



Mobile Service Platform Policy and Charging Rules Function User Manual

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1 PCRF - Introduction

The Policy and Charging Rules Function (PCRF) user interface is a new portal used by customer care executives or administrators to create policies and services and attach services to the subscriber.

The aim of Policy-based management is to apply an integrated management system so that system management, network management and application management can cooperate, from a network operation point of view; policy-based network management is about minimizing the complexity of end-to-end management and security.

The goal is to control behavior of network elements, process application, and network resources by employing well-defined rules.

Customer care executives or administrators can login to the desired network by specifying the network name and user id and password.

Sl.No.	Acronym	Definition
1	PCRF	Policy Charging Rules and Functions
2	MSISDN	Mobile Station International Subscriber Directory Number

2 Login

To log in:

1. In the **Network** field, enter the network name in which your application is configured.
2. In the **Username** field, enter the application user name.
3. In the **Password** field, enter the application password.

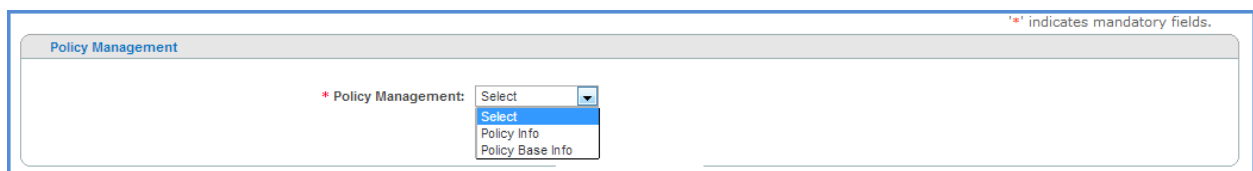
Figure 1: Login Page



Note: The **Username** and **Password** are case sensitive. The case sensitivity is subjected to the password rules set by the administrator.

4. Click **Login**. The **Policy and Charging Rules Function** home page appears as shown below.

Figure 2: Policy and Charging Rules Function Home Page



2.1 Logout

The **Logout** option helps in getting out of PCRF interface and directs to the PCRF login screen.

Figure 3: Logout



2.2 Forgot Password

To create a new password:

1. In the Login page, click **Forgot Password**, if you are unable to login or forgot the existing password.

Figure 4: Forgot Password Link

Policy and Charging Rules Function

Tue Nov 19 07:03:17 GMT 2013

INNOVATE • LEAD.

Please enter your Network, Username and Password

Network:

Username:

Password:

[Forgot Password](#)

Login Cancel

Please contact Network/Customer Administrator in case of login problems

2. The Forgot Password screen displays with the following fields. Enter the network name, Username, Email id details, and click **Submit**.

Figure 5: Forgot Password Screen

Policy and Charging Rules Function

Thu Dec 31 14:55:20 IST 2015

* indicates mandatory fields.

Forgot Password

* Network:

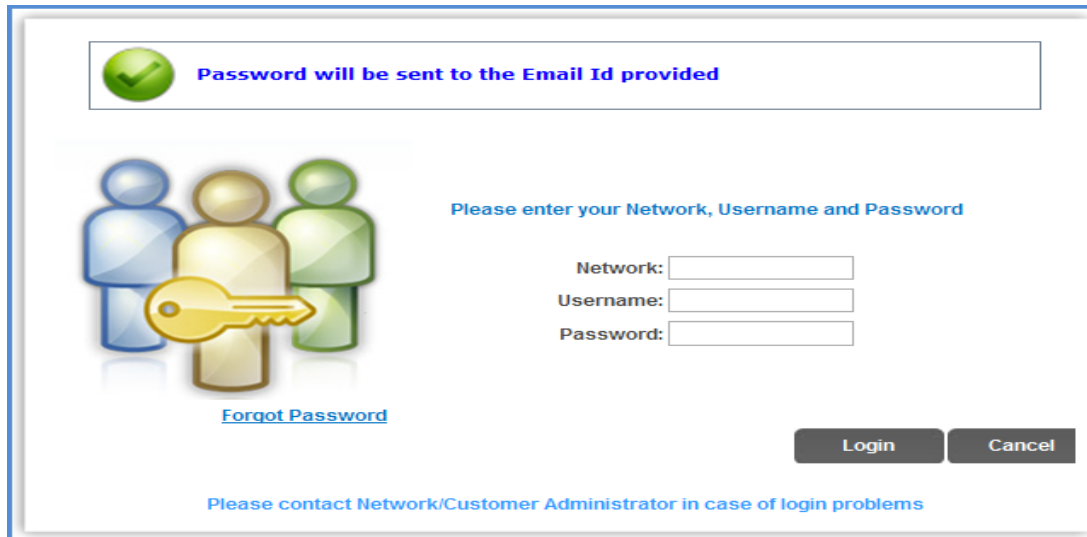
* Username:

* Email Id:

Submit Cancel

3. The updated password shall be sent to the Email Id mentioned in the above screen.

Figure 6: Successful Message



The screenshot shows a login interface with a blue border. At the top, a green checkmark icon is next to the text "Password will be sent to the Email Id provided". Below this, on the left, is an illustration of three stylized human figures (blue, yellow, and green) with a large yellow key in front of them. Below the illustration is a blue link labeled "Forgot Password". To the right of the illustration, the text "Please enter your Network, Username and Password" is displayed above three input fields labeled "Network:", "Username:", and "Password:". At the bottom right, there are two buttons: "Login" and "Cancel". At the bottom center, there is a blue link that reads "Please contact Network/Customer Administrator in case of login problems".

3 Policy Management

The Policy Management screen is used for provisioning policies by creating new policies and managing the existing policies.

3.1 Create Policy Info

To create a policy, do the following:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management** tab displays a drop-down with type of policy info
 - Policy Info
 - Policy Base Info

Figure 7: Policy Management Screen

3. Select Policy Info the below screen gets enabled with two options **Create** and **View**





Figure 8: Policy Info Screen


4. Click **Create** to create a new policy. The **Create Policy Definition** screen displays as follows.

Figure 9: Create Policy

5. Click **View All Policies** in order to view the existing policies.

Figure 10: View

Policy Name	Decision Criteria	Linked Policy ID	Interface Type	Max Service Usage Cycles	Validity Start Date	Validity End Date	Policy Type	Modify/Delete
test	FAIR_USAGE_POLICY		Gx	Unlimited	03/17/2017 15:34:07	09/02/2044 11:57:09	DYNAMIC	 
test123	FAIR_USAGE_POLICY		Gx	Unlimited	03/17/2017 15:34:07	09/02/2044 11:57:09	DYNAMIC	 

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6. Refer to the following table for a description of the fields:

Field	Description
Policy Name	Enter a new policy name which you want to create.
Decision Criteria	Select a criterion from the Decision Criteria list.
Linked Policy ID	Displays the linked policy identification number
Interface Type	Select an interface type such as Gx or Ro from Interface Type list.
Max Service Usage Cycles	Displays the life time period of the service usage
Validity Start Date	Displays the validity start date
Validity End Date	Displays the validity end date
Policy Type	Displays the policy type which was declared while creation of the policy <ul style="list-style-type: none"> Dynamic Static
Modify /Delete	Displays the Modify/ Delete policy option.

- Click **Submit**. The following success message appears by listing the newly created policy.

Figure 11: Successful Message

Policy swat created successfully.

Policy Name	Decision Criteria	Linked Policy ID	Interface Type	Max Service Usage Cycles	Validity Start Date	Validity End Date	Policy Type	Modify/Delete
swat	FAIR_USAGE_POLICY		Gx	45	04/20/2017 12:38:18	04/21/2017 12:38:20	DYNAMIC	
test	FAIR_USAGE_POLICY		Gx	Unlimited	03/17/2017 15:34:07	09/02/2044 11:57:09	DYNAMIC	
test123	FAIR_USAGE_POLICY		Gx	Unlimited	03/17/2017 15:34:07	09/02/2044 11:57:09	DYNAMIC	

Page: 1

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3.2 Modify Policies Info

To modify an existing policy, do the following:

- After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
- In the PCRF main screen, by default the **Policy Management** tab displays a drop-down with type of policy info
 - Policy Info
 - Policy Base Info

Figure 12: Policy Management Screen

Policy and Charging Rules Function

[Logout](#) | [Print](#)

Thu Jan 12 09:38:25 GMT 2017

Policy Management | Service Management | Subscriber Management | Data Management | User Management

* indicates mandatory fields.

* Policy Management:

- Select
- Policy Info
- Policy Base Info

- Select Policy Info the below screen gets enabled with two options **Create** and **View**

Figure 13: Policy Info Screen

* indicates mandatory fields.

Policy Management

* Policy Management:

[Create](#) [View](#)

- Click **View** to View the Policy Info Screen as shown below

Figure 14: View

Policy Name	Decision Criteria	Linked Policy ID	Interface Type	Max Service Usage Cycles	Validity Start Date	Validity End Date	Policy Type	Modify/Delete
swat	FAIR_USAGE_POLICY		Gx	45	04/20/2017 12:38:18	04/21/2017 12:38:20	DYNAMIC	
test	FAIR_USAGE_POLICY		Gx	Unlimited	03/17/2017 15:34:07	09/02/2044 11:57:09	DYNAMIC	
test123	FAIR_USAGE_POLICY		Gx	Unlimited	03/17/2017 15:34:07	09/02/2044 11:57:09	DYNAMIC	

[Back](#)

- Select a policy name and click to modify the existing policy details.
- Click the **Usage Based Policy** link to modify the configured details of a policy. The Modify Policy Definition screen displays as follows.

Figure 15: Modify Screen

'*' indicates mandatory fields.

Modify Policy Definition

Policy Name:

* Decision Criteria:

* Interface Type:

Max Service Usage Cycles:

* Validity Start Date:

* Validity End Date:

Policy Type:

[Submit](#) [Cancel](#)

- Modify the details as required and click **Modify**. The following message appears by confirming the successful modification of the details.

Figure 16: Successful Message

Policy swat modified successfully.								
Policy Name	Decision Criteria	Linked Policy ID	Interface Type	Max Service Usage Cycles	Validity Start Date	Validity End Date	Policy Type	Modify/Delete
swat	FAIR_USAGE_POLICY		Gx	45	04/20/2017 12:38:18	04/21/2017 12:38:20	STATIC	
test	FAIR_USAGE_POLICY		Gx	Unlimited	03/17/2017 15:34:07	09/02/2044 11:57:09	DYNAMIC	
test123	FAIR_USAGE_POLICY		Gx	Unlimited	03/17/2017 15:34:07	09/02/2044 11:57:09	DYNAMIC	

[Back](#)

3.3 Delete Policies Info

To delete existing services, do the following:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management** tab displays a drop-down with type of policy info
 - Policy Info
 - Policy Base Info

Figure 17: Policy Management Screen

3. Select Policy Info the below screen gets enabled with two options **Create** and **View**

Figure 18: Policy Info Screen

4. Click **View** to View the Policy Info Screen as shown below

Figure 19: View

Policy Name	Decision Criteria	Linked Policy ID	Interface Type	Max Service Usage Cycles	Validity Start Date	Validity End Date	Policy Type	Modify/Delete
swat	FAIR_USAGE_POLICY		Gx	45	04/20/2017 12:38:18	04/21/2017 12:38:20	DYNAMIC	
test	FAIR_USAGE_POLICY		Gx	Unlimited	03/17/2017 15:34:07	09/02/2044 11:57:09	DYNAMIC	
test123	FAIR_USAGE_POLICY		Gx	Unlimited	03/17/2017 15:34:07	09/02/2044 11:57:09	DYNAMIC	

Back


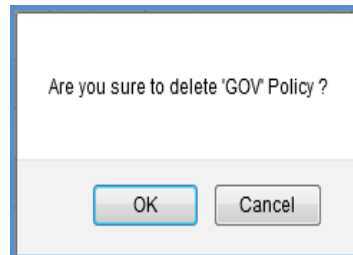
5. Click the  button next to the policy that has to be deleted.
6. A confirmation message appears whether you really want to delete the service or not. Click **OK** to proceed with the deletion.

Figure 20: Confirmation Message



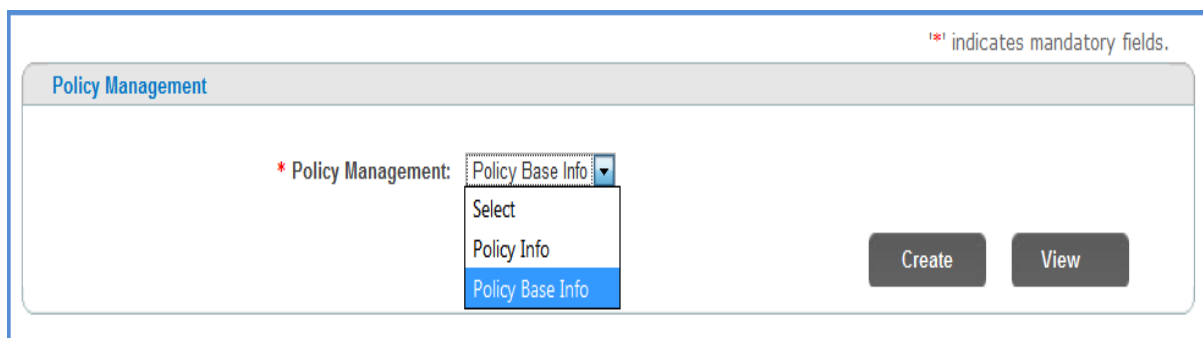
7. Click **Cancel** button to get back to the policies info screen.

3.4 Create Policy Base Info

To create a policy, do the following:

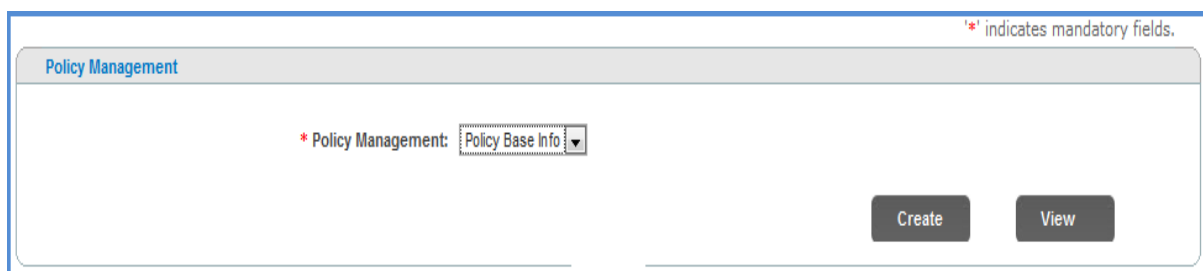
1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management** tab displays the available list of policies.

Figure 21: Policy Management Screen



3. Select the Policy Base Info from the policy management drop-down list as shown below

Figure 22: Policy Base Info



- Click Create button to create a policy base info as shown below

Figure 23: Create Policy

- The following table displays the list of fields in Create Policy Base Info

Field	Definition
Policy Base Info	Name of the Policy Base Info
Decision Criteria	Select Decision Criteria from the drop-down menu
Policy ID	Select the Policy Id from the drop-down menu

- Click **Submit** button to create a Policy Base Info successfully.

Figure 24: Successful Message

- Click **Back** button to go back to the policy management screen.

3.5 View Policy Base Info

To view a policy, do the following:

- After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
- In the PCRF main screen, by default the **Policy Management** tab displays the available list of policies.

Figure 25: Policy Management

Policy Management * indicates mandatory fields.

* Policy Management: Policy Base Info Select Policy Info Policy Base Info

Create View

3. Select the Policy Base Info from the policy management drop-down list as shown below

Figure 26: Policy Base Info Screen

Policy Management * indicates mandatory fields.

