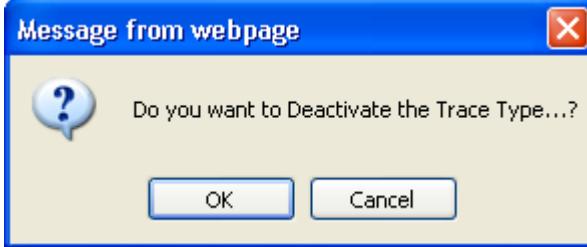
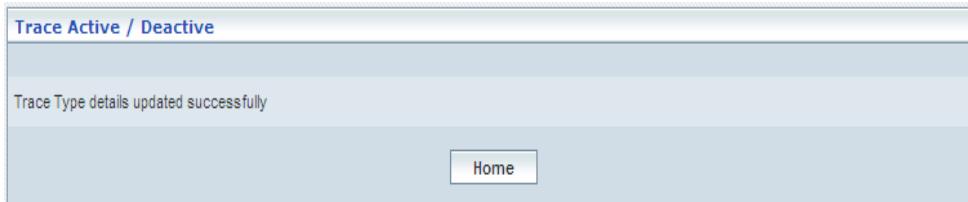
[Submit](#) [Home](#)

STEP	ACTION
1.	IMSI of the chosen subscriber will be dynamically displayed in the <IMSI> field
2.	Enter OMCID number in the <OMCID> field
3.	In Trace Type : Select invoking events in the <Invoking Events> fields. Select MSC record type in the <MSC Record Type> fields. Select BSC record type in the <BSC Record Type> fields. Choose Priority Indication, such as, No Priority or Priority.
4.	In HLR Trace Type : Select invoking events in the <Invoking Events> fields. Select HLR record type in the <HLR Record Type> fields. Choose Priority Indication, such as, No Priority or Priority.
5.	On clicking the Submit button, the alert message window will be displayed  On clicking the OK button of the alert message window, Trace Type will be activated. A message window will be displayed to that effect  On clicking the Cancel button of the alert message window, it retains the 'Trace Active' screen (without any changes made to the Trace Type) On clicking the Home button of the message window, it directs the user back to the 'Subscriber Information - View' Screen
6.	On clicking the Home button (before activating/deactivating the Trace type and HLR Trace Type.), it directs the user to the 'Subscriber Management' main page

This subscriber been in **Inactive** state, **Trace Deactive** button would have been displayed instead of **Trace Active** button, which enables the user to deactivate the Trace Type and HLR Trace Type.

The screen shows deactivating the Trace Type and HLR Trace Type

View																					
IMSI	786000000000012	MSISDN	966540000012																		
VLR Number	-	MSC Number	-																		
GSM Profile Name	GSMPospaid	GPRS Profile Name	-																		
Subscriber Status	ODB	Access Restriction	UTRAN																		
Network Access Mode	GSM																				
GSM Roaming Status	International	GSM Current Roaming Status	-																		
Charging Characteristics	Normal	Mobile Station Category	Calling Subscriber with priority																		
GSM State	Active	GPRS State	Not Available																		
MultiParty Maximum Count	0	Supplementary Services Profile	allspostpaid																		
GSM CAMEL Subscriptions																					
Originating CSI Profile	-	Terminating CSI Profile	-																		
VMSC Terminating CSI Profile	-	Supplementary Services CSI Profile	-																		
Translation Information Flag CSI	-	Mobility Management GSM CSI	-																		
Dialled Service CSI	-	USSD CSI	-																		
Mobile Originating SMS CSI	-	Mobile Terminating SMS CSI	-																		
GSM Tele Services																					
SpeechTransmissionServices	ShortMessageServices	FacsimileTransmissionServices																			
VoiceGroupCallServices																					
GSM Bearer Services																					
DataCDA-Services	DataCDS-Services																				
Multi Numbered MSISDN's Services with Bearer Capability Profiles																					
General ODB Data																					
allPacketOrientedServicesBarred																					
HPLMN ODB Data																					
plmn-SpecificBarringType3																					
Location Services																					
Age of Location Info	-	MSC Number	-																		
SGSN Number	-	Selected LSA Id	-																		
Location Number	-	Location Area Code	-																		
Cell Id	-	Geographic Info	-																		
GeodeticInfo	-	Subscriber State	-																		
Updated Time	-	MCC	-																		
MNC	-	LCS Profile	-																		
GMLC Profile	-																				
Selective Roaming																					
Allowed VLR Profile	-	Allowed SGSN Profile	-																		
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MOLR CAPABILITY	Allowed VLR Profile	VPLMN Restriction																			
GSM SoLSA Data	GSM RSZI Data																				
<input type="button" value="Home"/>																					

STEP	ACTION
1.	<p>On clicking the Trace Deactive button, the alert message window will be displayed</p>  <p>On clicking the OK button of the alert message window, Trace Type will be deactivated. A message window will be displayed to that effect</p>  <p>On clicking the Cancel button of the alert message window, it retains the 'Trace Active' screen (without any changes made to the Trace Type)</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Subscriber Information - View' Screen</p>
2.	<p>On clicking the Home button (before activating/deactivating the Trace type and HLR Trace Type.), it directs the user to the 'Subscriber Management' main page</p>

GSM Tele-Bearer Services

GSM Tele-Bearer Services helps the users to change the GSM Tele-Bearer Services

The screen shows changing GSM Tele-Bearer Services

GSM Tele-Bearer services

Indicates Mandatory

IMSI 786000000000012

Tele Services

<input checked="" type="checkbox"/> SpeechTransmissionServices	<input checked="" type="checkbox"/> ShortMessageServices	<input checked="" type="checkbox"/> FacsimileTransmissionServices
<input checked="" type="checkbox"/> VoiceGroupCallServices		

Available Services		Assigned Services
T11 Telephony T12 EmergencyCalls T21 ShortMessageMT-PP T22 ShortMessageMO-PP		
		SpeechTransmissionServices ShortMessageServices FacsimileTransmissionServices VoiceGroupCallServices

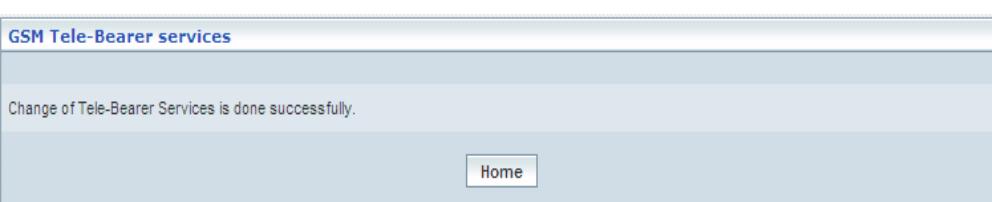
Bearer Services

<input checked="" type="checkbox"/> DataCDA-Services	<input checked="" type="checkbox"/> DataCDS-Services	<input type="checkbox"/> PadAccessCA-Services
<input type="checkbox"/> DataPDS-Services	<input type="checkbox"/> AlternateSpeech-DataCDA	<input type="checkbox"/> AlternateSpeech-DataCDS
<input type="checkbox"/> SpeechFollowedByDataCDA	<input type="checkbox"/> SpeechFollowedByDataCDS	

Available Services		Assigned Services
B21 DataCDA-300bps B22 DataCDA-1200bps B23 DataCDA-1200-75bps B24 DataCDA-2400bps		
		DataCDA-Services DataCDS-Services

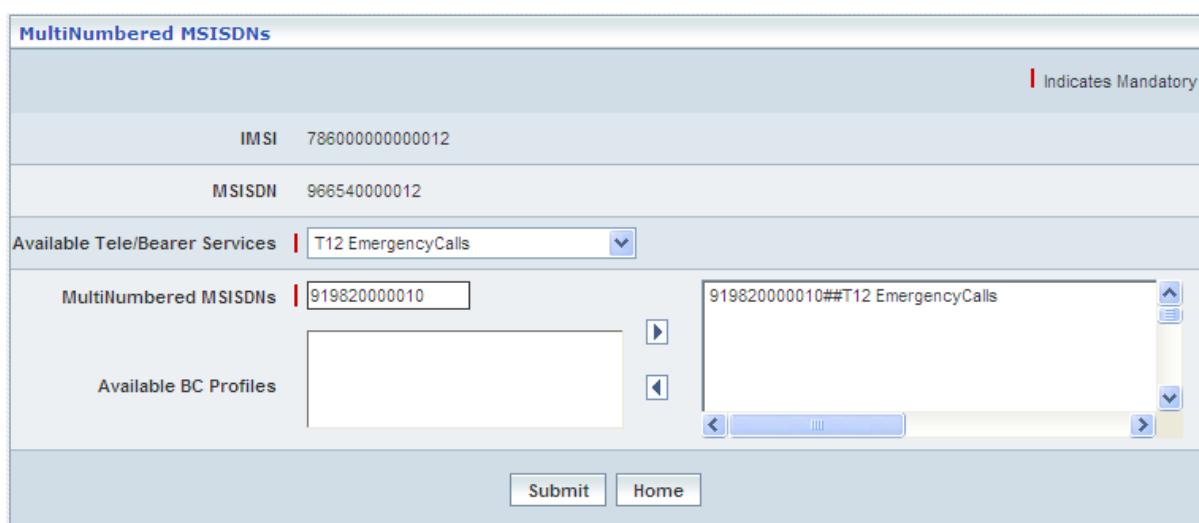
Submit **Home**

STEP	ACTION
1.	IMSI of the chosen subscriber will be dynamically displayed in the <IMSI> field
2.	<p>Tele Services</p> <p>On selecting a specific Tele Service, the corresponding Parent services (as a string) will be dynamically moved to the <Assigned Services> text field below, which is on to the right side of the screen and the corresponding sub-services will be dynamically moved to the text field <Available Services> which is on to the left side of the screen</p>
	Select the desired sub service from the list < Available Services > and on clicking the right-arrow button, the sub-service (as a string) will be moved to the < Assigned Services > field and reckoned as an assigned service
	However if the user wants to just remove any service (any time before creating the profile), selecting the service from the < Assigned Services > text field and subsequently clicking the left-arrow button removes the service
3.	<p>Bearer Services</p> <p>On selecting a specific Bearer Service, the corresponding Parent services (as a string) will be dynamically moved to the <Assigned Services> text field below, which is on to the right side of the screen and the corresponding sub-services will be dynamically moved to the text field <Available Services> which is on to the left side of the screen</p>
4.	Select the desired sub service from the list < Available Services > and on clicking the right-arrow button, the sub-service (as a string) will be moved to the < Assigned Services > field and reckoned as an assigned service
5.	However if the user wants to just remove any service (any time before creating the profile), selecting the service from the < Assigned Services > text field and subsequently clicking the left-arrow button removes the service

6.	<p>On clicking the Submit button, provisioning GSM changing Tele-Bearer Services related to the subscriber (as the case may be) will be carried out and a message window will be displayed to that effect</p>  <p>On clicking the Home button of the message window, it directs the user back to the 'GSM Tele-Bearer Services' Screen</p>
7.	<p>On clicking the Home button (before changing the GSM Tele-Bearer Services.), it directs the user to the 'Subscriber Management' main page</p>

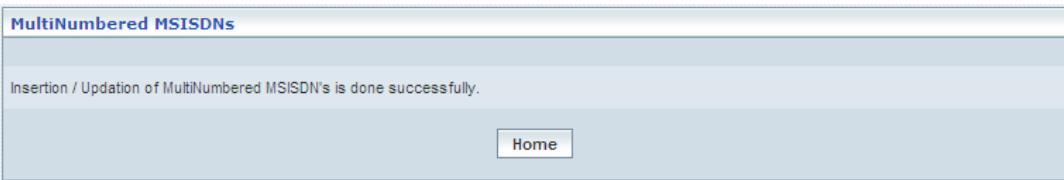
MultiNumbered MSISDN(s)

'MultiNumbered MSISDN(S)' helps the user to provide multiple MSISDN attributing to the subscriber's IMSI to represent discrete services.



The screenshot displays the 'MultiNumbered MSISDNs' configuration interface. Key elements include:

- IMSI:** 786000000000012
- MSISDN:** 966540000012
- Available Tele/Bearer Services:** T12 EmergencyCalls
- MultiNumbered MSISDNs:** 919820000010
- Available BC Profiles:** (Empty list)
- Buttons:** Submit, Home

STEP	ACTION
1.	IMSI & MSISDN of the chosen subscriber will be dynamically displayed in their respective fields <IMSI> & <MSISDN> fields
2.	Select a Tele Bearer service from the drop-down list of the <Available TeleBearer Services> field Only those sub-services belonging to the attributed GSM Tele Bearer services of the Subscriber will be displayed here.
3.	With the effect of selecting a GSM Tele Bearer service, the corresponding list of BC Profiles (if any) will be dynamically displayed in the <Available BC Profiles> text field below, which is on to the left side of the screen
	Enter MSISDN (additional and other than basic MSISDN) in the <MultiNumbered MSISDNs> field NOTE: Given MSISDN must be the constituent of the Configured series
	Select the desired BC Profile from the list <Available BC Profiles> and on clicking the right-arrow button, the components as multinumber MSISDN-BC Profile-Tele Bearer service (as a string) will be moved to the adjacent text field and reckoned as an assigned service to the give additional (multinumber) MSISDN User can assign one multinumber MSISDN to only one service Maximum 5 BC Profiles pertaining to a specific teleservice can be mapped to discrete multinumber MSISDN(s)
4.	On clicking the Submit button, provisioning / updating services to various multinumber MSISDN(s) will be carried out and a message window will be displayed to that effect  On clicking the Home button of the message window, it directs the user back to the 'MultiNumber MSISDN(s)' screen
5.	On clicking the Home button, (before provide multiple MSISDN attributing to the subscriber's IMSI) it directs the user to the 'Subscriber Information' main page

MOLR CAPABILITY

'MOLR CAPABILITY' helps the user to provide supplementary service name (allMOLR-SS,basicSelfLocation, and transfer to third party) and SS Status (Non provisioned, provisioned, and Active & Operative) combination to the subscriber. User can modify the

Supplementary Service Name and SS Status. The mapped services (In combination of both) should be unique.

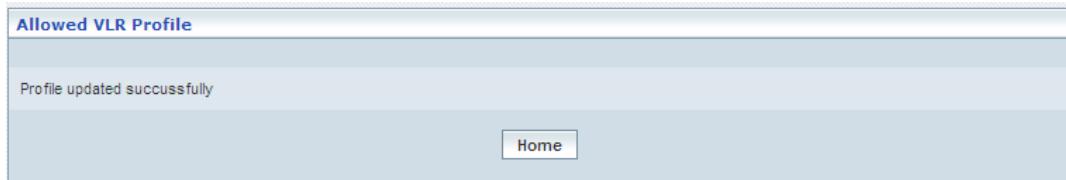
The screenshot shows a user interface for managing MOLR capability. At the top, it says 'MOLR CAPABILITY'. Below that, 'IMSI' is listed as '786000000000012'. There are two dropdown menus: 'Supplementary Service Name' and 'SS Status'. The 'Supplementary Service Name' dropdown has 'Select' and 'allMOLR-SS_Provisioned' options. The 'SS Status' dropdown also has 'Select' and another option. A red vertical bar is positioned to the right of the dropdowns, with a note 'Indicates Mandatory' above it. At the bottom, there are 'Submit' and 'Home' buttons.

STEP	ACTION
1.	IMSI & MSISDN of the chosen subscriber will be dynamically displayed in their respective fields <IMSI> & <MSISDN> fields
2.	Select the supplementary service name the <Supplementary Service Name> field.
3.	Select the SS status the <SS Status> field.
4.	On clicking the right-arrow button, the selected service (as a string) will be moved to the <Text Field> which is on to the right side of the screen However if the user wants to just remove any service, selecting the service from the right text field and subsequently clicking the left-arrow button removes the service.
5.	On clicking the Submit button, MOLR capability is assigned to the subscriber and a message window to that effect will be displayed <p>The message window displays the text 'Assigning MOLR capability to the subscriber successful.' and a single 'Home' button at the bottom.</p>
6.	On clicking the Home button of the message window, it directs the user back to the 'MOLR CAPABILITY' screen

Allowed VLR Profile

Allowed VLR Profile helps the user to provide profile name and available VLR profiles to the subscriber's IMSI to represent discrete services. User can view and modify the VLR profiles. The service is available only when the network access mode is GSM or GSM &GPRS.

Allowed VLR Profile	
IMSI	78600000000012
Profile Name	profiletest
Available VLR Profiles	<input type="text" value="testdemo"/> <input type="button" value="▼"/>
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	IMSI of the chosen subscriber will be dynamically displayed in their respective <IMSI> field
2.	Selected VLR Profile Name will be dynamically displayed in <Profile Name> field
3.	Select the available VLR profile from <Available VLR Profiles> field.
4.	On clicking the Submit button, changes the service profile and a message window will be displayed to that effect  On clicking the Home button of the message window, it directs the user back to the 'Allowed VLR Profile' screen - view
5.	On clicking the Home button, it directs the user to the 'Subscriber Information - View' main page

VPLMN Restriction

VPLMN (Visited Public Land Mobile Network) Restriction module enables the user to manually create and modify/update the VPLMN Restriction details

NOTE: Initially, if the VPLMN Restriction details are not present, then the user is allowed to create a new VPLMN Restriction. If they already exist, then the user is allowed to modify the VPLMN Restriction details.

Create

This section helps the users to create a new VPLMN Restriction.

