



# ***Mobile Services Platform Administration User Manual***

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## **Revision History**

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## 1 Introduction

**XIUS-Mobile Services Platform (MSP)** is an exhaustive **Convergent Billing and Service Delivery** solution built on a turnkey technology and services platform that offers an innovative business and operational model for **bringing together Mobile Virtual Network Operators (MVNO) and Mobile Network Operator (MNO)**.

Despite MVNO having full control over the SIM card subscription, branding, marketing, billing, customer care operations and any other related services, stipulation of partial access to the Operational Support Systems (OSS) and Business Support Systems (BSS) by the incumbent mobile network operator tend to have certain processes and procedures separated and disconnected from those of the MVNO. This scenario restricts the provisioning of an intelligent and single technology (an integrated and independent platform). To surmount this pain point, XIUS has come up with **MSP** a technology expertise to offer a single and dynamic ecosystem, providing the increased ROI and reduced TCO for all participants.

MSP rightly addresses these complex OSS/BSS infrastructure needs in order to provide the critical customer-facing MNVO services (customer care, order management, billing, assurance) in a multi-partner / multi-network environments and independent wireless network circumstances. MSP supports the complex business process management framework that is required to support the variety of enterprise applications, 3rd party providers and business processes of multiple MVNO.

Besides providing the entire gamut of mobile billing services and promotional offerings, MSP also caters to the provisioning of VAS services to the end customers, giving them the flexibility of being both 'mobile' and 'VAS + Mobile' subscribers. However, MSP outfits to the exact MVNO needs enabling to provide a tailor-made/configurable solution (with the MVNO desired components), and thus ensures the MVNO to pay for what it requires and not for the entire platform.

MSP is a bottom-line solution, which enhances the MVNO' productivity to concentrate on its core business (brand building, customer loyalty, increase ARPU, rollout innovative customer specific services etc) rather than being entangled in network intricacies.

## 2 Acronym and Definition

S.No	Acronym	Definition
1.	BSS	Business Support Systems
2.	HLR	Home Location Register
3.	IP Services	Internet Protocol (Service)
4.	LRN	Location Routing Number
5.	MMSC	Multimedia Messaging Service Center
6.	MNO	Mobile Network Operation
7.	MSP	Mobile Services Platform
8.	MVNO	Mobile Virtual Network Operator
9.	OSS	Operational Support Systems
10.	PLMN	Public Land Mobile Network – services
11.	RSCP	Reverse Service Control Point
12.	SMSC	Short Message Service Center
13.	VOIP	Voice Over Internet Protocol
14.	MSISDN	Mobile Subscriber Integrated Services Digital Network Number
15.	N/w Id	Network Identification (MVNOs Identifier)
16.	ACM	Allow Call Mode
17.	MNP	Mobile Number Portability

### 3 MSP Features

Mobile Services Platform is an exhaustive and integrated web application scalable to the wide spectrum of Telecom Industry needs. This application is a one stop solution that caters to the administration of various independent network operators under a central control system. Nevertheless, the independent network operators shall be provided the freedom of exercising their operations within the sphere of their corresponding network systems.

Super Administrator is the chief of the MSP application who controls the multiple network systems; whereas a Network Administrator is the chief of his / her independent network. However, the operations of a network operator shall be based on the corresponding business scope and the choice of service offerings.

## 3.1 Modules

### 3.1.1.1 Super Administrator

Super Administrator creates various user accounts for multiple network operators and configures their admission or right to use of MSP system based on their individual business scope and their area operations. Super user handles the entire network management through the following modules.

#### ➤ **Network Management**

- Network Details
- System Configuration
- Manage Network Codes
- Language Configuration Details
- Manage Country / State Codes

### 3.1.2 Network Administrator

An authorized network operator can have access to the following modules, however, subject to the extent of admission rights (for using various modules) provided by the Super User in accordance with the Network Operator's business scope. In other words, accessibility of the MSP system by the network operator shall be limited to the area of his / her service offerings in the Telecom space.

- Public Land Mobile Network (PLMN) Services
- Billing Management
- User Management System
- Inter Connect Billing Management

### **3.2 Target Audience / User Types for the Product**

This document is intended for the use of Administrative, Operative and Customer care departments of the XIUS mobile services clients.



### 3.3 Super Administrator Login

Super Administrator login page helps the Super User logging into MSP to create and manage the user accounts of various Network Operators. Besides the creation and management of the user accounts, Super User owns the complete control of the MSP application.

Authorized Network Operators can login to the MSP application with the help of their respective Login IDs and passwords, which enable them to manage their functional operations within their independent networks.

The screen below shows Login page for the Super User.

**WELCOME TO XIUS MSP™**

MSP™ or Mobile Services Platform is a patent pending innovation that access an all-in-one Service Delivery Platform (SDP) for any Virtual Network Operator. It provides convergent homogeneous service experience to the customers of Virtual Network Operators irrespective of their back-end network technology i.e. GSM, GPRS, UMTS, EDGE, CDMA1X, CDMA EVDO-DV, HSPA, UMA, WCDMA etc. Thus, it empowers Virtual Operators with service, pricing and brand flexibility leading to complete customer ownership. Due to its unique, modular, multi-layered and multi-threaded architecture with high-end middleware, it offers quick processing, roll-out of impacting services and configurable in responding to fast changing business requirements. MSP™ is a solution which can facilitate a Virtual Network Operator at any time in its business maturity road map.

**Admin Login**

User Name

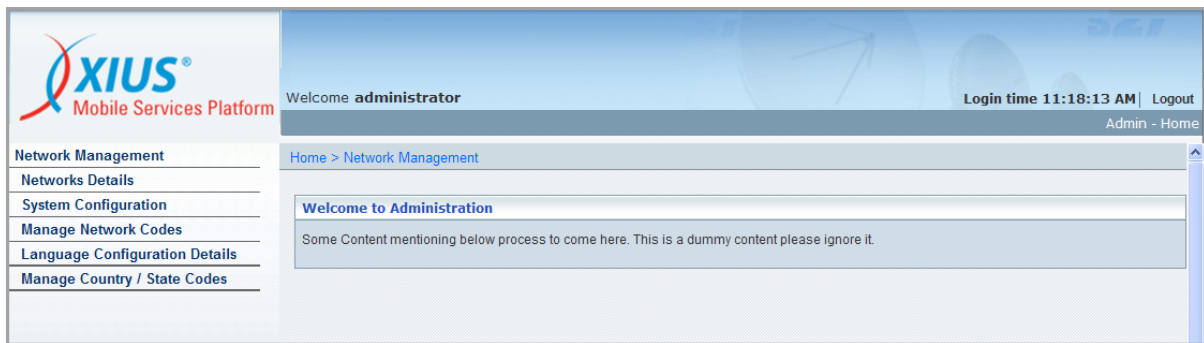
Password

**SUBMIT**

Best Viewed in 1024 x 768 pixel settings [ IE 6.x or Firefox 2.x ]

STEP	ACTION
1.	Super User to enter his / her valid user name and password in their respective <User Name> and <Password> fields.
2.	On clicking the <b>SUBMIT</b> button, 'Administrator Home Page' will be displayed, enabling the Super User to access the related modules.

The screen below shows the Super User (Administrator) Home Page.



### 3.3.1 Network Details

[Network Management](#) → [Network Details](#)

'**Network Details**' allows the Super User (**SU**) creating and managing (activate, deactivate and password change etc.) the user accounts for various Network Operators.

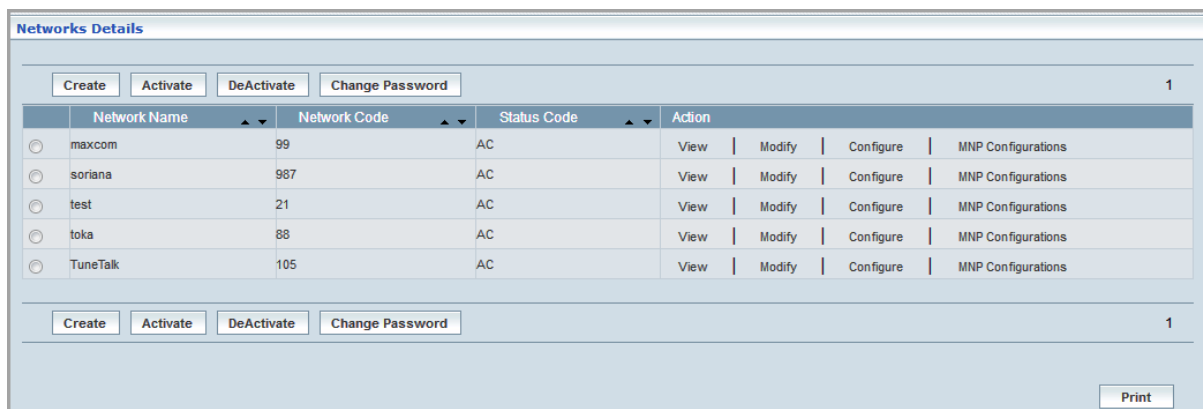
This screen further allows the user to perform following actions:

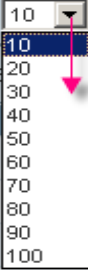
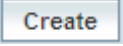
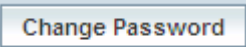


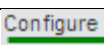
- View Network Details
- Modify Network Details
- Configure (certain) Network Details


This sub-module also helps to fetch a single record (details related to any given Network) with the help of the '**Search**' option based on the provided search criterion. The search criteria include: Network Name and Network Code.

Initially, the list of existing Networks (Network User Accounts) will be displayed in a grid.

The screen below shows the creation & management of User Accounts of the different Network Operators.



STEP	ACTION
1.	By default, list of records for the existing Network Operators (the corresponding User Accounts) will be displayed in a grid. The columns include 'Network Name', 'Network Code', 'Status Code' and 'Action'
	User can customize the view for the number of records to be displayed each time (per page) in a grid.
	Select the number of records (For Ex: 10) from the drop-down list of the <View Per Page> field.
	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.
	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' <b>1 2</b>
3.	User can sort the records in ascending and descending orders with the help of up-arrow ▲ and down-arrows ▼ respectively.
4.	'Status Code' indicates status ('Active - <b>AC</b> ' or 'Inactive - <b>DA</b> ') of the User Account (Network Operator).
5.	On clicking the  button, 'Create Network' screen will be displayed, which enables the user to create a new Network.
6.	User can <b>activate or deactivate</b> the user account (Network Operator's Account) by the Super Administrator accordingly and as required.
7.	On clicking the  button, 'Change Password' screen will be displayed, which enables the <b>SU</b> to change password of the user account (Network Operator's Account).
8.	On clicking the  link of a chosen network, the corresponding details will be displayed in a separate screen.
9.	On clicking the  link of a chosen network, the corresponding details will be displayed in a separate screen, which enables the <b>SU</b> to update / modify network details.
10.	On clicking the  link of a chosen network, 'Configure Details' screen will be displayed, which enables the user to configure / update existing configuration related to the new / existing Network accordingly and as the case may be.

11.	On clicking the <a href="#">MNP Configurations</a> link of a chosen network, 'Port Out Configurations' screen will be displayed,
12.	User can print the list of records with the help of  button at the left bottom of the screen.

**Create:**

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

Create Network

Indicates Mandatory

Please Enter the Valid Data Formats as shown in example

- Network name,Description,password,confirm password,Address, Country,State,City,Browser Display,IMSI Series, Maximum Subscribers,Max log attemp,Sublog attemp,SMS threshold,Voucher prefix,Supp charge1,Supp charge2, Supp charge3,Suppcharge4,Default pin,Camel code,Net code,G2bal ret,Personal emergency call flag, Personal emergency call count,Promo Flag,VCC MSISDN series,Roaming Across Home Country,VMS Number, Status Transit Flag,MSISDN Length,Domain Name,Domain IP Address, LRR Group Id,Sip Group Id, Ring Tone Alert Info URL,Ring Back Tone Alert Info URL,First threshold,Second threshold.
- Checkin for Personal emergency call flag activates Personal emergency call count for insertion of data

Note:

- VCC MSISDN series is positive integer
- Domain Name can be IP address or Domain Name.
- Ring Tone Alert Info URL,Ring Back Tone Alert Info URL should start with "http://" or "https://". URL should not end with "?"
- MSISDN value length should be 8 or 10.

e.g Acmenet,AcmeDesc,AcmePassword,AcmeConfirm,AcmeAddress,AcmeCounty,AcmeState,AcmeCity, Acme Description,1111111,1111111,12,2,22,22,AcmeSupply,AcmeSupply,AcmeSupply,AcmeSupply,2222, 1111,2121,Yes/No,Check/Uncheck,00,Check/Uncheck,0000,Check/Uncheck,1111,Yes/No,8 or 10, yahoo.com(or)111.111.111.111,111.111.111,http://www.acme.com,http://www.acme.com,5.00,0.00.

Network Name	LoopUsers
Description	LoopUsers creation
Network Chief Password	*****
Confirm Password	*****
Network Address	NW
Country	INDIA
State	MAHARASHTRA
City	Mumbai
Browser Display	LoopUsers
IMSI Prefix	12345
Maximum Subscribers for this Network	
Max Operator Failed Login Attempts	5
Maximum Subscriber Login Attempts	5
SMS Threshold(Rs )	50
Voucher Prefix	05
Supply Charge1 Title	Loop
Supply Charge2 Title	Loop
Supply Charge3 Title	Loop
Supply Charge4 Title	Loop
Subscriber Default PIN	789
Camel Node Id	789
Network Code	9
G2 balance Retention	Yes
Personal emergency call flag	<input checked="" type="checkbox"/>
Personal emergency call count	5
Promo flag	<input type="checkbox"/>
VCC MSISDN series	
Roaming Across Home Country	<input type="checkbox"/>
VMS Number	
Status Transit Flag	Yes
MSISDN Length	9

VOIP Configuration Details

Note: Check the box for enabling VOIP configuration details.