* Policy Management: Policy Base Info

Create View

4. Click **View** button, to view the Policy Base Info Screen as shown below

Figure 27: View Button

Policy Name	View
GOV	
GOV_PBT	
Ghana_Afr	
Gov_test	
M_PolicyBase_FB	
M_PolicyBase_WA	
M_Policy_Base	
M_Policy_Base1	
PBI1	
PBI2	

Page: 1 Back

5. Click button to view the created policies, Upon clicking on the pencil icon next to policy name below screen appears with add level, Add Index and policy name

Figure 28: View Policy Base Info

test_base [Collapse All](#) | [Expand All](#)

FAIR_USAGE_POLICY - test - Add Level

Add Index Cancel

- Click on **Usage Based Policy** to modify the existing policy base info

Figure 29: Modify Policy Base Info

Modify Policy Base Info

* indicates mandatory fields.

Policy Base Info: test_base

* Decision Criteria: FAIR_USAGE_POLICY

* Policy ID: test

Submit Delete Cancel

- Click on **TEST** to view the policy base info window

Figure 30: Policy Base Info Screen

Policy Base Info.

Policy Name: test

Decision Criteria: FAIR_USAGE_POLICY

Interface Type: Gx

Max Service Usage Cycles: -1

Validity Start Date: 03/17/2017 15:34:07

Validity End Date: 09/02/2044 11:57:09

Policy Type: DYNAMIC

Cancel

- Click **Add Level/ Add Index** to add a Policy Base Info

Figure 31: Add Policy Base Info

Add Policy Base Info

* indicates mandatory fields.

Policy Base Info: GOV

* Decision Criteria: Select

* Policy ID: Select

Submit Cancel

- For more information on adding a Policy Base Info, Refer **Policy Management> Create Policy Base Info**

Figure 32: Add Policy Base Info

Add Policy Base Info

* indicates mandatory fields.

Policy Base Info: GOV

* Decision Criteria: Select

* Policy ID: Select

Submit Cancel

3.6 Modify Policy Based Info

To modify an existing policy, do the following:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management** tab displays the available list of policies.

Figure 33: Policy Management

Policy Management

* Policy Management: Policy Base Info

Select
Policy Info
Policy Base Info

Create View

* indicates mandatory fields.

3. Select the Policy Base Info from the policy management drop-down list as shown below

Figure 34: Policy Base Info Screen

Policy Management

* Policy Management: Policy Base Info

Create View

* indicates mandatory fields.

4. Click **View** button, to view the Policy Base Info Screen as shown below

Figure 35: View Button

Policy Name	View
GOV	
GOV_PBT	
Ghana_Afr	
Gov_test	
M_PolicyBase_FB	
M_PolicyBase_WA	
M_Policy_Base	
M_Policy_Base1	
PBI1	
PBI2	

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5. Select a policy name and click to modify the existing policy details.

- Click the **Usage Based Policy** link to modify the configured details of a policy. The Modify Policy Base info screen displays as follows.

Figure 36: Modify

Modify Policy Base Info ** indicates mandatory fields.


Policy Base Info:











* Decision Criteria:

* Policy ID:

- Modify the details as required and click **Modify**. The following message appears by confirming the successful modification of the details.

Figure 37: Confirmation Message

 Policy Base Info GOV_PBT updated Successfully

Policy Name	View
GOV_PBT	
Ghana_Afr	
Gov_test	
M_PolicyBase_FB	
M_PolicyBase_WA	
M_Policy_Base	
M_Policy_Base1	
PBI1	
PBI2	
PB_01	

3.7 Delete Policy Based Info

To delete policy base info, do the following:

- After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
- In the PCRF main screen, by default the **Policy Management** tab displays the available list of policies.

Figure 38: Policy Management

Policy Management ** indicates mandatory fields.

* Policy Management: Policy Base Info Select Policy Info Policy Base Info

Create View

3. Select the Policy Base Info from the policy management drop-down list as shown below

Figure 39: Policy Base Info Screen











Policy Management ** indicates mandatory fields.

* Policy Management: Policy Base Info

Create View

4. Click **View** button, to view the Policy Base Info Screen as shown below

Figure 40: View Button

Policy Name	View
GOV	
GOV_PBT	
Ghana_Afr	
Gov_test	
M_PolicyBase_FB	
M_PolicyBase_WA	
M_Policy_Base	
M_Policy_Base1	
PBI1	
PBI2	

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5. Select a policy name and click  to modify the existing policy details.
6. Click the **Usage Based Policy** link to modify the configured details of a policy. The Modify Policy Base info screen displays as follows.

Figure 41: Modify Policy Base Info

Modify Policy Base Info ** indicates mandatory fields.

Policy Base Info: GOV

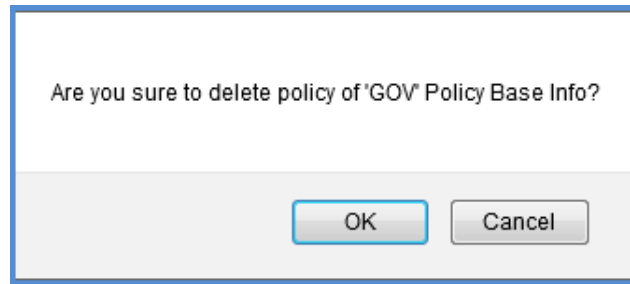
* Decision Criteria: FAIR_USAGE_POLICY

* Policy ID: Gov_PLI

Submit Delete Cancel

- Click **Delete** button next to **Submit**, A confirmation message is displayed as shown below

Figure 42: Delete Confirmation



- Click **OK** to delete the policy base info, Delete successful message is displayed as shown below

Figure 43: Confirmation Message



- Click **Cancel** to go back to the **Modify Policy Base Info** page

4 Service Management

Using 'Service Management', it is possible to create new services by assigning charging rule Ids.

4.1 Create New Service Info

To create new services, do the following:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, the Service Management screen displays with list of options
 - Service Info
 - Service Base Info
 - QOS Rating Service Map

Figure 44: Service Management

The screenshot shows the 'Service Management' screen. At the top right, a note states '* indicates mandatory fields.' Below this, there is a label '* Service Management:' followed by a dropdown menu. The dropdown menu is open, showing four options: 'Select', 'Service Info', 'Service Base Info', and 'QOS Rating Service Map'. The 'Select' option is currently highlighted.

3. Upon selection of one of the service management types from the drop-down menu, the **create** and **view** option gets enabled as shown below

Figure 45: Service Info

The screenshot shows the 'Service Management' screen with the dropdown menu now set to 'Service Info'. Below the dropdown, there are two buttons: 'Create' and 'View', both of which are now enabled and visible.

4. Click **Create New Service Info**, to create a new service. The **Create Service Info** screen displays with the following fields.

Figure 46: Create Service Info

The screenshot shows the 'Create Service Info' screen. It contains several input fields and dropdown menus. The fields are: '* Service Description:' (text input), '* Charging Rule Id:' (dropdown), '* Service Data Flow Base Id:' (dropdown), '* QOS Set Name:' (dropdown), '* Quota Id:' (dropdown), 'Special Service Flag:' (dropdown with 'Normal Service' selected), 'TOS Traffic Class:' (text input), 'Security Parameter Index:' (text input), 'Flow Label:' (text input), and 'Flow Direction:' (dropdown). At the bottom right, there are two buttons: 'Submit' and 'Cancel'.




















Note: To create new Charging Rule Ids, refer [Data Management > Charging Rule Definition](#) section

5. Refer to the following table for a description of the fields:

Field	Description
Service Description	Enter an identifier for the new service
Charging Rule Id	Select the charging rule identity from the Charging Rule Id list.
Service Data Flow Base ID	Select the service data flow base id from the Service Data Flow Base ID list.
QOS Set Name	Select QOS set name from the QOS Set Name list
Quota Id	Select Quota Id from the Quota id list
Special Service Flag	Select Special Service Flag from the Select Special Service list
TOS Traffic Class	Enter TOS Traffic Class for the new service
Security Parameter Index	Enter Security Parameter index for the new service
Flow Label	Enter Flow Label for the new service
Flow Direction	Select flow direction from the Flow Direction list

6. Click **Submit**, then the following success message appears listing the newly created service along with the other services.

Figure 47: Successful Message

 Service test1234 created successfully.		
Service Identifier	Charging Rule Id	Modify/Delete
SI987655	AIR987655	 
SID_1024	AIR987655	 
SID_2028	CRI_2048	 
SI_ARI_LAB_IOT	CRN_ARI_LAB_IOT	 
SI_Ari	CRN_Ari	 
SI_LOAD	CRN_LOAD	 
SI_LOAD1	CRN_LOAD1	 
SI_LOAD2	CRN_LOAD2	 
test1234	CRN_Ari	 

4.2 View Service Info

To view the service info, do the following:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Service Management** tab displays the available list of services.

Figure 48: Service Management

Service Management

* Service Management: Select

Select

Service Info

Service Base Info

QOS Rating Service Map

* indicates mandatory fields.

3. Click the **Service Management** tab. The View All Services screen displays **View All Services** and **Create New Service** tabs.

Figure 49: View Service Base Info

Service Management

* Service Management: Service Base Info

Create View

* indicates mandatory fields.

4. Click **View Service Info** tab. The View Service Base Info screen as shown below

Figure 50: View

Service Description	Charging Rule Id	Service Data Flow Base Id	Quota Id
M_Service1	M_Charge_ID	SDF_Base_id_Gen	Quota_Gen
M_Service2	CRI_Gen	ss_fb_SDF_Base1	BAL1000
M_Service_FB1	ss_fb_cri1	ss_fb_SDF_Base1	ss_wa_quota1
M_Service_WA1	ss_wa_cri1	ss_wa_SDF_Base1	ss_wa_quota1
Max_serv1_fup	ss_fb_cri1	ss_fb_SDF_Base1	ss_fb_quota1
Max_serv1_wfup	ss_wa_cri1	ss_wa_SDF_Base1	ss_wa_quota1
R_ser1	R_cri1	R_sdf_base_1	Quota_Gen

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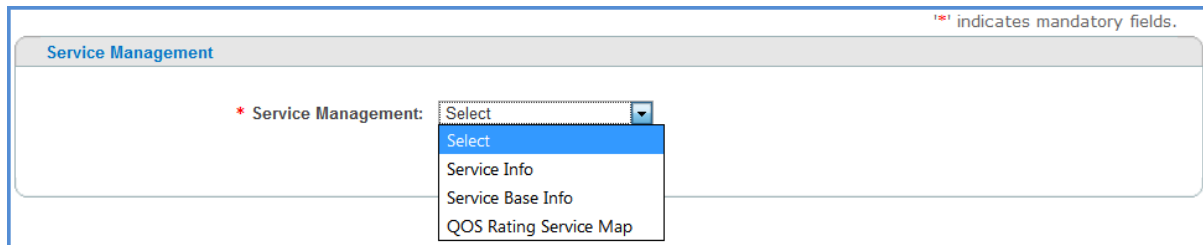
Back

4.3 Modify Service Info

To modify the existing services, do the following:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, the **Service Management** tab displays the available list of services.

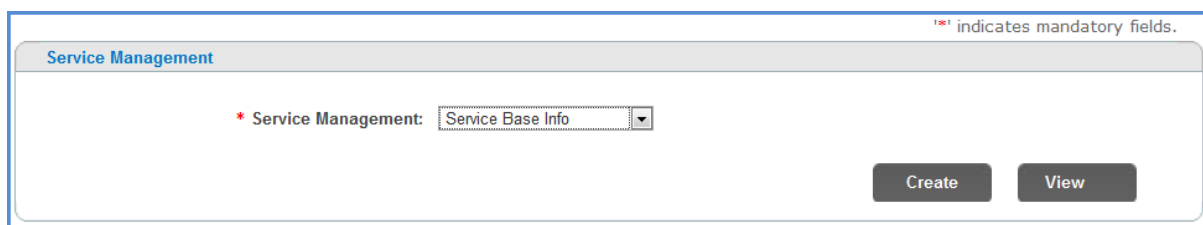
Figure 51: Service Management



The screenshot shows the 'Service Management' tab selected. A dropdown menu is open for the 'Service Management' field, showing options: 'Select', 'Service Info', 'Service Base Info', and 'QOS Rating Service Map'. A red asterisk indicates mandatory fields.

3. Click the **Service Management** tab. The View All Services screen displays **View All Services** and **Create New Service** tabs.

Figure 52: View Service Info



The screenshot shows the 'View Service Info' screen. The 'Service Management' dropdown is set to 'Service Base Info'. There are 'Create' and 'View' buttons at the bottom right. A red asterisk indicates mandatory fields.


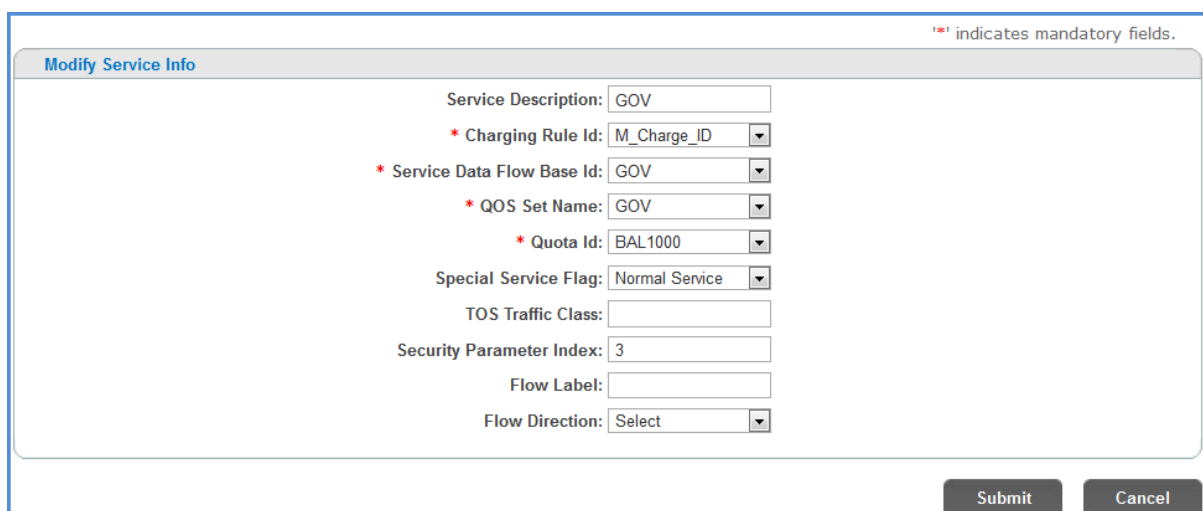
4. Click the  button opposite to the service, which you want to modify. The Modify Service Definition screen displays the selected service details.

Figure 53: Modify Service Info



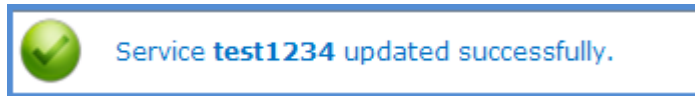
The screenshot shows the 'Modify Service Info' screen. The form contains the following fields:

- Service Description: GOV
- * Charging Rule Id: M_Charge_ID
- * Service Data Flow Base Id: GOV
- * QOS Set Name: GOV
- * Quota Id: BAL1000
- Special Service Flag: Normal Service
- TOS Traffic Class:
- Security Parameter Index: 3
- Flow Label:
- Flow Direction: Select

Buttons 'Submit' and 'Cancel' are at the bottom right. A red asterisk indicates mandatory fields.