Create

| Indicates Mandatory

IMSI	786000000000013												
Visiting Network Name	TEST3												
Roaming Status	<input checked="" type="checkbox"/> Home <input checked="" type="checkbox"/> National <input checked="" type="checkbox"/> International												
Visiting Network Camel Support	Phase 4 and less												
Applicable ODB Data (General ODB) <div style="display: flex; justify-content: space-between;"> <div style="flex: 1;"> <input type="checkbox"/> allECT-Barred <input type="checkbox"/> allC-CallsBarred <input type="checkbox"/> allG-CallsBarred <input type="checkbox"/> allPacketOrientedServicesBarred <input type="checkbox"/> chargeableECT-Barred <input type="checkbox"/> doublyChargeableECT-Barred <input type="checkbox"/> internationalECT-Barred </div> <div style="flex: 1;"> <input type="checkbox"/> allOG-CallsBarred </div> </div>													
Subscriber ODB Inclusion	Yes												
GSM Roaming Profile	MobRoamProf												
GPRS Roaming Profile	Select												
SCF Notification Flags													
GSM <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>OCSI Notification Flag</td> <td>True</td> </tr> <tr> <td>OCSI State</td> <td>Active</td> </tr> <tr> <td>TCSI Notification flag</td> <td>True</td> </tr> <tr> <td>TCSI State</td> <td>Active</td> </tr> <tr> <td>UCSI Notification Flag</td> <td>True</td> </tr> <tr> <td>UCSI State</td> <td>Active</td> </tr> </table>		OCSI Notification Flag	True	OCSI State	Active	TCSI Notification flag	True	TCSI State	Active	UCSI Notification Flag	True	UCSI State	Active
OCSI Notification Flag	True												
OCSI State	Active												
TCSI Notification flag	True												
TCSI State	Active												
UCSI Notification Flag	True												
UCSI State	Active												
<input type="button" value="Submit"/> <input type="button" value="Home"/>													

STEP	ACTION
1.	IMSI of the chosen subscriber will be dynamically displayed in their respective <IMSI> field
2.	NOTE: However, if the user wants to create update a new VPLMN Restriction, it can be done in a similar fashion as explained above under the section 'VPLMN Restriction' – VPLMN Restriction (Click this hyperlink)

Modify

This section helps the users to modify the existing VPLMN Restriction details.

VPLMN Restriction				
IMSI	Network Name	Roaming Status	CAMEL Support	Action
786000000000012	TEST	Home-National-International	Phase 4 and less	Modify
1				

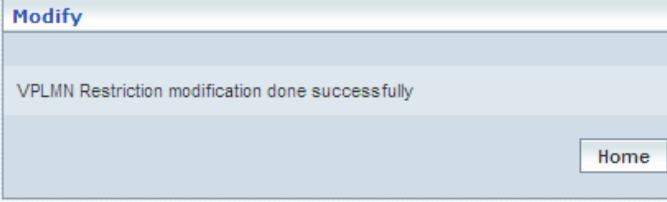
[Home](#)

STEP	ACTION
1.	By default, the list of VPLMN Restriction created will be displayed as records in a grid. The columns include 'IMSI', 'Network Name', 'Roaming Status', 'CAMEL Support' and 'Action'
2.	On clicking the Modify link, 'Modify' screen will be displayed enabling the user to update / change corresponding values (as required) of a chosen VPLMN Restriction
3.	On clicking the Home button at the bottom of the grid, (before modifying VPLM Restriction) it redirects the user to the 'Subscriber Information - View' main page

Modify

Indicates Mandatory

IMSI	786000000000012														
Visiting Network Name	TEST														
Roaming Status	<input checked="" type="checkbox"/> Home <input checked="" type="checkbox"/> National <input checked="" type="checkbox"/> International														
Visiting Network Camel Support	Phase 4 and less														
Applicable ODB Data (General ODB)															
<table border="1"><tr><td>allECT-Barred</td><td>allIIC-CallsBarred</td><td>allOG-CallsBarred</td><td>allPacketOrientedServicesBarred</td><td>chargeableECT-Barred</td><td>doublyChargeableECT-Barred</td><td>internationalECT-Barred</td></tr><tr><td><</td><td> </td><td> </td><td> </td><td> </td><td> </td><td>></td></tr></table>		allECT-Barred	allIIC-CallsBarred	allOG-CallsBarred	allPacketOrientedServicesBarred	chargeableECT-Barred	doublyChargeableECT-Barred	internationalECT-Barred	<						>
allECT-Barred	allIIC-CallsBarred	allOG-CallsBarred	allPacketOrientedServicesBarred	chargeableECT-Barred	doublyChargeableECT-Barred	internationalECT-Barred									
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allPacketOrientedServicesBarred															
<						>									
Subscriber ODB Inclusion	Yes														
GSM Roaming Profile	MobRoamProf														
GPRS Roaming Profile	Select														
SCF Notification Flags															
GSM															
OCSI Notification Flag	True														
OCSI State	Active														
TCSI Notification flag	Select														
TCSI State	Active														
UCSI Notification Flag	Select														
UCSI State	Active														
<input type="button" value="Submit"/> <input type="button" value="Home"/>															

STEP	ACTION
4.	IMSI of the chosen subscriber will be dynamically displayed in their respective <IMSI> field
5.	User can make necessary changes related to VPLMN Restriction
6.	On clicking the Submit button, the changes made will be updated accordingly in the database. A message window will be displayed to that effect 
7.	On clicking the Home button of the message window, it redirects the user to the 'VPLMN Restriction' grid

GSM SoLSA Data

GSM Special Services (SoLSA - Support Of Location Service Area) Data module enables the user to manually modify/update the GSM SoSLA Data details

This section helps the users to modify/update the existing GSM SoSLA Data details.

GSM SoLSA Data

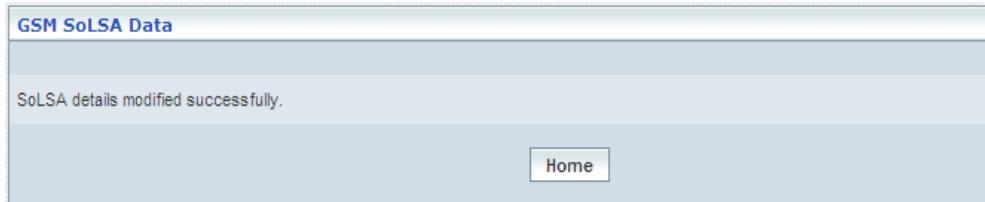
Note: Mapping format
PLMN Name-LSA Name-LSA ID-Priority of the LSA ID-Preferential Access Indicator-LSA Indication for Idle Mode-LSA Indication for Active Mode-Idle Mode Support-Active Mode Support

Indicates Mandatory

IMSI	786000000000012
PLMN Name	India
LSA Details	<ul style="list-style-type: none">IndiLSA1-1IndiLSA2-2IndiLSA4-4IndiLSA3-3IndiLSA5-5sasas-321
Priority of the LSA ID	2
Preferential Access Indicator	Yes
LSA Indication for Idle Mode	Yes
LSA Indication for Active Mode	Yes
Idle Mode Support	Yes
Active Mode Support	Yes
LSA Only Access Indicator	Yes

Submit Home

India-IndiLSA2-2-2-Yes-Yes-Yes-Yes-Yes

STEP	ACTION
1.	IMSI of the chosen subscriber will be dynamically displayed in their respective <IMSI> field
2.	Select the PLMN Name in <PLMN Name> field. NOTE: The selected <PLMN Name> related LSA details are dynamically displayed in <LSA Details> list box
3.	Select the priority of the LSA ID number from <Priority of the LSA ID> drop-down list
4.	Set the preferential access indicator to 'Yes' or 'No' from <Preferential Access Indicator> drop-down list
5.	Set the LSA indication for idle mode to 'Yes' or 'No' from <LSA Indication for Idle Mode> drop-down list
6.	Set the LSA indication for active mode to 'Yes' or 'No' from <LSA Indication for Active Mode> drop-down list
7.	Set the idle mode support to 'Yes' or 'No' from <Idle Mode Support> drop-down list
8.	Set the active mode support to 'Yes' or 'No' from <Active Mode Support> drop-down list
9.	Set the LSA only access indicator to 'Yes' or 'No' from <LSA only access indicator> drop-down list
10.	On clicking  button allows the user to map atleast one LSA configuration to the selected PLMN and it moves to the adjacent field. On clicking  the user can perform un-mapping at least one LSA configuration and vice versa.
11.	On clicking the Submit button, the changes made will be updated accordingly in the database. A message window will be displayed to that effect  <p>On clicking the Home button of the message window, it redirects the user to the 'GSM SoLSA Data' Screen</p>
12.	On clicking the Home button at the bottom, (before modifying GSM SoLSA Data details) it redirects the user to the 'Subscriber Information - View' main page

GSM RSZI

GSM RSZI (RSZI - Regional Subscription Zone Identity) module enables the user to manually modify/update the GSM RSZI details

This section helps the users to modify/update the existing GSM RSZI details.

GSM RSZI Data

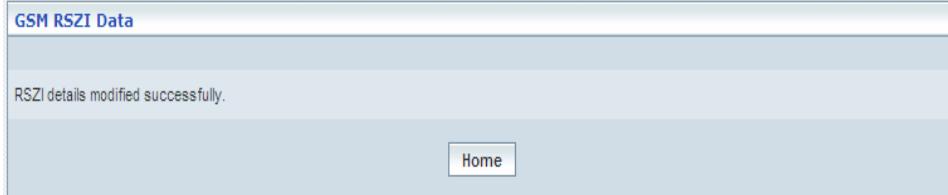
Note: Mapping format
PLMN Name-Zone Name-Zone Code

Indicates Mandatory

IMSI	786000000000012
PLMN Name	TEST12
Zone Code Details	test88-544

Submit Home

Detailed description: The screenshot shows a web-based configuration tool for GSM RSZI. At the top, it says 'GSM RSZI Data'. Below that is a note about mapping format and PLMN names. A red vertical bar on the right indicates mandatory fields. The main area has a table with two rows. The first row has 'IMSI' and '786000000000012'. The second row has 'PLMN Name' and a dropdown menu showing 'TEST12'. Below the table is a 'Zone Code Details' section with a text input field containing 'test88-544'. There are navigation arrows between the table and this section. At the bottom are 'Submit' and 'Home' buttons.

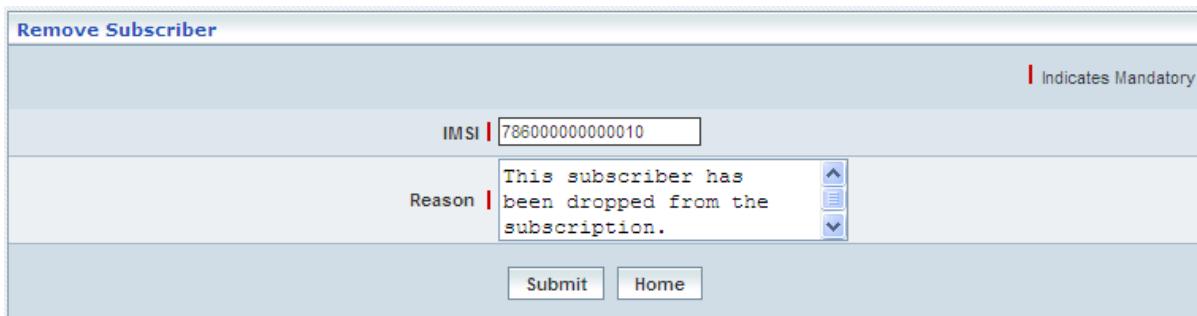
STEP	ACTION
1.	IMSI of the chosen subscriber will be dynamically displayed in their respective <IMSI> field
2.	Select the PLMN Name in <PLMN Name> field. NOTE: The selected <PLMN Name> related Zone Code details are dynamically displayed in <Zone Code Details> list box
3.	On clicking  button allows the user to map at least one Zone Code details configuration to the selected PLMN and it moves to the adjacent field. On clicking  the user can perform un-mapping atleast one Zone Code details configuration and vice versa.
4.	On clicking the Submit button, the changes made will be updated accordingly in the database. A message window will be displayed to that effect  RSZI details modified successfully. Home
5.	On clicking the Home button of the message window, it directs the user back to the 'GSM RSZI Data' Screen

16.17 Remove Subscriber

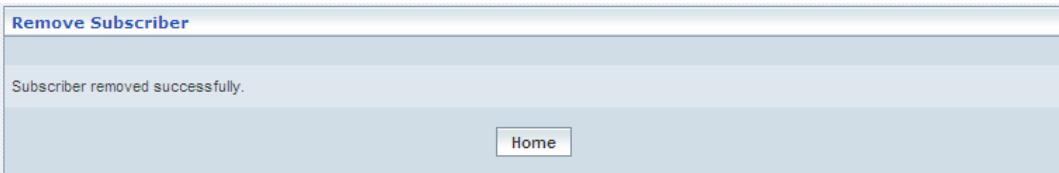
Home Location Register → Subscriber Management → Remove Subscribers

'Remove Subscribers' helps the user removing an individual subscriber (from provisioning the mobile services) each at a time.

The screen below shows removing a subscriber from further provisioning of mobile services.



The screenshot shows the 'Remove Subscriber' interface. At the top, there is a header bar with the title 'Remove Subscriber'. Below the header, there is a mandatory field indicator 'Indicates Mandatory' with a red vertical bar. The first input field is labeled 'IMSI' and contains the value '786000000000010'. To the right of this field is a small text area containing the message: 'This subscriber has been dropped from the subscription.' There are up and down arrows next to this text area, suggesting it's a dropdown or scrollable list. At the bottom of the form are two buttons: 'Submit' and 'Home'.

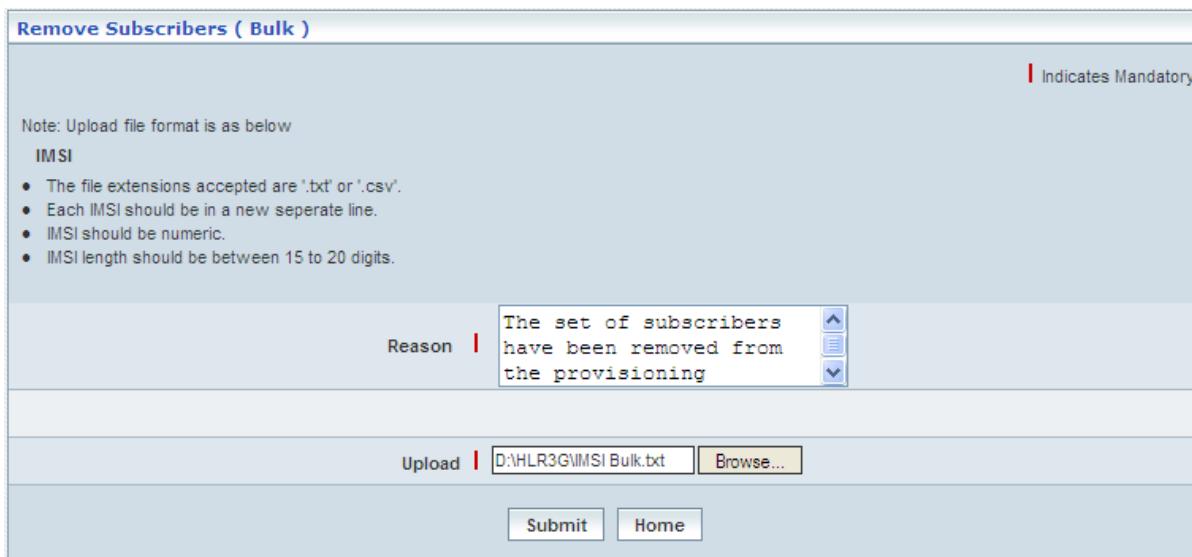
STEP	ACTION
1.	Enter IMSI of the subscriber (who is proposed to be removed) in the <IMSI> field
2.	User can enter a description in the <Reason> text field stating the reason for removal of the subscriber
3.	On clicking the Submit button, a message window will be displayed to that effect  On clicking the Home button of the message window, it directs the user back to the 'Remove Subscriber' Screen
4.	On clicking the Home button (prior to submission of removal), it only redirects the user back to the 'Subscriber Management' main page

16.18 Remove Subscriber (Bulk)

Home Location Register → Subscriber Management → Remove Subscribers (Bulk)

'Remove Subscribers' helps the user removing a set of subscribers (from provisioning the mobile services) in bulk / at a stretch.

The screen below shows removing a set / group of subscribers in bulk (barring) from further provisioning of mobile services.



Remove Subscribers (Bulk)

Note: Upload file format is as below

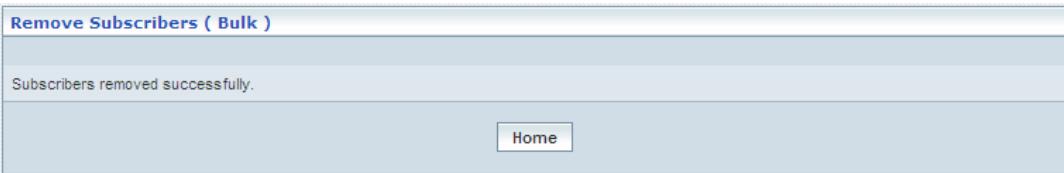
IMSI

- The file extensions accepted are '.txt' or '.csv'.
- Each IMSI should be in a new separate line.
- IMSI should be numeric.
- IMSI length should be between 15 to 20 digits.

Reason | The set of subscribers have been removed from the provisioning

Upload | D:\HLR3GVIMSI Bulk.txt | Browse... |

Submit | Home

STEP	ACTION
1.	User can enter a description in the <Reason> text field stating the reason for removal of subscribers
2.	Browse for a Flat file that consists of a set of IMSI numbers in a specific format and each one starting in a new line
3.	On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload  On clicking the Home button of the message window, it directs the user back to the 'Remove Subscriber (Bulk)' Screen
4.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Subscriber Management' main page

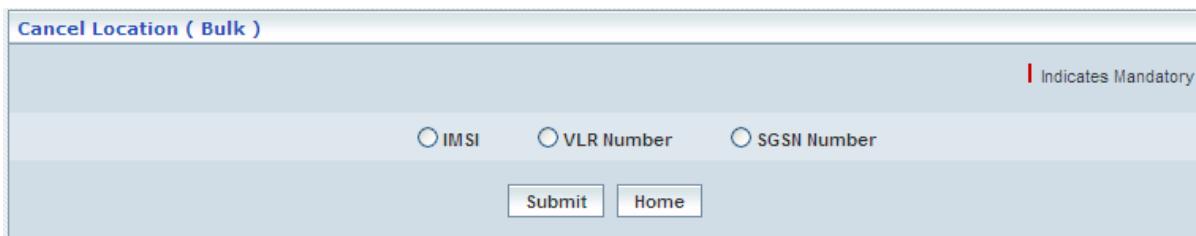
16.19 Cancel Location (Bulk)

Home Location Register → Subscriber Management → Cancel Location (Bulk)

In order to send the details related to 'Cancellation of Location Update' to the respective VLR(s)-(roaming locations) of a group of subscribers at a stretch (in bulk), the corresponding IMSI(s) of the group of subscribers shall be uploaded.