Domain Name	Network
Domain IP Address	
LRR GroupId	789
SIP GroupId	789
RingTone AlertInfo URL	LoopUsers
RingBackTone AlertInfo URL	LoopUsers

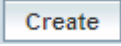
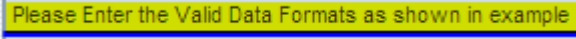
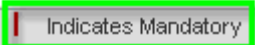


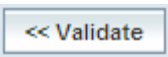
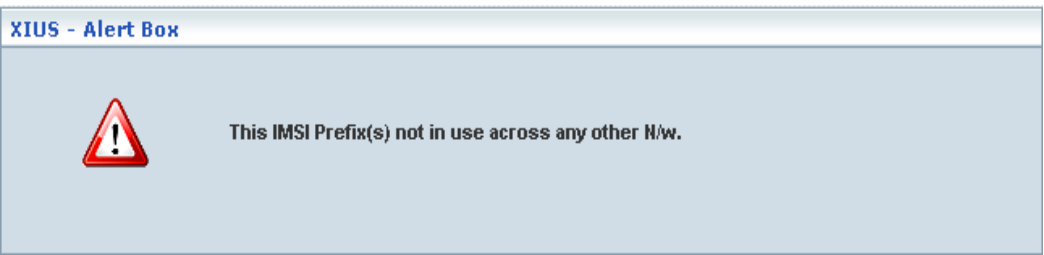
Low Balance Notification


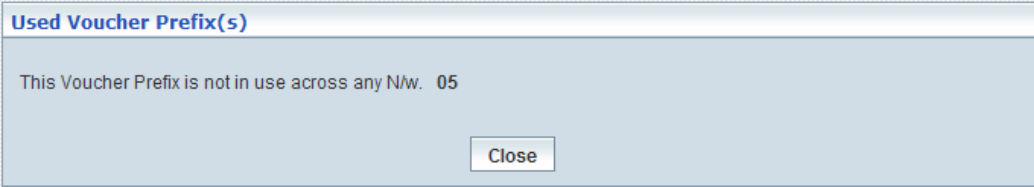
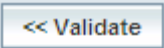
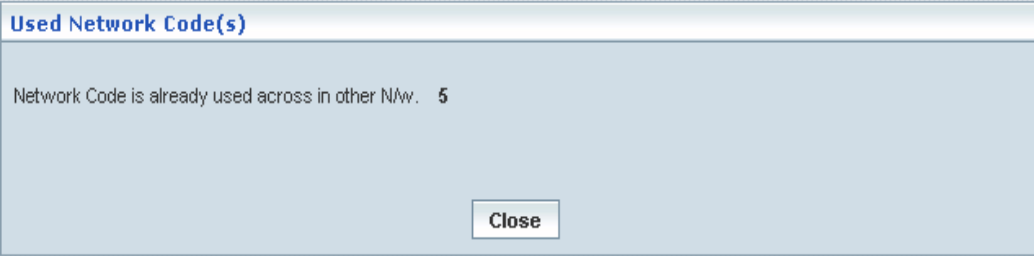
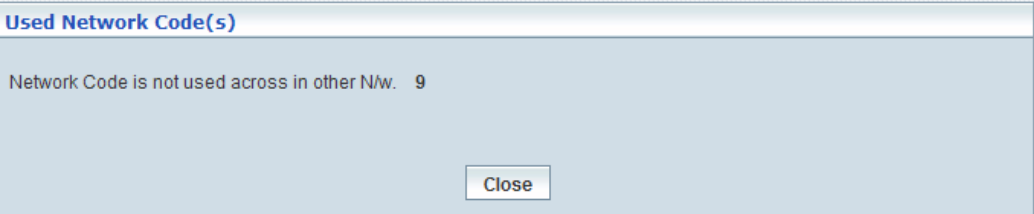



Note : Please check the box for enabling the Low Balance Notification.

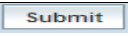
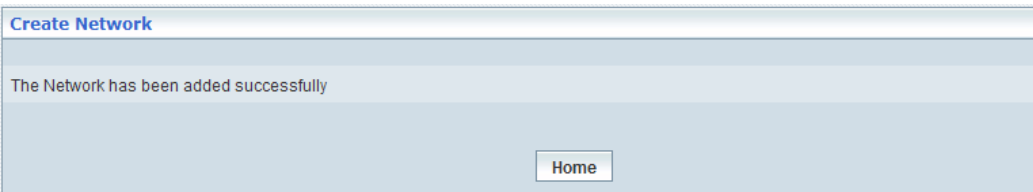

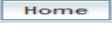
First Threshold	
Second Threshold	

Submit


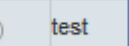
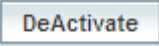
Home

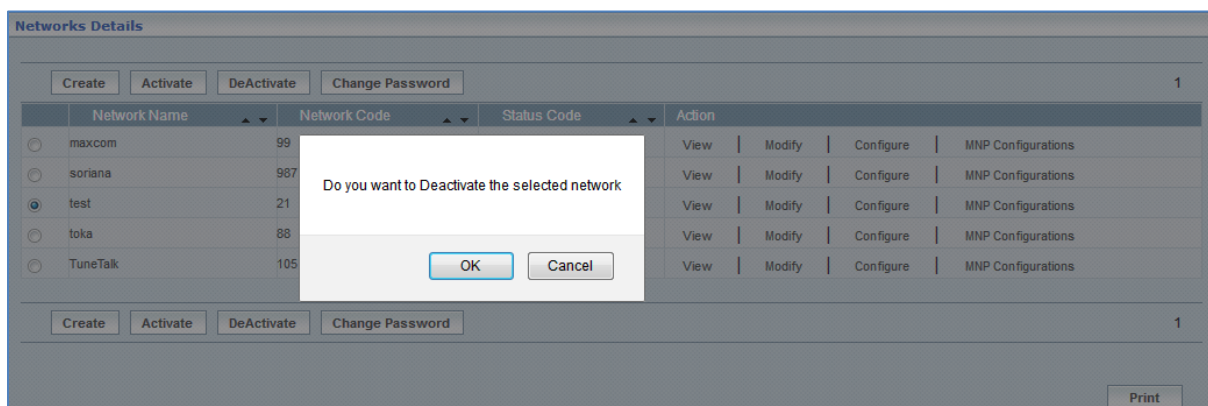
STEP	ACTION
1.	<b>Create User Account:</b> On clicking the  button, 'Create Network' screen will be displayed, enabling the user to create a <b>new user account</b> by entering the details of a Network Operator in the relevant fields.
2.	User must go through and follow the guidelines (provided in an example) before specifying the details of a Network Operator. Dynasty 
3.	User must essentially enter the details of the Network Operator (User Account) where it is mandatory. 
4.	<p><u>IMSI Prefix:</u></p> <p>Minimum length of IMSI Prefix must be 5 and maximum 15 digits and it must be unique, thus needs to be validated for duplication.</p> <p>User can enter multiple IMSI Prefix values to a network (each at a time) and by clicking the right arrow  button, the given IMSI Prefix will be moved to the adjacent list box.</p> <p><b>To remove an IMSI Prefix value from the group:</b> Select the IMSI Prefix that needs to be removed from the list box and by clicking the left arrow  button, the same will be removed.</p> <p>However the proposed group of IMSI Prefix values has to be unique and thus needs to be validated for duplication.</p> <p>On clicking the  button, it displays a message window indicating if the IMSI Prefix(s) is used or not in use across any other network.</p> <div data-bbox="379 1355 1428 1608">  <p>This IMSI Prefix(s) not in use across any other N/w.</p> </div>

5.	<p><u>Voucher Prefix:</u></p> <p>Length of Voucher Prefix must be 2 digits and unique, thus needs to be validated for duplication.</p> <p>On clicking the  button, it displays a message window indicating if the given Voucher Prefix is already used or not used across in another network.</p> 
6.	<p><u>Network Code:</u></p> <p>Minimum length of Network Code must be 1 and maximum of 5 digits and it must be unique, thus needs to be validated for duplication</p> <p>On clicking the  button, it displays a message window indicating if the given Network Code is already used or not used across in other network</p>  
7.	<p><b><u>VOIP Configuration Details:</u></b></p> <p>Only after selecting the  check box, the 'VOIP Configuration Details' fields will be activated, enabling the user to enter data accordingly</p> <p><u>Domain IP Address:</u></p> <p>User can enter multiple Domain IP Addresses to a network (each at a time) and by clicking the right arrow  button, the given Domain IP Address will be moved to the adjacent list box</p> <p>However, each Domain IP Address of the group must be unique</p> <p><b>To remove a Domain IP Address from the group:</b> Select the Domain IP Address that needs to be removed from the list box and by clicking the left arrow  button, the same will be removed</p>

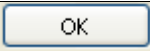

<b>8.</b>	<p><b><u>Low Balance Notification:</u></b></p> <p>Only after selecting the <input checked="" type="checkbox"/> check box, the 'Low Balance Notification' fields will be activated, enabling the user to enter data accordingly</p> <p>First threshold value must be less than or equal to 5 and must always be greater than Second threshold value</p>
<b>9.</b>	<p>On clicking the  button, the new user account will be created and saved to the records grid. By default, the New Network User Account shall be active</p> <p>It automatically redirects the user to the records grid, where the New User record is appended to the existing list of records. A message window will be displayed to that effect</p> 
<b>10.</b>	<p>On clicking the  button, it clears the screen (before submitting the details), enabling the user to enter the details afresh</p>
<b>11.</b>	<p>On clicking the  button, it only redirects the user back to the (Network) records grid</p>

### Deactivate:

To deactivate a network (that is active), user must select the radio option   of a chosen network. By clicking the  button, an alert message window will be displayed enabling the user to confirm deactivation of the network. The screen below shows deactivation of a (Network) User Account.





STEP	ACTION
1.	On clicking the  button of the alert message window, corresponding network details will be displayed in a separate screen, enabling the user to deactivate
2.	On clicking the  button of the alert message window, it retains the network records grid without any action

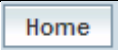
The screen below shows confirming the deactivation of the chosen (Network) User Account.

**Deactivate Network**


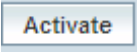
Network status De-activated successfully

Network Name	test
Description	test
Network Address	test
City	Hyderabad
State	ANDHRA PRADESH
Country	INDIA
Browser Display	test
Creation Date	Mar-14-2017
Status( Ex )	Active
Max Operator Failed Login Attempts	10
Voucher Prefix	54
SMS Threshold( RM )	9
Supply Charge1 Title	a
Supply Charge2 Title	b
Supply Charge3 Title	c
Supply Charge4 Title	d
Maximum Subscriber Login Attempts	9
Subscriber Default PIN	1111
Network Code	21
Camel Node Id	45

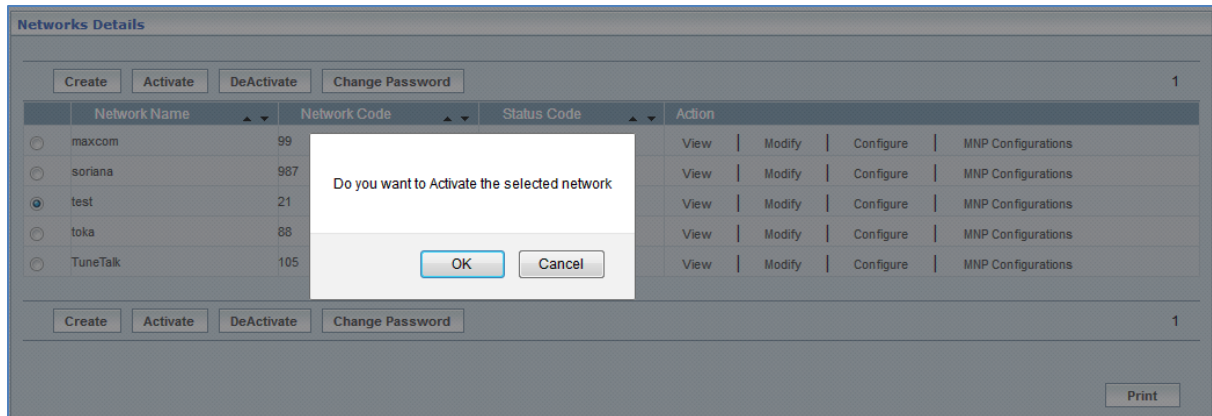
Home

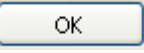
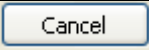
STEP	ACTION
1.	On clicking the  button of the 'Deactivation Details' screen, 'deactivation' shall be effective and it redirects the user back to the records grid. Corresponding 'Status Code' of the user (Network Operator) will be dynamically changed to <b>inactive 'DA'</b>

## Activate:

To activate a network (that is inactive), user must select the radio option  test of a chosen network. By clicking the  button, an alert message window will be displayed enabling the user to confirm activation of the network

The screen below shows activation of a (Network) User Account.



STEP	ACTION
1.	On clicking the  button of the alert message window, corresponding network details will be displayed in a separate screen, enabling the user to activate
2.	On clicking the  button of the alert message window, it retains the network records grid without any action

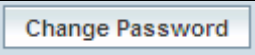

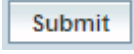
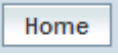
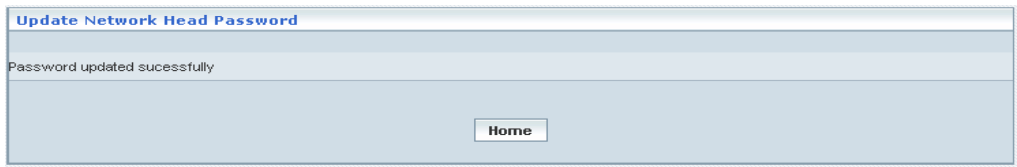
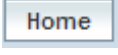
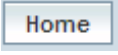
The screen below shows confirming the activation of the chosen (Network) User Account.

Activate Network	
Network status Activated successfully	
Network Name	test
Description	test
Network Address	test
City	Hyderabad
State	ANDHRA PRADESH
Country	INDIA
Browser Display	test
Creation Date	Mar-14-2017
Status( Ex )	Deactive
Max Operator Failed Login Attempts	10
Voucher Prefix	54
SMS Threshold( RM )	9
Supply Charge1 Title	a
Supply Charge2 Title	b
Supply Charge3 Title	c
Supply Charge4 Title	d
Maximum Subscriber Login Attempts	9
Subscriber Default PIN	1111
Network Code	21
Camel Node Id	45
<input type="button" value="Home"/>	

STEP	ACTION
1.	On clicking the <input type="button" value="Home"/> button of the 'Activation Details' screen, 'activation' shall be effective and it redirects the user back to the records grid. Corresponding 'Status Code' of the user (Network Operator) will be dynamically changed to <b>active 'AC'</b>

**Change Password:**

The screen below shows changing the password for the selected User Account.