5. Modify the service details as needed and click **Submit** .The success message appears as follows.

Figure 54: Successful Message

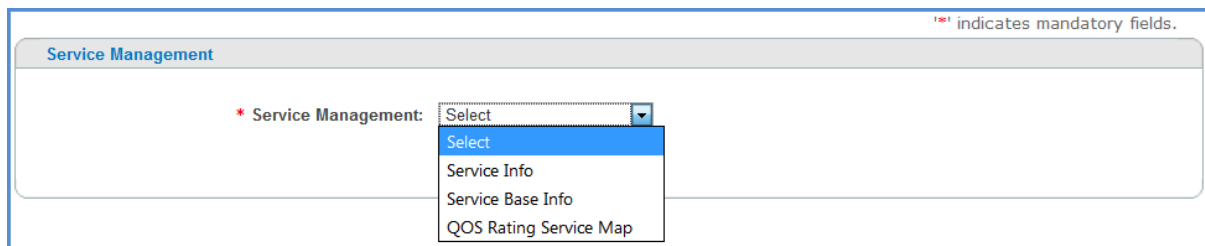


4.4 Delete Service Info

To delete existing services, do the following:

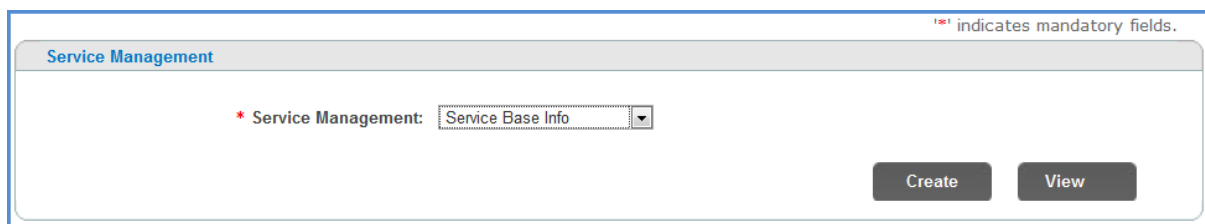
1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, the **Service Management** tab displays the available list of services.

Figure 55: Service Management



3. Click the **Service Management** tab. The View All Services screen displays **View All Services** and **Create New Service** tabs.

Figure 56: View Service Info



4. Click **View** to view the below screen with Service Identifier, Charging Rule ID, Modify /Delete options

Figure 57: View

Service Description	Charging Rule ID	Service Data Flow Base ID	Quota ID	Special Service Flag	TOS Traffic Class	Security Parameter Index	Flow Label	Flow Direction	Modify/Delete
H_Service1	H_ChargingRule1	SDP_Parameters1	Quota1	Normal Service	1	12	223	Unidirectional	✎ ✕
H_Service2	CR1	sd_p1	SA12345	Special Service	3	3	4	Unidirectional	✎ ✕
H_Service_PBI	ss_r1	ss_r1	ss_r1	Normal Service	12	12	234	Unidirectional	✎ ✕
H_Service_PBI	ss_r1	ss_r1	ss_r1	Normal Service	12	34	56	Unidirectional	✎ ✕
Max_serv1_up	ss_r1	ss_r1	ss_r1	Normal Service	2	3		Download	✎ ✕
Max_serv1_down	ss_r1	ss_r1	ss_r1	Normal Service				Download	✎ ✕
R_serv1	R_r1	R_r1	Quota1	Normal Service	2	3	223	Unidirectional	✎ ✕












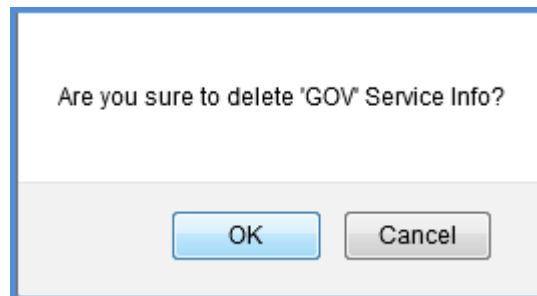
5. Click the  button opposite to the service, which you want to delete.

Figure 58: Delete Button

Service Description	Charging Rule M	Service Data Flow Base M	QOS Set Name	QOS Set Name	Quota M	Special Service Flag	TOS Traffic Class	Security Parameter Index	Flow Label	Flow Direction	Modify/Delete
GOV	M_Charge_ID	GOV	GOV	GOV	1			3			 
M_Service1	M_Charge_ID	SDF_Base_M_Sem	Quota_Gen	Quota_Gen	1	Special Service	223	3			 
M_Service2	CRS_Gen	ss_Rs_SDF_Base1	BAL1000	BAL1000	1		4	3			 
M_Service_FBI	ss_Rs_011	ss_Rs_SDF_Base1	ss_his_quota1	ss_his_quota1	1		234	3			 
M_Service_WA1	ss_his_011	ss_his_SDF_Base1	ss_his_quota1	ss_his_quota1	1		56	3			 
R_serv1	R_011	R_sdf_base_1	Quota_Gen	Quota_Gen	1		223	3			 
R_serv1	R_011	R_sdf_base_1	BAL1000	BAL1000	1						 

6. A confirmation message appears whether you really want to delete the service or not. Click **OK** to proceed with the deletion.

Figure 59: Delete Confirmation



7. The following message appears confirming the successful deletion of the service.

Figure 60: Successful Message

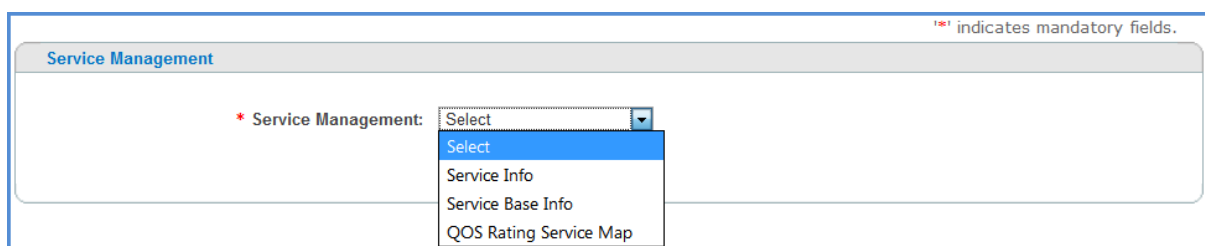


4.5 Create Service Base Info

To create a service base info, do the following:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, **Service Management** tab displays the available list of services.
 - Service Info
 - Service Base Info
 - QOS Rating Service Map

Figure 61: Service Management



- Upon selection of one of the service management type from the drop-down menu, the **create** and **view** option gets enabled as shown below

Figure 62: Service Base Info

The screenshot shows a web interface titled "Service Management". Below the title bar, there is a label "* Service Management:" followed by a dropdown menu currently displaying "Service Base Info". To the right of the dropdown are two buttons: "Create" and "View". A red asterisk icon with a note "indicates mandatory fields." is located in the top right corner of the interface.

- Click **Create Service Base Info**, to create a new service base info. The **Create Service Base Info** screen displays with the following fields.

Figure 63: Create Service Base Info

The screenshot shows a web interface titled "Create Service Base Info". Below the title bar, there are two mandatory fields: "* Service Base Description:" with a text input field, and "* Service Id:" with a list box. The list box contains the following options: GOV, M_Service1, M_Service2, M_Service_FB1, and M_Service_WA1. At the bottom right of the form are two buttons: "Submit" and "Cancel". A red asterisk icon with a note "indicates mandatory fields." is located in the top right corner of the interface.

- Refer to the following table for a description of the fields:

Field	Description
Service Base Description	Enter an identifier for the new service
Service Id	Select Service Id from the Service id list

- Click **Submit**, the following success message appears as shown below

Figure 64: Successful Message

The screenshot shows a notification box with a green circular icon containing a white checkmark. To the right of the icon, the text reads "Service Base Info swati test created successfully."

4.6 View Service Base Info

To view the service base info, do the following:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, **Service Management** tab displays the available list of Services.
 - Service Info
 - Service Base Info
 - QOS Rating Service Map

Figure 65: Service Management

The screenshot shows the 'Service Management' tab in the PCRF main screen. A dropdown menu is open for the 'Service Management' field, which is marked with a red asterisk indicating it is mandatory. The dropdown menu lists four options: 'Select', 'Service Info', 'Service Base Info', and 'QOS Rating Service Map'. The 'Select' option is currently highlighted.

3. Upon selection of one of the service management type from the drop-down menu, the **create** and **view** option gets enabled as shown below

Figure 66: Service Base Info

The screenshot shows the 'Service Management' tab with 'Service Base Info' selected in the dropdown menu. The 'Create' and 'View' buttons are now enabled and visible at the bottom right of the screen.

4. Click **View** Service Base Info. The service base info screen as shown below

Figure 67: View

Service Base Description	Modify/Delete
GOV	
Gov_test	
M_ServiceBase_FB	
M_ServiceBase_WA	
M_Service_base	
M_Service_base1	
R_srv_base	
R_srv_base1	
SBD_01	
SVC_BASE_NAME_1	

Page: 1

5. Click **Back** to go back to the View service base info screen.

4.7 Modify Service Base Info

To modify the existing service base info, do the following

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, the Service Management screen displays with list of options
 - Service Info
 - Service Base Info
 - QOS Rating Service Map

Figure 68: Service Management

The screenshot shows the 'Service Management' screen. At the top right, a note states: '* indicates mandatory fields.' Below this, there is a label '* Service Management:' followed by a dropdown menu. The dropdown menu is open, showing four options: 'Select' (highlighted in blue), 'Service Info', 'Service Base Info', and 'QOS Rating Service Map'.

3. Upon selection of one of the service management type from the drop-down menu, the **create** and **view** option gets enabled as shown below

Figure 69: Service Base Info

The screenshot shows the 'Service Management' screen with the dropdown menu set to 'Service Info'. At the bottom right of the screen, there are two buttons: 'Create' and 'View'.

4. Click the **View** tab. The existing services are displays the Service Base Description and Modify/Delete buttons as shown below

Figure 70: View

Service Base Description	Modify/Delete
GOV	
Gov_test	
M_ServiceBase_FB	
M_ServiceBase_WA	
M_Service_base	
M_Service_base1	
R_srv_base	
R_srv_base1	
SBD_01	
SVC_BASE_NAME_1	

Page: 1


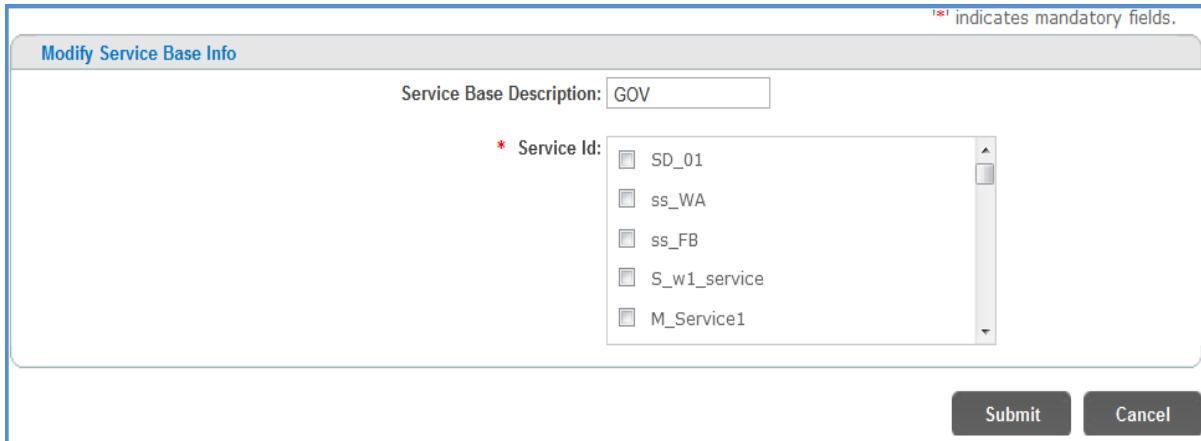
5. Click the  button next to the service, which you want to modify. The Modify Service Base Info screen displays the selected service details.

Figure 71: Modify



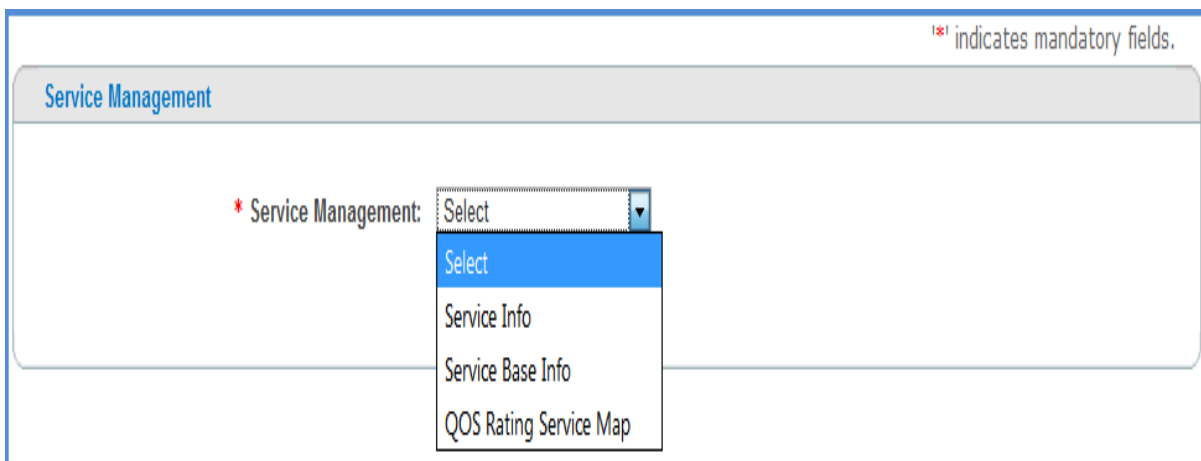
6. Modify the service details as needed and click **Submit** or else click **Cancel** to exit from the modifying the service definition. The success message appears as “Service updated successfully”.

4.8 Delete Service Base Info

To Delete Service Base Info:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, the Service Management screen displays with list of options
 - Service Info
 - Service Base Info
 - QOS Rating Service Map

Figure 72: Service Management























- Upon selection of one of the service management type from the drop-down menu, the **create** and **view** option gets enabled as shown below

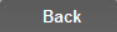
Figure 73: Service Info

The screenshot shows a web interface titled "Service Management". At the top right, a note states: "* indicates mandatory fields." Below this, there is a label "* Service Management:" followed by a dropdown menu currently set to "Service Info". To the right of the dropdown are two buttons: "Create" and "View".

- Click the **View Services** tab. The existing services are displays the Service Base Description and Modify/Delete buttons.

Figure 74: View

Service Base Description	Modify/Delete
GOV	 
Gov_test	 
M_ServiceBase_FB	 
M_ServiceBase_WA	 
M_Service_base	 
M_Service_base1	 
R_srv_base	 
R_srv_base1	 
SBD_01	 
SVC_BASE_NAME_1	 




- Click the  button next to the service, to delete the selected service. The Confirmation message screen is displayed as shown below

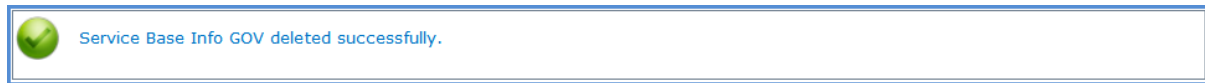
Figure 75: Confirmation Message

The screenshot shows a confirmation dialog box with the text: "Are you sure to delete 'GOV' Service Management Base Information?". At the bottom of the dialog are two buttons: "OK" and "Cancel".

- Click **Ok** to delete or click cancel to exit from the deletion procedure.

7. The following message appears confirming the successful deletion of the service.

Figure 76: Successful Message



4.9 Create QOS Rating Service Map

To Create QOS Rating Service Map, do the following:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, **Service Management** tab displays the available list of Services.