Thus, 'Cancel Location' helps the user uploading a set of subscribers, where the corresponding details related to 'Cancellation of Location Update' shall be sent to their respective VLR(s) – (roaming locations).

The screen below shows Cancel Location (Bulk) window



The screenshot shows a web-based form titled "Cancel Location (Bulk)". At the top right, there is a note: "Indicates Mandatory" with a red exclamation mark icon. Below the title, there are three radio buttons labeled "IMSI", "VLR Number", and "SGSN Number". At the bottom of the form are two buttons: "Submit" and "Home".

IMSI

The screen below shows uploading a set / group of subscribers in bulk for IMSI

Note: Upload file format is as below

IMSI

- The file extensions accepted are '.txt' or '.csv'.
- Each IMSI should be in a new separate line.
- IMSI should be numeric.
- IMSI length should be between 15 to 20 digits.

Indicates Mandatory

IMSI VLR Number SGSN Number

Upload D:\HLR3G\imsi.txt Browse...

Submit Home

STEP	ACTION
1.	Select the IMSI radio button
2.	Browse for a Flat file that consists of a set of IMSI numbers in a specific format and each one starting in a new line
3.	On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload <p>Cancel Location upload successful.</p> <p>Home</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Cancel Location (Bulk)' Screen</p>
4.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Subscriber Management' main page

VLR Number

The screen below shows uploading a set / group of subscribers in bulk for VLR Number

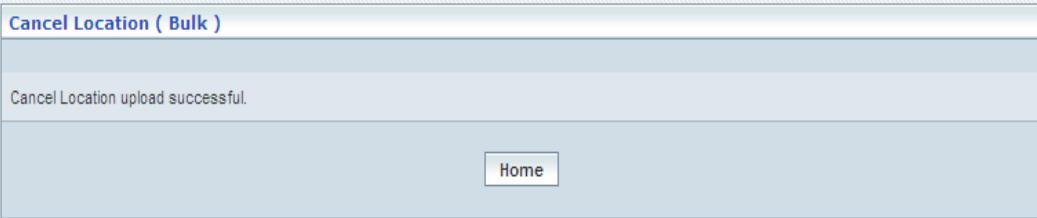
Note: Upload file format is as below
VLR Number

- The file extensions accepted are '.txt' or '.csv'.
- Each VLR Number should be in a new separate line.
- VLR Number should be numeric.
- VLR Number length should be between 1 to 20 digits.

Indicates Mandatory

Upload | D:\HLR3G\vlr.txt | Browse...

Submit | Home

STEP	ACTION
1.	Select the VLR Number radio button
2.	Browse for a Flat file that consists of a set of IMSI numbers in a specific format and each one starting in a new line
3.	On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload  On clicking the Home button of the message window, it directs the user back to the 'Cancel Location (Bulk)' Screen
4.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Subscriber Management' main page

SGSN Number

The screen below shows uploading a set / group of subscribers in bulk for SGSN Number

Note: Upload file format is as below
VLR Number

- The file extensions accepted are '.txt' or '.csv'.
- Each VLR Number should be in a new separate line.
- VLR Number should be numeric.
- VLR Number length should be between 1 to 20 digits.

Indicates Mandatory

IMSI VLR Number SGSN Number

Upload | D:\HLR3G\vlr.txt | Browse...

Submit | Home

STEP	ACTION
1.	Select the SGSN Number radio button
2.	Browse for a Flat file that consists of a set of IMSI numbers in a specific format and each one starting in a new line
3.	On clicking the Submit button, a message window to that effect will be displayed confirming the successful upload <p>Cancel Location upload successful.</p> <p>Home</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Cancel Location (Bulk)' Screen</p>
4.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Subscriber Management' main page

17 Roaming Management

[Home Location Register → Roaming Management](#)

Roaming Management administers and streamlines the information related to subscribers' roaming provisions. This module also enables the user to define roaming limitations and restrictions.

This Module maintains the details related to following roaming provisions:

- Subscriber Roaming
- VPLMN Configuration
- VPLMN Restriction
- Restricted VLR(s)
- Restricted SGSN(s)
- Allowed VLR(s)
- Allowed SGSN(s)
- Change Allowed VLR/SGSN (Bulk)

17.1 Subscriber Roaming

[Home Location Register → Roaming Management → Subscriber Roaming](#)

'Subscriber Roaming' here in this context is the roaming facility that was provisioned to the given subscriber and this sub-module also allows the user to obtain the subscriber's current roaming status & eligibility options to subsequently update his / her roaming status.

The screen below shows entering an IMSI related to a subscriber in order to obtain his / her current roaming status and eligibility.

Subscriber Roaming

Indicates Mandatory

IMSI | 786000000000012

Submit Home

STEP	ACTION
1.	Enter an IMSI (number) in the <IMSI> field in order to check for the subscriber's current roaming status and eligibility
2.	On clicking the Submit button, it displays details related to subscriber's current roaming status and eligibility in a different screen
3.	On clicking the Home button (prior to the submission of IMSI), it only redirects the user back to the 'Roaming Management' main page

The screen below shows the roaming status and eligibility related to the given subscriber.

Subscriber Roaming	
IMSI	786000000000012
GSM Roaming Status	<input style="width: 100px; height: 20px; border: 1px solid black; padding: 2px;" type="button" value="National"/> <input style="width: 20px; height: 20px; border: 1px solid black; padding: 2px;" type="button" value="▼"/>
<input style="margin-right: 10px;" type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION						
1.	<p>By default the current status will be dynamically highlighted & displayed in the <Roaming Status> field</p> <p>The list of eligibility roaming options (for the given subscriber) will be dynamically displayed as a drop-down list of the <Roaming Status> field</p>						
2.	<p>User can update the subscriber's roaming status by selecting the desired option (Not Allowed / National / International) from the drop-down list and subsequently by clicking the Submit button, the subscriber's roaming status will be updated</p> <p>A message window to that effect will be displayed</p> <table border="1" style="margin-top: 10px;"> <thead> <tr> <th colspan="2">Subscriber Roaming</th> </tr> </thead> <tbody> <tr> <td colspan="2">Subscriber Roaming details updated successfully</td> </tr> <tr> <td colspan="2" style="text-align: center;"> <input type="button" value="Home"/> </td> </tr> </tbody> </table> <p>On clicking the Home button of the message window, it directs the user back to the 'Subscriber Roaming' screen</p>	Subscriber Roaming		Subscriber Roaming details updated successfully		<input type="button" value="Home"/>	
Subscriber Roaming							
Subscriber Roaming details updated successfully							
<input type="button" value="Home"/>							
3.	<p>On clicking the Home button (prior to update the roaming status), it only redirects the user back to the 'Roaming Management' screen</p>						

17.2 VPLMN Configuration

[Home Location Register](#) → [Roaming Management](#) → [VPLMN Configuration](#)

VPLMN (Visited Public Land Mobile Network) Configuration module enables the user to manually configure VPLMN with the following Numbering Plans:

- ◆ NANP: North American Numbering Plan (Explicitly meant for North America)
- ◆ E164: This term covers any other Numbering Plans other than US & Canada Numbering Plans

The details related to NANP Numbering Plan includes Visiting Network Name, CC (Country Code), Area Code, NXX and Station Code.

The details related to E164 Numbering Plan includes Visiting Network Name, CC (Country Code), NDC and Station Code.

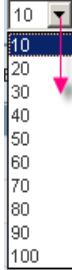
This module helps the user performing the following actions:

- ◆ Create
- ◆ Upload
- ◆ View
- ◆ Modify
- ◆ Delete

The screen below displays existing VPLMN Configuration details of both the Numbering Plans.

VPLMN Configuration					
Search		Select Column	Go	View Per Page 10	
		Create	Upload	1 2	
Visiting Network Name		Network Type	Action		
65		NANP	View Modify Delete		
ABC		NANP	View Modify Delete		
ABCD		E164	View Modify Delete		
DEMO		NANP	View Modify Delete		
DEMO3		NANP	View Modify Delete		
SAUDI		E164	View Modify Delete		
TEST		NANP	View Modify Delete		
TEST12		E164	View Modify Delete		
TEST3		NANP	View Modify Delete		
TEST4		NANP	View Modify Delete		

Actions: Create | Upload | Home | Page 1 2

STEP	ACTION
1.	By default, the list of VPLMN Configuration will be displayed as records in a grid. The columns include 'Visiting Network Name', 'Network Type' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
2	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new VPLMN Configuration based on Numbering Plans, such as 'NANP' and 'E164'
3.	On clicking the Upload button, 'Upload' screen will be displayed enabling the user to browse and locate the '.txt' or '.csv' file and upload
4.	On clicking the View link, 'View' screen will be displayed enabling the user to view the corresponding values (as required) of a chosen Numbering Plans.
5.	On clicking the Modify link, 'Modify' screen will be displayed enabling the user to update / change corresponding values (as required) of a chosen Numbering Plans.
6.	On clicking the Delete link, 'Delete' screen will be displayed enables the user to delete the same
7.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Roaming Management' main page

Create

Create enables the user to configure the VPLMN with the NANP and E164 Numbering Plans.

Create - NANP

The screen below shows creating a new VPLMN with NANP

The screenshot shows a 'Create' screen with a header 'Create'. Below it are two radio buttons: 'NANP' (selected) and 'E164'. A red vertical bar to the right of the radio buttons indicates mandatory fields. At the bottom are 'Submit' and 'Home' buttons.

STEP	ACTION
1.	Select the desired radio option to choose a Numbering Plan, Ex: NANP
2.	The corresponding details will be displayed. The user must enter the required details in their respective fields

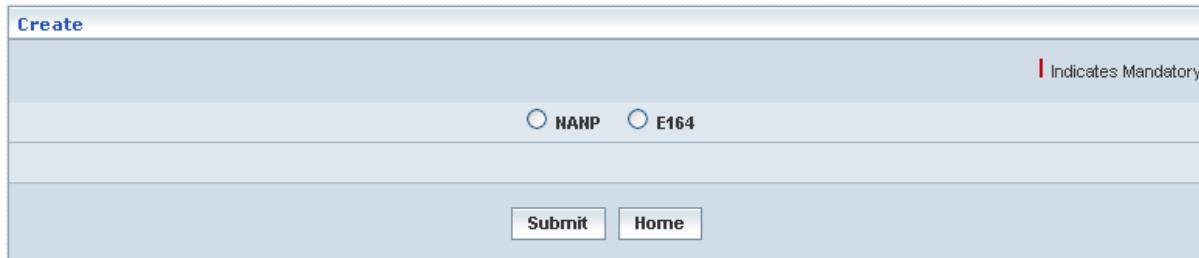
The screen below shows entering details related to NANP Numbering Plan.

The screenshot shows a 'Create' screen for NANP. It includes fields for 'Visiting Network Name' (TestDemo), 'CC' (1), 'Area Code' (434), 'NXX' (435), 'Station Code' (3134), and a large text area for 'Number' containing '14344353134'. Below are 'Submit' and 'Home' buttons. A red vertical bar to the left of the 'Visiting Network Name' field indicates a mandatory field.

STEP	ACTION
3.	Enter the Visiting Network Name in <Visiting Network Name> field. NOTE: By default, the CC (Country Code) is 1 (one) for the NANP
4.	Select the Area Code from <Area Code> field.
5.	Enter the NXX digit of the NANP directory number in <NXX> field
6.	Enter the Station Code in <Station Code> field
7.	Click  button to map VLR NUMBER combination, it moves to the adjust field. Click  button to remove from mapping the VLR NUMBER combination.
8.	On clicking Submit button, the new VPLMN related to NANP will be created and added to the existing list. A message window will be displayed to that effect.  On clicking Home button of the message window, it redirects the user to the 'VPLMN Configuration' records grid
9.	On clicking Home button at the bottom of the 'Create' Screen (before creating a new VPLMN), it redirects the user to the 'VPLMN Configuration' records grid

Create – E164

The screen below shows creating a new VPLMN with E164



This screenshot shows the 'Create' screen for a new VPLMN. At the top, there is a 'Create' button. Below it, there is a note: 'Indicates Mandatory' with a red vertical bar icon. Underneath, there are two radio buttons: 'NANP' and 'E164'. At the bottom of the screen are two buttons: 'Submit' and 'Home'.

STEP	ACTION
1.	Select the desired radio option to choose a Numbering Plan, Ex: E164
2.	The corresponding details will be displayed. The user must enter the required details in their respective fields

The screen below shows entering details related to E164 Numbering Plan.

The screenshot shows the 'Create' screen for a Home Location Register. At the top, there are two radio buttons: 'NANP' (unchecked) and 'E164' (checked). A red vertical bar indicates that the 'Visiting Network Name' field is mandatory. The 'Visiting Network Name' field contains 'testdd1'. Below it, the 'CC' field is set to 'FRANCE-33'. The 'NDC' field contains '1111'. The 'Station Code' field contains '453434'. To the right of these fields is a mapping table with one row. The first column of the table contains the value '331111453434'. The 'Submit' and 'Home' buttons are located at the bottom of the screen.

STEP	ACTION
3.	Enter the Visiting Network Name in <Visiting Network Name> field.
4.	Select the CC (Country Code) <CC> field.
5.	Enter the NDC (National Destination Code) digit of the E164 in <NDC> field
6.	Enter the Station Code in <Station Code> field
7.	Click button to map VLR NUMBER combination, it moves to the adjust field. Click button to remove from mapping the VLR NUMBER combination.
8.	<p>On clicking Submit button, the new VPLMN related to E164 will be created and added to the existing list. A message window will be displayed to that effect.</p> <p>On clicking Home button of the message window, it redirects the user to the 'VPLMN Configuration' records grid</p>
9.	On clicking Home button at the bottom of the 'Create' Screen (before creating a new VPLMN), it redirects the user to the 'VPLMN Configuration' records grid

Upload

Upload enables the user to upload the VPLMN Configuration file format (such as '.txt' or '.csv') by clicking **Upload** button; corresponding information related to uploading the VPLMN Configuration details will be displayed in a separate screen enabling the user to upload the same.

The screen below shows the uploading of VPLMN Configuration file.

Upload

Note: Upload file format is as below
for NANP: CC,AreaCode,NXX,StationCode
for E164: CC,NDC,StationCode

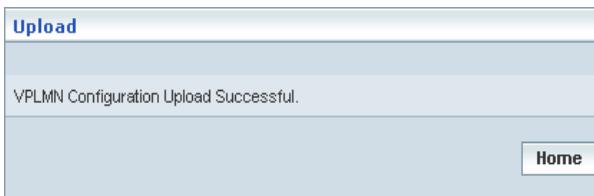
- The file extensions accepted are 'txt' or 'csv'.
- Each record should be in a new separate line.
- Country Code is numeric and length should not be greater than 3.
- NDC is numeric and length should not be greater than 4.
- Area Code is numeric, length should not be greater than 3 and should be configured one.
- NXX is numeric, length should not be greater than 3.
- NDC,Area Code,NXX, StationCode are not mandatory, Please provide comma (,) if the fields are not provided.
- VLR Number(CC + NDC/AreaCode + [NXX] + StationCode) length should not be greater than 20.
- If NANP is selected country code should be 1.
- If E164 is selected country code should not be 1.

NANP E164

Visiting Network Name | TestDemot

Upload | C:\Documents and Settings\ | Browse...

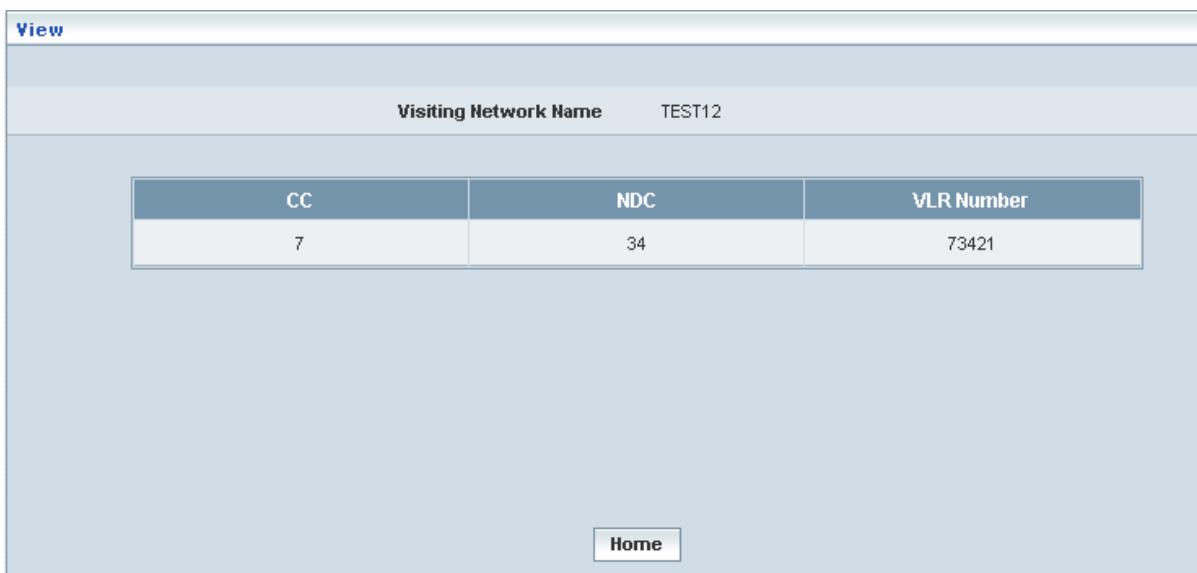
Submit | Home

STE P	ACTION
1.	Select the desired radio option to choose a Numbering Plan, Ex: NANP or E164
2.	Enter the Visiting Network Name in the <Visiting Network Name> field
3.	<p>Click Browse button to upload the file.</p> <p>NOTE: The creation of file format for NANP and E164 related information are displayed in Note: section in the 'Upload' Screen</p>
4.	<p>On clicking the Submit button, the file gets uploaded and it will be updated accordingly in the database. A message window will be displayed to that effect</p>  <p>On clicking the Home button of the message window, it redirects the user to the 'Upload' Screen</p>
5.	On clicking the Home button at the bottom of the 'Upload' screen (before submission), it redirects to the 'VPLMN Configuration' grid

[View](#)

On clicking the '**View**' link of a chosen 'VPLMN Configuration' (from the VPLMN Configuration List); corresponding information related to the VPLMN Configuration will be displayed in a separate screen enabling the user to peruse details of the same.