STEP	ACTION
1.	<b>Change Password:</b> In the <b>Network Details</b> screen, select a network name to change the password of a user account (Network Operator).
	<p>On clicking the  button, it displays the corresponding user account (Network Operator account) 'Password Change' screen (for Ex:  )</p> <p>User to enter new password and confirm the password in &lt;Password&gt; and &lt;Confirm Password&gt; fields respectively.</p> <p>On clicking the  button, the new password will be effective and the same can be used by the concerned Network Operator. Password change message will be displayed to that effect with a  button at the bottom of the message window.</p>  <p>On clicking the  button of the 'Message Window', it redirects the user back to the records grid</p> <p>On clicking the  button of the 'Change Password' screen prior to any changes made, it redirects the user back to the records grid.</p>

**View**

The screen below shows the 'View' of the User Account details.

View Network	
Network Name	LoopUsers
Description	LoopUsers creation
City	Mumbai
Network Address	NW
Country	INDIA
Browser Display	LoopUsers
Max Operator Failed Login Attempts	5
Creation Date	Feb-21-2014
Status	Active
SMS Threshold( Rs )	50
Voucher Prefix	05
Supply Charge1 Title	Loop
Supply Charge2 Title	Loop
Supply Charge3 Title	Loop
Supply Charge4 Title	Loop
Maximum Subscriber Login Attempts	5
Subscriber Default PIN	789
Network Code	9
State	MAHARASHTRA
Camel Node Id	789
Personal emergency call flag	Yes
Personal emergency call count	5
Promo flag	No
VCC MSISDN series	0
Domain Name	-
Domain IP Address	-
G2 balance Retention	Yes
LRR GroupId	-
SIP GroupId	-
RingTone AlertInfo URL	-
RingBackTone AlertInfo URL	-
IMSI Prefix	12345
Maximum Subscribers for this Network	0
Roaming Across Home Country	No
VMS Number	-
First Threshold	-
Second Threshold	-
Status Transit Flag	Yes
MSISDN Length	9
NDC Length	1
<div>Home</div> <div>Print</div>	

STEP	ACTION
1.	On clicking the <a href="#">View</a> link of a chosen Network Operator (record), corresponding details of the Operator will be displayed in a screen
	User can print the details with the help of <a href="#">Print</a> button at the bottom of the screen
	On clicking the <a href="#">Home</a> button, it redirects the user back to the records grid

## Modify:

The screen below shows 'Modifying/Updating' the User Account details

**Modify Network**
Indicates Mandatory

Please Enter the Valid Data Formats as shown in example

- Network name,Description,Network address,City,Browser display,IMSI Series,Maximum Subscribers,Number of failed attempts.
- Network code,Camel node Id,G2 balance retention,Personal emergency call flag,Personal emergency call count,Roaming Across Home Country,VMS Number, Status Transit Flag,MSISDN Length,Domain name,Domain IP address, LRR Group Id,Sip Group Id, Ring Tone Alert Info Uri,Ring Back Tone Alert Info Uri,First threshold,Second threshold.
- Checkin for Personal emergency call flag activates Personal emergency call count for insertion of data.
- Domain Name can be IP address or Domain Name.
- Ring tone,Ring Back tone should start with "http://" or "https://",uri should not end with "/".
- MSISDN value length should be 8 or 10.

Eg: AcmeNet,AcmeDesc,Acme address,AcmeCity,AcmeDisplay,111111,11111111,12,2,22,[Yes/No],  
[Check/Uncheck],11,1111,[Yes / No],8 or 10,yahoo.com (or  
111.111.111.111),111.111.111.111,111,111,http://www.acme.com,  
http://www.acme.com,5,00,0,00.

Network Name	<input type="text" value="LoopUsers"/>
Description	<input type="text" value="LoopUsers creation"/>
Network Address	<input type="text" value="NW"/>
Country	INDIA
State	MAHARASHTRA
City	<input type="text" value="Mumbai"/>
Browser Display	<input type="text" value="LoopUsers"/>
IMSI Prefix	<input type="text" value="12345"/> <input type="button" value="Validate"/>
Maximum Subscribers for this Network	<input type="text" value="0"/>
Max Operator Failed Login Attempts	<input type="text" value="5"/>
Maximum Subscriber Login Attempts	<input type="text" value="5"/>
Network Code	9
Camel Node Id	<input type="text" value="789"/>
G2 balance Retention	<input type="text" value="Yes"/>
Personal emergency call flag	<input checked="" type="checkbox"/>
Personal emergency call count	<input type="text" value="5"/>
Promo flag	<input type="checkbox"/>
VCC MSISDN series	0
Roaming Across Home Country	<input type="checkbox"/>
VMS Number	<input type="text"/>
Status Transit Flag	<input type="text" value="Yes"/>
MSISDN Length	<input type="text" value="9"/>

**VOIP Configuration Details**


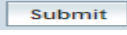
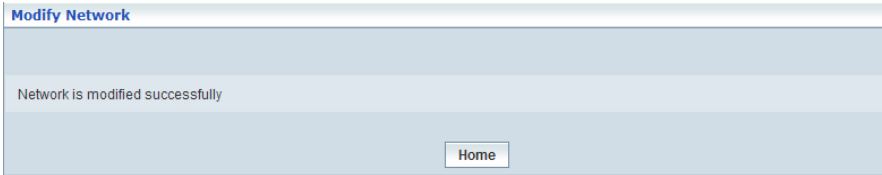


Note: Check the box for enabling VOIP configuration details. ☐

Domain Name	<input type="text"/>
Domain IP Address	<input type="text"/>
LRR GroupId	<input type="text"/>
SIP GroupId	<input type="text"/>
RingTone AlertInfo URL	<input type="text"/>
RingBackTone AlertInfo URL	<input type="text"/>

**Low Balance Notification**

Note: Please check the box for enabling the Low Balance Notification. ☐

First Threshold	<input type="text"/>
Second Threshold	<input type="text"/>

STEP	ACTION
1.	On clicking the  link of a chosen Network Operator (record), corresponding details of the Operator will be displayed in a screen
2.	<p>User can modify or update the details related to Network Operator as appropriate</p> <p>On clicking the  button, the (Network User Account) record gets updated and redirects the user back to the records grid. A message window will be displayed to that effect</p>  <p>On clicking the  button of the message window, it directs the user back to the records grid</p>
	On clicking the  button, it only redirects the user back to the records grid

### Configuration:

'Configuration' link helps the user configuring the following elements to the chosen network:

- **Account De-Activation** - When the balance related to a mobile subscriber account pertaining to the (Network) is constantly 0 (zero) for more than 30 days, the same shall be deactivated
- **HLR Integration** - Choosing an option to allow the chosen network to integrate with HLR or to withdraw an existing integration with HLR as the case may be and accordingly
- **MSISDN Activation** - Select "Yes" for NPA-NXX based MSISDN configuration and "No" for NON NPA-NXX based MSISDN configuration
- **RMS Integration** - Choosing an option to allow the chosen network to integrate with Roaming Management Server (RMS) or to withdraw an existing integration with RMS as the case may be and accordingly
- **Optional Service Charge Flag** - It facilitates the network to determine the option of charging or not charging (charge free) the subscriber in the event of Voice Mail Service (VMS) activation
- **NPDB Check Flag** - It facilitates the network to determine the option of allowing number portability feature
  - Number portability is a support feature provided by the network to other networks. In the event of a subscriber moving to other network and wants

to retain the same mobile number that of the former network, if any mismatch (inconsistency) occurred / faced at/by the other network during retention of the same mobile number, former network (maintains a log / database of the entire ported numbers) sends the details of the subscriber including the mobile number to the other network. This feature is known as number portability

- **Location Routing Number (LRN) Prefix Flag** – It facilitates the network to determine the option of allowing LRN Prefix feature
  - LRN Prefix here in this context refers to an identity code / prefix number associated with subscriber ID specific (inherent) to a MVNE. In other words, subscribers having their IDs associated with a specific LRN Prefix would be recognized as subscribers belonging a particular MVNE
- **Call Type Free SMS Flag** – It facilitates the network to determine the option of configuring a mode of Call Type Free SMS
  - Call Type Free SMS is a promotional feature provided by the network to its subscribers. Free SMS refers SMS allowed to a subscriber for free of charge in contemplation either with the configured number of SMS (count) or fixed amount accordingly and as the case may be. Free SMS configurations shall be carried out through Billing Management module with the help of Tariff Plan creation link (at subscriber's services level). Again, Call Type Free SMS can be configured in the following two ways:
    - General mode that is nonspecific to the SMS call type – In this case, only thresholds [maximum number of SMS (count) or maximum amount that could be relinquished for free of charge] are configured and irrespective of SMS call type (Local / National / International), the fixed number or amount would be decremented in accordance with the subscriber's usage of SMS
    - Mode that is specific to SMS call type – In this case thresholds [maximum number of SMS (count) or maximum amount that could be allowed to be relinquished for free of charge] are configured discretely and specific to SMS call type (Local / National / International), and the corresponding fixed number or amount would be decrement in accordance with the subscriber's usage of Local / National / International SMS respectively.
- **Credit Limit Flag** – It facilitates the network to determine the option of configuring Credit Limit service provisioning by the network, which enables the Customer Care to configure and manage the mobile subscribers' account credit limits



- Credit Limit service provision is an optional feature provided by the network to its subscribers. Credit Limit here in this context refers to the subscriber's account credit limit. This can be configured and managed with respect to the pre-defined credit limit features
  - By default, the Credit Limit Flag is set to **<NO>** for a network. However, it is at the network operator's discretion to set this option to **<YES>** to provide credit limit services to the mobile subscribers. With the effect of Credit Limit Flag set to **<YES>**, Customer Care Personnel is entitled to carry out the credit limit functionality
  - On the other hand, if Credit Limit Flag is set to **<NO>**, the option of managing the subscribers' accounts credit limit by the Customer Care Personnel is not possible, and hence this feature would be disabled
- **Volume Based Data Call Flag** – It facilitates the user (network operator) to configure the provision of Happy Hours privilege on Volume Based Data services that would be eventually provided to the end users
  - By default, the Volume Based Data Call Flag is set to **<NO>** for a network. However, it is at the network operator's discretion to set this option to **<YES>** to provide Happy Hours privilege on Volume Based Data services to the mobile subscribers
  - On the other hand, if Volume Based Data Call Flag is set to **<NO>**, Happy Hours privilege on Volume Based Data services feature would be disabled
- **ESME Flat charge (Rs)** - Enter a value for ESME Flat cost / charge
- **SMS Expiry Notification Days** - To enter a time frame representing number of days that would be reckoned for sending prior notification related to subscriber's account expiry date
- **Message Types** – Its facilitates the user to select the following three message types to enable interfacing with the network
  - IVRS – Select IVRS flag for IVRS Message Type
  - USSD – Select USSD flag for USSD Message Type
  - SMS – Select SMS flag for SMS Message Type
- **Pseudo MSISDN Flag** – It facilitates the user (network operator) to configure the provision of pseudo MSISDN to a prospective mobile subscriber instead of provisioning the actual mobile number at the time of registering as the network subscriber (end subscriber)
  - By default, the Pseudo MSISDN Flag is set to **<NO>** for a network. However, it is at the network operator's discretion to set this option to **<YES>** to provide pseudo MSISDN provisioning privilege to the mobile subscribers

- On the other hand, if the Pseudo MSISDN Flag is set to **<NO>**, pseudo MSISDN provisioning privilege to the mobile subscribers feature would be disabled
- **Pseudo MSISDN Series** - This series is used for Pseudo MSISDN configuration.
- **Max Transfer Per Day** - This series is used to specify maximum number of transfers a subscriber can do in a day.
- **Max Amount Per Day Transferor** - This is used to specify maximum amount that Transferor can do in a day.
- **Max Amount Per Day Transferee** - This is used to specify maximum amount that Transferee can do in a day.
- **Max Subscriber Accounts Per Id** - This is used to specify maximum number of accounts that a subscriber can have.
- **Low Balance Notify Type:** Its facilitates the user to select the following three low balance notify types to send notification
  - SMS - Select SMS to send notification about Low Balance through SMS
  - USSD - Select USSD to send notification about Low Balance through USSD
  - SMS & USSD - Select SMS & USSD to send notification about Low Balance through SMS & USSD
  - API - Select API to send notifications about Low Balance through API
- **Selfcare Change MSISDN Free Hours** - This is used to specify Selfcare Change MSISDN Free Hours.
- **MSISDN Lock Max Sec for USSD** - This is used to specify MSISDN Lock Max Sec for USSD.
- **MSISDN Allocation Allowed Max Hours** - This is used to specify MSISDN Lock Max Sec for Selfcare.
- **IVR / VMS PIN Reset Flag** - It facilitates the user (network operator) to configure the mechanism of reckoning the last four digits of SIM or MSISDN by the IVR or VMS accordingly and as the case may be
  - By default, the IVR / VMS PIN Reset Flag is set to **<NO>** for a network and the IVR / VMS PIN reckons the last four digits of MSISDN
  - On the other hand, if IVR / VMS PIN Reset Flag is set to **<YES>** for a network, the IVR / VMS PIN reckons the last four digits of SIM
- **Subscribe Expiry Notification** - It facilitates the user to select the following three subscriber expiry notification types to send notification
  - SMS - Select SMS to send notification about Low Balance through SMS
  - USSD - Select USSD to send notification about Low Balance through USSD
  - SMS & USSD - Select SMS & USSD to send notification about Low Balance through SMS & USSD

- **Subscriber Level One Notification Days** – It is used to configure subscriber level one notification days
- **Subscriber Level Two Notification Days** – It is used to configure subscriber level two notification days. Subscriber Level Two Notification Days should be less than Subscriber Level One Notification Days (Except for "0")
- **Maximum Trouble Tickets for Subscriber Per Day** – It is used to configure maximum tickets a subscriber can post per day
- **FNF Terminating Rate Flag**
  - By default, the FNF Terminating Rate Flag is set to **<NO>** then FNF Terminating Rate feature would be disabled
  - On the other hand, if FNF Terminating Rate Flag is set to **<YES>** then FNF Terminating Rate feature would be enabled
- **Rating Based on LRN Flag**
  - By default, the Rating Based On LRN Flag is set to **<NO>** then Rating Based On LRN feature would be disabled
  - On the other hand, if Rating Based On LRN Flag is set to **<YES >** then Rating Based On LRN feature would be enabled
- **AAA Radius Integration Flag**
  - By default, the AAA Radius Integration Flag is set to **<NO>** then to communicate with other AAA.
  - On the other hand, if AAA Radius Integration Flag is set to **<YES >** then to communicate with own AAA.
- **Ported Out EOD Max Expiry Days** – It is used to configure Ported Out EOD Max Expiry Days.
- **Max Credit Amount Per Transfer for Subscriber** – It is used to configure Max Credit Amount Per Transfer for Subscriber.
- **Max Days for Process PORT-IN Terminate** - Its is used to configure Max No of Days for Processing PORT-IN Terminating request

- **Retain Amount In Customer Group Flag**

- By default, the Retain Account In Customer Group Flag is set to **<NO>** then accounts are retained at Customer Group on account status does not change in current Operator
- On the other hand, if Retain Account In Customer Group Flag is set to **<YES>** accounts are retained at Customer Group on account status change in current Operator

- **Port Out Status Flag for Transit Status**

- By default, the Port Out Status Flag for Transit Status is set to **<NO>** for port out request is not processed at Source level when the of requested Mobile Number is in Transit state.
- On the other hand, if Port Out Status Flag for Transit Status is set to **<YES>** to process port out request at Source level when the of requested Mobile Number is in Transit state.