Figure 77: Service Management Screen

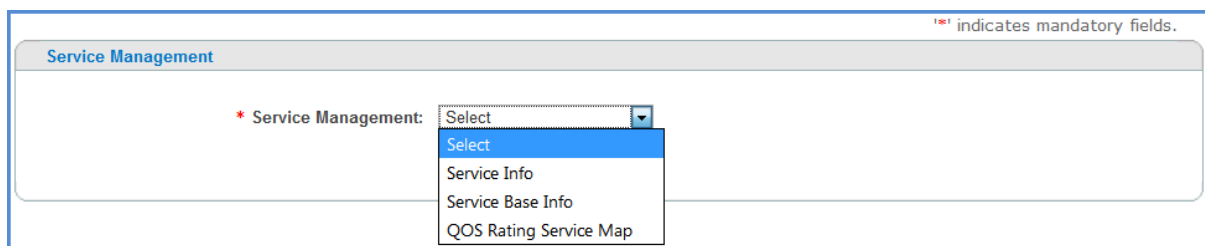
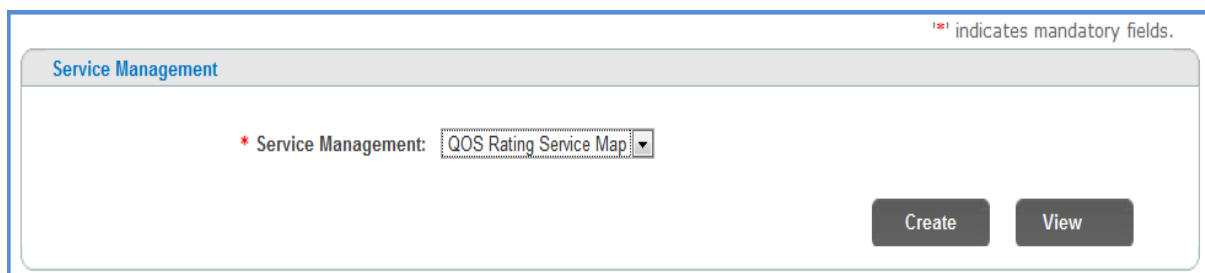


Figure 78: QOS Rating Service Map




3. Click **Create QOS Rating Service Map**, to create a new service base info. The **Create QOS Rating Service Map** screen displays with the following fields.

Figure 79: Create QOS Rating Service

The "Mapping QOS Rating Service" screen contains the following fields: "QOS BaseName:" with a dropdown menu, "QOS Identifier:" with a dropdown menu, "Rating Group:" with a dropdown menu, "Service Id:" with a dropdown menu, and "Default Rating Value:" with a text input field. On the right side, there is a large empty rectangular area with a scroll bar. At the bottom right, there are two buttons: "Submit" and "Cancel".

4. Refer to the following table for a description of the fields:

Field	Description
QOS Base Name	Select QOS base name from the drop-down list
QOS Identifier	Select QOS identifier from the drop-down list
Rating Group	Select Rating Group from the drop-down list
Service Id	Select Service id from drop-down list
Default Rating Value	Specify the default rating value

5. Click the  **right arrow** to add the combination of declarations, it is displayed as shown below













6. Click  **left arrow** to remove the declarations
7. Click **Submit** to create QOS Rating Service Map, the successfully message is displayed as shown below

Figure 80: Successful Message

 QOS Rating Service Mapped Successfully

QOS Identifier	Rating Group	Service Id	QOS Basename	Default Rating Value	Delete
M_Qos_Identi1	CHARGEABLESD	M_Service1	M_QOS_SET	50	
M_Qos_Identi1	GOV	M_Service_FB1	M_QOS_SET	50	
M_Qos_Identi1	RG4	M_Service_FB1		50	
M_Qos_Identi1	RG3	R_ser1	M_QOS_SET	50	
M_Qos_Identi1	SS_WA_RATINGGROUPID	Max_serv1_fup	M_QOS_SET	50	
M_Qos_Identi1	RG4	sd5	M_QOS_SET	50	
M_Qos_Identi1	S_RG_1	M_Service_WA1	M_QOS_SET	50	
M_Qos_Identi1	CHARGEABLESD	S_w1_service	M_QOS_SET	50	
M_Qos_Identi1	CHARGEABLESD	M_Service2	M_QOS_SET	50	
M_Qos_Identi2	SS_WA_RATINGGROUPID	Max_serv1_fup	M_QOS_SET2	50	

Back

8. Click **Back** for the service Management screen

4.10 View QOS Rating Service Map

To view the service base info, do the following:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, **Service Management** tab displays the available list of services.

Figure 81: Service Management

The screenshot shows the 'Service Management' tab in the PCRF main screen. A red asterisk indicates mandatory fields. The 'Service Management' dropdown menu is open, showing options: 'Select', 'Service Info', 'Service Base Info', and 'QOS Rating Service Map'. A red asterisk is next to the 'Service Management' label.

3. Upon selection of one of the service management type from the drop-down menu, the **create** and **view** option gets enabled as shown below

Figure 82: QOS Rating Service Map

The screenshot shows the 'QOS Rating Service Map' screen. The 'Service Management' dropdown menu is set to 'QOS Rating Service Map'. The 'Create' and 'View' buttons are visible at the bottom right. A red asterisk indicates mandatory fields.

4. Click **View** QOS Rating Service Map. The QOS Rating Service Map screen as shown below

Figure 83: View

QOS Identifier	Rating Group	Service Id	QOS BaseName	Default Rating Value	Delete
M_Qos_Identi1	CHARGEABLESD	M_Service1	M_QOS_SET	50	✗
M_Qos_Identi1	GOV	M_Service_FB1	M_QOS_SET	50	✗
M_Qos_Identi1	RG4	M_Service_FB1		50	✗
M_Qos_Identi1	RG3	R_ser1	M_QOS_SET	50	✗
M_Qos_Identi1	SS_WA_RATINGGROUPID	Max_serv1_fup	M_QOS_SET	50	✗
M_Qos_Identi1	RG4	sd5	M_QOS_SET	50	✗
M_Qos_Identi1	S_RG_1	M_Service_WA1	M_QOS_SET	50	✗
M_Qos_Identi1	CHARGEABLESD	S_w1_service	M_QOS_SET	50	✗
M_Qos_Identi1	CHARGEABLESD	M_Service2	M_QOS_SET	50	✗
M_Qos_Identi2	SS_WA_RATINGGROUPID	Max_serv1_fup	M_QOS_SET2	50	✗

Back

4.11 Delete QOS Rating Service Map

To Delete QOS Rating Service Map:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, **Service Management** tab displays the available list of services.

Figure 84: Service Management

The screenshot shows the 'Service Management' tab in the PCRF main screen. A red asterisk indicates mandatory fields. The 'Service Management' dropdown menu is open, showing options: 'Select', 'Service Info', 'Service Base Info', and 'QOS Rating Service Map'. A red asterisk is next to the 'Service Management' label.

3. Upon selection of one of the service management types from the drop-down menu, the create and view option gets enabled as shown below

Figure 85: QOS Rating Service Map

The screenshot shows the 'QOS Rating Service Map' screen. The 'Service Management' dropdown menu is set to 'QOS Rating Service Map'. The 'Create' and 'View' buttons are visible at the bottom right. A red asterisk indicates mandatory fields.

4. Click **View** QOS Rating Service Map. The QOS Rating Service Map screen as shown below

Figure 86: View

QOS Identifier	Rating Group	Service Id	QOS Baseline	Default Rating Value	Delete
M_Qos_Identi1	CHARGEABLESD	M_Service1	M_QOS_SET	50	✗
M_Qos_Identi1	GOV	M_Service_FB1	M_QOS_SET	50	✗
M_Qos_Identi1	RG4	M_Service_FB1		50	✗
M_Qos_Identi1	RG3	R_ser1	M_QOS_SET	50	✗
M_Qos_Identi1	SS_WA_RATINGGROUPID	Max_serv1_fup	M_QOS_SET	50	✗
M_Qos_Identi1	RG4	sd5	M_QOS_SET	50	✗
M_Qos_Identi1	S_RG_1	M_Service_WA1	M_QOS_SET	50	✗
M_Qos_Identi1	CHARGEABLESD	S_w1_service	M_QOS_SET	50	✗
M_Qos_Identi1	CHARGEABLESD	M_Service2	M_QOS_SET	50	✗
M_Qos_Identi2	SS_WA_RATINGGROUPID	Max_serv1_fup	M_QOS_SET2	50	✗

Back


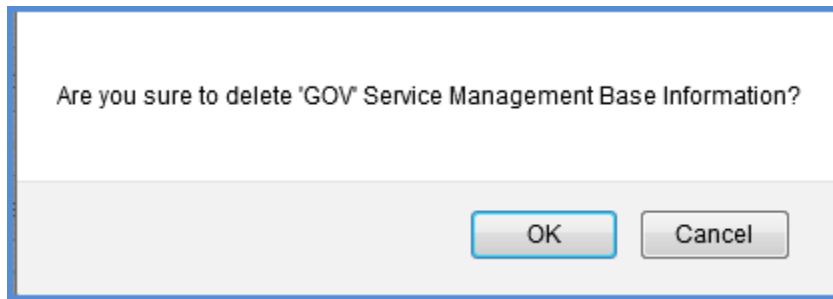
5. Click the  button next to the service, to delete the selected service. The Confirmation message screen is displayed as shown below

Figure 87: Deletion Confirmation



6. Click **Ok** to delete or click cancel to exit from the deletion procedure.
7. The following message appears confirming the successful deletion of the service as "QOS Rating Service Map is deleted successfully."

Figure 88: Successful Message



5 Subscriber Management

Whatever, the policies, and services existing in the interface can be selected and associated to a subscriber using Subscriber Management tab. It facilitates the administrator to assign policies and services to a group as well as to an individual's phone number; and also possible to view the usage report of a service assigned to a subscriber.

5.1 Bulk Upload

The Bulk Upload screen helps the administrator to upload .txt file with various phone numbers and to this bulk, it is possible to assign a service and a policy.

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, click **Subscriber Management** tab. The Subscriber management window appears as shown below. Subscriber Management consist of list of services
 - Bulk Upload
 - Policy View
 - Usage Report
 - Subscriber Details
 - Subscriber Policy Attachment
 - Default Policies

Figure 89: Subscriber Management

The screenshot shows the 'Subscriber Management' window. At the top right, a note says '* indicates mandatory fields.' Below this, there's a label '* Subscriber Management:' followed by a dropdown menu. The dropdown menu is open, showing the following options: 'Select', 'Bulk Upload' (which is highlighted in blue), 'Policy View', 'Usage Report', 'Subscriber Details', 'Subscriber Policy Attachment', and 'Default Policies'. To the right of the dropdown menu is a 'Submit' button.

3. Select **Bulk Upload** from the subscriber management drop-down list, to upload phone numbers in bulk and hit **submit**. The **Bulk Upload** screen appears as follows.

Figure 90: Bulk

The screenshot shows the 'Bulk Upload' window. At the top right, a note says '* indicates mandatory fields.' Below this, there's a 'Note:' section with the following instructions:

- Upload File should be a (.txt).
- Mobile Number should be only Numeric.
- Minimum length of Mobile Number should be 7.
- Maximum length of Mobile Number should be 15.
- IMSI should be only Numeric.
- Minimum length of IMSI should be 15.
- Maximum length of IMSI should be 16.
- File Format for Assign MSISDN,IMSI.
- File Format for Remove MSISDN.

 Below the note, there's an '* Action:' label followed by a dropdown menu set to 'Select'. Below that, there's an '* Upload File:' label followed by a 'Browse...' button and the text 'No file selected.' At the bottom right, there are 'Submit' and 'Cancel' buttons.

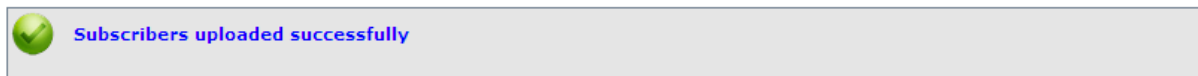
Note: For more information about creating new policies and services, refer [Create Policy](#) and [Create New Service](#)

4. Refer to the following table for a description of the fields:

Field	Description
Action	Select Action from the drop-down list <ul style="list-style-type: none"> • Assign • Remove
Upload File	Click Browse to upload a .txt file consisting of phone numbers to which you want to assign a service and policy in a single upload.

5. Click **Submit**. The success message appears as follows.

Figure 91: Successful Message



5.2 Policy View

The available policies and services assigned to a phone number in the Policy View tab.

5.2.1 Assigned Services and Policies

- In the PCRF main screen, click **Subscriber Management** tab. The Subscriber management window appears as shown below. Subscriber Management consist of list of services
 - Bulk Upload
 - Policy View
 - Usage Report
 - Subscriber Details
 - Subscriber Policy Attachment

Figure 92: Subscriber Management

- Select **Policy View** from the drop-down list, to associate services and policies to a number. The **Policy View** screen appears as follows.

Figure 93: Policy View

Policy View

* Subscription ID: 526632976994

Go Cancel

* indicates mandatory fields.

3. In the **Subscription ID** field, enter the phone number and then click **GO**. The Subscriber screen displays with the following details.

Figure 94: Subscriber Screen

Subscription ID: 526632976994 Total Remaining Usage: 746015 KB

Service ID	Policy ID	Remaining Usage(KB)	Policy Start Time	Policy End Time	Remaining Usage Cycles
PCRF_USAGE_SI	PCRF_USAGE_POLICY	438815	2022-02-23 00:00:01.0	2024-11-17 23:59:59.0	-1
PCRF_USAGE_SI_2	PCRF_USAGE_POLICY_2	204800	2022-02-23 00:00:01.0	2024-11-17 23:59:59.0	-1
PCRF_USAGE_SI_3	PCRF_USAGE_POLICY_3	102400	2022-02-23 00:00:01.0	2024-11-17 23:59:59.0	-1

Back

4. Click **Back** to go back to the Subscriber management screen

5.3 Usage Report

The 'Usage Report' details the usage information of the associated service.

1. In the PCRF main screen, click **Subscriber Management** tab. The Subscriber management window appears as shown below. Subscriber Management consist of list of services
 - Bulk Upload
 - Policy View
 - Usage Report
 - Subscriber Details
 - Subscriber Policy Attachment

Figure 95: Subscriber Management

Subscriber Management

* Subscriber Management: Select

Select

Bulk Upload

Policy View

Usage Report

Subscriber Details

Subscriber Policy Attachment

Submit

* indicates mandatory fields.

2. Select **Usage Report** from drop-down list, to view the usage report of a service. The **Usage Report** screen appears as follows.