The screen below shows the view of a chosen VPLMN Configuration.



Visiting Network Name TEST12		
CC	NDC	VLR Number
7	34	73421

STEP	ACTION
1.	'Visiting Network Name', 'CC', 'NDC' and 'VLR Number' will be dynamically displayed in their respective fields
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'VPLMN Configuration' records grid

Modify

On clicking the '**Modify**' link of a chosen 'VPLMN Configuration' (from the VPLMN Configuration List); corresponding information related to the VPLMN Configuration will be displayed in a separate screen enabling the user to modify details of the same.

The screen below shows modifying / updating an existing VPLMN Configuration for NANP

Indicates Mandatory

NANP E164

Visiting Network Name TEST

CC 1

Area Code Select

NXX

Station Code

1232222123

Submit Home

The screen below shows modifying / updating an existing VPLMN Configuration for E164

Indicates Mandatory

NANP E164

Visiting Network Name TEST12

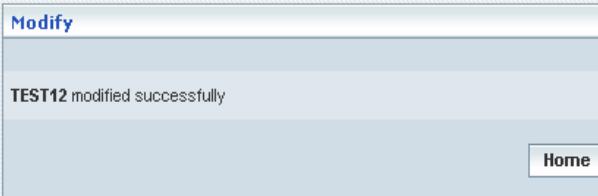
CC | Select

NDC

Station Code

73421

Submit Home

STEP	ACTION
1.	User can make necessary changes related to VPLMN Configuration for NANP as (Area code, NXX, Station) and VPLMN Configuration for E164 as (CC, NDC and Station Code) and finally map to VLR NUMBER combination
2.	On clicking the Submit button, the changes made will be updated accordingly in the database. A message window will be displayed to that effect NOTE: If an Area Code has already been assigned to a HLR Address, the same cannot be modified 
3.	On clicking the Home button of the message window, it redirects the user to the 'VPLMN Configuration' grid

Delete

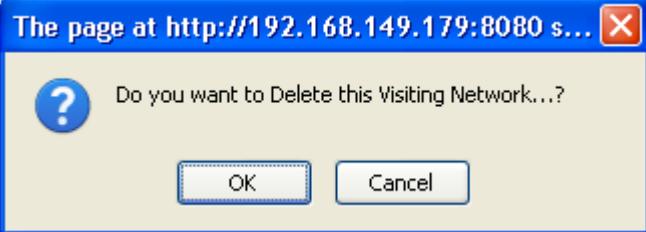
On clicking the '**Delete**' link of a chosen 'VPLMN Configuration' (from the VPLMN Configuration List); corresponding information related to the VPLMN Configuration will be displayed in a separate screen enabling the user to delete details of the same.

The screen below shows deleting an existing VPLMN Configuration.



Visiting Network Name	DEMO	
CC	Area Code	VLR Number
1	563	15635325

Delete **Home**

STEP	ACTION
1.	<p>On clicking the Delete button, an alert message window will be displayed enabling the user to confirm deletion of the chosen VPLMN Configuration</p> 
2.	<p>On clicking the OK button of the alert message window, the chosen VPLMN Configuration will be deleted and a message window will be displayed to that effect. It will be disappeared from the 'VPLMN Configuration' grid</p>  <p>On clicking the Home button of the message window, it directs the user to 'PLMN Area Configuration' grid</p> <p>On clicking the Cancel button of the alert message window, it retains the grid without deleting the VPLMN Configuration record</p>
3.	<p>On clicking the Home button at the bottom of the 'Delete' screen (before submission), it redirects to the VPLMN Configuration' grid</p>

Searching for a specific VPLMN Configuration (Record)



STEP	ACTION
1.	<p>Select a search criterion (Visiting Network Name) from the drop-down list of the search criteria of the <Search> field</p> <p>* By default the list of search criterion (Visiting Network Name) will be dynamically displayed as drop-down list of the <Search> field</p>
2.	Enter the Visiting Network Name that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding VPLMN Configuration (record) will be highlighted among the list of VPLMN Configuration records.

The screen below depicts fetching and displaying the give VPLMN Configuration record.

VPLMN Configuration					
Search		Select Column	Go	View Per Page 10	
		Create	Upload	1 2	
Visiting Network Name		Network Type	Action		
65		NANP	View Modify Delete		
ABC		NANP	View Modify Delete		
ABCD		E164	View Modify Delete		
DEMO3		NANP	View Modify Delete		
EWE		NANP	View Modify Delete		
SAUDI1		E164	View Modify Delete		
TEST		NANP	View Modify Delete		
TEST12		E164	View Modify Delete		
TEST3		NANP	View Modify Delete		
TEST4		NANP	View Modify Delete		

Create		Upload	1 2
--------	--	--------	-----

Home

17.3 VPLMN Restriction

[Home Location Register](#) → [Roaming Management](#) → [VPLMN Restriction](#)

VPLMN (Visited Public Land Mobile Network) Restriction module enables the user to manually perform the following actions:

- ◆ Create
- ◆ Upload
- ◆ View
- ◆ Modify
- ◆ Delete
- ◆ Search

The screen below displays existing VPLMN Restriction details

VPLMN Restriction				
Search <input type="button" value="Select Column"/> <input type="text"/> <input type="button" value="Go"/>		View Per Page <input type="button" value="10"/>		
<input type="button" value="Create"/> <input type="button" value="Upload"/>		1 2		
IMSI	Network Name	Roaming Status	CAMEL Support	Action
78690157	SAUDI1	Home-National-International	Phase 4 and less	View Modify Delete
78600123456	ABC	Home-National-International	Phase 4 and less	View Modify Delete
7860012345	TEST	Home-National-International	Phase 1 and less	View Modify Delete
7860008888814502	TEST3	Home-National-International	Phase 4 and less	View Modify Delete
7869015	EWE	Home-National-International	Phase 4 and less	View Modify Delete
7869015757	TEST3	Home-National-International	Phase 1 and less	View Modify Delete
78600123457	TESTDD1	Home-National-International	Phase 4 and less	View Modify Delete
78600123458	SAUDI1	Home-National-International	Phase 2 and less	View Modify Delete
786901575	TESTDEMOT	Home-National-International	Phase 4 and less	View Modify Delete
786001234568	TEST	Home-National-International	Phase 4 and less	View Modify Delete

1 2

STEP	ACTION
1.	By default, the list of VPLMN Restriction will be displayed as records in a grid. The columns include 'IMSI', 'Network Name', 'Roaming Status', 'CAMEL Support' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new VPLMN Restriction
4.	On clicking the Upload button, 'Upload' screen will be displayed enabling the user to browse and locate the '.txt' or '.csv' file and upload
5.	On clicking the View link, 'View' screen will be displayed enabling the user to view the corresponding values (as required) of a chosen VPLMN Restriction
6.	On clicking the Modify link, 'Modify' screen will be displayed enabling the user to update / change corresponding values (as required) of a chosen VPLMN Restriction
7.	On clicking the Delete link, 'Delete' screen will be displayed enables the user to delete the same
8.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Roaming Management' main page

Create

On clicking the **Create** button; the 'Create' Screen displays, which enable the user to create a new VPLMN Restriction.

The screen below shows creating a new VPLMN Restriction.

Create

Indicates Mandatory

IMSI	78600123455
Visiting Network Name	TEST3
<input checked="" type="checkbox"/> Home <input checked="" type="checkbox"/> National <input checked="" type="checkbox"/> International	
Roaming Status	
Visiting Network Camel Support	Phase 2 and less
Applicable ODB Data (General ODB) <div style="display: flex; justify-content: space-between;"> <div style="flex: 1;"> <p>allECT-Barred allC-CallsBarred allG-CallsBarred allPacketOrientedServicesBarred chargeableECT-Barred doublyChargeableECT-Barred internationalECT-Barred</p> </div> <div style="flex: 1;"> <p>allPacketOrientedServicesBarred</p> </div> </div>	
Services Barred	
Subscriber ODB Inclusion	Yes
GSM Roaming Profile	MobRoamProf
GPRS Roaming Profile	Select
SCF Notification Flags	
GSM	
OCSI Notification Flag	True
OCSI State	Active
TCSI Notification flag	True
TCSI State	Active
UCSI Notification Flag	True
UCSI State	Active

STEP	ACTION
1.	User must enter the details for creating VPLMN Configuration where it is a mandatory information  Indicates Mandatory
2.	Enter IMSI (International Mobile Subscriber Identity) number in <IMSI> field. NOTE: IMSI should start with the configured series (such as 78600 and 78690)
3.	Select Visiting Network Name from <Visiting Network Name> drop-down list.
4.	Select at least one roaming status (such as 'Home', 'National' and 'International) by selecting the checkbox(s) next to it. It is mandatory field.
5.	Select Visiting Network Camel Support phase from <Visiting Network Camel Support> field
6.	Select at least one Applicable ODB (Operator Determined Barring) service from <Applicable ODB Data (General ODB)> field and it should be barred by clicking  button, it moves to the adjacent <Services Barred> field. The user can unbarred the same by clicking  button. NOTE: Select at least one Applicable ODB Service to be barred or select GSM/GPRS Roaming Profile.
7.	Select Subscriber ODB Inclusion or Exclusion by selecting 'Yes' or 'No' from <Subscriber ODB Inclusion> drop-down list
8.	Select GSM Roaming Profile type from <GSM Roaming Profile> drop-down list. MobRoamProf – appears . RoamingTest1212 - disappear NOTE: 'SCF Notification Flags' – GSM Panel appears and vice versa.
9.	Select GPRS Roaming Profile type from <GPRS Roaming Profile> drop-down list.
SCF Notification Flags	
10.	Set OCSI Notification Flag to 'True' or 'False' from <OCSI Notification Flag> drop-down list.
11.	Set OCSI State to 'Active' or 'Inactive' from <OCSI State> drop-down list.
12.	Set TCSI Notification Flag to 'True' or 'False' from <TCSI Notification Flag> drop-down list.
13.	Set TCSI State to 'Active' or 'Inactive' from <TCSI State> drop-down list.
14.	Set UCSI Notification Flag to 'True' or 'False' from <UCSI Notification Flag> drop-down list.
15.	Set UCSI State to 'Active' or 'Inactive' from <UCSI State> drop-down list.

16.	<p>On clicking Submit button, the new VPLMN Restriction will be created and added to the existing list. A message window will be displayed to that effect.</p>  <p>On clicking Home button of the message window, it redirects the user to the 'VPLMN Restriction' records grid</p>
17.	<p>On clicking Home button at the bottom of the 'Create' Screen (before creating a new VPLMN Restriction), it redirects the user to the 'VPLMN Restriction' records grid</p>

Upload

Upload enables the user to upload the VPLMN Restriction file format (such as '.txt' or '.csv') by clicking **Upload** button; corresponding information related to uploading the VPLMN Restriction details will be displayed in a separate screen enabling the user to upload the same.

The screen below shows the uploading of VPLMN Restriction file.

Upload

Note: Upload file format is as below
for **IMSI, ROAMING STATUS, CAMEL_SUPPORT, APPLICABLE ODB, ODB_INCLUSION**

- The file extensions accepted are '.txt' or '.csv'.
- Each record should be in a new separate line.
- IMSI is numeric, can be partial or absolute and length should not be greater than 20.
- IMSI is non mandatory, Please provide comma (,) if the fields are not provided.
- IMSI should start with configured series if provided.
- ROAMING STATUS is numeric and possible values are 1 to 7 (1/Home), 2(National), 4(International) and any combinations of these values).
- CAMEL_SUPPORT is numeric and possible values are 1(No Camel), 3(Phase 1 and less), 7(Phase 2 and less), 15(Phase 3 and less), 31(Phase 4 and less).
- Either Subscriber Roaming Profile should be selected or APPLICABLE ODB should be provided(APPLICABLE ODB is numeric and value should be already configured.)
- Please provide empty field if APPLICABLE ODB is not provided.
- ODB_INCLUSION is numeric and possible values are 1(Yes) or 0(No).

Visiting Network Name	TESTDEMO
GSM Roaming Profile	MobRoamProf
GPRS Roaming Profile	Select
Upload	C:\Documents and Settings\Browse...

SCF Notification Flags

GSM

OCSI Notification Flag	True
OCSI State	Active
TCSI Notification flag	True
TCSI State	Active
UCSI Notification Flag	True
UCSI State	Active

Submit **Home**

STEP	ACTION
1.	Select Visiting Network Name from <Visiting Network Name> drop-down list
2.	Select GSM Roaming Profile from <GSM Roaming Profile> drop-down list NOTE: 'SCF Notification Flags' – GSM Panel appears and vice versa.
3.	Select GPRS Roaming Profile from <GPRS Roaming Profile> drop-down list
4.	Click Browse button to upload the file. NOTE: The creation of file format for VPLMN Restriction related information are displayed in Note: section in the 'Upload' Screen
SCF Notification Flags	
5.	Set OCSI Notification Flag to 'True' or 'False' from <OCSI Notification Flag> drop-down list.
6.	Set OCSI State to 'Active' or 'Inactive' from <OCSI State> drop-down list.
7.	Set TCSI Notification Flag to 'True' or 'False' from <TCSI Notification Flag> drop-down list.
8.	Set TCSI State to 'Active' or 'Inactive' from <TCSI State> drop-down list.
9.	Set UCSI Notification Flag to 'True' or 'False' from <UCSI Notification Flag> drop-down list.
10.	On clicking the Submit button, the file gets uploaded and it will be updated accordingly in the database. A message window will be displayed to that effect  On clicking the Home button of the message window, it redirects the user to the 'Upload' Screen
11.	On clicking the Home button at the bottom of the 'Upload' screen (before submission), it redirects to the 'VPLMN Restriction' grid

View

On clicking the '**View**' link of a chosen 'VPLMN Restriction' (from the VPLMN Restriction List); corresponding information related to the VPLMN Restriction will be displayed in a separate screen enabling the user to peruse details of the same.

The screen below shows the view of a chosen VPLMN Restriction.

View													
IMSI	78690157												
Visiting Network Name	SAUDI												
Roaming Status	Home-National-International												
Visiting Network Camel Support	Phase 4 and less												
Applicable ODB Data (General ODB) <div style="border: 1px solid black; height: 100px; width: 100%;"></div>													
Subscriber ODB Inclusion	Yes												
GSM Roaming Profile	MobRoamProf												
GPRS Roaming Profile	-												
SCF Notification Flags													
GSM <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33.33%; padding: 2px;">OCSI Notification Flag</td> <td style="width: 33.33%; padding: 2px;">True</td> <td style="width: 33.33%; padding: 2px;">OCSI State</td> <td style="width: 33.33%; padding: 2px;">Active</td> </tr> <tr> <td style="padding: 2px;">TCSI Notification flag</td> <td style="padding: 2px;">True</td> <td style="padding: 2px;">TCSI State</td> <td style="padding: 2px;">Active</td> </tr> <tr> <td style="padding: 2px;">UCSI Notification Flag</td> <td style="padding: 2px;">True</td> <td style="padding: 2px;">UCSI State</td> <td style="padding: 2px;">Active</td> </tr> </table>		OCSI Notification Flag	True	OCSI State	Active	TCSI Notification flag	True	TCSI State	Active	UCSI Notification Flag	True	UCSI State	Active
OCSI Notification Flag	True	OCSI State	Active										
TCSI Notification flag	True	TCSI State	Active										
UCSI Notification Flag	True	UCSI State	Active										
<input type="button" value="Home"/>													

STEP	ACTION
1.	'IMSI', 'Visiting Network Name', 'Roaming Status', 'Visiting Network Camel Support', 'Subscriber ODB Inclusion', 'GSM Roaming Profile' and 'SCF Notification Flags' data will be dynamically displayed in their respective fields
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'VPLMN Restriction' Screen

Modify

On clicking the '**Modify**' link of a chosen 'VPLMN Restriction' (from the VPLMN Restriction List); corresponding information related to the VPLMN Restriction will be displayed in a separate screen enabling the user to modify details of the same.