- **Port Out Status Flag for Active Status**

- By default, the Port Out Status Flag for Active Status is set to **<NO>** for port out request is not processed at Source level when the of requested Mobile Number is in Active state.
- On the other hand, if Port Out Status Flag for Active Status is set to **<YES>** to process port out request at Source level when the of requested Mobile Number is in Active state.

- **Port Out Status Flag for Grace Period I Status**

- By default, the Port Out Status Flag for Grace Period I Status is set to **<NO>** for Port out request is not processed at Source level when the of requested Mobile Number is in Grace Period I state.
- On the other hand, if Port Out Status Flag for Grace Period I Status is set to **<YES>** to process port out request at Source level when the of requested Mobile Number is in Grace Period I state.

- **Port Out Status Flag for Grace Period II Status**

- By default, the Port Out Status Flag for Grace Period II Status is set to **<NO>** for Port out request is not processed at Source level when the of requested Mobile Number is in Grace Period II state.
- On the other hand, if Port Out Status Flag for Grace Period II Status is set to **<YES>** to process port out request at Source level when the of requested Mobile Number is in Grace Period II state.

- **Tenure Plan Process Flag**

- By default, Tenure Plan Process Flag is set to **<NO>** for not to apply the Tenure Plan Process for this selected network

- On the other hand, if Tenure Plan Process Flag is set to **<YES>** to apply the Tenure Plan Process for this selected network.
- **Vip MSISDN Vs Vip Order Retain Status**
  - By default, Vip MSISDN Vs Vip Order Retain Status is set to **<NO>** to retain VIP MSISDN vs VIP OrderId in VIP FreePool only for this selected network
  - On the other hand, if Vip MSISDN Vs Vip Order Retain Status is set to **<YES>** not to retain VIP MSISDN vs VIP OrderId in VIP FreePool Only for this selected network.
- **CUG Default VOICE Calendar**
  - Select a default voice calendar for CUG from the drop down list in order to make a call with the selected calendar.
- **CUG Default SMS Calendar**
  - Select a default SMS calendar for CUG from the drop down list
- **CUG Default DATA Calendar**
  - By selecting the options provided a default calendar can set for CUG
- **Offnet Numbers Allowed Flag**
  - By default, Offnet Numbers Allowed Flag is set to **<NO>**
  - If the Offnet Numbers Allowed Flag is set to **<YES>**, the configuration is applicable to the selected network.
- **Max FNF Offnet Numbers Allowed**
  - By specifying a number it is possible to restrict the FNF offnet numbers can be allowed
- **Max SMS Offnet Numbers Allowed**
  - By specifying a number it is possible to restrict the offnet numbers for SMS
- **Max Offnet Numbers Allowed**
  - By specifying a number it is possible to restrict the offnet numbers can be allowed
- **FNF Allow SMS Flag**
  - By default, FNF Allow SMS Flag is set to **<NO>**
  - If the FNF Allow SMS Flag is set to **<YES>**, the configuration is applicable to the selected network

- **Currency**
  - By specify the currency it is possible to set the currency to the selected network
- **Customer Name**
  - Specify customer name
- **Allow Negative Balance for debit request**
  - By default, Allow Negative Balance for debit request is set to **<NO>**
  - If the Allow Negative Balance for debit request is set to **<YES>**, the configuration is applicable to the selected network.
- **Bulk benefit to subscriber notification**
  - By selecting a preferred channel such as SMS/USSD/SMS & USSD from the drop down list, it is possible to send a notification (through the selected channel) about subscriber's bucket subscription or bucket benefit.
- **GST Applicable Date**
  - Select a date on which to apply the tax
- **GST Percentage**
  - By specifying the number it is possible to apply the respective/same percentage on tax
- **Top-up Amount Tax Inclusive Y/N**
  - By selecting the check box, enables to include the tax amount along with the top-up amount. Hence, the left over amount (after the tax deduction) only replenished to the subscriber's account.
  - By de-selecting the checkbox, enables to collect the tax amount along with the top-up amount.
- **Allow Calls in Unknown VLR**
  - Select **Yes** to allow the calls form an unknown VLR
  - Select **No** to restrict calls from an unknown VLR
- **Allow Calls in G2 G3 G4**
  - Select **Yes** to allow calls, when the subscriber's account status is in Grace Period2 (G2), G3 and G4
  - Select **No** to restrict calls when the subscriber's account status is in G2, G3 and G4.
  - Select **Service Numbers** to allow calls only from service numbers when subscriber's account status in G2, G3 and G4.
- **Allow Roaming Calls in G2 G3 G4**
  - Select **Yes** to allow roaming calls, when the subscriber's account status is in Grace Period2 (G2), G3 and G4

- Select **No** to restrict roaming calls when the subscriber's account status is in G2, G3 and G4.
  - Select **Service Numbers** to allow calls only from service numbers when subscriber's account status in G2, G3 and G4.
- **Allow Calls in G1 Status**
  - Select **Yes** to allow calls, when the subscriber's account status is in Grace Period1 (G1)
  - Select **No** to restrict calls when the subscriber's account status is in G1
  - Select **Service Numbers** to allow calls only from service numbers when subscriber's account status in G1
- **Allow Roaming Calls in G1 Status**
  - Select **Yes** to allow roaming calls, when the subscriber's account status is in Grace Period1 (G1)
  - Select **No** to restrict roaming calls when the subscriber's account status is in G1
  - Select **Service Numbers** to allow calls only from service numbers when subscriber's account status in G1
- **Allow Calls In TR Status**
  - Select **Yes** to allow calls, when the subscriber's account is in transit (TR) status
  - Select **No** to restrict calls when the subscriber's account is in transit (TR) status
  - Select **Service Numbers** to allow calls only from service numbers when the subscriber's account is in transit (TR) status
- **Allow Local MT Calls In G1 Status**
  - Select **Yes** to allow local MT (Mobile Terminating) calls while the subscriber's account is in G1 status
  - Select **No** to restrict the local MT calls while the subscriber's account is in G1 status
- **Allow Local MO Calls In G1 Status**
  - Select **Yes** to allow local MO (Mobile Originating) calls while the subscriber's account is in G1 status
  - Select **No** to restrict the local MT calls while the subscriber's account is in G1 status
- **Allow Calls In D1 Status**
  - Select **Yes** to allow calls, when the subscriber's account is in D1 status
  - Select **No** to restrict calls when the subscriber's account is in D1 status

- Select **Service Numbers** to allow calls only from service numbers when the subscriber's account is in D1
- **Allow Calls In D2 Status**
  - Select **Yes** to allow calls, when the subscriber's account is in D2 status
  - Select **No** to restrict calls when the subscriber's account is in D2 status
  - Select **Service Numbers** to allow calls only from service numbers when the subscriber's account is in D2
- **Max Main Account Balance Limit**
  - By specifying the number, it is possible to set a maximum limit for the subscriber's main account balance.
- **Use Bucket Level Priority**
  - Select **Yes** to enable the bucket level priority for the subscribers. Which in-turns helps the subscriber to prioritize a bucket from their multiple buckets.
- **Unlimited Validity Date**
  - Specify unlimited validity period (Date) for the buckets subscription
- **CSR Allowed Password Changes In a Day**
  - By specifying the number, it is possible to allow a CSR user in order to change his/her password in a day
- **Allow Ported In Number Check**
- **Post Paid Hybrid Allowed**
  - By default, Post Paid Hybrid Allowed is set to **<NO>**
  - If the Post Paid Hybrid Allowed is set to **<YES>**, the configuration is applicable to the selected network
- **MAX lines per CA package**
  - By specifying the number of lines it is possible to restrict the maximum number of lines per CA Package
- **MAX lines per Corp CA package**
  - By specifying the number of lines it is possible to restrict the maximum number of lines per Corp CA Package
- **Number Pool Threshold (%)**
  - By specifying Number Pool Threshold percentage, user can set up particular percentage of threshold. Upon reaching the threshold limit user gets notification of the SIMs available. Based on which the user can place a SIM request.



The screen below shows configuring the details to a network.

Configure

+

Please click on + to view the Note.

Network Name	maxcom
Network Code	99
Status	Active
Account DeActivation	<input type="radio"/> Yes <input checked="" type="radio"/> No
HLR Integration	<input type="radio"/> Yes <input checked="" type="radio"/> No
MSISDN Activation	<input type="radio"/> Yes <input checked="" type="radio"/> No
RMS Integration	<input type="radio"/> Yes <input checked="" type="radio"/> No
Optional Service Charge flag	<input checked="" type="radio"/> Yes <input type="radio"/> No
NPOB Check flag	<input checked="" type="radio"/> Yes <input type="radio"/> No
LRN Prefix flag	<input type="radio"/> Yes <input checked="" type="radio"/> No
Call Type Free SMS flag	<input type="radio"/> Yes <input checked="" type="radio"/> No
Credit Limit Flag	<input type="radio"/> Yes <input checked="" type="radio"/> No
Volume Based Data Call Flag	<input type="radio"/> Yes <input checked="" type="radio"/> No
ESME Flat Charge( RM )	0.00
SMS Expiry Notification Days	
Message Type	<input checked="" type="checkbox"/> IVRS <input checked="" type="checkbox"/> USSD <input checked="" type="checkbox"/> SMS
Pseudo MSISDN Flag	<input checked="" type="radio"/> Yes <input type="radio"/> No
Pseudo MSISDN Series	123
Max Transfers Per Day	
Max Amount Per Day Transferor	0
Max Amount Per Day Transferee	0
Max Subscribers Accounts Per Id	1
Low Balance Notify Type 1	<input type="radio"/> USSD <input checked="" type="radio"/> SMS <input type="radio"/> USSD & SMS <input type="radio"/> API
Low Balance Notify Type 2	<input checked="" type="radio"/> USSD <input type="radio"/> SMS <input type="radio"/> USSD & SMS <input type="radio"/> API
Selfcare Change MSISDN Free Hours	
MSISDN Lock Max Sec for USSD	
MSISDN Lock Max Sec for Selfcare	
MSISDN Allocation Allowed Max Hours	
IVR / VMS Pin Reset Flag	<input type="radio"/> Yes <input checked="" type="radio"/> No
Subscriber Expiry Notification	<input checked="" type="radio"/> SMS <input type="radio"/> USSD <input type="radio"/> USSD & SMS
Subscriber Expiry Level One Notification Days	0
Subscriber Expiry Level Two Notification Days	0
Maximum Trouble Tickets for Subscriber Per Day	99
FNH Terminating Rate Flag	<input type="radio"/> Yes <input checked="" type="radio"/> No
Rating Based On LRN Flag	<input type="radio"/> Yes <input checked="" type="radio"/> No
AAA Radius Integration Flag	<input type="radio"/> Yes <input checked="" type="radio"/> No
Ported Out EOD Max Expiry Days	0
Max Credit Amount Per Transfer for Subscriber	0
Max Days for Process PORT-IN Terminate	0
Retain Account in Customer Group Flag	<input type="radio"/> Yes <input checked="" type="radio"/> No
Port Out Status Flag For Transit Status	<input checked="" type="radio"/> Yes <input type="radio"/> No
Port Out Status Flag For Active Status	<input checked="" type="radio"/> Yes <input type="radio"/> No
Port Out Status Flag For Grace Period I Status	<input checked="" type="radio"/> Yes <input type="radio"/> No
Port Out Status Flag For Grace Period II Status	<input checked="" type="radio"/> Yes <input type="radio"/> No
Tenure Plan Process Flag	<input type="radio"/> Yes <input checked="" type="radio"/> No
Vip MSISDN Vs Vip Order Retain Status	<input type="radio"/> Yes <input checked="" type="radio"/> No
CUG Default VOICE Calendar	Select
CUG Default SMS Calendar	Select
CUG Default DATA Calendar	Select
MAX lines per CA package	
MAX lines per Corp CA package	
Offnet Numbers Allowed Flag	<input type="radio"/> Yes <input checked="" type="radio"/> No
Max FNH Offnet Numbers Allowed	2
Max SMS Offnet Numbers Allowed	
FNH Allow SMS Flag	<input type="radio"/> Yes <input checked="" type="radio"/> No
Currency	
Customer Name	
Allow Negative Balance for debit request	<input type="radio"/> Yes <input checked="" type="radio"/> No
Post Paid Hybrid Allowed	<input type="radio"/> Yes <input checked="" type="radio"/> No
Bucket benefit to subscriber notification	None
GST Applicable Date	03/14/2017
GST Percentage	6
Topup Amount Tax Inclusive Y/N	<input checked="" type="radio"/> Yes <input type="radio"/> No
Allow Calls in Unknown VLR	<input checked="" type="radio"/> Yes <input type="radio"/> No
Allow Calls in G2 G3 G4	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Service Numbers
Allow Roaming Calls in G2 G3 G4	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Service Numbers
Allow Calls in G1 Status	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Service Numbers
Allow Roaming Calls in G1 Status	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Service Numbers
Allow Calls in TR Status	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Service Numbers
Allow Local MT Calls in G1 Status	<input type="radio"/> Yes <input checked="" type="radio"/> No
Allow Local MO Calls in G1 Status	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Service Numbers
Allow Calls in DA Status	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Service Numbers
Allow Calls in D1 Status	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Service Numbers
Allow Calls in D2 Status	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Service Numbers
Max Main Account Balance Limit	10000
Use Bucket Level Priority	<input checked="" type="radio"/> Yes <input type="radio"/> No
Unlimited Validity Date	11/16/2026
CSR Allowed Password Changes in a Day	
Allow Ported In Number Check	<input type="radio"/> Yes <input checked="" type="radio"/> No