Figure 96: Usage Report

3. In the **Subscription ID** field, enter the phone number whose service usage report wants to view.

Figure 97: Usage Report Screen

4. Click the **Go** button, the usage report appears as follow.

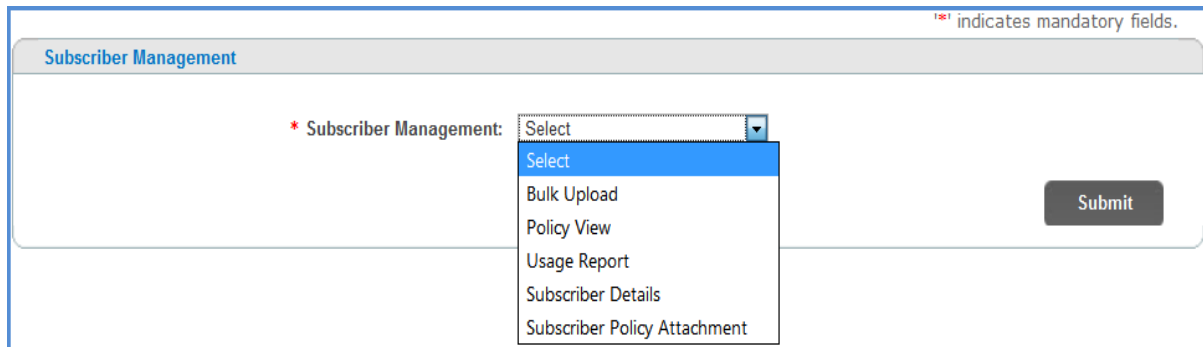
Figure 98: Usage Report

S.No.	Service ID	Session ID	Record Time	Request Type	Request Number	Used Units	Session Start Time	Session End Time	Monitoring Key	Charging Rule ID
1	SI_LOAD1	aaa://192.168.149.169:880:f00d3a42;0	30-08-2013 09:02:49	INITIAL	0	9999999	30-08-2013:09:02:49:14		MK2	CRN_LOAD1
2	SI_LOAD1	aaa://192.168.149.169:880:f00d3a42;0	30-08-2013 08:38:50	INITIAL	0	9999999	30-08-2013:08:38:50:19		MK2	CRN_LOAD1
3	SI_LOAD1	aaa://192.168.149.169:880:f00d3a42;0	30-08-2013 08:15:28	INITIAL	0	9999999	30-08-2013:08:15:28:28		MK2	CRN_LOAD1
4	SI_LOAD1	aaa://192.168.149.169:880:f00d3a42;0	30-08-2013 06:51:58	INITIAL	0	9999999	30-08-2013:06:51:58:64		MK2	CRN_LOAD1

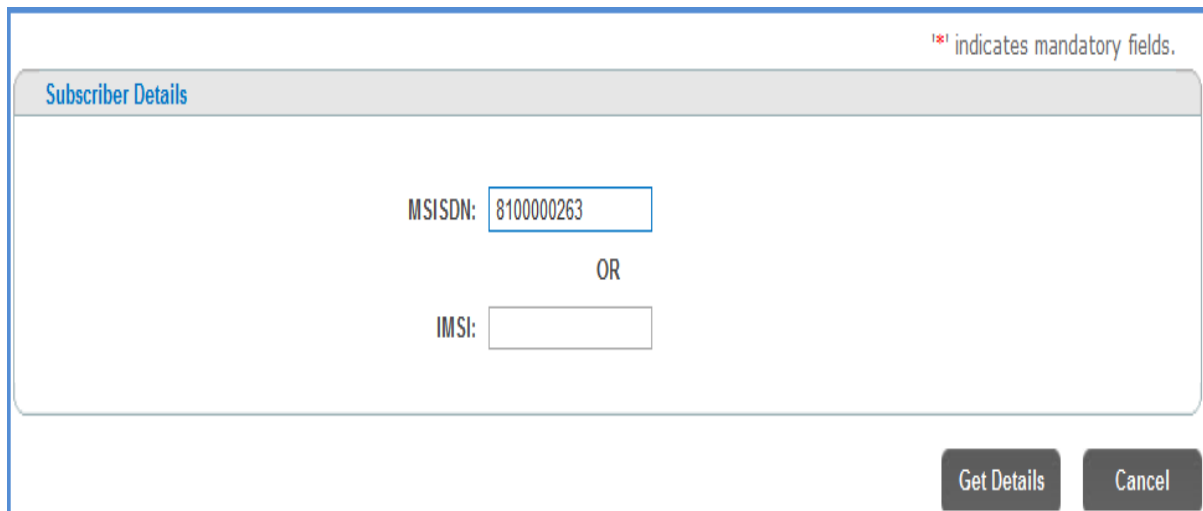
5.4 Subscriber Details

The 'Usage Report' details the usage information of the associated service.

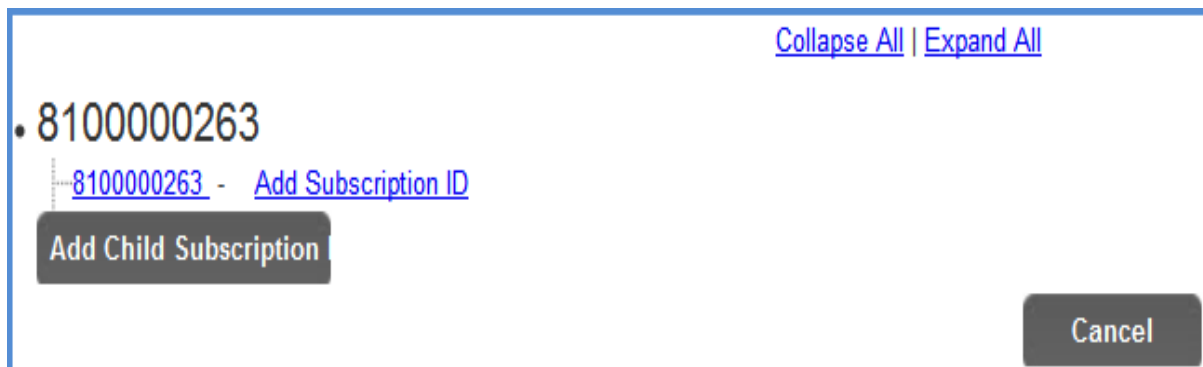
1. In the PCRF main screen, click **Subscriber Management** tab. The Subscriber management window appears as shown below. Subscriber Management consist of list of services
 - Bulk Upload
 - Policy View
 - Usage Report
 - Subscriber Details
 - Subscriber Policy Attachment

Figure 99: Subscriber Management

2. Select **Subscriber Details** from the drop-down. The **Subscriber Details** screen appears as follows.

Figure 100: Subscriber Details

3. In MSISDN / IMSI field, enter relevant MSISDN / IMSI number and click **Get Details**. The Get Details screen appears as follows

Figure 101: Get Details

- Click on MSISDN, modify subscriber policy service attachment screen appears as shown below

Figure 102: Modify Subscribers Policy

Modify Subscribers Policy Service Attachment

MSISDN: 8100000263

IMSI: 8100009990000262

* Quota Allocation: ss_wa_UQA1

* Policy Base Id: Select

* Policy Id: Select

* Service Base Id: Select

* Service Id: Select

* Priority:

Device Details

Device Type: All

IMEI:

MAC:

EUI64:

EUIMOD64:

Device Action: Select

ss_wa_FUP_BASE~ss_wa_FUP1~ss_WA_base1

Submit Cancel

- Refer to the following table for a description of the fields:

Field	Description
MSISDN	Enter MSISDN number
IMSI	Enter IMSI number
Quota Allocation	Select Quota Allocation from quota allocation list
Policy Base ID	Select Policy Base Id from policy base id list
Policy ID	Select Policy id from policy id list
Service Base ID	Select Service Base id from service base id list
Service Id	Select Service id from service id list
Priority	Enter priority in the text field

Field	Description
Device Details	
Device Type	Select Device type from the device type list
IMEI	Enter IMEI number in the text field
MAC	Enter MAC in the text field
EUI64	Enter EUI64 in the text field
EUIMOD64	Enter EUIMOD64 in the text field
Device Action	Select Device Action from the device action list



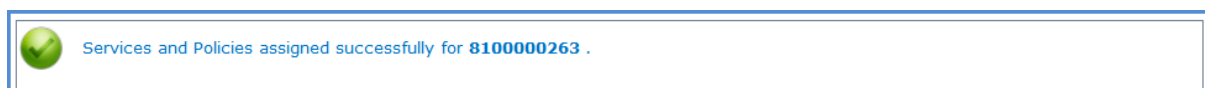
6. Click  **right arrow** to add the declarations
7. Click  **left arrow** to remove the declarations
8. Click **Submit**, the following successfull message is displayed as shown below

Figure 103: Sucessful Message



9. Click **Cancel** to get back to the subscriber management screen

5.4.1 Add Subscription id

Add Subscription id feature is used to add an of the child subscription id to the parent subscription id.

To add subscription id, do the following

1. In the PCRF main screen, click **Subscriber Management** tab. The Subscriber management window appears as shown below. Subscriber Management consist of list of services
 - Bulk Upload
 - Policy View
 - Usage Report
 - Subscriber Details
 - Subscriber Policy Attachment

Figure 104: Subscriber Management

Subscriber Management

* Subscriber Management: Select

Submit

* indicates mandatory fields.

2. Select **Subscriber Details** from the drop-down. The **Subscriber Details** screen appears as follows.

Figure 105: Subscriber Details

Subscriber Details

MSISDN:

OR

IMSI:

Get Details Cancel

* indicates mandatory fields.

3. In MSISDN / IMSI field, enter relevant MSISDN / IMSI number and click **Get Details**. The Get Details screen appears as follows

Figure 106: Get Details

[Collapse All](#) | [Expand All](#)

• 8100000263

[8100000263](#) - [Add Subscription ID](#)

Add Child Subscription

Cancel

4. Click on **Add Subscription ID**, the following screen appears as shown below

Figure 107: Add Subscription ID

Add Subscriptions

Parent Subscription ID (MSISDN):

* Child Subscription ID (MSISDN):

Submit Cancel

* indicates mandatory fields.

5. Click **Submit**, the following confirmation message displayed as shown below

Figure 108: Successful Message



6. Click **Cancel** to go back to the Subscriber management screen.

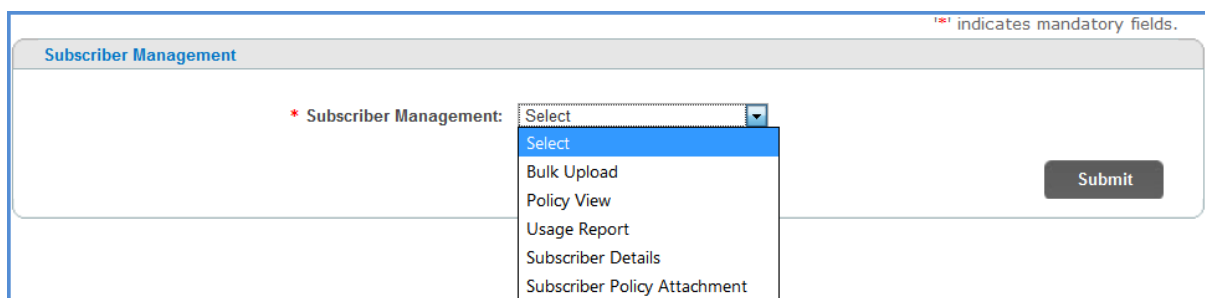
5.4.2 Add Child Subscriptions

Add Child Subscription id feature is used to add an of the child subscription id to the parent subscription id.

To Add child subscriptions, do the following:

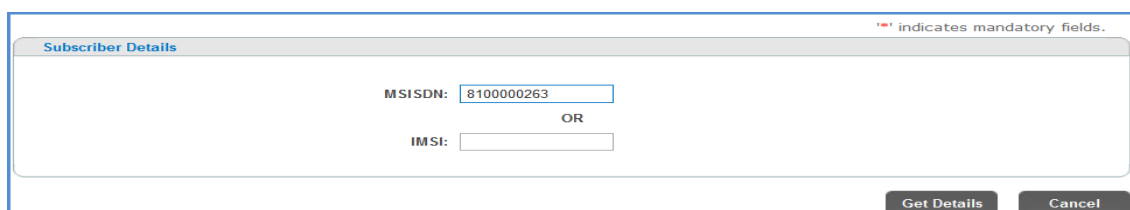
1. In the PCRF main screen, click **Subscriber Management** tab. The Subscriber management window appears as shown below. Subscriber Management consist of list of services
 - Bulk Upload
 - Policy View
 - Usage Report
 - Subscriber Details
 - Subscriber Policy Attachment

Figure 109: Subscriber Management



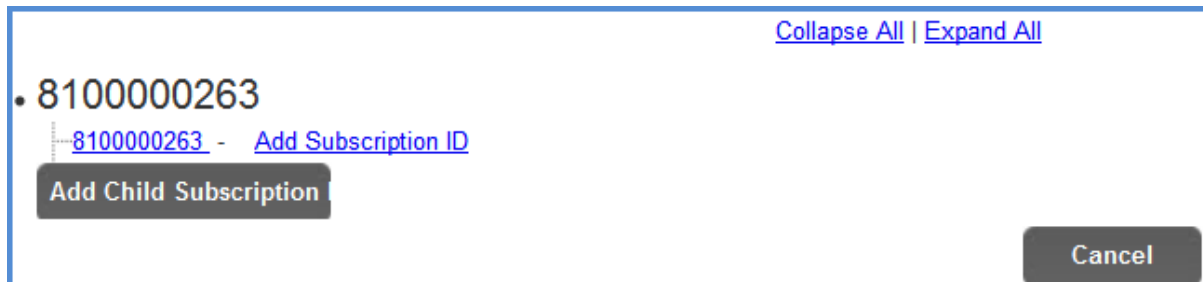
2. Select **Subscriber Details** from the drop-down. The **Subscriber Details** screen appears as follows.

Figure 110: Subscriber Details



3. In **MSISDN / IMSI** field, enter relevant MSISDN / IMSI number and click **Get Details**. The Get Details screen appears as follows

Figure 111: Get Details



[Collapse All](#) | [Expand All](#)

• 8100000263

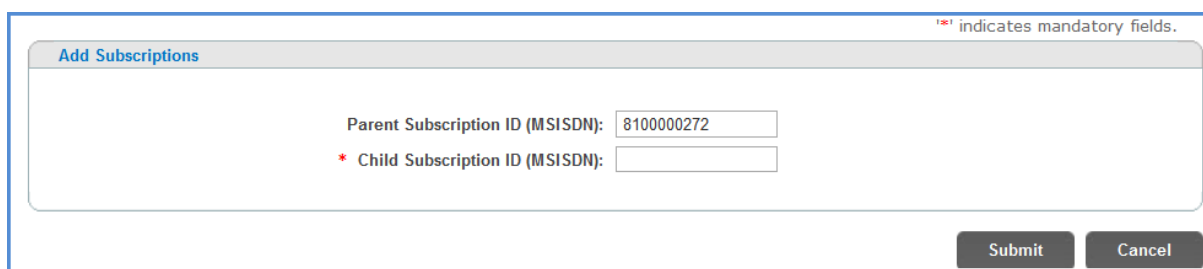
8100000263 - [Add Subscription ID](#)

Add Child Subscription

Cancel

4. Click **Add Child Subscription**, the following screen appears as shown below

Figure 112: Add Child Subscription



* indicates mandatory fields.

Add Subscriptions

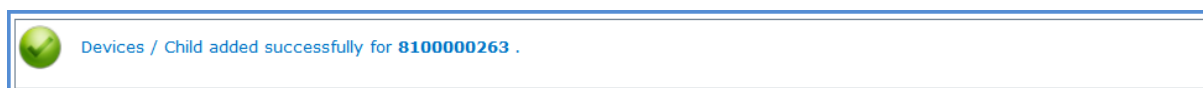
Parent Subscription ID (MSISDN): 8100000272

* Child Subscription ID (MSISDN):

Submit Cancel

5. Click **Submit**, the following confirmation message is displayed as shown below

Figure 113: Successful Message



Devices / Child added successfully for 8100000263 .

6. Click **Cancel** to go back to the Subscriber management screen.

5.5 Subscriber Policy Attachment

1. In the PCRF main screen, click **Subscriber Management** tab. The Subscriber management window appears as shown below. Subscriber Management consist of list of services
 - Bulk Upload
 - Policy View
 - Usage Report
 - Subscriber Details
 - Subscriber Policy Attachment

Figure 114: Subscriber Management

Subscriber Management

* Subscriber Management: Select

Submit

* indicates mandatory fields.

2. Select **Subscriber Policy Attachment** from the drop-down list. The **Subscriber Policy Attachment** screen appears as follows

Figure 115: Subscriber Policy Attachment

Subscriber Management

* Subscriber Management: Subscriber Policy Attachment

Submit

* indicates mandatory fields.

3. Click **Submit**, The **Create Subscriber Policy Service Attachment** screen appears as follows

Figure 116: Create Subscriber Policy

Create Subscribers Policy Service Attachment

* MSISDN:

* IMSI:

* Quota Allocation: Select

* Policy Base Id: Select

* Policy Id: Select

* Service Base Id: Select

* Service Id: Select

* Priority:

Device Details

Device Type: All

IMEI:

MAC:

EUIM64:

EUIMOD64:

Device Action: Select

Submit Cancel

* indicates mandatory fields.