The screen below shows modifying / updating an existing VPLMN Restriction

Modify	
Indicates Mandatory	
IMSI	78690157
Visiting Network Name	SAUDI
<input checked="" type="checkbox"/> Home <input checked="" type="checkbox"/> National <input checked="" type="checkbox"/> International	
Visiting Network Camel Support	Phase 4 and less
Applicable ODB Data (General ODB) <div style="display: flex; align-items: center;"> <div style="flex: 1;"> <div style="border: 1px solid #ccc; padding: 5px; height: 150px; overflow-y: scroll;"> allECT-Barred allC-CallsBarred allOG-CallsBarred allPacketOrientedServicesBarred chargeableECT-Barred doublyChargeableECT-Barred internationalECT-Barred </div> <div style="margin-left: 10px;"> < > </div> </div> <div style="margin-left: 20px;"> Services Barred <div style="border: 1px solid #ccc; padding: 5px; height: 150px; overflow-y: scroll;"></div> <div style="margin-top: 10px;"> < > </div> </div> </div>	
Subscriber ODB Inclusion	Yes
GSM Roaming Profile	MobRoamProf
GPRS Roaming Profile	Select
SCF Notification Flags	
GSM	
OCSI Notification Flag	True
OCSI State	Active
TCSI Notification flag	True
TCSI State	Active
UCSI Notification Flag	True
UCSI State	Active
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

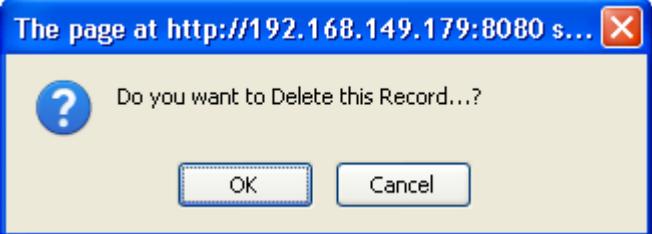
STEP	ACTION
1.	User can make necessary changes related to VPLMN Restriction ('IMSI', 'Visiting Network Name', 'Roaming Status', 'Visiting Network Camel Support', mapping of at least one 'Applicable ODB Data (General ODB) with 'Services Board', and selecting of other data such as 'Subscriber ODB Inclusion', 'GSM Roaming Profile', 'GPRS Roaming Profile' and data related to 'SCF Notification Flags'.
2.	On clicking the Submit button, the changes made will be updated accordingly in the database. A message window will be displayed to that effect  On clicking the Home button of the message window, it redirects the user to the 'VPLMN Restriction' Screen
3.	On clicking the Home button at the bottom of the 'Modify' Screen (before submission), it redirects to the 'VPLMN Restriction' Screen

Delete

On clicking the '**Delete**' link of a chosen 'VPLMN Restriction' (from the VPLMN Restriction List); corresponding information related to the VPLMN Restriction will be displayed in a separate screen enabling the user to delete details of the same.

The screen below shows deleting an existing VPLMN Restriction

Delete			
IMSI	78690157		
Visiting Network Name	SAUDI		
Roaming Status	Home-National-International		
Visiting Network Camel Support	Phase 4 and less		
Applicable ODB Data (General ODB)			
			
Subscriber ODB Inclusion	Yes		
GSM Roaming Profile	MobRoamProf		
GPRS Roaming Profile	-		
SCF Notification Flags			
GSM			
OCSI Notification Flag	True	OCSI State	Active
TCSI Notification flag	True	TCSI State	Active
UCSI Notification Flag	True	UCSI State	Active
Delete Home			

STEP	ACTION
1.	<p>On clicking the Delete button, an alert message window will be displayed enabling the user to confirm deletion of the chosen VPLMN Restriction</p> 
2.	<p>On clicking the OK button of the alert message window, the chosen VPLMN Restrictions details will be deleted and a message window will be displayed to that effect. It will be disappeared from the 'VPLMN Restriction' grid.</p>  <p>On clicking the Home button of the message window, it directs the user to 'VPLMN Restriction' Screen</p> <p>On clicking the Cancel button of the alert message window, it retains the grid without deleting the 'VPLMN Restriction' record</p>
3.	<p>On clicking the Home button at the bottom of the 'Delete' screen (before submission), it redirects to the 'VPLMN Restriction' Screen</p>

Searching for a specific VPLMN Restriction (Record)



STEP	ACTION
1.	<p>Select a search criterion (IMSI) from the drop-down list of the search criteria of the <Search> field</p> <p>* By default the list of search criterion (IMSI) will be dynamically displayed as drop-down list of the <Search> field</p>
2.	Enter the IMSI that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding VPLMN Restriction (record) will be highlighted among the list of VPLMN Restriction records.

The screen below depicts fetching and displaying the give VPLMN Restriction record.

VPLMN Restriction					
Search		Select Column	Go	View Per Page 10	
		Create	Upload	1 2	
IMSI	Network Name	Roaming Status	CAMEL Support	Action	
78600123456	ABC	Home-National-International	Phase 4 and less	View Modify Delete	
786009086	EWE	International	Phase 4 and less	View Modify Delete	
78600123457	TESTDEMOT	National	Phase 2 and less	View Modify Delete	
786008888814502	TEST3	Home-National-International	Phase 4 and less	View Modify Delete	
7860012345	TEST	Home-National-International	Phase 1 and less	View Modify Delete	
7869015757	TEST3	Home-National-International	Phase 1 and less	View Modify Delete	
7869015	EWE	Home-National-International	Phase 4 and less	View Modify Delete	
78600123458	SAUDI	Home-National-International	Phase 2 and less	View Modify Delete	
786901575	TESTDEMOT	Home-National-International	Phase 4 and less	View Modify Delete	
78600123457	TESTDD1	Home-National-International	Phase 4 and less	View Modify Delete	

		Create	Upload	1 2
Home				

17.4 Restricted VLR(s)

Home Location Register → Roaming Management → Restricted VLR(s)

VLR(s) here in this context is the list of locations those represent the Visitor Location Register(s) pertaining to a **GSM** network access mode. Restricted VLR(s) enables the user either to add or remove a set / group of VLR(s) to/from the network sphere. This also allows the user to peruse details related to existing VLR(s). If the VLR is allowed, it cannot be restricted.

This Module maintains the details related to following restricted VLR(s):

- Add / Remove
- Manage

On clicking Add / Remove link the following screen is displayed.

Add / Remove
<input type="radio"/> Add (Single / Bulk) <input checked="" type="radio"/> Remove (Bulk)
Submit Home

STEP	ACTION
1.	Select the radio option (Add / Remove) to specify whether user is intending to add a set of new VLR(s) or remove a group of existing VLR(s) to/from the Network space The screen gets modified and it displays a list of parameter with their fields
2.	On clicking the Home button (prior to the submission of Restricted VLRs), it only redirects the user back to the 'Roaming Management' main page

Add

Home Location Register → Roaming Management → Restricted VLR(s) → Add / Remove
'Restricted VLR(s) – Add helps the user to add a set of VLR(s) to a network sphere. User can add restricted VLR(s) in single or bulk mode.

The screen below shows adding a set / group of VLR(s) in single or bulk to a network sphere.

Add / Remove

Note:
Mapping of Country Code-VLR Number (or) upload of VLR Numbers (or) Both can be done (at least one should happen).
Upload file format is as below

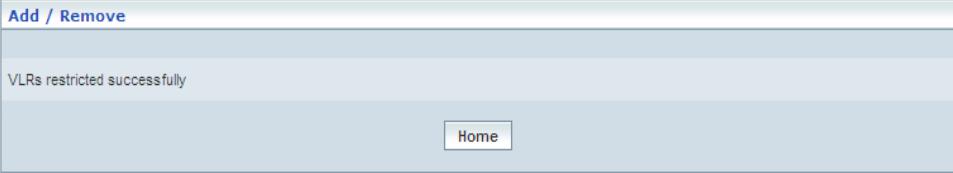
VLR Number,VLR Name

- The file extensions accepted are '.txt' or '.csv'.
- Each record should be in a new separate line.
- Each VLR Number should be prefixed with a Country Code.
- VLR Number should be numeric.
- VLR Number length should be between 1 to 20 digits (Based on the selected Country Name-Country Code).
- VLR Name should be alphanumeric with underscore.
- VLR Name length should be between 1 to 30.

eg 33527685,testvlr

Add (Single / Bulk) Remove (Bulk)

Country Name-Country Code	BARBADOS-1	<input type="button" value=""/>
VLR Number	2334	<input type="button" value=""/>
VLR Name	Test	<input type="button" value=""/>
Upload	D:\Rajin\Projects\HLR\Res	<input type="button" value="Browse..."/>

STEP	ACTION
1.	User must follow these guide lines & instructions for the Data Formats of the VLR Details
2.	Select the radio option Add to add a set of new VLR(s) to the Network space
3.	Select country name and country code from the <Country Name – Country Code> drop-down list
4.	Enter VLR number in the <VLR Number> field
5.	Enter VLR name in the <VLR Name> field
6.	On clicking the right-arrow button, the service key (number and name) will be moved to the adjacent field User can enter the desired number of VLR number in a similar fashion
7.	However, if the user wants to just remove certain service keys any time before creating or establishing the SCP, selecting the number (service key and name) from the list and subsequently clicking the left-arrow button removes the number
8.	<u>Bulk Upload</u> Browse for a Flat file that consists of a set of VLR(s) in a specific format and each one starting in a new line
9.	On clicking the Submit button, the VLR numbers are successfully stored in the database A message window to that effect will be displayed  <p>On clicking Home button of the message window, it redirects the user to the 'Add / Remove' Screen</p>
10.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Restricted VLR(s)' main page

Remove

Home Location Register → Roaming Management → Restricted VLR(s) → Add / Remove
 'Restricted VLR(s) –Remove' helps the user to remove a set of VLR(s) from a network sphere in bulk / at a stretch.

The screen below shows removing a set / group of VLR(s) in bulk from a network sphere

Add / Remove

Note: Upload file format is as below
VLR

- The file extensions accepted are '.txt' or '.csv'.
- Each VLR should be in a new separate line.
- VLR should be numeric.
- VLR length should be between 1 to 20 digits.

eg 33527685

Add (Single / Bulk) Remove (Bulk)

Upload Browse...

Submit Home

STEP	ACTION
1.	User must follow these guide lines & instructions for the Data Formats of the VLR Details
2.	Select the radio option Remove to remove a group of existing VLR(s) from the Network space
3.	Browse for a Flat file that consists of a set of VLR(s) in a specific format and each one starting in a new line
4.	On clicking the Submit button, a message window to that effect will be displayed confirming the successfully removing VLR(s)
	<p>Add / Remove</p> <p>Restricted VLRs deleted successfully</p> <p style="text-align: center;">Home</p>
	On clicking Home button of the message window, it redirects the user to the 'Add / Remove' Screen
5.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Restricted VLR(s)' main page

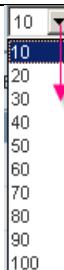
Manage

Home Location Register → Roaming Management → Restricted VLR(s) → Manage

'Restricted VLR(s)' – Manage helps the user to modify or delete the existing VLR(s) in the network.

The screen below shows viewing the list of VLR(s).

Manage		
Search		View Per Page
		1 2
	VLR Number	VLR Name
<input type="radio"/>	111111	TTTT
<input type="radio"/>	1132323	Rico
<input type="radio"/>	1143434	Test1
<input checked="" type="radio"/>	1145343	Bahamas
<input type="radio"/>	114545	Demo1
<input type="radio"/>	11545	Jamaica
<input type="radio"/>	116454	Test12
<input type="radio"/>	1176565	demo54
<input type="radio"/>	118333	TestDemo121
<input type="radio"/>	1456789233	testvlrd
Modify		1 2
Print		
Home		

STEP	ACTION
1.	By default, the list of VLR(s) will be displayed as records in a grid. The columns include VLR Number
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p>  <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On selecting a VLR number and clicking the Modify button, user can modify the existing VLR(s)
4.	On selecting a VLR number and clicking the Delete button, user can delete the existing VLR(s)
5.	On clicking the Print button at the bottom of the grid, user can take printouts of the VLR(s) list
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Restricted VLR(s)' main page

Modify

Home Location Register → Roaming Management → Restricted VLR(s) → Manage → Modify

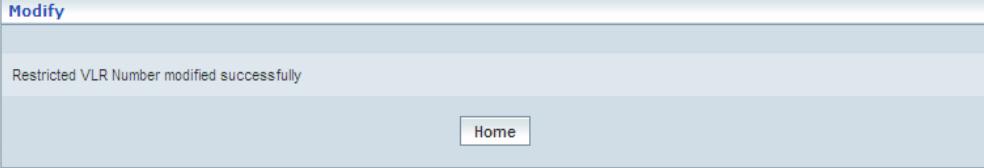
Modify enables the user to modify / update the details related to an existing VLR(s) number.

The screen below shows modifying a VLR(s) number.

Modify

Note:
Restricted VLR Number= Country Name-Country Code value and New VLR Number value

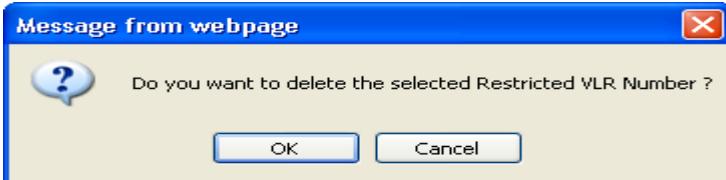
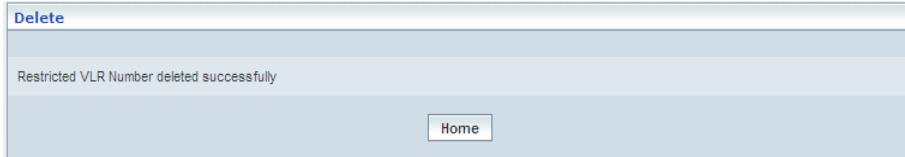
Old VLR Number	1145343
VLR Name	Bahamas
Country Name-Country Code	SOUTH AFRICA-27
New VLR Number	2767555
New VLR Name	SF
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	Select country name and country code from the <Country Name-Country Code> drop-down list
2.	Enter new VLR number in the <New VLR Number> field
3.	Enter new VLR name in the <New VLR Name> field
4.	On clicking the Submit button, the VLR numbers is successfully modified A message window to that effect will be displayed  On clicking Home button of the message window, it redirects the user to the 'Manage' grid
5.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Restricted VLR(s)' main page

Delete

Home Location Register → Roaming Management → Restricted VLR(s) → Manage → Delete

Delete enables the user to delete the details related to an existing Restricted VLR(s) number.

STEP	ACTION
1.	Select a VLR number radio option
2.	<p>On clicking the Delete at the bottom of the 'Manage' screen, it displays an alert window enabling the user to confirm deletion of the chosen VLR number</p>  <p>On clicking the OK button of the alert window, the chosen Restricted VLR Number will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Manage' grid</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Manage' grid</p>
3.	On clicking the Home button of the 'Manage' screen (before deleting the profile), it directs to the 'Restricted VLR(s)' main page

Searching for a specific Restricted VLRs(s) (Record)



STEP	ACTION
1.	<p>Select a search criterion ('VLR Number' or 'VLR Name') from the drop-down list of the search criteria of the <Search> field</p> <p>* By default the list of search criterion ('VLR Number' or 'VLR Name') will be dynamically displayed as drop-down list of the <Search> field</p>
2.	Enter the 'VLR Number' or 'VLR Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Restricted VLR(s) (record) will be highlighted among the list of Restricted VLR(s) records.

The screen below depicts fetching and displaying the give Restricted VLR(s) record.

Manage	
Search <input type="button" value="Select Column"/> <input type="text"/> Go	
View Per Page <input type="button" value="10"/> <input type="button" value="1 2"/>	
	Modify Delete
VLR Number	VLR Name
(○) 111111	TTTT
(○) 1132323	Rico
(○) 1143434	Test1
(○) 114545	Demo1
(○) 11545	Jamaica
(○) 116454	Test12
(○) 1176565	demo54
(○) 118333	TestDemo121
(○) 1456789233	testvird
(○) 272767555	SF
	Modify Delete
1 2	
<input type="button" value="Print"/>	
<input type="button" value="Home"/>	

17.5 Restricted SGSN(s)

[Home Location Register](#) → [Roaming Management](#) → [Restricted SGSN\(s\)](#)

SGSN(s)' here in this context is the list of locations those represent the Visitor Location Register(s) pertaining to a **GPRS** network. Restricted SGSN(s) enables the user either to add or remove a set / group of SGSN(s) to/from the network sphere. This also allows the user to peruse details related to existing SGSN(s). If the SGSN is allowed, it cannot be restricted.

This Module maintains the details related to following restricted SGSN (s):

- Add / Remove
- Manage

On clicking **Add / Remove** link the following screen is displayed.

The screenshot shows a light blue header bar with the text "Add / Remove". Below this is a white content area. In the center, there are two radio buttons: one for "Add (Single / Bulk)" and one for "Remove (Bulk)". At the bottom of the content area are two buttons: "Submit" and "Home".

STEP	ACTION
1.	Select the radio option (Add / Remove) to specify whether user is intending to add a set of new SGSN (s) or remove a group of existing SGSN(s) to/from the Network space The screen gets modified and it displays a list of parameter with their fields
2.	On clicking the Home button (prior to the submission of Restricted SGSN(s), it only redirects the user back to the 'Roaming Management' main page

Add

[Home Location Register](#) → [Roaming Management](#) → [Restricted SGSN\(s\)](#) → [Add / Remove](#)
Restricted SGSN(s) – Add helps the user to add a set of SGSN(s) to a GPRS network sphere. User can add restricted SGSN(s) in single or bulk mode.

The screen below shows adding single or group of SGSN(s) in single or bulk to a **GPRS** network sphere.

Add / Remove

Note:
Mapping of Country Code-SGSN Number (or) upload of SGSN Numbers (or) Both can be done (at least one should happen).
Upload file format is as below

SGSN Number, SGSN Name

- The file extensions accepted are '.txt' or '.csv'.
- Each record should be in a new separate line.
- Each SGSN Number should be prefixed with a Country Code.
- SGSN Number should be numeric.
- SGSN Number length should be between 1 to 20 digits (Based on the selected Country Name-Country Code).
- SGSN Name should be alphanumeric with underscore.
- SGSN Name length should be between 1 to 30.