Submit

Home

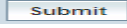
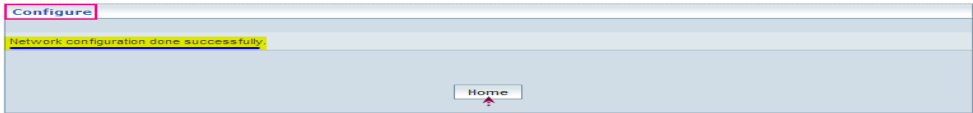
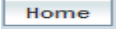

STEP	ACTION
1.	On clicking the <a href="#">Configure</a> link of a chosen Network Operator (record), corresponding details will be displayed in a screen enabling the user to configure details accordingly
2.	<p>Select the radio option <b>YES</b> to configure subscriber's account deactivation in the event of the corresponding account balance is constantly 0 (zero) for more than 30 days</p> <p>Select the radio option <b>NO</b> to disallow subscriber's account deactivation despite the corresponding account balance is constantly 0 (zero) for more than 30 days</p> <p>Select the radio option <b>YES</b> to specify if the chosen network is allowed to integrate with HLR and <b>NO</b> to withdraw an existing integration or to disintegrate with HLR as the case may be and accordingly</p>
3.	MSISDN Activation - Select <b>YES</b> for NPA-NXX based MSISDN configuration and <b>NO</b> for NON NPA-NXX based MSISDN configuration
4.	RMS Integration - Choosing an option to allow the chosen network to integrate with Roaming Management Server (RMS) or to withdraw an existing integration with RMS as the case may be and accordingly – <b>YES</b> is set for RMS integration and <b>NO</b> is to disintegrate
5.	<p>Optional Service Change flag - Select a radio option to specify if the network allows charging or not charging (charge free) the subscriber in the event of VMS activation</p> <p><b>YES</b> is not to charge</p> <p><b>NO</b> is to charge</p>
6.	<p>Select a radio option to specify if the network allows NPDB feature</p> <p><b>YES</b> is to allow the (NPDB Look Up) feature</p> <p><b>NO</b> is not to allow the feature</p>
7.	<p>Select a radio option to specify if the network allows LRN Prefix feature</p> <p><b>YES</b> is to allow the LRN Prefix feature</p> <p><b>NO</b> is not to allow</p>
8.	<p>Select a radio option to specify the Call Type Free SMS Flag</p> <p><b>YES</b> is to set the Flag indicating Call Type Free SMS specific to call type</p> <p><b>NO</b> is to set the Flag indicating Call Type Free SMS non-specific to call type</p>

<b>9.</b>	<p>Select a radio option to specify the Credit Limit Flag to be set</p> <p><b>YES</b> is to set the Flag to indicate the Credit Limit services provisioning by the network</p> <p><b>NO</b> is to set the Flag to indicate non-provisioning of Credit Limit services by the network</p>
<b>10.</b>	<p>Select a radio option to specify the Volume Based Data Call Flag to be set</p> <p><b>YES</b> is to set the Flag to indicate 'Happy Hours privilege on Volume Based Data' provisioning by the network</p> <p><b>NO</b> is to set the Flag to indicate non-provisioning of 'Happy Hours privilege on Volume Based Data' by the network</p>
<b>11.</b>	<p>ESME Flat Charge value would be 0.0 for the first time before configuring any parameters to the new network</p> <p>User can enter a value for the same in &lt;ESME Flat Charge&gt; field, the valued entered once stands good till the next change or update</p> <p>If the proposed value is a whole integer, the maximum length of value would be 7 digits</p> <p>If the proposed value is float, the maximum length of value would be 7 digits prior to decimal and 2 digits after decimal</p>
<b>12.</b>	<p>User can enter a value in the &lt;SMS Expiry Notification Days&gt; field representing number of days that would be reckoned for sending prior notification related to subscriber's account expiry date</p>
<b>13.</b>	<p>Select the corresponding check boxes of various messaging systems (IVRS / USSD / SMS) to enable interfacing with the network</p>
<b>14.</b>	<p>Select a radio option to specify the Pseudo MSISDN Flag to be set</p> <p><b>YES</b> is to set the Flag to indicate 'Pseudo MSISDN provisioning privilege by the network</p> <p><b>NO</b> is to set the Flag to disable the Pseudo MSISDN provisioning privilege feature</p>
<b>15.</b>	<p>Enter Pseudo MSISDN series in the &lt;Pseudo MSISDN series&gt; field</p> <p>Pseudo MSISDN series indicates the starting digits (prefix digits) for any potential Pseudo MSISDN number that would be allocated to a mobile subscriber</p>
<b>16.</b>	<p>Enter a number in the &lt;Max Transfers per Day&gt; field to indicate the maximum transfers (account balance transfers) to be allowed (for the subscriber) per day</p>

<b>17.</b>	Enter a number in the <Max Amount per Day Transferor> field to indicate the maximum amount that a transferor (the subscriber) can transfer from ones' account to another subscriber's account per day
<b>18.</b>	Enter a number in the <Max Amount per Day Transferee> field to indicate the maximum amount that a transferee (the beneficiary subscriber) can receive from a subscriber per day
<b>19.</b>	Enter a number in the <Max Subscribers Accounts per ID> field to indicate the maximum number of prepaid accounts that can be held by a subscriber holding a valid verification ID (MY KAD / Passport)
<b>20.</b>	Select a radio option (SMS / USSD / SMS & USSD) to choose the preferred messaging element for Subscriber's account low balance notifications
<b>21.</b>	Enter a number in the <Self Care Change MSISDN Free Hours> field to indicate the duration that a subscriber can avail as free hours (non-chargeable) at the time of changing the existing MSISDN to another (new) MSISDN
<b>22.</b>	Enter a number in the <MSISDN Lock Max Sec for USSD > field to indicate the duration that a subscriber's chosen MSISDN (actual mobile service number) through USSD message is locked for allotment to any other subscriber. In other words subscriber's preferred actual MSISDN shall be reserved for the time duration specified for this purpose
<b>23.</b>	Enter a number in the <MSISDN Lock Max Sec for Self Care> field to indicate the duration that a subscriber's chosen MSISDN (actual mobile service number) through Self Care is locked for allotment to any other subscriber. In other words subscriber's preferred actual MSISDN shall be reserved for the time duration specified for this purpose
<b>24.</b>	Enter a number in the <MSISDN Allocation Allowed Max Hours> field to indicate the duration that the actual MSISDN (mobile service number) is commencing to be operational / functional for the subscriber
<b>25.</b>	Select a radio option to specify the <IVR/VMS Pin Reset Flag > to be set <b>YES</b> is to set the Flag to reset last 4 digits of SIM. <b>NO</b> is to set the Flag to reset last 4 digits of MSISDN.
<b>26.</b>	Select a radio option to specify the <Subscriber Expiry Notification> to be set (SMS/USDD/USDD&SMS)
<b>27.</b>	Enter a number in the <Subscriber Level One Notification Days> field to indicate the level one notification days
<b>28.</b>	Enter a number in the <Subscriber Level Two Notification Days> field to indicate the level two notification days

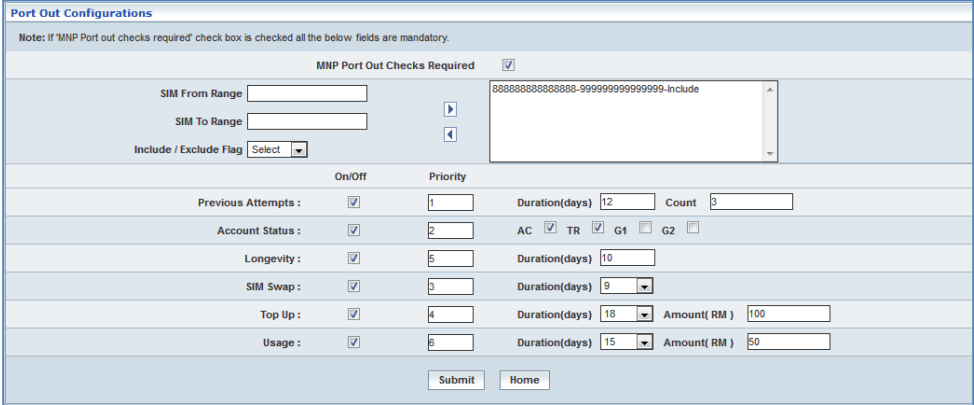

<b>29.</b>	Enter a number in the <Maximum Trouble Tickets for Subscriber Per Day> field to indicate the maximum number of trouble tickets raised for a subscriber per day
<b>30.</b>	Select a radio option to specify the <FNF Terminating Rate Flag>, Yes/No
<b>31.</b>	Select a radio option to specify the <Rating Based on LRN Flag>, Yes/No
<b>32.</b>	Select a radio option to specify the <AAA Radius Integration Flag>, Yes/No
<b>33.</b>	Enter a number in the <Ported Out EOD Max Expiry Days> field to specify the maximum expiry days
<b>34.</b>	Enter a number in the <Max Credit Amount Per Transfer for Subscriber> to indicate the maximum credit amount per transfer
<b>35.</b>	Enter a number in the <Max Days for Process PORT-IN Terminate> to indicate the maximum days for port-in termination process
<b>36.</b>	Select a radio option to specify the <Retain Amount In Customer Group Flag>
<b>37.</b>	Select a radio option to specify the <Port Out Status Flag for Transit Status>, Yes/No
<b>38.</b>	Select a radio option to specify the <Port Out Status Flag for Active Status>, Yes/No
<b>39.</b>	Select a radio option to specify the <Port Out Status Flag for Grace Period I Status>, Yes/No
<b>40.</b>	Select a radio option to specify the <Port Out Status Flag for Grace Period II Status>, Yes/No
<b>41.</b>	Select a radio option to specify the <Tenure Plan Process Flag>, Yes/No
<b>42.</b>	Select a radio option to specify the <Vip MSISDN Vs Vip Order Retain Status>, Yes/No
<b>43.</b>	Select a default CUG voice calendar from <CUG Default VOICE Calendar>
<b>44.</b>	Select a default CUG SMS calendar from <CUG Default SMS Calendar>
<b>45.</b>	Select a default CUG data calendar from <CUG Default DATA Calendar>
<b>46.</b>	Enter the maximum number of lines per CA package.
<b>47.</b>	Enter the maximum number of lines per MAX lines per Corp CA package.
<b>48.</b>	Select a radio option to specify the <Offnet Numbers Allowed Flag> by selecting Yes/No
<b>49.</b>	Enter the maximum FNF offnet numbers allowed
<b>50.</b>	Enter the maximum offnet numbers allowed for SMS
<b>51.</b>	Select a radio option to specify the <FNF Allow SMS Flag> by selecting Yes/No
<b>52.</b>	Enter the Currency details

<b>53.</b>	Enter the Customer Name
<b>54.</b>	Select a radio option to specify the <Allow Negative Balance for debit request> by selecting Yes/No
<b>55.</b>	Enter the maximum number of Offnet Numbers which can be allowed.
<b>56.</b>	Select a radio option to specify the <Post Paid Hybrid Allowed> by selecting Yes/No
<b>57.</b>	Select a channel type such as SMS/USSD/SMS&USSD from the drop down list, in order to notify the subscriber about their bucket subscription
<b>58.</b>	Select the tax applicable date.
<b>59.</b>	Enter percentage of the tax should applicable on the recharge transaction
<b>60.</b>	Check the text box to include and deduct the tax from the top-up amount
<b>61.</b>	Select a radio option to specify the < Allow Calls in Unknown VLR > by selecting Yes/No
<b>62.</b>	Select a radio option to specify the < Allow Calls in G2 G3 G4> by selecting Yes/No/Service Numbers
<b>63.</b>	Select a radio option to specify the < Allow Roaming Calls in G2 G3 G4> by selecting Yes/No/Service Numbers
<b>64.</b>	Select a radio option to specify the < Allow Calls in G1 Status > by selecting Yes/No/Service Numbers
<b>65.</b>	Select a radio option to specify the < Allow Roaming Calls in G1 Status > by selecting Yes/No/Service Numbers
<b>66.</b>	Select a radio option to specify the < Allow Calls In TR Status > by selecting Yes/No/Service Numbers
<b>67.</b>	Select a radio option to specify the < Allow Local MT Calls In G1 Status > by selecting Yes/No
<b>68.</b>	Select a radio option to specify the < Allow Local MO Calls In G1 Status > by selecting Yes/No/Service Numbers
<b>69.</b>	Select a radio option to specify the < Allow Calls In DA Status > by selecting Yes/No/Service Numbers
<b>70.</b>	Select a radio option to specify the < Allow Calls In D1 Status > by selecting Yes/No/Service Numbers
<b>71.</b>	Select a radio option to specify the < Allow Calls In D2 Status > by selecting Yes/No/Service Numbers
<b>72.</b>	Enter maximum limit for the main account balance
<b>73.</b>	Select a radio option to specify the < Use Bucket Level Priority > by selecting Yes/No
<b>74.</b>	Select a unlimited validity date

<b>75.</b>	Enter a number which allowed for a CSR user in order to change their password in a day
<b>76.</b>	Select a radio option to specify the < Allow Ported In Number Check > by selecting Yes/No
<b>77.</b>	<p>On clicking the  button, the (Network User Account) record gets updated along with the configured parameters and it redirects the user back to the records grid. A message window is displayed to that effect.</p>  <p>On clicking the  button of the message window, it directs the user back to the records grid.</p>
<b>78.</b>	On clicking the  button, it only redirects the user back to the records grid.