4. Refer to the following table for a description of the fields:

Field	Description
MSISDN	Enter MSISDN number
IMSI	Enter IMSI number
Quota Allocation	Select Quota Allocation from quota allocation list
Policy Base ID	Select Policy Base Id from policy base id list
Policy ID	Select Policy id from policy id list
Service Base ID	Select Service Base id from service base id list
Service Id	Select Service id from service id list
Priority	Enter priority in the text field
Device Details	
Device Type	Select Device type from the device type list
IMEI	Enter IMEI number in the text field
MAC	Enter MAC in the text field
EUI64	Enter EUI64 in the text field
EUIMOD64	Enter EUIMOD64 in the text field
Device Action	Select Device Action from the device action list

5. Upon filling the above fields, Click **Submit** to create subscriber policy attachment. The successful message appears as shown below

Figure 117: Successful Message



6. Click **Cancel** to go back to subscriber management screen.

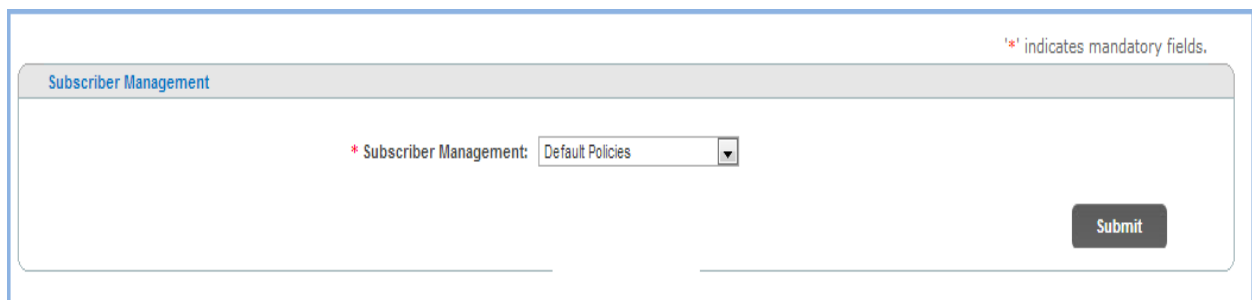
5.6 Default Policies

5.6.1 Assign Default Policies

To Assign Default Policies:

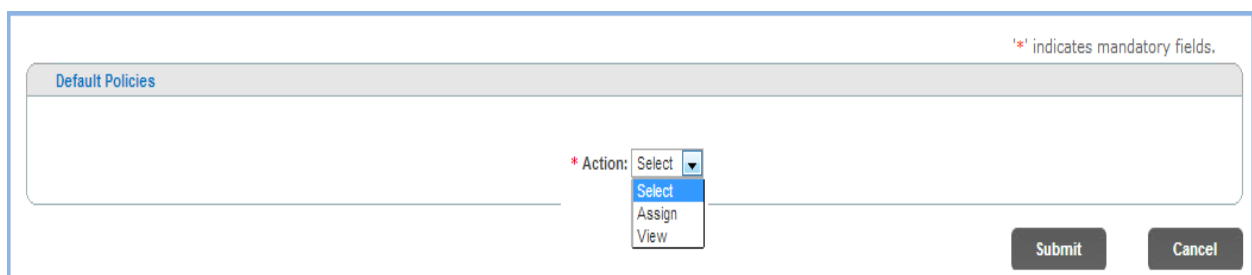
1. In the PCRF main screen, click **Subscriber Management** tab. The Subscriber management window appears as shown below. Subscriber Management consist of list of services
 - Bulk Upload
 - Policy View
 - Usage Report
 - Subscriber Details
 - Subscriber Policy Attachment

Figure 118: Subscriber Management

A screenshot of the "Subscriber Management" form. At the top right, a note says "'*' indicates mandatory fields." The form has a title bar "Subscriber Management". Below it, there is a label "* Subscriber Management:" followed by a dropdown menu currently showing "Default Policies". A "Submit" button is located at the bottom right of the form area.

2. Select **Default Policies** from the drop-down list, to associate services and policies to a number. The **Default Policies** screen appears as follows.

Figure 119: Default Policies


A screenshot of the "Default Policies" form. At the top right, a note says "'*' indicates mandatory fields." The form has a title bar "Default Policies". Below it, there is a label "* Action:" followed by a dropdown menu with options "Select", "Assign", and "View". The "Select" option is currently highlighted. At the bottom right, there are "Submit" and "Cancel" buttons.

- Click **Assign** from the Action drop-down list, the list of options gets enabled in the below screen

Figure 120: Assign

- Refer to the following table for a description of the fields:

Field	Description
Action	Select Assign/ View from the drop-down list
Quota Allocation	Select Quota Allocation from the drop-down list
Default Policy Base ID	Select the default policy base identification from the drop-down
Default Policy ID	Select default policy identification from the drop-down list
Default Service Base ID	Select default service base identification from the drop-down list
Default Service ID	Select default service identification from the drop-down list
Default Priority	Specify the default priority

- Click the  **right arrow** to add the combination of declarations

- Click  **left arrow** to remove the declarations

- Click **Submit** to assign default policies successfully, the successful message would display as "Policies assigned successfully".

Figure 121: Successful Message

Quota Allocation	Default Policy Base Id	Default Policy Id	Default Service Base Id	Default Service Id	Default Priority	Delete
202102UAT4_QUOTA_ALLOCATION	FAIR_USAGE_POLICY_BASE	PCRF_USAGE_POLICY	SB_ATP_256	SD_ATP_256	1	

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5.6.2 View Default Policies

- In the PCRF main screen, click **Subscriber Management** tab. The Subscriber management window appears as shown below. Subscriber Management consist of list of services
 - Bulk Upload
 - Policy View
 - Usage Report
 - Subscriber Details
 - Subscriber Policy Attachment

Figure 122: Subscriber Management

* indicates mandatory fields.

* Subscriber Management: Default Policies

Submit

- Select **Default Policies** from the drop-down list, to associate services and policies to a number. The **Default Policies** screen appears as follows.

Figure 123: Default Policies


* indicates mandatory fields.

* Action: Select

Submit **Cancel**

3. Click **View** from the Action drop-down list and hit submit , the below screen gets displayed

Figure 124: View

Quota Allocation	Default Policy Base Id	Default Policy Id	Default Service Base Id	Default Service Id	Default Priority	Delete
USR_QUOTA_BAL1000	ss_fb_FUP_BASE		SVC_BASE_NAME_6	sd6	66	

Back

4. Click **Back** for Subscriber Management screen

6 Data Management

In 'Data Management', the data such as Charging Rule Definition, QOS Information, QOS Set, Service Data Flow Base Information, Quota, User Quota Allocation, Device Equipment Info, Time of Day and Rating Group pertinent to a policy and a services configured based on the selected services.

6.1 Configuring data

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management tab** displays the available list of policies.
3. Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 125: Data Management

The screenshot shows the 'Data Management' screen. At the top right, a note states: '* indicates mandatory fields.' Below the header, there is a label '* Data Management:' followed by a dropdown menu. The dropdown menu is open, displaying the following options: 'Select', 'Charging Rule Definition', 'QOS Information', 'QOS Set', 'Service Data Flow Definition', 'Service Data Flow Base Information', 'Quota', 'User Quota Allocation', 'Device Equipment Info', 'Time Of Day', and 'Rating Group'. The 'Select' option is currently highlighted in blue.

4. In the **Data Management** list, select **Charging Rule Definition**. The following screen appears.

Figure 126: Data Management

The screenshot shows the 'Data Management' screen after selecting 'Charging Rule Definition'. The dropdown menu now displays 'Charging Rule Definition'. At the bottom right of the screen, there are two buttons: 'Create' and 'View'.

- Click **Create**, the below screen is displayed

Figure 127: Create

Create Charging Rule

* indicates mandatory fields.

* Charging Rule Id:

* Flow Status:

* Reporting Level:

* OnLine:

* OffLine:


* Metering Method:

* Monitoring Key:

Submit **Cancel**

- Specify the rules for charging the service and click **Submit**. The following success message appears.

Figure 128: Successful Message

 Charging Rule test created successfully.

Charging Rule Id	Flow Status	Reporting Level	OnLine	OffLine	Metering Method	Monitoring Key	Modify/Delete
1235	3	2	0	0	1	5	
6745	2	2	1	1	1	7	
84845247	2	2	1	0	3	11213131	
CRI_01	2	2	1	1	2	Ghana_test_01	
CRI_Gen	2	2	1	1	3	MKFU	
CRI__1	2	1	1	0	2	MAXCOM	
CRU1-RG1	2	1	1	0	3	1	
CRU1-RG2	2	1	1	0	3	2	
CRU3-RG3	2	1	1	0	3	3	
CRU3-RG4	2	1	1	0	3	4	

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6.1.1 Charging Rule Definition

Using 'Charging Rule Definition' it is possible to inform the Data information to OCS.

6.1.1.1 Create Charging Rule Definition

To Create Charging Rule Definition:

- After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
- In the PCRF main screen, by default the **Policy Management tab** displays the available list of policies.

- Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 129: Data Management

The screenshot shows the 'Data Management' screen. At the top right, a note states: '* indicates mandatory fields.' Below this, the 'Data Management' tab is selected. A dropdown menu is open for the '* Data Management:' field, showing the following options: Select, Charging Rule Definition, QOS Information, QOS Set, Service Data Flow Definition, Service Data Flow Base Information, Quota, User Quota Allocation, Device Equipment Info, Time Of Day, and Rating Group.

- In the **Data Management** list, select **Charging Rule Definition**. The following screen appears.

Figure 130: Data Management

The screenshot shows the 'Data Management' screen with 'Charging Rule Definition' selected in the dropdown menu. At the bottom right, there are two buttons: 'Create' and 'View'.

- Click **Create**, the below screen is displayed

Figure 131: Create

The screenshot shows the 'Create Charging Rule' screen. At the top right, a note states: '* indicates mandatory fields.' The form contains the following fields: '* Charging Rule Id:' (text input), '* Flow Status:' (dropdown menu), '* Reporting Level:' (dropdown menu), '* OnLine:' (dropdown menu), '* OffLine:' (dropdown menu), '* Metering Method:' (dropdown menu), and '* Monitoring Key:' (text input). At the bottom right, there are two buttons: 'Submit' and 'Cancel'.

- In **Charging Rule ID** field, specify a name to the charging rule.
- From the **Flow Status** drop-down list, select flow status as **Enabled/Disabled**
- From the **Reporting Level** drop-down list, select a reporting level

Figure 132: Reporting Level

* Reporting Level: Select

- Select
- RATING_GROUP_LEVEL
- SERVICE_ID_LEVEL
- SPONSER_ID

- **RATING_GROUP_LEVEL:** This value shall be used to indicate that the usage shall be reported on rating group level, and is applicable when the rating-group has been provisioned within the Charging-Rule-Definition AVP.
 - **SPONSORED_CONNECTIVITY:** This value shall be used to indicate that the usage shall be reported on sponsor identity and rating group combination level, and is applicable when the Sponsor-Identity AVP, Application-Service-Provider-Identity AVP and Rating-Group AVP have been provisioned within the Charging-Rule-Definition AVP applicable for offline charging.
 - **SERVICE_IDENTIFIER_LEVEL:** This value shall be used to indicate that the usage shall be reported on service id and rating group combination level, and is applicable when the Service-Identifier and Rating-Group have been provisioned within the charging-Rule-Definition AVP.
9. Select **ENABLE _ONLINE**, from the **OnLine** drop-down list, to enable the policy, to report the OCS in online mode.
 10. Select **ENABLE_OFFLINE**, from the **OffLine** drop-down list, to enable the policy, to report the OCS in offline mode.
 11. From the **Metering Method** drop-down list, select a metering method for data such as **Both/Duartion/Volume**.

Figure 133: Metering Method

* Metering Method: Select

- Select
- BOTH
- DURATION
- VOLUME

- **Duration:** Metering data in terms of time
- **Volume:** Metering data in terms of kilobites/megabites etc.
- **Both:** Metering data in both ways,(Duration and Volume)

12. In the **Monitoring Key** field, specify a key to monitor the data.
13. Specify the rules for charging the service and click **Submit**.

Figure 134: Successful Message

Charging Rule Id	Flow Status	Reporting Level	OnLine	OffLine	Metering Method	Monitoring Key	Modify/Delete
XiusTest	2	2	1	1	3	12345	
megasoftcharge	1	2	1	1	1	MKV	

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14. Click **Back** for Data Management Screen.

6.1.1.2 View Charging Rule Definition

To View Charging Rule Definition:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management** tab displays the available list of policies.
3. Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 135: Data Management

*** indicates mandatory fields.

Data Management

* Data Management:

- Select
- Charging Rule Definition
- QOS Information
- QOS Set
- Service Data Flow Definition
- Service Data Flow Base Information
- Quota
- User Quota Allocation
- Device Equipment Info
- Time Of Day
- Rating Group

4. In the **Data Management** list, select **Charging Rule Definition**. The following screen appears.

Figure 136: Data Management

*** indicates mandatory fields.





















Data Management

* Data Management:

Create View

- Click **View**, the below screen is displayed

Figure 137: View

Charging Rule Id	Flow Status	Reporting Level	OnLine	OffLine	Metering Method	Monitoring Key	Modify/Delete
1235	3	2	0	0	1	5	 
6745	2	2	1	1	1	7	 
84845247	2	2	1	0	3	11213131	 
CRI_01	2	2	1	1	2	Ghana_test_01	 
CRI_Gen	2	2	1	1	3	MKFU	 
CRI_1	2	1	1	0	2	MAXCOM	 
CRU1-RG1	2	1	1	0	3	1	 
CRU1-RG2	2	1	1	0	3	2	 
CRU3-RG3	2	1	1	0	3	3	 
CRU3-RG4	2	1	1	0	3	4	 

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- Click **Modify** to view the modify screen as shown below

Figure 138: Modify

'*' indicates mandatory fields.

Modify Charging Rule

Charging Rule Id: 1235
* Flow Status: DISABLE
* Reporting Level: RATING_GROUP_LEVEL
* OnLine: DISABLE_ONLINE
* OffLine: DISABLE_OFFLINE
* Metering Method: DURATION
* Monitoring Key: 5

Submit **Cancel**

- Upon performing ammendments click Submit to save the changes.
- Click **Cancel** for the view screen
- Click Delete** to delete the Charging Rule Definition sucessfully.

6.1.2 QOS Information

Using 'QOS Information' it is possible to configure the browsing data information such as uplink, downlink, and speed settings. This configured QOS information used during the creation of QOS set.

6.1.2.1 Create QOS Information

To Create QOS Information:

- After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
- In the PCRF main screen, by default the **Policy Management tab** displays the available list of policies.

- Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 139: Data Management

The screenshot shows the 'Data Management' tab selected. A dropdown menu is open for the '* Data Management:' field. The menu options are: Select, Charging Rule Definition, QOS Information, QOS Set, Service Data Flow Definition, Service Data Flow Base Information, Quota, User Quota Allocation, Device Equipment Info, Time Of Day, and Rating Group. A note in the top right corner states: '* indicates mandatory fields.'

- In the **Data Management** list, select **QOS information**. The following screen appears.

Figure 140: QOS Information

The screenshot shows the 'Data Management' tab with the dropdown menu set to 'QOS Information'. Below the dropdown are two buttons: 'Create' and 'View'. A note in the top right corner states: '* indicates mandatory fields.'

- Select **QOS Information** from the Data Management drop-down list and click **Create**. The following screen appears.