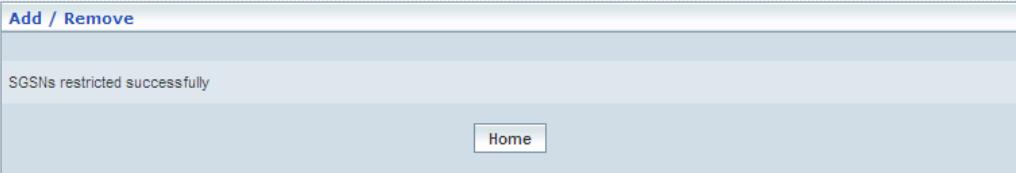
eg 33527685,testsgsn

Add (Single / Bulk) Remove (Bulk)

Country Name-Country Code: TRINIDAD AND TOBAGO-1
SGSN Number: 1343434
SGSN Name: TandT

Upload: D:\Rajin\Projects\HLR\Res

11343434-TandT

STEP	ACTION
1.	User must follow these guide lines & instructions for the Data Formats of the SGSN Details
2.	Select the radio option Add to add a set of new SGSN(s) to the GPRS Network space
3.	Select country name and country code from the <Country Name-Country Code> drop-down list
4.	Enter SGSN number in the <SGSN Number> field
5.	Enter SGSN name in the <SGSN Name> field
6.	On clicking the right-arrow button, the service key (number) will be moved to the adjacent field User can enter the desired number of SGSN number and SGSN name in a similar fashion
7.	However, if the user wants to just remove certain service keys any time before creating or establishing the SGSN, selecting the number (service key) from the list and subsequently clicking the left-arrow button removes the number
8.	Bulk Upload Browse for a Flat file that consists of a set of SGSN(s) in a specific format and each one starting in a new line
9.	On clicking the Submit button, the SGSN numbers are successfully stored in the database A message window to that effect will be displayed  <p>On clicking Home button of the message window, it redirects the user to the 'Add / Remove' Screen</p>
10.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Restricted SGSN(s)' main page

Remove

Home Location Register → Roaming Management → Restricted SGSN(s) → Add / Remove Restricted SGSN(s) –Remove helps the user to remove a set of SGSN(s) from a GPRS network sphere in bulk / at a stretch.

The screen below shows removing a set / group of SGSN(s) in bulk from a network sphere

Add / Remove

Note: Upload file format is as below
SGSN

- The file extensions accepted are '.txt' or '.csv'.
- Each SGSN should be in a new separate line.
- SGSN should be numeric.
- SGSN length should be between 1 to 20 digits.

eg 33527685

Add (Single / Bulk) Remove (Bulk)

Upload

STEP	ACTION
1.	User must follow these guide lines & instructions for the Data Formats of the SGSN Details
2.	Select the radio option Remove to remove a group of existing SGSN(s) from a GPRS Network space
3.	Browse for a Flat file that consists of a set of SGSN(s) in a specific format and each one starting in a new line
4.	On clicking the Submit button, a message window to that effect will be displayed confirming the successfully removing SGSN(s)
	<p>Add / Remove</p> <p>Restricted SGSNs deleted successfully</p> <p style="text-align: center;"><input type="button" value="Home"/></p> <p>On clicking Home button of the message window, it redirects the user to the 'Add / Remove' Screen</p>
5.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Restricted SGSN(s)' main page

Manage

Home Location Register → Roaming Management → Restricted SGSN(s) → Manage

Restricted SGSN(s) – Manage helps the user to modify or delete the existing SGSN(s) in the GPRS network.

The screen below shows a list of SGSN(s).

Manage		
Search		View Per Page
	SGSN Number	SGSN Name
<input type="radio"/>	11343434	TandT
<input type="radio"/>	114343	Virgin
<input type="radio"/>	1434343	TandTT
<input type="radio"/>	2252257777	Ivory
<input type="radio"/>	22622678787	Burkino
<input checked="" type="radio"/>	2282285656	Togo
<input type="radio"/>	323254545	Belgium
<input type="radio"/>	464665656	Sweden
<input type="radio"/>	616145454	Australia
<input type="radio"/>	93936565	Afghanistan
	Modify	Delete
		1 2
Print		
Home		

STEP	ACTION
1.	By default, the list of SGSN(s) will be displayed as records in a grid. The columns include SGSN Number
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On selecting a SGSN number and clicking the Modify button, user can modify the existing SGSN(s) number
4.	On selecting a SGSN number and clicking the Delete button, user can delete the existing SGSN(s) number
5.	On clicking the Print button at the bottom of the grid, user can take printouts of the SGSN(s) list
6.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Restricted SGSN(s)' main page

Modify

Home Location Register → Roaming Management → Restricted SGSN(s) → Manage → Modify

Modify enables the user to modify / update the details related to an existing SGSN(s) number.

The screen below shows modifying a SGSN(s) number.

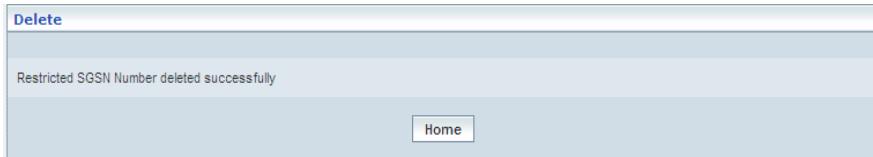
Modify	
Note: Restricted SGSN Number= Country Name-Country Code value and New SGSN Number value	
Old SGSN Number	2282285656
SGSN Name	Togo
Country Name-Country Code	<input type="button" value="BELGIUM-32"/>
New SGSN Number	<input type="text" value="325656"/>
New SGSN Name	<input type="text" value="Belgium"/>
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	Select country name and country code from the Country Name – Country Code dropdown list
2.	Enter new SGSN number in the New SGSN Number field
3.	On clicking the Submit button, the SGSN numbers is successfully modified A message window to that effect will be displayed On clicking Home button of the message window, it redirects the user to the 'Manage' grid
4.	On clicking the Home button (prior to upload of the flat file), it only redirects the user back to the 'Restricted SGSN(s)' main page

Delete

Home Location Register → Roaming Management → Restricted SGSN(s) → Manage → Delete

Delete enables the user to delete the details related to an existing SGSN(s) number.

STEP	ACTION
1.	Select a SGSN number radio option
2.	On clicking the Delete at the bottom of the 'Manage' screen, it displays an alert window enabling the user to confirm deletion of the chosen SGSN number  <p>On clicking the OK button of the alert window, the chosen Restricted SGSN Number will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Manage' grid</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Manage Profiles' grid</p>
3.	On clicking the Home button of the 'Manage' screen (before deleting the profile), it directs to the 'Restricted SGSN(s)' main page

Searching for a specific Restricted SGSN(s) (Record)



STEP	ACTION
1.	Select a search criterion ('SGSN Number' or 'SGSN Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('SGSN Number' or 'SGSN Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'SGSN Number' or 'SGSN Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Restricted SGSN(s) (record) will be highlighted among the list of Restricted SGSN(s)records.

The screen below depicts fetching and displaying the give Restricted SGSN(s)record.

	SGSN Number	SGSN Name
<input type="radio"/>	11343434	TandT
<input type="radio"/>	114343	Virgin
<input type="radio"/>	1434343	TandTT
<input type="radio"/>	2252257777	Ivory
<input type="radio"/>	22622678787	Burkino
<input type="radio"/>	323254545	Belgium
<input type="radio"/>	32325656	Belgium
<input type="radio"/>	464665656	Sweden
<input type="radio"/>	616145454	Australia
<input type="radio"/>	93936565	Afghanistan

17.6 Allowed VLR(s)

Home Location Register → Roaming Management → Allowing VLR(s)

VLR(s) here in this context is the list of locations those represent the Visitor Location Register(s) pertaining to a **GSM** network access mode. Allowing VLR(s) enables the user to create, view, modify and delete a set / group of VLR(s) to/from the network sphere. This also allows the user to peruse details related to existing VLR(s). If the VLR is restricted then it cannot allowed.

The below screen represents the roaming profiles listed in a grid

Allowed VLRs								
Search		Select Column	Go	View Per Page				
		1 2						
Profile Name		Action						
abc		View		Reference		Modify		Delete
bluetest		View		Reference		Modify		Delete
name212		View		Reference		Modify		Delete
pp33		View		Reference		Modify		Delete
profiletest		View		Reference		Modify		Delete
test		View		Reference		Modify		Delete
testdemo		View		Reference		Modify		Delete
testvlr		View		Reference		Modify		Delete
vlrprofiletest		View		Reference		Modify		Delete
wedtestdemo		View		Reference		Modify		Delete

Create **Print**

STEP	ACTION
1.	By default, the list of profiles (Selective Roaming Profiles) will be displayed as records in a grid. The columns include 'Profile Name' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (roaming Profile)
4.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile
5.	On clicking the Reference link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to create an another profile with different name with the same details in the profile
6.	On clicking the Modify button, 'Modify' screen will be displayed enabling the user to modify an existing 'Profile' (roaming Profile)
7.	On clicking the Delete button, 'Delete' screen will be displayed enabling the user to delete a 'Profile' (roaming Profile)
8.	On clicking the Print button at the bottom of the grid, user can take printouts of the Profiles' list

Create

Home Location Register → Roaming Management → Allowed VLR(s) → Create

Create enables the user to create a new profile (Selective Roaming Profile) and attribute various values to constitute the same.

The screen below shows creating a new profile as Selective Roaming Profile

Create Indicates Mandatory

Note:
Mapping of Country Code-VLR Number (or) upload of VLR Numbers (or) Both can be done (at least one should happen).
Upload file format is as below

VLR Number,VLR Name

- The file extensions accepted are '.txt' or '.csv'.
- Each record should be in a new separate line.
- Each VLR Number should be prefixed with a Country Code.
- VLR Number should be numeric.
- VLR Number length should be between 1 to 20 digits (Based on the selected Country Name-Country Code).
- VLR Name should be alphanumeric with underscore.
- VLR Name length should be between 1 to 30.

eg 33527685,testvlr

Profile Name	<input type="text" value="testk"/>
Country Name-Country Code	<input type="text" value="SAUDI ARABIA-966"/> ▼
VLR Number	<input type="text" value="1433"/> ▶
VLR Name	<input type="text" value="ttkk"/> ◀
Upload	<input type="button" value="Browse..."/> <input type="text" value="irplink1.txt"/>
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

9661433-ttkk

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the profile in <Profile Name> field.
3.	Select the country name and code from the <Country Name-Country Code> field.
4.	Enter the VLR number in the <VLR Number> field. NOTE: Super and sub-set combination is not accepted between any two VLR numbers of same country
5.	Enter the VLR name in the <VLR Name> field
6.	clicking the right-arrow button, the country code and VLR number (as a string) will be moved to the adjacent field User can enter the desired number of codes in a similar fashion However if the user wants to just remove any code (any time before creating the profile), selecting the code from the right text field and subsequently clicking the left-arrow button removes the code
7.	User has an alternative option for uploading VLR numbers using the Upload option and with the help of the corresponding Browse button Browse for a .txt or .csv file that comprises of multiple strings of the country code and VLR number, each in a new line NOTE: Super and sub-set combination is not accepted between any two VLR numbers of same country
	NOTE: Mapping of Country Code-VLR Number (one by one) or upload of VLR Numbers using Upload option can be carried out simultaneously. In other words, both the options can be used at a time
8.	On clicking the Submit button, new roaming profile will be created and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the Mobility 'Allowed VLRs' profiles grid
9.	On clicking the Home button of the 'Create' screen, it directs the user back to the 'Allowed VLRs' profiles grid

View

[Home Location Register](#) → [Roaming Management](#) → [Allowed VLR\(s\)](#) → [View](#)

View enables the user to peruse details related to chosen Selective Roaming profile

On clicking the '**View**' link of a chosen 'Profile' (from the Allowed VLR Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile –roaming profile.

The screen below displays the details related to chosen roaming profile.

The screenshot shows a user interface for viewing a roaming profile. At the top left is a blue 'View' button. Below it, the profile name 'TESTVLR' is displayed. To the right of the profile name, the VLR number '13333' is shown in a white box with a thin border. At the bottom center of the screen is a 'Home' button.

STEP	ACTION
1.	User can peruse details related to the chosen roaming Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'Allowed VLRs' profiles grid

Reference

[Home Location Register](#) → [Roaming Management](#) → [Allowed VLR\(s\)](#) → [Reference](#)

On clicking the '**Reference**' link of a chosen 'Profile' (from the 'Allowed VLR' Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to create a new profile (Selective Roaming Profile) with the existing VLRs.

The screen below shows creating a new profile as Selective Roaming Profile with the existing VLRs.

Reference

| Indicates Mandatory

Note:
Mapping of Country Code-VLR Number (or) upload of VLR Numbers (or) Both can be done (at least one should happen).
Upload file format is as below

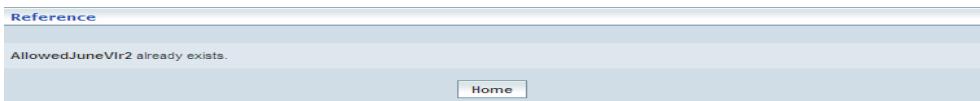
VLR Number,VLR Name

- The file extensions accepted are '.txt' or '.csv'.
- Each record should be in a new separate line.
- Each VLR Number should be prefixed with a Country Code.
- VLR Number should be numeric.
- VLR Number length should be between 1 to 20 digits (Based on the selected Country Name-Country Code).
- VLR Name should be alphanumeric with underscore.
- VLR Name length should be between 1 to 30.

eg 33527685,testvlr

Profile Name	<input type="text" value="profiletest"/>
Country Name-Country Code	<input type="text" value="Select"/>
VLR Number	<input type="text"/>
VLR Name	<input type="text"/>
Upload	<input type="text"/> Browse...
Reference Home	

11454545-fdsfsd

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter a different name in <Profile Name> field (different from that of the referred Profile name). If the user does not change the profile name, the following message is displayed. The user must change name of the profile to distinguish it from the referred profile 
3.	User can either retain the current values or make necessary changes / updates to the existing Country Codes / VLRs of the profile as desired. However, super and sub-set combination doesn't exist between any two VLR numbers of same country
4.	On clicking the right-arrow button, the country code and VLR number (as a string) will be moved to the adjacent field User can enter the desired number of codes in a similar fashion However if the user wants to just remove any code (any time before creating the profile), selecting the code from the right text field and subsequently clicking the left-arrow button removes the code
5.	User has an alternative option for uploading VLR numbers using the Upload option and with the help of the corresponding Browse button Browse for a .txt or .csv file that comprises of multiple strings of the country code and VLR number, each in a new line NOTE: Super and sub-set combination is not accepted between any two VLR numbers of same country
	NOTE: Mapping of Country Code-VLR Number (one by one) or upload of VLR Numbers using Upload option can be carried out simultaneously. In other words, both the options can be used at a time
6.	On clicking the Submit button, new roaming profile will be created and a message window to that effect will be displayed  On clicking Home button of the message window, it directs the user back to the 'Allowed VLR's' profiles grid
7.	On clicking Home button of the 'Reference' screen, it directs the user back to the 'Allowed VLRs' profiles grid

Modify

Home Location Register → Roaming Management → Allowed VLR(s) → Modify

Modify enables the user to modify / update the details related to an existing roaming profile.

On clicking the '**Modify**' link of a chosen 'Profile' (from the Allowed VLRs Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile – Allowed VLRs.

The screen below shows modifying / updating the details related to an existing roaming profile.

Modify

| Indicates Mandatory

Note:
Mapping of Country Code-VLR Number (or) upload of VLR Numbers (or) Both can be done (at least one should happen).
Upload file format is as below

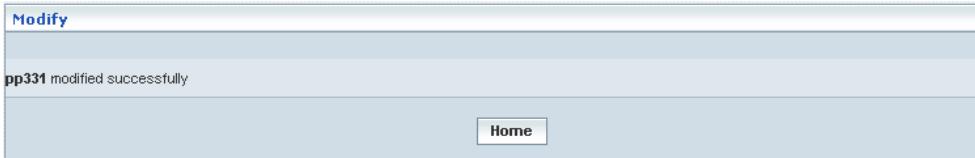
VLR Number,VLR Name

- The file extensions accepted are '.txt' or '.csv'.
- Each record should be in a new separate line.
- Each VLR Number should be prefixed with a Country Code.
- VLR Number should be numeric.
- VLR Number length should be between 1 to 20 digits (Based on the selected Country Name-Country Code).
- VLR Name should be alphanumeric with underscore.
- VLR Name length should be between 1 to 30.

eg 33527685,testvlr

Profile Name	pp331
Country Name-Country Code	<input type="text" value="Select"/> ▼
VLR Number	<input type="text"/> ▶
VLR Name	<input type="text"/> ◀
Upload	<input type="text"/> Browse...
Modify Home	

119776-44

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing data in the provided fields and finally perform mapping or upload the .txt file
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (Allowed VLR) details will be updated accordingly and a message window to that effect will be displayed  <p>On clicking the Home button of the message window, it directs the user back to the 'Allowed VLR' profiles grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the 'Allowed VLRs' profiles grid

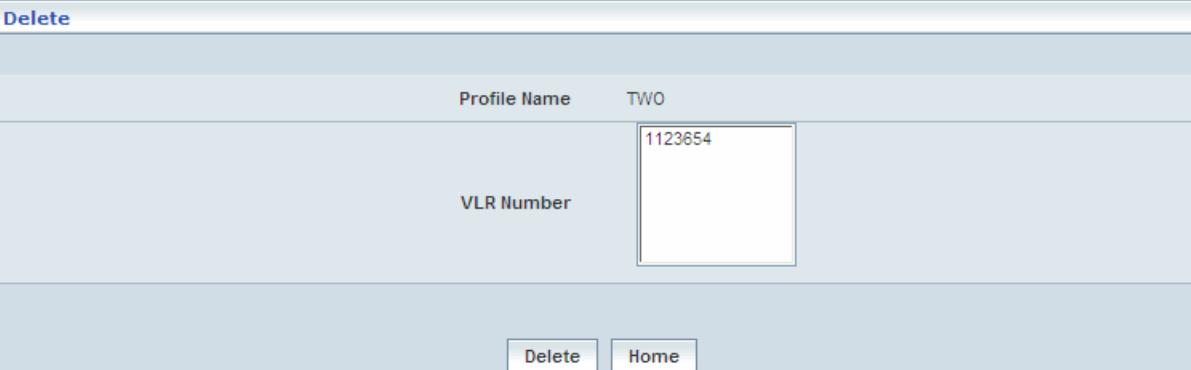
Delete

Home Location Register → Roaming Management → Allowed VLR(s) → Delete

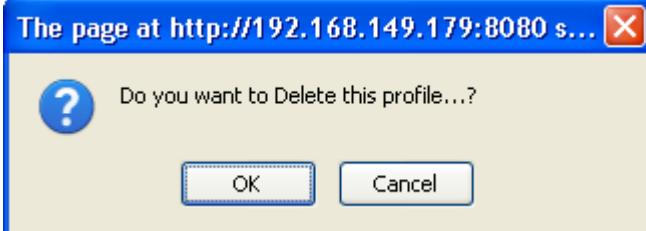
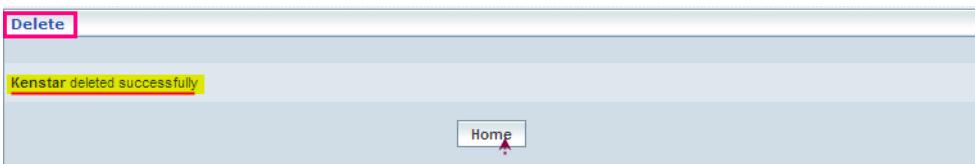
Delete enables the user to delete an existing roaming profile.