### MNP Configurations:

'MNP Configuration' link helps the users to do the configurations relevant to subscriber port-out. Hence, by these configurations a user will check the all the required parameters for to proceed with the subscriber port-out.

STEP	ACTION
1.	<p>On clicking the <a href="#">MNP Configurations</a> link of a chosen Network Operator (record), displays the corresponding details in a screen enabling the user to configure details accordingly.</p> 
2.	<p><b>MNP Port Out Checks Required:</b> Select the check box <input checked="" type="checkbox"/>, to enable the configurations relevant to MNP (Mobile Number Port Out)</p>
3.	<p>Enter from and to range for SIM at <b>SIM From Range</b> and <b>SIM To Range</b> fields. Clicking the right arrow  button, the SIM range will be moved to the adjacent list box and the numbers in the specified range shall be available for the MNP Configuration</p>
4.	<p><b>Include / Exclude Flag:</b></p> <p>Select <b>Include</b> from the drop down list in order to specify the SIM range with given start and end numbers for MNP Port out.</p> <p>Select <b>Exclude</b> to specify the numbers between the given start and end range.</p> <p><b>Example:</b> Refer the below example for to interpret the SIM range.</p> <p><b>Include Flag:</b></p> <p><b>SIM From Range:</b> 22222222220</p> <p><b>SIM To Range:</b> 77777777770</p> <p>Here in the above example the SIM Range is from <b>22222222220</b> to <b>77777777770</b></p> <p><b>Exclude Flag:</b></p> <p><b>SIM From Range:</b> 22222222220</p> <p><b>SIM To Range:</b> 77777777770</p> <p>Here in the above example the SIM Range is from <b>22222222221</b> to <b>777777777769</b> (i.e. the SIM range specified between the given range)</p>



5.	<p><b>Previous Attempts:</b> Select the check box to check, whether the subscriber has previously tried for the port out or not.</p> <p><b>Priority:</b> Assign a priority level for <b>Previous Attempts</b> parameter while performing the port out. Hence, the parameters will be checked before the MNP port out, as per their assigned priority.</p> <p><b>Duration (Days):</b> Enter the days required to attain the configured attempts for the port-out.</p> <p><b>Count:</b> Enter a number of port outs attempts are required in the configured time duration (Days).</p>
6.	<p><b>Account Status:</b> Select the check box to check the status of the subscriber account before MNP. The status can be Active (<b>AC</b>), Transit (<b>TR</b>), GracePeriod1 (<b>G1</b>), and GracePeriod2 (<b>G2</b>).</p> <p><b>Priority:</b> Assign a priority level for <b>Account Status</b> parameter while performing the port out.</p>
7.	<p><b>Longevity:</b> Select check box to enable the longevity checking.</p> <p><b>Priority:</b> Assign a priority level for <b>Longevity</b> parameter while performing the port out.</p> <p><b>Duration:</b> Enter longevity of the subscriber account in days.</p>
8.	<p><b>SIM Swap:</b> Select the check box to allow the SIM swap</p> <p><b>Priority:</b> Assign a priority level for <b>SIM Swap</b> parameter while performing the port out.</p> <p><b>Duration:</b> Enter the days required for the SIM swap</p>
9.	<p><b>Top Up:</b> Select the check box to check the top-up status of the subscriber account</p> <p><b>Priority:</b> Assign a priority level for <b>Top Up</b> parameter while performing the port out.</p> <p><b>Duration:</b> Select number of days from the drop down list, hence the subscriber's account should have recharged before MNP for the specified amount.</p> <p><b>Amount:</b> Specify the amount for the top-up (before MNP)</p>
10.	<p><b>Usage:</b> Select the check box to check the usage of the subscriber's account.</p> <p><b>Priority:</b> Assign a priority level for <b>Usage</b> parameter while performing the port out.</p> <p><b>Duration:</b> Enter the days at which the subscriber is availing their account usage (such as Bundles) before MNP.</p> <p><b>Amount:</b> Enter the amount which required to used by the subscriber before the MNP</p>





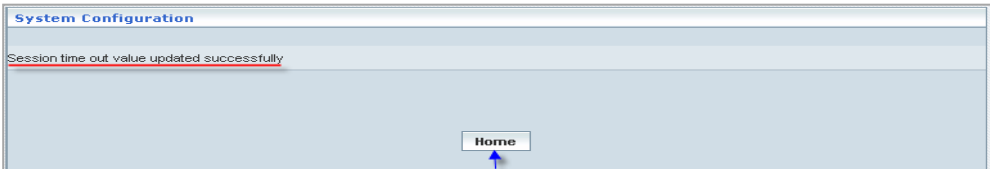
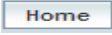

### 3.3.2 System Configuration

**System Configuration** module allows the Super User (**SU**) to determine or fix the **MSP** Application ***stand by time*** when the user leaves it idle. This module also helps '**SU**' to decide on default setting activated for log generation of the user activities (series of actions performed by the user while using the **MSP** Application). This enables tracking of user activities, i.e., dynamic generation of a log (list of records) at the backend for the series of user activities while using the application.

The term 'Enable Console Output' is to depict the '**report**' that would be dynamically generated for the user activities during the usage of **MSP** Application.

The screen below shows the Super User fixing 'Session Time Out' and also enabling & disabling the 'Enable Console Output'.

System Configuration	
Note:- Default Session Time : 1800 ( Seconds )	
User Session Time Out	<input type="text"/> ( Seconds )
Enable Console Output ( For Logger )	<input checked="" type="radio"/> Yes
	<input type="radio"/> No
<input type="button" value="Submit"/> <input type="button" value="Home"/>	

STEP	ACTION
1.	User to enter the time <i>in seconds</i> to fix the 'session time out duration' in the <User Session Time Out> field
	Select the radio option  'Yes' to enable the dynamic generation of 'User activities log report' – <b>Enable Console Output</b> . By default, the system always indicates the selection of radio option  'Yes' and hence, it is recommended for the user
	User can choose the radio option  'No' to disable the dynamic generation of 'User activities log report' – <b>Enable Console Output</b> . However, this is not recommended for the user
2.	<p>On clicking the  button, the 'Session Time Out' duration stands good and effective for the 'Application Stand By Time' till the next change. 'Session Time Out' update message will be displayed to that effect with a 'Home' button at the bottom of the message window</p>  <p>On clicking the  button of the 'Message Window', it redirects the user back to the Application Home Page</p> <p>On clicking the  button of the 'Session Time Out' screen prior to any updates, it redirects the user back to Home Page</p>

### 3.3.3 Manage Network Codes

'Manage Network Codes' allows the Super User (**SU**) creating (add) network codes to the chosen Network User Account.

This screen further allows the user to perform following actions:

- View Network Codes of a chosen Network User Account
- Delete Network Codes of a chosen Network User Account

This sub-module also helps to fetch a single record (network codes related to any given Network User Account) with the help of the '**Search**' option based on the provided search criterion. The search criteria include: Network Name.

Initially, the list of existing Networks (Network User Accounts) will be displayed in a grid.

The screen below shows the creation & management of network codes related to a Network User Account.

Manage Network Codes

Create

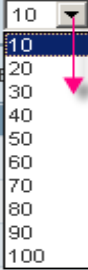
1

	Network Name	Status Code	Action
<input type="radio"/>	TuneTalk	AC	View   Delete
<input type="radio"/>	maxcom	AC	View   Delete
<input type="radio"/>	soriana	AC	View   Delete
<input type="radio"/>	test	AC	View   Delete
<input type="radio"/>	toka	AC	View   Delete

Create

1

Print

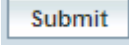
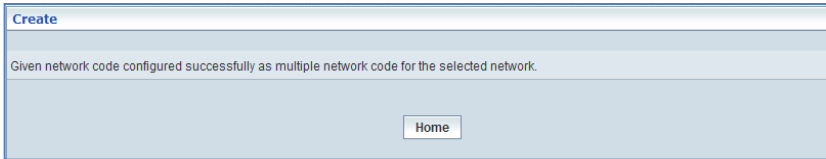
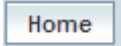

STEP	ACTION
1.	By default, list of records for the existing Network Operators (the corresponding User Accounts) will be displayed in a grid. The columns include 'Network Name' 'Status Code' and 'Action'
2.	<div>  </div> <p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the &lt;View Per Page&gt; 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' <b>1 2</b></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 <b>Create</b> button of a chosen Network User Account, 'Create Network Codes' screen will be displayed, which enables the user to create a network code
5.	On clicking the <b>View</b> link of a chosen network, the corresponding details will be displayed in a separate screen
6.	On clicking the <b>Delete</b> link of a chosen network, the corresponding details will be displayed in a separate screen, which enables the <b>SU</b> to delete desired number of network codes
7.	User can print the list of records with the help of <b>Print</b> button at the left bottom of the screen
8.	On clicking the <b>Home</b> button of the 'Manage Network Codes' Grid, it redirects the user back to Home Page

### Create:

To create a network code, user must select the radio option of a chosen network. By clicking the **Create** button, Create Network Codes screen will be displayed enabling the user to create a network code.

User can add multiple network codes to the chosen Network User Account, however each at a time, and thus added network codes shall become part of the network codes list.


The screen below shows creating a new 'network code' to the chosen Network User Account.

STEP	ACTION
9.	Name of the Network User Account will be dynamically displayed in the <Network Name> field
10.	User can enter a network code in the <Network Code> field
11.	<p>On clicking the  button, the new network code will be part of the existing network code(s) and a message window will be displayed to that effect</p>  <p>On clicking the  button of the message window, it redirects the user back to the (Manage Network Codes) records grid</p>
12.	On clicking the  button, it redirects the user back to the (Manage Network Codes) records grid

### View:

The screen below shows the 'View' of the User Account details.

The screenshot shows a web interface titled 'View'. At the top, there is a 'Network Name' field containing the text 'test'. Below this, there is a section labeled 'Network Codes' which contains a list of codes: '9898' and '21'. A red rectangular box highlights this list. At the bottom right of the interface, there is a 'Home' button.


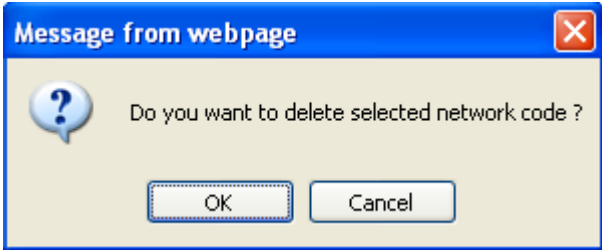
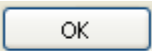
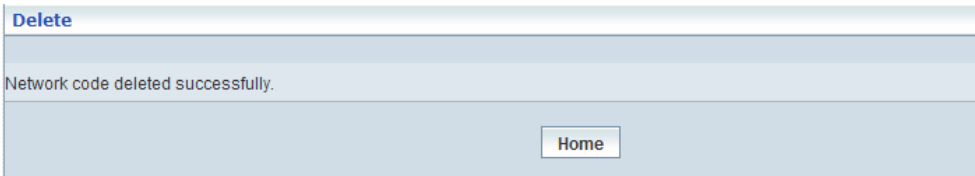
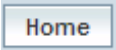

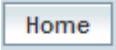
STEP	ACTION
13.	Click the corresponding radio button  <b>LoopUsers</b> of the Network User Account
14.	On clicking the <a href="#">View</a> link of a chosen Network User Account (record), corresponding details will be displayed in a separate screen
15.	User can peruse the details accordingly
	On clicking the <a href="#">Home</a> button, it redirects the user back to the (Manage Network Codes) records grid

### Delete:

The screen below shows deleting the desired network codes of the chosen Network User Account.

Delete	
Indicates Mandatory	
Network Name	test
Note : Please select a network code from below available codes to delete.	
Network Codes	<div> <div>9898</div> <div>21</div> </div>
<div>Submit</div> <div>Home</div>	



STEP	ACTION
16.	Click the corresponding radio button of the Network User Account for which a network code can be deleted
17.	Name of the Network User Account will be dynamically displayed in the <Network Name> field
18.	User can select a network code requires deletion from the <Network Codes> list field.
19.	<p>On clicking the  button, an alert message window will be displayed enabling the user to confirm deletion of the chosen network code</p>  <p>On clicking the  button of the alert message window, the chosen network code will be successfully deleted and a message window will be displayed to that effect</p>  <p>On clicking the  button of the message window, it redirects the user back to the (Manage Network Codes) records grid</p> <p>On clicking the  button of the alert message window, it retains the 'Network Codes Delete' screen without deleting any network code</p>
20.	On clicking the  button of the 'Network Codes Delete' screen, it redirects the user back to the (Manage Network Codes) records grid

### 3.3.4 Language Configuration Details

'Language Configuration Codes' allows the Super User (SU) creating (add) various languages that could be used as options for any IVR services and also for setting as

network specific default language (any one language chosen from the list) at the time of setting up the network configurations.

This screen further allows the user to perform following actions:

- Modify / update languages (change the existing name of the language or enter altogether a different language name)

This sub-module also helps to fetch a single record (Language) with the help of the '**Search**' option based on the provided search criterion. The search criteria include: Language Description.

Initially, the list of existing languages will be displayed in a grid.

The screen below shows the creation & management of network codes related to a Network User Account.

Language Configuration Details

Create

1

Language Description	Action
ARABIC	Modify
ENGLISH	Modify
GERMAN	Modify
HINDI	Modify
JAPANESE	Modify
KANANDA	Modify
KANNADA	Modify
MALAY	Modify
SPANISH	Modify
TELUGU	Modify

Create

1

Print

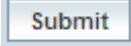
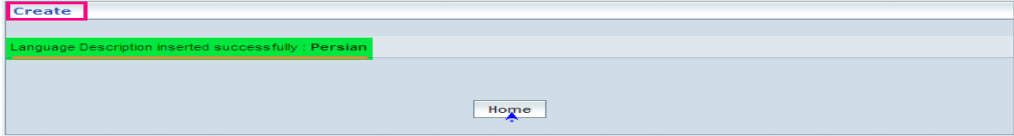
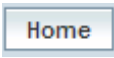
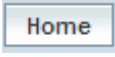
STEP	ACTION
1.	By default, list of records for the existing languages will be displayed in a grid. The columns include 'Language Description' and 'Action'
2.	<p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the &lt;View Per Page&gt; 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' <b>1</b></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 <b>Create</b> button, 'Create' screen will be displayed, which enables the user to create a language as one of the options.
5.	On clicking the <b>Modify</b> link of a chosen Language Description (record), the corresponding details will be displayed in a separate screen, which enables the <b>SU</b> to modify / update the same
6.	User can print the list of records with the help of <b>Print</b> button at the left bottom of the screen
7.	On clicking the <b>Home</b> button of the 'Language Configuration Details' Grid, it redirects the user back to 'Administration' Home Page

### Create:

By clicking the **Create** button, 'Create' screen will be displayed enabling the user to create a new language.