Figure 141: Create

The screenshot shows the 'Create Qos Information' form. Fields include: '* Qos Id:' (text input with 'XIUS Qos1'), '* Qos Class Id:' (dropdown with 'QCL_1'), 'Guaranteed Bitrate UL:' (text input with '1'), 'Guaranteed Bitrate DL:' (text input with '2'), 'Requested Bandwidth UL:' (text input with '4'), 'Requested Bandwidth DL:' (text input with '4'), 'APN aggregated Max Bit Rate UL:' (text input with '5'), 'APN aggregated Max Bit Rate DL:' (text input with '5'), 'Allocation Retention Priority Level:' (text input with '5' and '(1-High to 15-Low)'), 'Pre Emption Capability:' (dropdown with 'ENABLED'), and 'Pre Emption Vulnerability:' (dropdown with 'ENABLED'). At the bottom right are 'Submit' and 'Cancel' buttons.

- In **QOS ID** field, specify a **name** to the new QOS Information.
- From the **QOS Class ID** drop-down list, select a QOS class ID.

- Specify the rules for charging the **service** and click **Submit**. The following success message appears.

Figure 142: Successful Message

Qos Information 13122 Created successfully.

Qos Id	Qos Class Id	Guaranteed Bitrate UL (Bits/Sec)	Guaranteed Bitrate DL (Bits/Sec)	Requested Bandwidth UL (Bits/Sec)	Requested Bandwidth DL (Bits/Sec)	API aggregated Max Bit Rate UL (Bits/Sec)	API aggregated Max Bit Rate DL (Bits/Sec)	Allocation Retention Priority Level	Pre Emption Capability	Pre Emption Vulnerability	Modify/Delete
20204ATP01_QOS_128kbp_s	QCL_9	131072	131072	131072	131072	131072	131072	1	0	0	
20204ATP01_QOS_256kbp_s	QCL_9	262144	262144	262144	262144	262144	262144	3	0	0	
20204ATP01_QOS_512kbp_s	QCL_9	524288	524288	524288	524288	524288	524288	5	0	0	
20204ATP01_QOS_1025kbp_s	QCL_9	1025000	1025000	1025000	1025000	1025000	1025000	7	0	0	
20204ATP01_QOS_2050kbp_s	QCL_9	2050000	2050000	2050000	2050000	2050000	2050000	9	0	0	
20204ATP01_QOS_4100kbp_s	QCL_9	4100000	4100000	4100000	4100000	4100000	4100000	11	0	0	
20204ATP01_QOS_8200kbp_s	QCL_9	8200000	8200000	8200000	8200000	8200000	8200000	13	0	0	

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- Click **Back** for the data management screen

6.1.2.2 View QOS Information

To View QOS Information:

- After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
- In the PCRF main screen, by default the **Policy Management** tab displays the available list of policies.
- Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 143: Data Management

Data Management

* Data Management: Select

- Select
- Charging Rule Definition
- QOS Information
- QOS Set
- Service Data Flow Definition
- Service Data Flow Base Information
- Quota
- User Quota Allocation
- Device Equipment Info
- Time Of Day
- Rating Group

- In the **Data Management** list, select **QOS information**. The following screen appears.

Figure 144: QOS Information

Data Management

* Data Management: QOS Information

Create View

5. Select **QOS Information** from the Data Management drop-down list and click **View**. The following screen appears.

Figure 145: View Screen

Qos Id	Qos Class Id	Guaranteed Bitrate UL (Bits/Sec)	Guaranteed Bitrate DL (Bits/Sec)	Requested Bandwidth UL (Bits/Sec)	Requested Bandwidth DL (Bits/Sec)	APN aggregated Max Bit Rate UL (Bits/Sec)	APN aggregated Max Bit Rate DL (Bits/Sec)	Allocation Retention Priority Level	Pre Emption Capability	Pre Emption Vulnerability	Modify/Delete
20204ATP01_QOS_128Kbps	QCL_9	131072	131072	131072	131072	131072	131072	1	0	0	
20204ATP01_QOS_256Kbps	QCL_9	262144	262144	262144	262144	262144	262144	3	0	0	
20204ATP01_QOS_256Kbps	QCL_9	1025000	25165825	1025000	25165825	1025000	25165825	1	0	0	
20204ATP01_QOS_3G	QCL_9	1025000	25165825	1025000	25165825	1025000	25165825	1	0	0	
20204ATP01_QOS_3G_100Mbps	QCL_9	1025000	25165825	1025000	25165825	1025000	25165825	1	0	0	
20204ATP01_QOS_3G	QCL_9	8000000	16000000	8000000	16000000	8000000	16000000	1	0	0	

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6. Click **Modify** to view the modify screen as shown below

Figure 146: Modify

'*' indicates mandatory fields.

Modify Qos Information

Qos Id:

* Qos Class Id:

Guaranteed Bitrate UL: Bits/Sec

Guaranteed Bitrate DL: Bits/Sec

Requested Bandwidth UL: Bits/Sec

Requested Bandwidth DL: Bits/Sec

APN aggregated Max Bit Rate UL: Bits/Sec

APN aggregated Max Bit Rate DL: Bits/Sec

Allocation Retention Priority Level: (1-High to 15-Low)

Pre Emption Capability:

Pre Emption Vulnerability:

Submit Cancel

7. Upon performing ammendments click **Submit** to save the changes.
8. Click **Cancel** for the view screen
9. Click **Delete** to delete the **QOS Information** sucessfully.

6.1.3 QOS Set

Using 'QOS Set' it is possible to set the accessibility to the browsing.

6.1.3.1 Create QOS Set

To Create QOS Set:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management tab** displays the available list of tabs

- Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 147: Data Management

The screenshot shows the 'Data Management' interface. At the top, there's a header 'Data Management' and a note: '* indicates mandatory fields.' Below this, there's a form with a label '* Data Management:' followed by a dropdown menu. The dropdown menu is open, displaying a list of options: 'Select', 'Charging Rule Definition', 'QOS Information', 'QOS Set', 'Service Data Flow Definition', 'Service Data Flow Base Information', 'Quota', 'User Quota Allocation', 'Device Equipment Info', 'Time Of Day', and 'Rating Group'.

- Select **QOS Set** from the **Data Management** drop-down list. The following screen appears.

Figure 148: QOS Set

The screenshot shows the 'QOS Set' interface. The header is 'Data Management' with the note '* indicates mandatory fields.' The form has a label '* Data Management:' followed by a dropdown menu set to 'QOS Set'. At the bottom right, there are two buttons: 'Create' and 'View'.

- Click **Create**, the following screen appears

Figure 149: Create

The screenshot shows the 'Create QOS Set' interface. The header is 'Create QOS Set' with the note '* indicates mandatory fields.' The form contains several fields: '* QOS Set Name:' (text input with 'XIUS SET'), '* QOS Identifier:' (dropdown with 'XIUS Qos1'), '* RAT Type:' (dropdown with 'GAN'), and '* IP Can Type:' (dropdown with '3GPP-GPRS'). To the right of these fields is a large text area containing 'XIUS Qos1~GAN~3GPP-GPRS'. At the bottom right, there are two buttons: 'Submit' and 'Cancel'.

- In **QOS Set Name**, specify a name to new QOS Set.
- From the **QOS Identification** drop-down list, select a QOS identifier.

Note: To know more about QOS identification, refer [QOS Information](#).

- Select a **RAT Type** from the drop-down list to new QOS set

Figure 150: RAT Type

* RAT Type:

- Select
- CDMA2000_1X
- EHRPD
- EUTRAN
- GAN
- GERAN
- HRPD
- HSPA_EVOLUTION
- UMB
- UTRAN
- VIRTUAL
- WLAN

9. Select an **IP Can Type** from the drop-down list to new QOS set.

Figure 151: IP Can type

* IP Can Type:

- Select
- 3GPP-EPS
- 3GPP-GPRS
- 3GPP2
- DOCSIS
- Non-3GPP-EPS
- WiMAX
- xDSL





















10. Click  to map the chosen information to new QOS set.
11. Click **Submit**. The following success message appears.

Figure 152: Successful Message

 QOS Set test created Successfully

QOS Set Name	Modify/Delete
GOV	 
M_QOS_SET	 
M_QOS_SET2	 
QOS_SET	 
Qos_set_PCC1	 
R_qos_set1	 
s_qos_set_1	 
ss_wa_qos_set1	 
test	 

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12. Click **Cancel** for Data Management screen.

6.1.3.2 View QOS Set

To View QOS Set:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management** tab displays the available list of policies.
3. Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 153: Data Management

The screenshot shows the 'Data Management' screen. At the top right, a note says '* indicates mandatory fields.' Below the title bar, there is a label '* Data Management:' followed by a dropdown menu. The dropdown menu is open, showing the following options: Select, Charging Rule Definition, QOS Information, QOS Set, Service Data Flow Definition, Service Data Flow Base Information, Quota, User Quota Allocation, Device Equipment Info, Time Of Day, and Rating Group.

4. In the **Data Management** list, select **QOS information**. The following screen appears.

Figure 154: QOS Set

The screenshot shows the 'QOS Set' screen. At the top right, a note says '* indicates mandatory fields.' Below the title bar, there is a label '* Data Management:' followed by a dropdown menu set to 'QOS Set'. At the bottom right, there are two buttons: 'Create' and 'View'.

5. Select **QOS Set** from the Data Management drop-down list and click **View**. The following screen appears.

Figure 155: View Screen

QOS Set Name	Modify/Delete
M_QOS_SET	
M_QOS_SET2	
Max_QOS_SET	
QOS_SET	
Qos_set_PCC1	
R_qos_set1	
s_qos_set_1	
ss_wa_qos_set1	

At the bottom right, there is a 'Back' button.

6. Click **Modify** to view the modify screen as shown below

Figure 156: Modify

7. Upon performing ammendments click **Submit** to save the changes.
8. Click **Cancel** for the view screen
9. Click **Delete** to delete the **QOS Set** sucessfully.

6.1.4 Service Data Flow Definition

Using 'Service Data Flow Definition' it is possible set accessibility to the particular browsing data.

6.1.4.1 Create Service Data Flow Definition

To Create Service Data Flow Definition

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management** tab displays the available list of tabs
3. Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 157: Data Management

4. Select **Service Data Flow Definition** from the **Data Management** drop-down list. The following screen appears

Figure 158: Service Data Flow Definition

5. Click **Create**. The following screen appears.

Figure 159: Create

Create Service Data Flow Definition

* Service Data Flow Id: JS Service Data Flow

* Action: Permit

* Direction: In

Protocol:

Source Address: asdjds

Destination Address: asdgshj

Source Port: 10.22.71.9

Destination Port: 10.22.65.8

Submit Cancel

6. In the **Service Data Flow ID**, specify a name to the new service data flow.
7. From the **Action** drop-down list, select action as **Permit/Deny**.
8. From the **Direction** drop-down list, select direction as **In/Out**.
9. Specify **protocol,source address, destination addresses,source port,destination port** numbers in the respective fields.
10. Click **Submit**. The following success message appears.

Figure 160: Successful Message

Service Data Flow Definition XIUS Service Data Flow created successfully.

Service Data Flow Id	Action	Direction	Protocol	Source Address	Destination Address	Source Port	Destination Port	Modify/Delete
12345	Permit	In	any	any	any	any	any	
76	Permit	Out	any	any	any	any	any	
GOV	Permit	In	any	any	any	any	any	
R_sdf_in	Permit	In	any	any	any	any	any	
R_sdf_out	Permit	Out	any	any	any	any	any	
SDF_Gen	Permit	In	any	any	any	any	any	
SVC_DATA_FLOW	Permit	In	any	any	any	any	any	

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11. Click **Back** for the Data Management screen

6.1.4.2 View Service Data Flow Definition

To View Service Data Flow Definition:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management** tab displays the available list of tabs
3. Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 161: Data Management

The screenshot shows the 'Data Management' screen. At the top right, a note states: '* indicates mandatory fields.' Below the title bar, there is a label '* Data Management:' followed by a dropdown menu. The dropdown menu is open, showing the following options: Select, Charging Rule Definition, QOS Information, QOS Set, Service Data Flow Definition, Service Data Flow Base Information, Quota, User Quota Allocation, Device Equipment Info, Time Of Day, and Rating Group.

4. Select **Service Data Flow Definition** from the **Data Management** drop-down list. The following screen appears

Figure 162: Service Data Flow Definition

The screenshot shows the 'Service Data Flow Definition' screen. At the top right, a note states: '* indicates mandatory fields.' Below the title bar, there is a label '* Data Management:' followed by a dropdown menu set to 'Service Data Flow Definition'. At the bottom right, there are two buttons: 'Create' and 'View'.

5. Click **View**, the following screen appears.

Figure 163: View

Service Data Flow Id	Action	Direction	Protocol	Source Address	Destination Address	Source Port	Destination Port	Modify/Delete
12345	Permit	In	any	any	any	any	any	
76	Permit	Out	any	any	any	any	any	
GOV	Permit	In	any	any	any	any	any	
R_sdf_in	Permit	In	any	any	any	any	any	
R_sdf_out	Permit	Out	any	any	any	any	any	
SDF_Gen	Permit	In	any	any	any	any	any	
SVC_DATA_FLOW	Permit	In	any	any	any	any	any	

6. Click **Modify** to view the modify screen as shown below

Figure 164: Modify

* indicates mandatory fields.

Modify Service Data Flow Definition

Service Data Flow Id: 12345

* Action: Permit

* Direction: In

Protocol: any

Source Address: any

Destination Address: any

Source Port: any

Destination Port: any

Submit Cancel

7. Upon performing ammendments click **Submit** to save the changes.
8. Click **Cancel** for the view screen
9. Click **Delete** to delete the **Service Data Flow Definition** sucessfully.

6.1.5 Service Data Flow Base Information

Using 'Service Data Flow Base Information' it is possible to assign the configured service data flow to the new policy.

6.1.5.1 Create Service Data Flow Base Information

To Create Service Data Flow Base Information:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management tab** displays the available list of tabs
3. Click the **Data Management** tab. The Data Management screen appears as follows

Figure 165: Data Management

* indicates mandatory fields.

Data Management

* Data Management: Select

- Select
- Charging Rule Definition
- QOS Information
- QOS Set
- Service Data Flow Definition
- Service Data Flow Base Information
- Quota
- User Quota Allocation
- Device Equipment Info
- Time Of Day
- Rating Group

4. Select **Service Data Flow Base Information** from the **Data Management** drop-down list and click **Create**. The following screen appears.

Figure 166: Create

Create Service Data Flow Base Information

* Service Data Flow Base Id: XIUS DATA FLOW

* Service Data Flow Id:

- ☐ Voice
- ☒ XIUS S Data
- ☐ XiusServicedataflowid
- ☒ flow02
- ☒ ki8

Submit Cancel

5. In **Service Data Flow Base ID**, specify a **name** to the new service data flow base.
6. Select a **Service Data Flow** from the existing list of service data flow drop-down list.

Note: for more information on service data flow, refer [Service Data Flow Definition](#)

7. Click **Submit**, the following success message appears.

Figure 167: Successful Message

Service Data Flow Base Information XIUS DATA FLOW created successfully.

Service Data Flow Base Id	Modify/Delete
FebGovBASE	
HA_SDF_SET	
Megasoftdatabaseid	
PK_SBID	
Servicdataflowvoda	
XIUS DATA FLOW	
XiusBaseName	

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6.1.5.2 View Service Data Flow Base Information

To View Service Data Flow Base Information

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management tab** displays the available list of tabs

- Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 168: Data Management

* Data Management: Select

- Select
- Charging Rule Definition
- QOS Information
- QOS Set
- Service Data Flow Definition
- Service Data Flow Base Information
- Quota
- User Quota Allocation
- Device Equipment Info
- Time Of Day
- Rating Group

* indicates mandatory fields.

- Select **Service Data Flow Base Information** from the **Data Management** drop-down list and click **View**. The following screen appears.