On clicking the '**Delete**' link of a chosen 'Profile' (from the Allowed VLR Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the – Allowed VLR.

The screen below shows the details related to an existing roaming profile, which enables the user to delete the same (Profile).



Profile Name	TWO
VLR Number	1123654
<input type="button" value="Delete"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	<p>On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile</p>  <p>On clicking the OK button of the alert window, the chosen profile will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Allowed VLRs' profiles grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Allowed VLRs' profiles grid

Searching for a specific Allowed VLRs profiles (Record)



STEP	ACTION
1.	<p>Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field</p> <p>* By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field</p>
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Allowed VLRs Profiles (record) will be highlighted among the list of Allowed VLRs Profiles records.

The screen below depicts fetching and displaying the give Allowed VLRs Profiles record.

Allowed VLRs					
Search		Select Column	Go	View Per Page 10	
		Create			
Profile Name					1 2
abc		View	Reference	Modify	Delete
bluetest		View	Reference	Modify	Delete
name212		View	Reference	Modify	Delete
pp33		View	Reference	Modify	Delete
pp331		View	Reference	Modify	Delete
profiletest		View	Reference	Modify	Delete
test		View	Reference	Modify	Delete
testdemo		View	Reference	Modify	Delete
testvlr		View	Reference	Modify	Delete
virprofiletest		View	Reference	Modify	Delete

Create		1 2
--------	--	-----

		Print
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17.7 Allowed SGSN(s)

[Home Location Register](#) → [Roaming Management](#) → [Allowing SGSN\(s\)](#)

SGSN(s)' here in this context is the list of locations those represent the SGSN(s) pertaining to a **GSM** network access mode. Allowing SGSN(s) enables the user to create, view, and manage a set / group of SGSN (s) to/from the network sphere. This also allows the user to peruse details related to existing SGSN (s). If the SGSN is restricted then it cannot allowed.

The below screen represents the roaming profiles listed in a grid

Allowed SGSNs					
Search		Select Column	Go	View Per Page 10	
Create					
Profile Name					Action
454				View	Reference Modify Delete
5				View	Reference Modify Delete
abc				View	Reference Modify Delete
demo				View	Reference Modify Delete
kk				View	Reference Modify Delete
mm1				View	Reference Modify Delete
mno				View	Reference Modify Delete
pp333				View	Reference Modify Delete
sgsnstest				View	Reference Modify Delete
tt1				View	Reference Modify Delete

[Create](#) 1 2

[Print](#)

STEP	ACTION
1.	By default, the list of profiles (Selective Roaming Profiles) will be displayed as records in a grid. The columns include 'Profile Name' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
3.	On clicking the Create button, 'Create' screen will be displayed enabling the user to create a new 'Profile' (roaming Profile)
4.	On clicking the View link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile
5.	On clicking the Reference link of a chosen 'Profile', corresponding information related to the profile will be displayed in a separate screen enabling the user to create an another profile with different name with the same details in the profile
6.	On clicking the Modify button, 'Modify' screen will be displayed enabling the user to modify an existing 'Profile' (roaming Profile)
7.	On clicking the Delete button, 'Delete' screen will be displayed enabling the user to delete a 'Profile' (roaming Profile)
8.	On clicking the Print button at the bottom of the grid, user can take printouts of the Profiles' list

Create

Home Location Register → Roaming Management → Allowed SGSN(s) → Create

Create enables the user to create a new profile (Selective Roaming Profile) and attribute various values to constitute the same.

The screen below shows creating a new profile as Selective Roaming Profile

Create

| Indicates Mandatory

Note:
Mapping of Country Code-SGSN Number (or) upload of SGSN Numbers (or) Both can be done (at least one should happen).
Upload file format is as below

SGSN Number, SGSN Name

- The file extensions accepted are '.txt' or '.csv'.
- Each record should be in a new separate line.
- Each SGSN Number should be prefixed with a Country Code.
- SGSN Number should be numeric.
- SGSN Number length should be between 1 to 20 digits (Based on the selected Country Name-Country Code).
- SGSN Name should be alphanumeric with underscore.
- SGSN Name length should be between 1 to 30.

eg 33527685,testsgsn

Profile Name	<input type="text" value="sgsn1test"/>
Country Name-Country Code	TURKS AND CAICOS ISLANDS-1
SGSN Number	<input type="text" value="1433"/> ▶ ◀
SGSN Name	<input type="text" value="name12"/>
Upload	<input type="text" value="D:\Rajini\Projects\HLR\"/> Browse...

11433-name12

Submit **Home**

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter name of the profile in < Profile Name> field.
3.	Select the country name and code in the <Country Name- Country Code> field.
4.	Enter the SGSN number in the <SGSN Number> field. NOTE: Super and sub-set combination doesn't exist between any two SGSN numbers of same country.
5.	Enter the VLR name in the <SGSN Name> field
6.	clicking the right-arrow button, the country code and SGSN number (as a string) will be moved to the adjacent field User can enter the desired number of SGSNs in a similar fashion However if the user wants to just remove any SGSN (any time before creating the profile), selecting the code from the right text field and subsequently clicking the left-arrow button removes the same
7.	User has an alternative option for uploading SGSN numbers using the Upload option and with the help of the corresponding Browse button Browse for a .txt or .csv file that comprises of multiple strings of the country code and SGSN number, each in a new line NOTE: Super and sub-set combination is not accepted between any two SGSN numbers of same country
	NOTE: Mapping of Country Code-SGSN Number (one by one) or upload of SGSN Numbers using Upload option can be carried out simultaneously. In other words, both the options can be used at a time
8.	On clicking the Submit button, new roaming profile will be created and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the Mobility 'Allowed SGSNs' profiles grid
9.	On clicking the Home button of the 'Create' screen, it directs the user back to the 'Allowed SGSNs' profiles grid

View

Home Location Register → Roaming Management → Allowed SGSN(s) → View

View enables the user to peruse details related to chosen roaming profile

On clicking the '**View**' link of a chosen 'Profile' (from the Allowed SGSN Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile –roaming profile.

The screen below displays the details related to chosen roaming profile.

View			
Profile Name	SGSN NEW		
SGSN Number	<table border="1"><tr><td>11234</td></tr><tr><td>12234</td></tr></table>	11234	12234
11234			
12234			
Home			

STEP	ACTION
1.	User can peruse details related to the chosen roaming Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'Allowed SGSN's' profiles grid

Reference

Home Location Register → Roaming Management → Allowed SGSN(s) → Reference

On clicking the '**Reference**' link of a chosen 'Profile' (from the 'Allowed SGSNs' Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to create a new profile (Selective Roaming Profile) with the existing SGSNs.

The screen below shows creating a new profile as Selective Roaming Profile with the existing SGSNRs.

Reference

| Indicates Mandatory

Note:
Mapping of Country Code-SGSN Number (or) upload of SGSN Numbers (or) Both can be done (at least one should happen).
Upload file format is as below

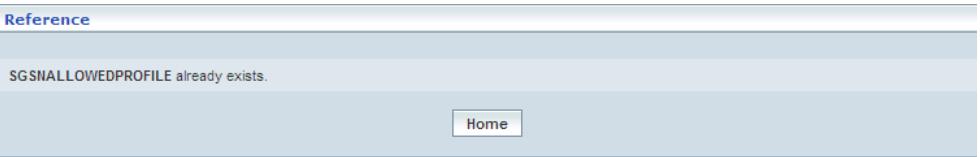
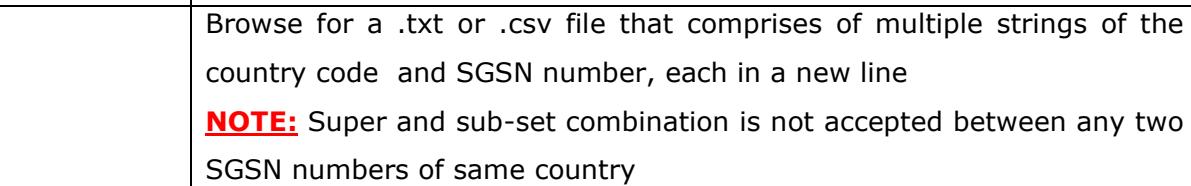
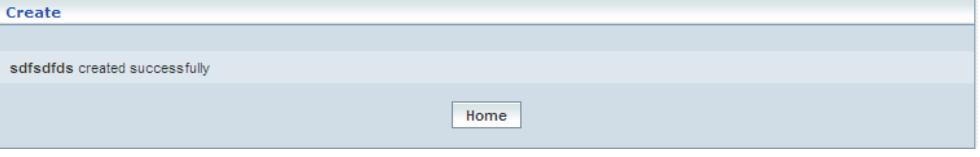
SGSN Number, SGSN Name

- The file extensions accepted are 'txt' or 'csv'.
- Each record should be in a new separate line.
- Each SGSN Number should be prefixed with a Country Code.
- SGSN Number should be numeric.
- SGSN Number length should be between 1 to 20 digits (Based on the selected Country Name-Country Code).
- SGSN Name should be alphanumeric with underscore.
- SGSN Name length should be between 1 to 30.

eg 33527685,testsgsn

Profile Name	<input type="text" value="sgsntest"/>
Country Name-Country Code	<input type="text" value="Select"/> ▼
SGSN Number	<input type="text"/>
SGSN Name	<input type="text"/>
Upload	<input type="text"/> Browse...
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

11433-name12
 16764-demo

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Enter a different name in <Profile Name> field (different from that of the referred Profile name). If the user does not change the profile name, the following message is displayed. The user must change name of the profile to distinguish it from the referred profile 
3.	User can either retain the current values or make necessary changes / updates to the existing Country Codes / SGSN of the profile. However, super and sub-set combination doesn't exist between any two SGSNs of same country
4.	On clicking the right-arrow button, the country code and SGSN number (as a string) will be moved to the adjacent field. User can enter the desired number of SGSNs in a similar fashion However, if the user wants to just remove any SGSN (any time before creating the profile), selecting the SGSN from the right text field and subsequently clicking the left-arrow button removes the same
5.	User has an alternative option for uploading SGSN numbers using the Upload option and with the help of the corresponding Browse button 
	NOTE: Super and sub-set combination is not accepted between any two SGSN numbers of same country
	NOTE: Mapping of Country Code-SGSN Number (one by one) or upload of SGSN Numbers using Upload option can be carried out simultaneously. In other words, both the options can be used at a time
6.	On clicking the Submit button, new roaming profile will be created and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the 'Allowed SGSNs' profiles grid

- | | |
|-----------|---|
| 7. | On clicking the Home button of the Reference screen, it directs the user back to the 'Allowed SGSNs' profiles grid |
|-----------|---|

Modify

Home Location Register → Roaming Management → Allowed SGSN(s) → Modify

Modify enables the user to modify / update the details related to an existing roaming profile.

On clicking the '**Modify**' link of a chosen 'Profile' (from the Allowed SGSNs Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile – Allowed SGSNs.

The screen below shows modifying / updating the details related to an existing roaming profile.

Modify

Note: Mapping of Country Code-SGSN Number (or) upload of SGSN Numbers (or) Both can be done (at least one should happen).
Upload file format is as below

SGSN Number, SGSN Name

- The file extensions accepted are '.txt' or '.csv'.
- Each record should be in a new separate line.
- Each SGSN Number should be prefixed with a Country Code.
- SGSN Number should be numeric.
- SGSN Number length should be between 1 to 20 digits (Based on the selected Country Name-Country Code).
- SGSN Name should be alphanumeric with underscore.
- SGSN Name length should be between 1 to 30.

eg 33527685,testsgsn

Profile Name	sgsntest
Country Name-Country Code	TURKS AND CAICOS ISLANDS-1
SGSN Number	143322
SGSN Name	11
Upload	<input type="text"/> <input type="button" value="Browse..."/>
<input type="button" value="Modify"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing data in the provided fields and finally perform mapping or upload the .txt file
3.	On clicking the Submit button at the bottom of the 'Modify' screen, profile (Allowed SGSN) details will be updated accordingly and a message window to that effect will be displayed  <p>On clicking the Home button of the message window, it directs the user back to the 'Allowed SGSN' profiles grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the 'Allowed SGSNs' profiles grid

Delete

Home Location Register → Roaming Management → Allowed SGSN(s) → Delete

Delete enables the user to delete an existing roaming profile.

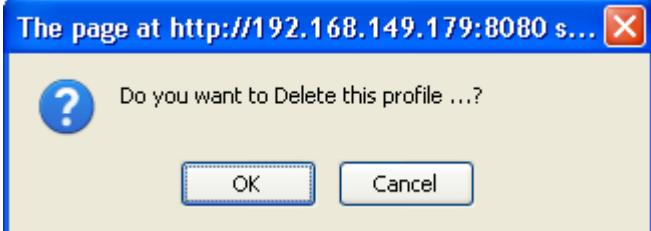
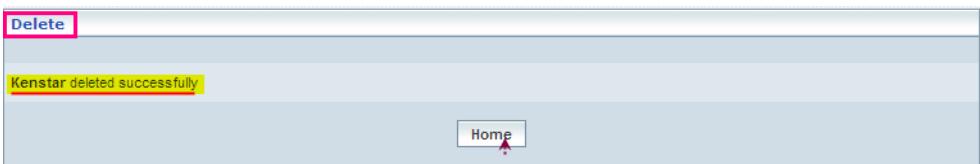
On clicking the '**Delete**' link of a chosen 'Profile' (from the Allowed SGSN Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the – Allowed SGSN.

The screen below shows the details related to an existing roaming profile, which enables the user to delete the same (Profile).



The screenshot shows a 'Delete' screen with the following details:

- Profile Name: KIUHSD
- SGSN Number: 19856
- Buttons: Delete, Home

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile
2.	On clicking the Delete at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile  <p>On clicking the OK button of the alert window, the chosen profile will be deleted and a message window to that effect will be displayed</p>  <p>On clicking the Cancel button of the alert window, it retains the corresponding 'Delete' screen</p> <p>On clicking the Home button of the message window, it directs the user back to the 'Allowed SGSNs' profiles grid</p>
3.	On clicking the Home button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Allowed SGSNs' profiles grid

Searching for a specific Allowed SGSNs profiles (Record)



STEP	ACTION
1.	Select a search criterion ('Profile Name') from the drop-down list of the search criteria of the <Search> field * By default the list of search criterion ('Profile Name') will be dynamically displayed as drop-down list of the <Search> field
2.	Enter the 'Profile Name' that corresponds with the given search criterion
3.	On clicking the Go button, the corresponding Allowed SGSNSs Profiles (record) will be highlighted among the list of Allowed SGSNSs Profiles records.

The screen below depicts fetching and displaying the give Allowed SGSNs Profiles record.

Allowed SGSNs					
Search		Select Column	Go	View Per Page 10	
		Create			
Profile Name					Action
454					View Reference Modify Delete
5					View Reference Modify Delete
abc					View Reference Modify Delete
demo					View Reference Modify Delete
kk					View Reference Modify Delete
mm1					View Reference Modify Delete
mno					View Reference Modify Delete
pp333					View Reference Modify Delete
sgsntest					View Reference Modify Delete
tt1					View Reference Modify Delete

17.8 Allowed VPLMNIDs

Home Location Register → Roaming Management → Allowed VPLMNIDs

Allowed VPLMNIDs (Visited Public Land Mobile Network) Configuration module enables the user to associate subscribers profile to the manually configured VPLMN (Visited Public Land Mobile Network) i.e. VPMNID and VPLMN Name.

'Allowed VPLMNIDs' feature enables the user to create a profile for the Allowed VPLMNIDs. Assigning/mapping VPMNID (network name) and its relevant VPLMN Name shall create a profile. Hence, MSISDNs (Subscribers) relevant to the mapped network (VPLMNID) are allowed for the roaming services, while subscribers are leaving their Home Public Land Mobile Network.