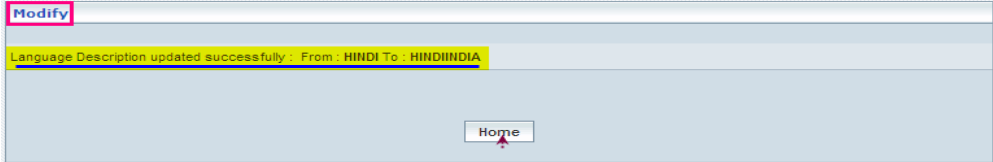
The screen below shows creating a new 'Language'.

The screenshot shows the 'Create' screen for adding a new language. The title bar has 'Create' and a red indicator. Below the title bar, there is a text input field for 'Language Description' with 'Persian' entered. To the right of the input field is a red indicator and a note: 'Enter a Language Name to include it as a Language option'. At the bottom, there are two buttons: 'Submit' and 'Home'.

STEP	ACTION
8.	User can enter a language (name) in the <Language Description> field
9.	<p>On clicking the  button, the language that was entered is registered and saved , a message window will be displayed to that effect</p>  <p>On clicking  button of the message window, it redirects the user back to the (Language Configuration Details) records grid</p>
10.	<p>On clicking  button of the 'Create' screen, it redirects the user back to the (Manage Network Codes) records grid</p>

**Modify:**

The screen below shows modifying or updating the chosen language.

STEP	ACTION
11.	User can change the existing name of the language or enter altogether a different language name in the <Language Description> field
12.	<p>On clicking the <b>Submit</b> the language that was changed / entered is updated and saved , a message window will be displayed to that effect</p>  <p>On clicking <b>Home</b> button of the message window, it redirects the user back to the (Language Configuration Details) records grid</p>
13.	On clicking <b>Home</b> button of the 'Modify' screen without updating the details, it redirects the user back to (Language Configuration Details) records grid

**3.3.5 Manage Country / State Codes**

'Manage Country / State Codes' allows the Super User (**SU**) creating (add) country codes and subsequently create (ad) state codes for each of the countries.

This screen further allows the user to perform following actions:

- View Country Codes
- Modify Country Codes
- Delete Country Codes
- Manage State Codes
  - Create State Codes
  - View State Codes
  - Modify State Codes

- Delete State Codes
- Search State Codes

This sub-module also helps to fetch the records (Country) with the help of '**Search**' option based on the provided search criterion. The search criteria include: Country Code, Country Description, and ISD Prefix.

Initially, the list of existing Country / State Codes will be displayed in a grid.

The screen below shows the creation & management of Country/State codes.

Manage Country / State Codes

Search

Select Column

Go

View Per Page 10

Create

1 2 3 4 5 6 7 8 9 10 >>

Country Code	Country Description	ISD Prefix	Action
AD	ANDORRA	376	View   Modify   Delete   ManageStateCodes
AE	UNITED ARAB EMIRATES	971	View   Modify   Delete   ManageStateCodes
AF	AFGHANISTAN	93	View   Modify   Delete   ManageStateCodes
AG	ANTIGUA AND BARBUDA	1	View   Modify   Delete   ManageStateCodes
AI	ANGUILLA	1	View   Modify   Delete   ManageStateCodes
AL	ALBANIA	355	View   Modify   Delete   ManageStateCodes
AM	ARMENIA	374	View   Modify   Delete   ManageStateCodes
AN	NETHERLANDS ANTILLES	599	View   Modify   Delete   ManageStateCodes
AO	ANGOLA	244	View   Modify   Delete   ManageStateCodes
AQ	ANTARTICA	672	View   Modify   Delete   ManageStateCodes

Create

1 2 3 4 5 6 7 8 9 10 >>

Print

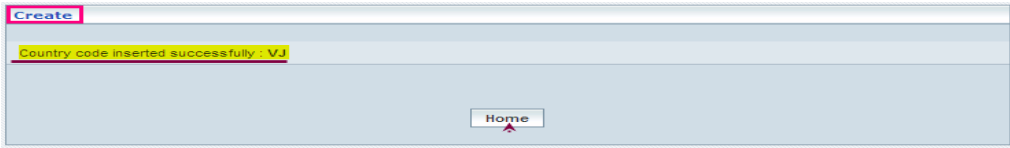
Home

STEP	ACTION
1.	By default, list of records for the existing Country/State Codes are displayed in a grid. The columns include 'Country Code', 'Country Description', 'ISD Prefix', 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 &lt;View Per Page&gt; 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 right bottom of the screen.</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number' <b>1 2 3 4 5 6 7 8 9 10 &gt;&gt;</b></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 <b>Create</b> button, 'Create Country/State Code' screen will be displayed, which enables the user to create a Country code
5.	On clicking the <b>View</b> link, the corresponding Country/State code details will be displayed in a separate screen
6.	On clicking the <b>Modify</b> link, the corresponding Country/State code details will be displayed in a separate screen, which enables the user to modify / update the details
7.	On clicking the <b>Delete</b> link of a chosen network, the corresponding details will be displayed in a separate screen, which enables the <b>SU</b> to delete the same
8.	On clicking the <b>ManageStateCodes</b> link, the list of existing state codes if any will be displayed as records in a grid
9.	User can print the list of records with the help of <b>Print</b> button at the right bottom of the screen
10.	On clicking the <b>Home</b> button of the 'Manage Country/State Codes' Grid, it redirects the user back to Home Page

### Create:

To create a Country code, click the **Create** button. Create Country Code screen will be displayed enabling the user to create a new Country code.



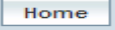
The screen below shows creating a new 'Country Code'

STEP	ACTION
11.	User must enter the 'Country Code, Country Description, and ISD Prefix in their respective fields.
12.	<p>On clicking the <b>Submit</b> button, the new Country code will be part of the existing Country code(s) and a message window will be displayed to that effect.</p>  <p>On clicking the <b>Home</b> button of the message window, it redirects the user back to the (Manage Country/State Codes) records grid.</p>
13.	On clicking the <b>Home</b> button of the <b>Create</b> screen, it redirects the user back to the (Manage Country Codes) records grid.

### View:

The screen below shows the 'View' of the selected Country code details.



STEP	ACTION
14.	Click  in the Action Column of the screen against any Country code.
15.	On clicking the  link of a chosen Country code, corresponding details will be displayed in a separate screen.
16.	User can peruse the details accordingly.
	On clicking the  button, it redirects the user back to the (Manage Country/State Codes) records grid.

## Modify:

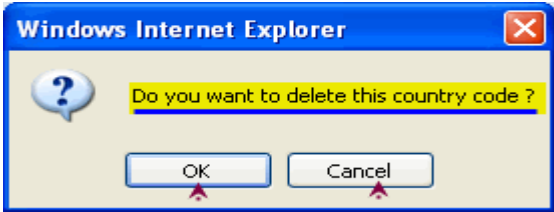
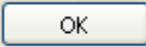
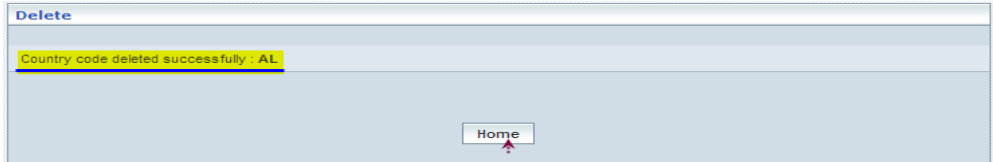
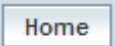

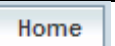
The screen below shows the 'Modify' of the Country code details.

STEP	ACTION
17.	Click <b>Modify</b> in the <b>Action</b> Column of the screen against any Country code.
18.	On clicking the <b>Modify</b> link of a chosen Country code, corresponding details will be displayed in a separate screen where user can edit the values.
19.	User can edit the details accordingly.
20.	<p>On clicking the <b>Submit</b> button, a message window will be displayed to that effect showing the existing and updated values.</p> <p>On clicking the <b>Home</b> button of the message window, it redirects the user back to the (Manage Country/State Codes) records grid.</p>
21.	On clicking the <b>Home</b> button of the <b>Modify</b> screen (without updating the details), it redirects the user back to the (Manage Country/State Codes) records grid.

## Delete:

The screen below shows deleting the chose Country code.

The screenshot shows a web application interface for deleting a country code. At the top, there is a header bar with the word 'Delete' in a pink box. Below this, the details for the selected country code are displayed: 'Country Code' is 'AI', 'Country Description' is 'ANGUILLA', and 'ISD Prefix' is '1'. A section titled 'State codes and their descriptions' contains a table with two columns: 'State Code' and 'State Description'. The table shows 'OT' for 'State Code' and 'NONE' for 'State Description'. At the bottom of the screen, there are two buttons: 'Delete' and 'Home'.

STEP	ACTION
22.	Click <b>Delete</b> in the <b>Action</b> column of the 'Manage Country/State Codes' page. Now Delete page opens displaying the corresponding details of the Country Code.
23.	Click the <b>Delete</b> button. A popup window opens for the confirmation. 
24.	On clicking the  button of the alert message window, the chosen Country code will be successfully deleted and a message window will be displayed to that effect.  On clicking the  button of the message window, it redirects the user back to the (Manage Country/State Codes) records grid. On clicking the  button of the alert message window, it retains the 'Delete' screen without deleting any Country code.
25.	On clicking the  button of the 'Delete' screen (without confirming any deletion), it redirects the user back to the (Manage Country / State Codes) records grid.

### Searching for a specific Country

Search

Select Column  
Country Code  
Country Description  
ISD Prefix

STEP	ACTION
1.	Select a search criterion (Country Code, Country Description, ISD Prefix) from the drop-down list of the search criteria of the <Search> field
2.	Enter the value that corresponds with the given search criterion.
3.	On clicking the <input type="button" value="Go"/> button, the corresponding Country/State code will be highlighted among the list of Country Code records.

The screen below depicts fetching and displaying the Country Code (record).

Manage Country / State Codes

Search    View Per Page

Create 1 2 3 4 5 6 7 8 9 10 >>

Country Code	Country Description	ISD Prefix	Action
AD	ANDORRA	376	View   Modify   Delete   ManageStateCodes
AE	UNITED ARAB EMIRATES	97	View   Modify   Delete   ManageStateCodes
AF	AFGHANISTAN	93	View   Modify   Delete   ManageStateCodes
AG	ANTIGUA AND BARBUDA	1	View   Modify   Delete   ManageStateCodes
AI	ANGUILLA	1	View   Modify   Delete   ManageStateCodes
AM	ARMENIA	374	View   Modify   Delete   ManageStateCodes
AN	NETHERLANDS ANTILLES	599	View   Modify   Delete   ManageStateCodes
AO	ANGOLA	244	View   Modify   Delete   ManageStateCodes
AQ	ANTARTICA	672	View   Modify   Delete   ManageStateCodes
AR	ARGENTINA	54	View   Modify   Delete   ManageStateCodes

Create 1 2 3 4 5 6 7 8 9 10 >>

Print

Home

## Manage State Codes

'Manage State Codes' option allows the Super User (SU) creating (add) State codes to the chosen Country code.

This screen further allows the user to perform the following actions:

- View State Codes and Descriptions of a chosen Country code
- Modify State Codes and Descriptions of a chosen Country code
- Delete State Codes of a chosen Country code

This sub-module also helps to fetch the records (State codes related to any given Network User Account) with the help of 'Search' option based on the provided search criterion. The search criteria include: State Code, State Description, and Country Code.

Initially, the list of existing State Codes will be displayed in a grid.

The screen below shows the creation & management of State codes related to the Country Codes.

Manage State Codes

Search

Select Column

Go

View Per Page 10

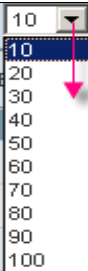
Create

1 2

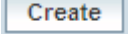
State Code	State Description	Country Code	Action
AA	SDS	AF	View   Modify   Delete
AB	ERWE	AF	View   Modify   Delete
BN	DFSD	AF	View   Modify   Delete
ER	DFD	AF	View   Modify   Delete
FF	FFF	AF	View   Modify   Delete
FG	DFD	AF	View   Modify   Delete
II	GH	AF	View   Modify   Delete
RR	WEWEW	AF	View   Modify   Delete
SS	WEW	AF	View   Modify   Delete
VV	SDSD	AF	View   Modify   Delete

Create

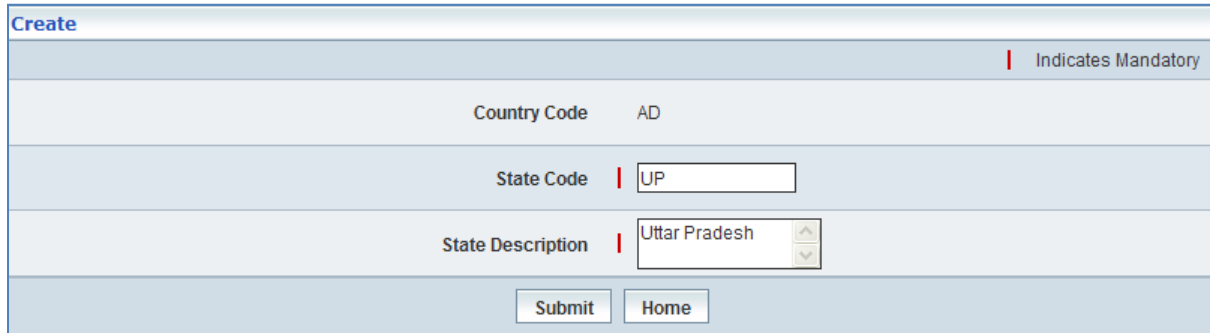
1 2


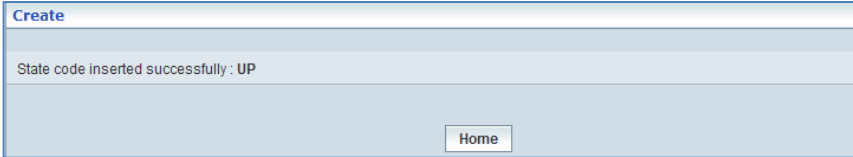
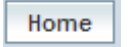
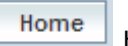
STEP	ACTION
1.	By default, list of records for the existing State Codes are displayed in a grid. The columns include 'State Code', 'State Description', 'Country Code' and 'Action'.
2.	<div>  </div> <p>User can customize the view for the number of records to be displayed each time (per page) in a grid.</p> <p>Select the number of records (For Ex: 10) from the drop-down list of the &lt;View Per Page&gt; 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 right bottom of the screen.</p> <p>User can navigate for subsequent records (10 each time) by clicking the desired 'page number' <b>12</b></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 <b>Create</b> button, 'Create State Code' screen will be displayed, which enables the user to create a State code.
5.	On clicking the <b>View</b> link, the corresponding State code details will be displayed in a separate screen.
6.	On clicking the <b>Modify</b> link, corresponding details will be displayed in a separate screen where user can edit the values.
7.	On clicking the <b>Delete</b> link of a chosen State code, the corresponding details will be displayed in a separate screen, which enables the <b>SU</b> to delete desired number of state codes.
8.	User can print the list of records with the help of <b>Print</b> button at the Right bottom of the screen.
9.	On clicking the <b>Home</b> button of the 'Manage State Codes' grid, it redirects the user back to Home Page.

## Create:

To create a State code, click the  button. Create State Codes screen will be displayed enabling the user to create a State code.

The screen below shows creating a new 'State code' to the chosen country Code.



STEP	ACTION
10.	User must enter the 'State Code, and State Description'. However, by default, the Country Code to which you wish to add a State Code is displayed.
11.	<p>On clicking the  button, the new State code will be part of the existing State code(s) of the Country Code and a message window will be displayed to that effect.</p>  <p>On clicking the  button of the message window, it redirects the user back to the (Manage State Codes) records grid.</p>
12.	On clicking the  button, it redirects the user back to the (Manage State Codes) records grid.

**View:**

The screen below shows the 'View' of the State codes.

View	
Country Code	AD
State Code	UP
State Description	UTTAR PRADESH
<input type="button" value="Home"/>	

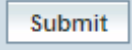

STEP	ACTION
13.	Click <a href="#">View</a> in the Action Column of the screen against any State code.
14.	On clicking the <a href="#">View</a> link of a chosen State code, corresponding details will be displayed in a separate screen.
15.	User can peruse the details accordingly.
16.	On clicking the <input type="button" value="Home"/> button, it redirects the user back to the (Manage State Codes) records grid.

**Modify:**

The screen below shows the 'Modify of the State Code details.

Modify	
Indicates Mandatory	
Country Code	AD
State Code	<input type="text" value="UP"/>
State Description	<input type="text" value="UTTAR PRADESH"/>
<input type="button" value="Submit"/> <input type="button" value="Home"/>	



STEP	ACTION
17.	Click <b>Modify</b> in the <b>Action</b> Column of the screen against any State code.
18.	On clicking the <b>Modify</b> link of a chosen State code, corresponding details will be displayed in a separate screen where user can edit the values.
19.	User can edit the details accordingly.
20.	On clicking the  button, a message window will be displayed to that effect showing the existing and updated values.
21.	On clicking the  button, it redirects the user back to the (Manage State Codes) records grid.

**Delete:**

The screen below shows deleting the desired State codes.

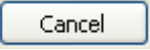
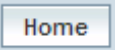
Delete

Country CodeAD


State CodeUP

State DescriptionUTTAR PRADESH

DeleteHome

STEP	ACTION
22.	Click <b>Delete</b> in the <b>Action</b> column of the 'Manage State Codes' page. Now Delete page opens displaying the information of the State Code.
23.	Click the <b>Delete</b> button. A popup window opens for the confirmation.
24.	<p>On clicking the  button of the alert message window, the chosen State code will be successfully deleted and a message window will be displayed to that effect.</p>  <p>On clicking the  button of the alert message window, it retains the 'State Codes Delete' screen without deleting any State code.</p> <p>On clicking the  button of the message window, it redirects the user back to the (Manage State Codes) records grid.</p>
25.	On clicking the  button of the 'State Codes Delete' screen, it redirects the user back to the (Manage State Codes) records grid.

### Searching for a specific State Code

STEP	ACTION
26.	Select a search criterion (State Code, State Description, Country Code) from the drop-down list of the search criteria of the <Search> field.
27.	Enter the value that corresponds with the given search criterion.
28.	On clicking the  button, the corresponding State code will be highlighted among the list of State Code records.

### 3.3.6 MSISDN Pool Management

**MSISDN Pool Management** feature enables the user to upload bulk MSISDNs in a specified format for a defined network operator.

This screen further allows the user to perform following actions:

- Upload MSISDN
- View MSISDN

#### Upload

To upload range of MSISDNs and NIR Code of a particular network operator

STEP	ACTION
1.	From the <b>Upload</b> window, user shall have access to upload the group of MSISDNs
2.	Select preferred <b>Network Operator</b> from the drop down
3.	Click <b>Browse</b> to browse the file in the specified format  Note: Upload file format as below <b>NIR code,MSISDN</b> The file shall be in .CSV format. Each NIR Code and MSISDN should be in a separate line NIR and MSISDN shall be in numeric Uploaded MSISDNs shall be treated as free pool MSISDNs
4.	Click <b>Submit</b> to upload the MSISDNs successfully
5.	Click <b>Home</b> for home page

### View

View MSISDNs enables to view the Number pool MSISDNs. These MSISDNs are available for allocation.

Home > MSISDN Pool Management

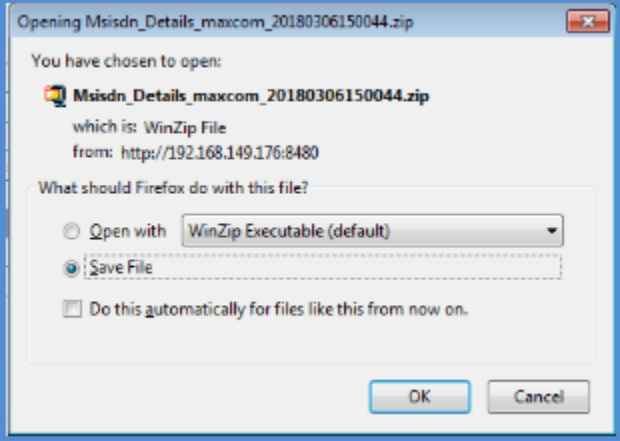
View

Indicates Mandatory

Network Operator | Select

NIR Codes | Select

Submit Home

STEP	ACTION
1.	From the <b>View</b> window, user shall have access to view the allocated MSISDNs
2.	Select preferred <b>Network Operator</b> from the drop down
3.	Select <b>NIR Code</b> from the drop down
4.	<p>Click <b>Submit</b> to view the allocated MSISDNs. Upon clicking on Submit, the download window appears as below</p> 
5.	Click <b>Ok</b> to save the generated file of allocated MSISDNs

### 3.4 Network Operator Login

Login page helps different users of the independent Network (Administrator, Functional Operators and Customer Personnel) logging into **MSP**.

Administrator is at the top level on the users' hierarchy. Administrator logs into **MSP** with a valid Login and Password (provided by the Super User). Admin can create user accounts for different Functional Operators and Customer Care personnel, which are normally under his/her control for assigning various roles and user permissions. Login page allows the authorized users to login to the **MSP** application with the help of their respective Login names and passwords.

The screen below shows the Login page for various Users.

**Welcome to XIUS MSP™**

MSP™ or Mobile Services Platform is a patent pending innovation that access an all-in-one Service Delivery Platform (SDP) for any Virtual Network Operator. It provides convergent homogeneous service experience to the customers of Virtual Network Operators irrespective of their back-end network technology i.e. GSM, GPRS, UMTS, EDGE, CDMA1X, CDMA EVDO-DV, HSPA, UMA, WCDMA etc. Thus, it empowers Virtual Operators with service, pricing and brand flexibility leading to complete customer ownership. Due to its unique, modular, multi-layered and multi-threaded architecture with high-end middleware, it offers quick processing, roll-out of impacting services and configurable in responding to fast changing business requirements. MSP™ is a solution which can facilitate a Virtual Network Operator at any time in its business maturity road map.

Network


User Name

Password

Best Viewed in 1024 x 768 pixel settings [ IE 6.x or Firefox 2.x ]

STEP	ACTION
1.	User to enter network name, his / her valid user name and password in their respective <Network>, <User Name> and <Password> fields
2.	On clicking the <input type="button" value="SUBMIT"/> button, 'Application Home Page' will be displayed, enabling the User to access various application modules

The screen below shows the Application Home Page.



**loop**

Welcome **loopuser**

Modules

Friday, Feb 21, 2014

Login time 11:47:35 AM | Logout

PLMN Services

Billing Management

User Management System

InterConnect Billing Management

[Home](#)

**Welcome to MSP ( XIUS )**

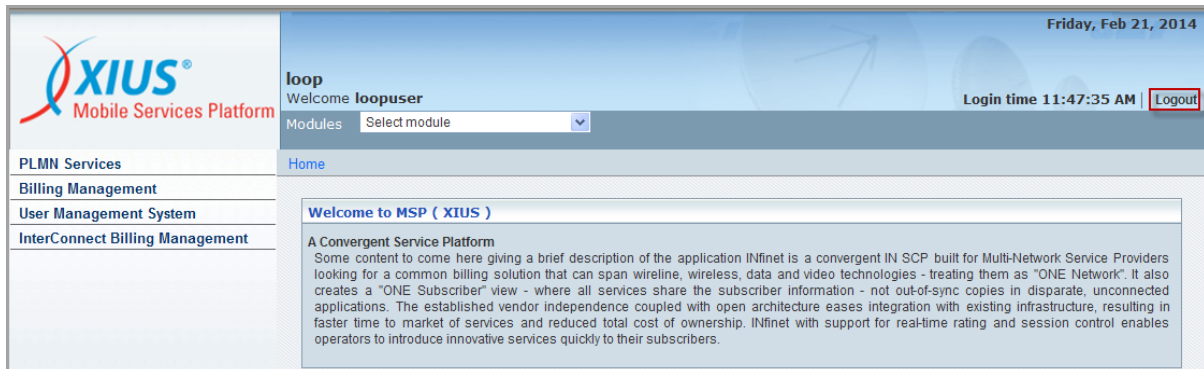
**A Convergent Service Platform**

Some content to come here giving a brief description of the application INfinet is a convergent IN SCP built for Multi-Network Service Providers looking for a common billing solution that can span wireline, wireless, data and video technologies - treating them as "ONE Network". It also creates a "ONE Subscriber" view - where all services share the subscriber information - not out-of-sync copies in disparate, unconnected applications. The established vendor independence coupled with open architecture eases integration with existing infrastructure, resulting in faster time to market of services and reduced total cost of ownership. INfinet with support for real-time rating and session control enables operators to introduce innovative services quickly to their subscribers.

### 3.5 Application Logout

Users can logout of the application any time and from anywhere steering through application, with the help of the **Logout** link (at the right top corner of the screens).

The screen below shows the **Logout** link.



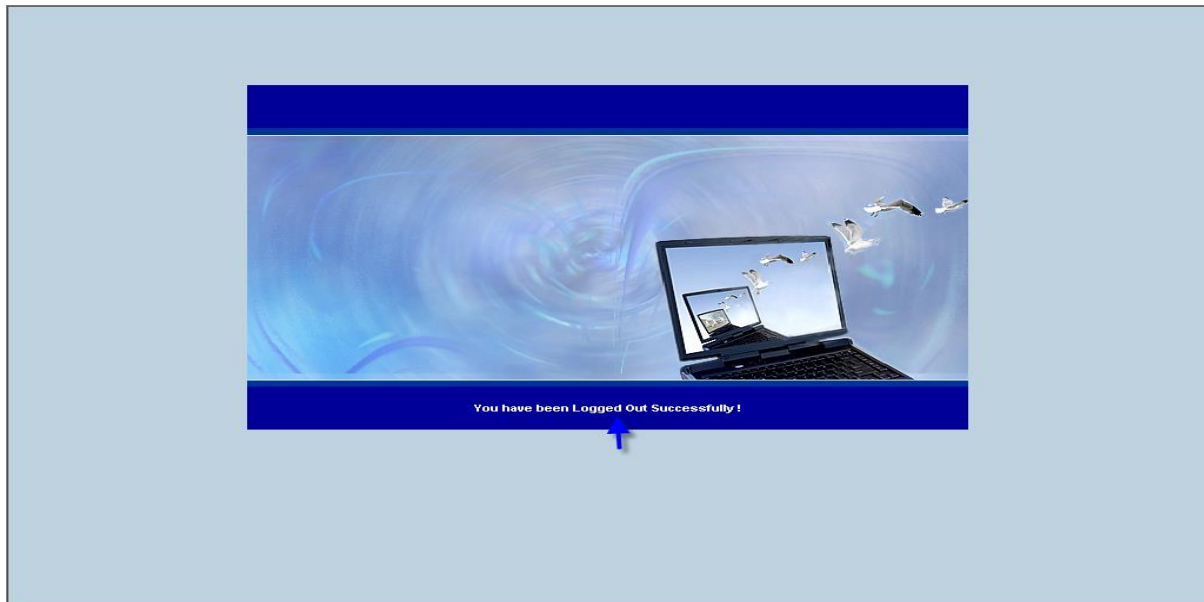
STEP	ACTION
1.	On clicking the <b>Logout</b> link, a screen will be displayed initiating the user to confirm logout.



STEP	ACTION
1.	On clicking the <b>&lt;&lt; Yes &gt;&gt;</b> button, user successfully logs out of the application and the message ('you have been logged out successfully') to that effect will be displayed.



The screen below shows the 'Logout' message.



STEP	ACTION
1.	On clicking the <input data-bbox="550 952 794 996" type="button" value=" &gt;&gt; No &lt;&lt; "/> button, user will be directed to the home page of the <b>MSP</b> Application.

**\* Logout process to the Super User is similar to that of the Network Administration Logout.**