This module helps the user performing the following actions:

- ◆ Create
- ◆ View
- ◆ Reference
- ◆ Modify
- ◆ Delete

The screen below displays existing Allowed VPLMNIDs Configuration details:

Allowed VPLMNIDs		
		Action
Profile Name	tech	View Reference Modify Delete
		Create
		Print

STEP	ACTION
1.	By default, the list of Allowed VPLMNIDs Configuration will be displayed as records in a grid. The columns include 'Profile Name' and 'Action'.
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>However, this option is applicable only if the total number of records exceeds 10. And also with the immediate effect of increase in the number of records more than 10, a 'Search' option would be dynamically displayed.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.</p> <p>With the effect of choosing the desired number (10) for the display of records per page, the same (10 records) will be displayed in the grid.</p> <p>User can sort the records in ascending and descending orders with the help of up-arrow and down-arrows respectively</p> <p>However, based on the total number of records, page numbers will be dynamically displayed at the left bottom of the screen</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number'</p>
2	On clicking the Create button; 'Create' screen will be displayed enabling the user to create a profile by mapping the VPLMIDs and VPLMN Name.
3.	On clicking the Upload button, 'Upload' screen will be displayed enabling the user to browse and locate the '.txt' or '.csv' file and upload
4.	On clicking the View link, 'View' screen will be displayed enabling the user to view the Profile Name and corresponding VPLMNIDs associated to the subscriber profile

5.	On clicking the Reference link, to refer and associate the existing VPLMNIDs to another subscriber profile.(other than existing subscriber) On clicking the Reference link of a chosen 'Profile', a replica of the profile will be displayed in a separate screen (along with all the configured values / parameters of the chosen profile). This enables the user to create another profile with similar configured values or with slight changes but with a distinct name. This provision of reference creation in fact reduces the time in creating a profile similar to the one that already exists
6.	On clicking the Modify link, 'Modify' screen will be displayed enabling the user to update / change corresponding VPLMNIDs associated to the subscriber profile
7.	On clicking the Delete link, 'Delete' screen will be displayed enables the user to delete the same
8.	On clicking the Home button at the bottom of the grid, it redirects the user to the 'Roaming Management' main page

Create

Home Location Register → Roaming Management → Allowed VPLMNID(s) → Create

Note:
Mapping of VPLMNID-VPLMNID Name (or) upload of VPLMNID (or) Both can be done (at least one should happen).
Upload file format is as below
VPLMNID,VPLMNID Name

- The file extensions accepted are '.bd' or '.csv'.
- Each record should be in a new separate line.
- VPLMNID should be numeric.
- VPLMNID length should be between 1 to 15 digits.
- VPLMNID Name should be alphanumeric with underscore.
- VPLMNID Name length should be between 1 to 30.

eg: 523411,testVPLMNID

Profile Name	NEWProfile
VPLMNID	91
VPLMNID Name	XIUS
Upload	<input type="button" value="Browse..."/> No file selected.
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	Specify the Profile Name
2.	Specify VPLMNID , to which the subscriber has to get associated Note: VPLMNIDs are configured at <i>Home Location Register → VPLMN Configuration → Create</i>

3.	Specify VPLMN Name , to which the subscriber has to get associated Note: VPLMN Name are associated to VPLMNIDs. For more information, refer <i>Home Location Register → VPLMN Configuration → Create</i>
4.	<p>Upload: Click the Browse button, 'Upload' screen will be displayed enabling the user to browse and locate the '.txt' or '.csv' file and upload</p> <p>Follow the below rules pertaining to file format:</p> <p>The file extensions accepted are '.txt' or '.csv'.</p> <p>Each record should be in a new separate line.</p> <ul style="list-style-type: none"> • VPLMNID should be numeric. • VPLMNID length should be between 1 to 15 digits. • VPLMNID Name should be alphanumeric with underscore. • VPLMNID Name length should be of 1 to 30 characters. • e.g.: 523411,testVPLMNID
5.	Click Submit to configure the Allowed VPLMNIDs profile
6.	Click Home button, it would redirect the user to the 'Roaming Management' main page.

View

[Home Location Register → Roaming Management → Allowed VPLMNID\(s\) → View](#)

View enables the user to peruse details related to chosen roaming profile

On clicking the '**View**' link of a chosen 'Profile' (from the Allowed VPLMNIDs Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to peruse details of the profile –roaming profile.

The screen below displays the details related to chosen roaming profile.

STEP	ACTION
1.	User can peruse details related to the chosen roaming Profile
2.	On clicking the Home button at the bottom of the 'View' Screen, it redirects the user to the 'Allowed VPLMIDs' profiles grid

Reference

[Home Location Register → Roaming Management → Allowed VPLMNID \(s\)→](#)

[Create→Reference](#)

On clicking the '**Reference**' link of a chosen 'Profile' (from the Allowed VPLMN IDs profiles), a replica of the profile will be displayed in a separate screen (along with all the configured values / parameters of the chosen profile). This enables the user to create another profile with similar configured values or with slight changes but with a distinct name. This provision of reference creation in fact reduces the time in creating a profile similar to the one that already exists

The screen below displays the details related to chosen profile (Subscriber Profile) enabling the user to create a reference / similar profile with distinct name

Note:
Mapping of VPLMNID-VPLMNID Name (or) upload of VPLMNID (or) Both can be done (at least one should happen).

Upload file format is as below

VPLMNID,VPLMNID Name

- The file extensions accepted are '.txt' or '.csv'.
- Each record should be in a new separate line.
- VPLMNID should be numeric.
- VPLMNID length should be between 1 to 15 digits.
- VPLMNID Name should be alphanumeric with underscore.
- VPLMNID Name length should be between 1 to 30.

eg: 523411,testVPLMNID

Profile Name	tech
VPLMNID	<input type="text"/>
VPLMNID Name	<input type="text"/>
Upload	<input type="button" value="Browse..."/> No file selected.
<input type="button" value="Reference"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and Specify the Reference Profile Name . Enter a name to profile in order to create a replica of the profile.
2.	The VPLMNID and VPLMN Name will remain unchanged and finally perform mapping or upload the .txt file
3.	On clicking the Reference button at the bottom of the 'Reference' screen, profile (Allowed VPLMNID) details will be copied accordingly and a message window to that effect will be displayed  On clicking the Home button of the message window, it directs the user back to the 'Allowed VPLMNIDs' profiles grid
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the 'Allowed VPLMNIDs' profiles grid

Modify

Home Location Register → Roaming Management → Allowed VPLMNID (s) → Modify

Modify enables the user to modify / update the details related to an existing allowed VPLMN profile.

On clicking the '**Modify**' link of a chosen 'Profile' (from the Allowed VPLMNIDs Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to modify / update details of the profile – Allowed VPLMNIDs.

The screen below shows modifying / updating the details related to an existing roaming profile.

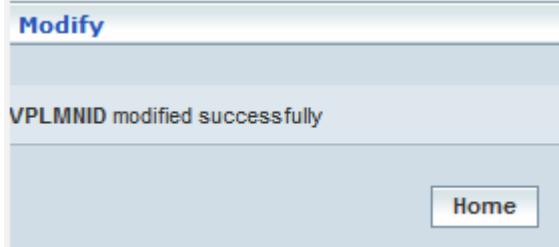
Modify

Note: Mapping of VPLMNID-VPLMNID Name (or) upload of VPLMNID (or) Both can be done (at least one should happen).
Upload file format is as below
VPLMNID,VPLMNID Name

- The file extensions accepted are '.txt' or '.csv'.
- Each record should be in a new separate line.
- VPLMNID should be numeric.
- VPLMNID length should be between 1 to 15 digits.
- VPLMNID Name should be alphanumeric with underscore.
- VPLMNID Name length should be between 1 to 30.

eg: 523411,testVPLMNID

Profile Name	VPLMNID
VPLMNID	<input type="text"/>
VPLMNID Name	<input type="text"/>
Upload	<input type="button" value="Browse..."/> No file selected.
<input type="button" value="Modify"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	Name of the profile will be dynamically displayed in the <Profile Name> field and this cannot be modified
2.	User can make necessary changes / updates to the existing data in the provided fields and finally perform mapping or upload the .txt file
3.	<p>On clicking the Modify button at the bottom of the 'Modify' screen, profile (Allowed VPLMNID) details will be updated accordingly and a message window to that effect will be displayed</p>  <p>On clicking the Home button of the message window, it directs the user back to the 'Allowed VPLMNIDs' profiles grid</p>
4.	On clicking the Home button of the 'Modify' screen (before updating the details related to profile), it directs the user to the 'Allowed VPLMNIDs' profiles grid

Delete

Home Location Register → Roaming Management → Allowed VPLMNID(s) → Delete

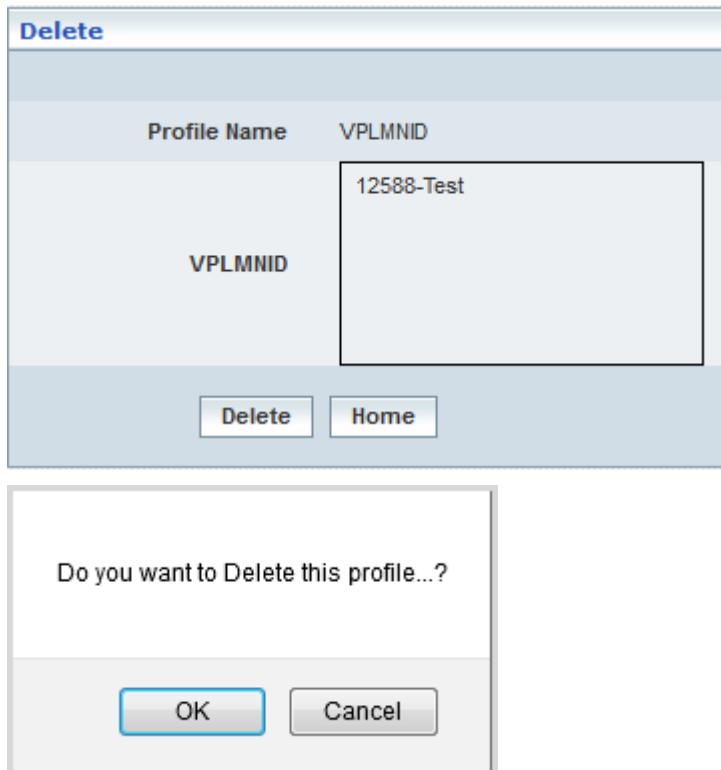
Delete enables the user to delete an existing roaming profile.

On clicking the '**Delete**' link of a chosen 'Profile' (from the Allowed VPLMNIDs Profiles List); corresponding information related to the profile will be displayed in a separate screen enabling the user to delete the – Allowed VPLMNID profile.

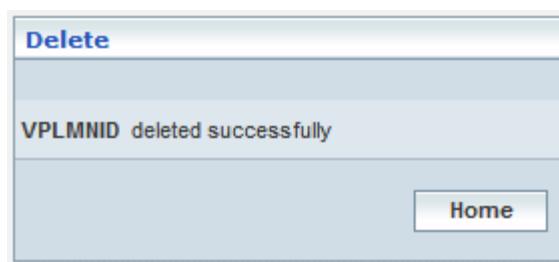
The screen below shows the details related to an existing roaming profile, which enables the user to delete the same (Profile).

STEP	ACTION
1.	User can peruse the existing values / configurations of the profile before deleting the profile

- 2.** On clicking the **Delete** at the bottom of the 'Delete' screen, it displays an alert window enabling the user to confirm deletion of the chosen profile



On clicking the **OK** button of the alert window, the chosen profile will be deleted and a message window to that effect will be displayed



On clicking the **Cancel** button of the alert window, it retains the corresponding 'Delete' screen

On clicking the **Home** button of the message window, it directs the user back to the 'Allowed VPLMNIDs' profiles grid

- 3.** On clicking the **Home** button of the 'Delete' screen (before deleting the profile), it directs the user to the 'Allowed VPLMNIDs' profiles grid

17.9 Change Allowed VLR/SGSN (Bulk)

Change Allowed VLR/SGSN (Bulk) helps the user to provide/change profile name and available VLR/SGSN profile, as the case may be, to multiple subscribers at a stretch (in bulk) to represent the corresponding discrete services. The service is available only when the network access mode is GSM, GPRS or GSM &GPRS.

The screen below shows uploading the file to provide/change profile name.

Change Allowed VLR/SGSN (Bulk)

Note: Upload file format is as below
IMSI

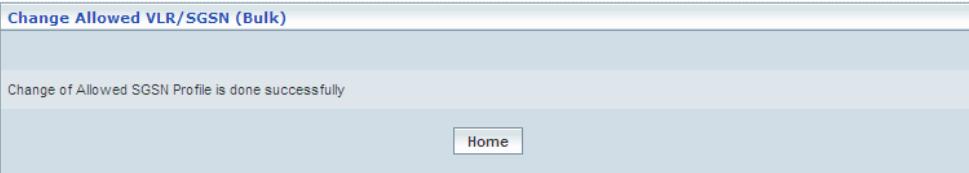
- The file extensions accepted are '.txt' or '.csv'.
- Each IMSI should be in a new separate line.
- IMSI should be numeric.
- IMSI length should be between 15 to 20 digits.

Profile Type | VLR SGSN

Profile Name | vir OCT

Upload | C:\Documents and Setting | Browse...

Submit | Home

STEP	ACTION
1.	User must essentially enter the details related to a new profile where it is a mandatory information  Indicates Mandatory
2.	Select a different profile name from the <Profile Name> drop-down field By default, the existing profile names would be dynamically displayed as drop-down list of the <Profile Name> field
3.	User can make necessary changes / updates to the existing Country Codes / SGSN of the profile. Super and sub-set combination doesn't exist between any two SGSNs of same country
4.	User has option for uploading IMSI numbers using the Upload option and with the help of the Browse button
	Browse for a .txt or .csv file that comprises of multiple IMSIs, each in a new line
5.	On clicking the Submit button, new roaming profile will be updated and a message window to that effect will be displayed  <p>On clicking the Home button of the message window, it directs the user back to the 'Change Allowed VLR/SGSN (Bulk)' screen</p>
6.	On clicking the Home button of the Change Allowed VLR/SGSN (Bulk) screen (before uploading the IMSIs file), it directs the user back to the main page of 'Roaming Management'

18 Reports

18.1 Peg Counts

'Peg Counts' helps the user to provide the information relevant to count of all calls to an access line or trunk group. The Peg count provides the information relevant to the following services.

- **Authentication Count:** Count relevant to the Subscriber Authentication. The Authentication Count displays information with the following.
 - **Total Authentication Count:** *Displays total count of subscriber authentication*
 - **Success Authentication Count:** *Displays count pertinent to the successful subscriber authentication.*
- **LU GSM Count:** Count relevant to location update for all calls. The LU GSM Count displays information with the following.
 - **Total LU GSM Count:** *Displays total location update count of all calls*
 - **Success LU GSM Count:** *Displays count pertinent to the successful location update for all calls.*
- **LU GPRS Count:** Count relevant to Location update for data related transactions. The LU GPRS Count displays information with the following.
 - **Total LU GPRS Count:** *Displays total location update count related to data*
 - **Success LU GPRS Count:** *Displays count pertinent to the successful location update relevant to data.*
- **SRI Count:** Count relevant to SRI (Send Routing Information count) for calls. SRI is a MAP message sent by the GMSC to the HLR to request routing information in order to route a call towards a mobile subscriber. The SRI Count displays information with the following.
 - **Total SRI Count:** *Displays total SRI count of calls.*
 - **Success SRI Count:** *Displays successful SRI count*
- **SRISM Count:** Count relevant to SRISM count for messages. The SRISM Count displays information with the following.
 - **Total SRISM Count:** *Displays total SRISM count of messages.*
 - **Success SRISM Count:** *Displays successful SRISM count*
- **USSD Count:** Count relevant to USSD transactions.
 - **Total USSD Count:** *Displays total USSD count.*
 - **Success USSD Count:** *Displays successful USSD relevant transactions count.*

19 Acronyms and Definitions

Acronym	Definition
3GPP	3rd Generation Partnership Project
ACE	Adaptive Communication Environment
AoCC	Advice of Charge (Charging)
AoCI	Advice of Charge (Information)
AuC	Authentication Center
BAIC	Barring of All Incoming Calls
BAOC	Barring of All Outgoing Calls
BIC-Roam	Barring of Incoming Calls when Roaming Outside the Home PLMN Country
BOIC	Barring of Outgoing International Calls
BOIC-exHC	Barring of Outgoing International Calls except those directed to the Home PLMN Country
CAMEL	Customized Applications for Mobile network Enhanced Logic
CCBS	Completion of Calls to Busy Subscribers
CC	Country Code
CD	Call Deflection
CFB	Call Forwarding on Busy
CFU	Call Forwarding Unconditional
CFNRc	Call Forwarding Not Reachable
CFNRy	Call Forwarding No Reply
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
CNAP	Calling Name Presentation
CoLP	Connected Line Identification Presentation
CoLR	Connected Line Identification Restriction
CSI	CAMEL Subscription Information
CUG	Closed User Group
CW	Call Waiting
D-CSI	Dialed CSI
ECT	Explicit Call Transfer
EH&D	Event Handler & Dispatcher
eMLPP	Enhanced Multi-Level Precedence and Pre-emption
FTN	Forward To Numbers

GMSC	Gateway MSC
GPRS	General Packet Radio System
GPRS-CSI	GPRS CAMEL Subscription Information
GSM	Global System for Mobile Communication
GUI	Graphical User Interface
HLR	Home Location Register
HPLMN	Home Public Land Mobile Network
HOLD	Call Hold
IAM	Initial Address Message
IMSI	International Mobile Subscriber Identifier
LAC	Link Access Control
LSA	Localized Service Area
MC	Multi Call
MCC	Mobile Country Code
MCEF	Mobile-Station-Memory-Capacity-Exceeded-Flag
M-CSI	Mobility Management CSI
MG-CSI	Mobility Management for GPRS CSI
MNC	Mobile Network Code
MNRF	Mobile-Station-Not-Reachable-Flag
MNRG	Mobile-station-Not-Reachable-for-GPRS
MO	Mobile Origination
MO-SMS-CSI	Mobile Originated Short Message Services Camel Subscription Information
MPTY	Multi Party Service
MS	Mobile Station
MSC	Mobile Switching Center
MSP	Mobile Services Platform
MSISDN	Mobile Subscriber ISDN Number
MSRN	Mobile Subscriber Roaming Number
MT	Mobile Termination
MT-SMS-CSI	Mobile Terminated Short Message Services Camel Subscription Information
NANP	North American Numbering Plan
NDC	National Destination Code
NPA	Area Code (Numbering Plan Area)
O-CSI	Originating CSI
PLMN	Public Landline Mobile Network

RAC	Real Application Cluster
RSZI	Regional Subscription Zone Identity
SAN	Storage Area Network
SC	SMS Center
SCF	Service Control Function
SCP	Service Control Point
SGSN	Serving GPRS Service Node
SN	Subscriber Number
SMS	Short Message Service
SoLSA	Support Of Location Service Area
SS7	Signaling System No. 7
SS-CSI	Supplementary Service Invocation Notification CSI
TCAP	Transaction Capabilities Application Part
T-CSI	Terminating CSI
TIF-CSI	Translation Information Flag CSI
TLS	Transport Layer Security
TMSC	Transit MSC
TS	Technical Specification
U-CSI	USSD CSI
UG-CSI	USSD General CSI
USSD	Unstructured Supplementary Service Data
VLR	Visitor Location Register
VMSC	Visiting Mobile Switching Center
VT-CSI	VMSC Terminating CSI