Figure 169: View

Service Data Flow Base Id	Modify/Delete
568	
GOV	
R_sdf_base_1	
SDF_Base_id_Gen	
SVC_DATA_BASE	
s_sdf_base_1	
ss_fb_SDF_Base1	
ss_wa_SDF_Base1	

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- Click **Modify** to view the modify screen as shown below

Figure 170: Modify

Modify Service Data Flow Base Information

Service Data Flow Base Id: 568

* Service Data Flow Id:

- ☐ SVC_DATA_FLOW
- ☒ 76
- ☐ ss_wa_sdf1
- ☐ ss_wa_sdf2
- ☐ ss_fb_sdf1

Submit Cancel

* indicates mandatory fields.

- Upon performing amendments click **Submit** to save the changes.

12. Click **Cancel** for the view screen
13. Click **Delete** to delete the **Service Data Flow Base Information** successfully.

6.1.6 Quota

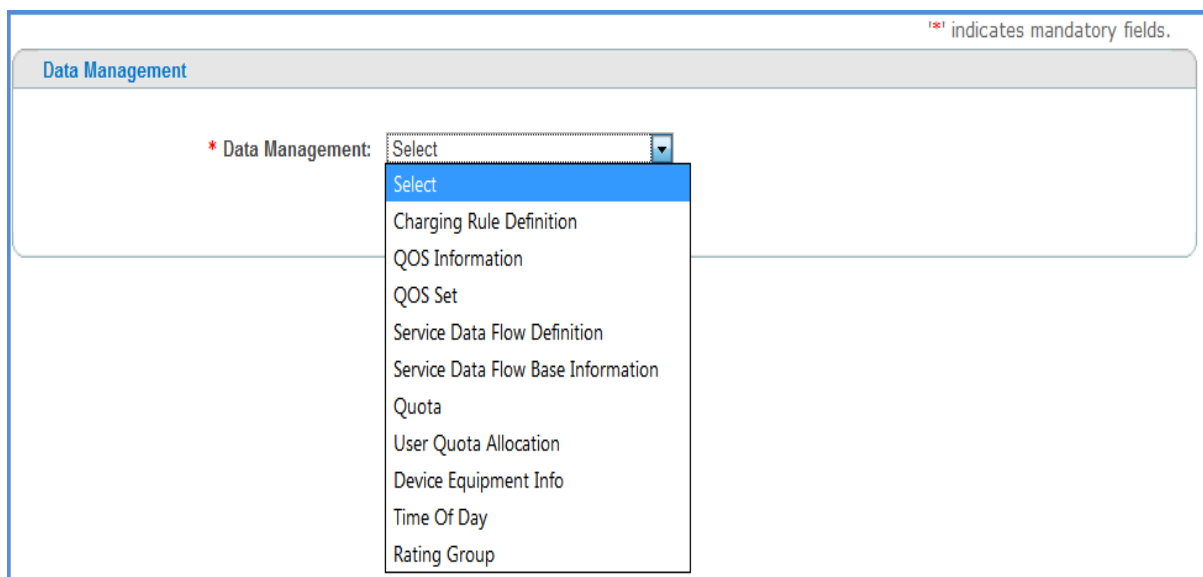
Using 'Quota' it is possible to set limitations to the used data.

6.1.6.1 Create Quota

To Create Quota

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management tab** displays the available list of tabs
3. Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 171: Data Management



The screenshot shows the 'Data Management' screen. At the top right, a note states: '* indicates mandatory fields.' Below the title bar, there is a label '* Data Management:' followed by a dropdown menu. The dropdown menu is open, displaying a list of options: 'Select', 'Charging Rule Definition', 'QOS Information', 'QOS Set', 'Service Data Flow Definition', 'Service Data Flow Base Information', 'Quota', 'User Quota Allocation', 'Device Equipment Info', 'Time Of Day', and 'Rating Group'. The 'Quota' option is highlighted in blue.

4. Select **Quota** from the **Data Management** drop-down list and click **Create**. The following screen appears.

Figure 172: Quota



The screenshot shows the 'Quota' screen. At the top right, a note states: '* indicates mandatory fields.' Below the title bar, there is a label '* Data Management:' followed by a dropdown menu. The dropdown menu is closed, and the text 'Quota' is visible in the dropdown box. At the bottom right of the screen, there are two buttons: 'Create' and 'View'.

5. Select Quota from the **Data Management** drop-down list and click **Create**. The following screen appears.

Figure 173: Create

6. In **Quota Name** field, specify a name to the quota.
7. In **Total Quota (KB)** field, enter amount of quota in kilo bites.
8. Select a **Chargeable Flag** such as **Charge/ Free** from chargeable flag drop-down list.
 - **Charge**: The configured amount of data charged.
 - **Free**: Charges are not applicable on the configured amount of data.
9. In **Validity Days** field, specify the quota validity, in days.
10. In **Pulse Unit** field, specify pulse unit in kilo bites.
11. Click **Submit**. The following success message appears.

Figure 174: Successful Message

Quota Name	Total Quota (KB)	Chargable Flag	Validity Days	Pulse Unit (KB)	Modify/Delete
FebGov	1000	Charge	90	10	
Govtest	3	Charge	1	1	
HA_Quota_LOAD	9000	Charge	90	0	
MegasoftQuota	2000	Charge	1	10	
PKQuota	555555	Charge	30	0	
TEST 123	256	Charge	0	0	
XIUS Quota	1000	Charge	30	10	
newQuota	96	Charge	95	94	
newquota	555	Charge	0	0	

6.1.6.2 View Quota

To View Quota

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management tab** displays the available list of tabs

3. Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 175: Data Management

* Data Management: Select

- Select
- Charging Rule Definition
- QOS Information
- QOS Set
- Service Data Flow Definition
- Service Data Flow Base Information
- Quota
- User Quota Allocation
- Device Equipment Info
- Time Of Day
- Rating Group

Red asterisk indicates mandatory fields.

4. Select **Quota** from the **Data Management** drop-down list. The following screen appears.

Figure 176: Quota

* Data Management: Quota

Create View

Red asterisk indicates mandatory fields.

5. Click **View** the following screen appears as shown below

Figure 177: View

Quota Name	Total Quota (KB)	Chargable Flag	Validity Days	Pulse Unit (KB)	Modify/Delete
BAL1000	2048	Charge	30	1	
GOV	500000	Charge	1	10	
Quota_Gen	99999	Charge	30	1	
R_quota1	8000000	Charge	365	0	
gsdf	45	Charge	12	0	
s_quota1	100000000	Charge	200	0	
sr_quota1	100	Charge	300	0	
ss_fb_quota1	10000000	Charge	365	0	
ss_wa_quota1	10000000	Charge	15	2	

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- Click **Modify** to view the modify screen as shown below

Figure 178: Modify

Modify Quota Information

Quota Name: BAL1000

* Total Quota (KB): 2048

Chargable Flag: Charge

* Validity Days: 30

Pulse Unit (KB): 1

Submit Cancel

* indicates mandatory fields.

- Upon performing amendments click **Submit** to save the changes.
- Click **Cancel** for the view screen
- Click **Delete** to delete the **Quota** successfully.

6.1.7 User Quota Allocation

Using 'User Quota Allocation' it is possible to allocate amount of data to the sub groups from their respective parents.

6.1.7.1 Create User Quota Allocation

To Create User Quota Allocation

- After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
- In the PCRF main screen, by default the **Policy Management** tab displays the available list of tabs
- Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 179: Data Management

Data Management

* Data Management: Select

Select

Charging Rule Definition

QOS Information

QOS Set

Service Data Flow Definition

Service Data Flow Base Information

Quota

User Quota Allocation

Device Equipment Info

Time Of Day

Rating Group

* indicates mandatory fields.

4. Select **User Quota Allocation** from the **Data Management** drop-down list ,the following screen appears

Figure 180: User Quota Allocation

The screenshot shows a web interface titled "Data Management". At the top right, a note states: "'*' indicates mandatory fields." Below the title, there is a label "* Data Management:" followed by a dropdown menu currently displaying "User Quota Allocation". At the bottom right of the form area, there are two buttons: "Create" and "View".

5. Click **Create**. The following screen appears.

Figure 181: Create

The screenshot shows a web interface titled "Create User Quota Allocation". At the top right, a note states: "'*' indicates mandatory fields." The form contains several input fields with labels:

- * User Quota Allocation Name: (text input)
- Max borrow count from Parent Account: (text input)
- * Quota Allocation per request: (text input)
- Percent to take from Parent Account: (text input)
- Max Usage per Request: (text input)
- Min Usage per Request: (text input)

 At the bottom right of the form area, there are two buttons: "Submit" and "Cancel".

6. In order to allocate Quota to user, specify the details in the above shown fields.

7. Click **Submit**. The following success message appears.

Figure 182: Successful Message

The screenshot shows a success message at the top: "User Quota Allocation XIUS QUOTA Allocate created successfully" with a green checkmark icon. Below the message is a table listing the allocated quotas.

User Quota Allocation Name	Max borrow count from Parent Account	Quota Allocation per request	Percent to take from Parent Account	Max Usage per Request	Min Usage per Request	Modify/Delete
GOV	0	2	0	0	0	
Gen	0	2	0	0	0	
R_QuA_1	00	2	10	0	0	
USR_QUOTA_BAL1000	0	2	0	0	0	
dfs	0	2	0	0	0	
s_uqa_1	2	2	10	0	0	
ss_fb_UQA1	0	5	0	0	0	
ss_ws_LQA1	0	2	0	0	0	

Below the table, there is a pagination control showing "Page: 1" with a dropdown arrow. At the bottom right of the interface, there is a "Back" button.

8. Click **Back** for Data Management screen

6.1.7.2 View User Quota Allocation

To View User Quota Allocation:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management** tab displays the available list of tabs
3. Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 183: Data Management

The screenshot shows the 'Data Management' screen. At the top right, a note states: '* indicates mandatory fields.' Below this, there is a label '* Data Management:' followed by a dropdown menu. The dropdown menu is open, showing the following options: Select, Charging Rule Definition, QOS Information, QOS Set, Service Data Flow Definition, Service Data Flow Base Information, Quota, User Quota Allocation, Device Equipment Info, Time Of Day, and Rating Group.

4. Select **User Quota Allocation** from the **Data Management** drop-down list, the following screen appears

Figure 184: User Quota Allocation

The screenshot shows the 'User Quota Allocation' screen. At the top right, a note states: '* indicates mandatory fields.' Below this, there is a label '* Data Management:' followed by a dropdown menu set to 'User Quota Allocation'. At the bottom right, there are two buttons: 'Create' and 'View'.

5. Click **View** to the View the User Quota Allocation details as shown below

Figure 185: View

User Quota Allocation Name	Max borrow count from Parent Account	Quota Allocation per request	Percent to take from Parent Account	Max Usage per Request	Min Usage per Request	Modify/Delete
GOV	0	2	0	0	0	
Gen	0	2	0	0	0	
R_UQA_1	30	2	10	0	0	
USR_QUOTA_BAL1000	0	2	0	0	0	
dfs	0	2	0	0	0	
s_uqa_1	2	2	10	0	0	
ss_fb_UQA1	0	5	0	0	0	
ss_wa_UQA1	0	2	0	0	0	

[Back](#)

- Click **Modify** to view the modify screen as shown below

Figure 186: Modify

Modify User Quota Allocation Information

User Quota Allocation Name: GOV

Max borrow count from Parent Account: 0

* Quota Allocation per request: 2

Percent to take from Parent Account: 0

Max Usage per Request: 0

Min Usage per Request: 0

Submit Cancel

- Upon performing amendments click **Submit** to save the changes.
- Click **Cancel** for the view screen
- Click **Delete** to delete the **User Quota Allocation** successfully.

6.1.8 Device Equipment Info

Using 'Device Equipment Info' it is possible to configure range to the different UEI (User Equipment Info) types.

6.1.8.1 Create Device Equipment Info

To Create Device Equipment Info:

- After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
- In the PCRF main screen, by default the **Policy Management** tab displays the available list of tabs
- Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 187: Data Management

* indicates mandatory fields.

Data Management

* Data Management: Select

Select

Charging Rule Definition

QOS Information

QOS Set

Service Data Flow Definition

Service Data Flow Base Information

Quota

User Quota Allocation

Device Equipment Info

Time Of Day

Rating Group

4. Select **Device Equipment Info** from the **Data Management** drop-down list ,the following screen appears

Figure 188: Device Equipment Info

The screenshot shows a web interface titled "Data Management". At the top right, a note states: "* indicates mandatory fields." Below the title, there is a label "* Data Management:" followed by a dropdown menu currently displaying "Device Equipment Info". At the bottom right of the form area, there are two buttons: "Create" and "View".

5. Click **Create**. The following screen appears.

Figure 189: Create

The screenshot shows a form titled "Create Device Equipment Information". It contains four mandatory fields, each marked with an asterisk:

- * Equipment Name: Text input field containing "XIUS EQP Info".
- * UEI Type: Dropdown menu with "UEI_IMEISV" selected.
- * Start Range: Text input field containing "59858585858585".
- * End Range: Text input field containing "989898989898989".

 At the bottom right, there are two buttons: "Submit" and "Cancel".

6. In the Equipment **Name** field, specify name to the new device equipment info.
7. From the **UEI Type** drop-down list, select a UEI type.

Figure 190: UEI Type

The screenshot shows a close-up of the "* UEI Type:" dropdown menu. The menu is open, displaying a list of options: "Select", "UEI_IMEISV", "UEI_MAC", "UEI_EUI64", and "UEI_MODIFIED_EUI64". The "UEI_IMEISV" option is highlighted in blue.

IMEISV: International Mobile Equipment Identity software Version.

8. Specify **Start** and **End** range to UEI type in the respect
9. Click **Submit**. The following success message appears.

Figure 191: Successful Message

The screenshot shows a success message at the top: "Device Equipment Information XIUS EQP Info created successfully." Below the message is a table with the following data:

Equipment Name	UEI Type	Start Range	End Range	Modify/Delete
FebGovDevice	UEI_EUI64	1111111111	999999999999	
XIUS EQP Info	UEI_MAC	58585858585858	98989898989898	
newDevEquip	UEI_IMEISV	95020329770000	95020329779999	

At the bottom right of the table area, there is a "Back" button. At the very bottom of the page, there is a "Page: 1" indicator.

6.1.8.2 View Device Equipment Info

To View Device Equipment Info

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management** tab displays the available list of tabs
3. Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 192: Data Management

4. Select **Device Equipment Info** from the **Data Management** drop-down list, the following screen appears

Figure 193: Device Equipment Info

5. Click **View**, the following screen appears.

Figure 194: View

Equipment Name	UEI Type	Start Range	End Range	Modify/Delete
BSNL	UEI_EUI64	9876543210	9876543500	
BSNLT	UEI_EUI64	9160000000000	9160000999999	
GOV	UEI_IMEISV	11111111	22222222	
Ghana_1	UEI_IMEISV	2323232323	2323232333	
R_ghana	UEI_IMEISV	1020304000	1020304100	
SAMSUNG	UEI_IMEISV	950203297700000	950203297799999	
df	UEI_MAC	34456789	87456786	
fsdf	UEI_MODIFIED_EUI64	3234214243	4523524542	
s_ghana	UEI_IMEISV	987654000110000	987654000115000	
ss_wa_mi	UEI_IMEISV	9900000155111111	9900000155112211	

10. Click **Modify** to view the modify screen as shown below

Figure 195: Modify

Modify Device Equipment Information

* indicates mandatory fields.

Equipment Name: BSNL

* UEI Type: UEI_EU64

* Start Range: 9876543210

* End Range: 9876543500

Submit Cancel

11. Upon performing ammendments click **Submit** to save the changes.

12. Click **Cancel** for the view screen

13. Click **Delete** to delete the **Device Equipment Info** sucessfully.

6.1.9 Time Of Day

Using 'Time Of Day' it is possible to configure the day on which the policy should be reactivated.

6.1.9.1 Create Time of Day

To Create Time of Day

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management tab** displays the available list of tabs
3. Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 196: Data Management

Data Management

* indicates mandatory fields.

* Data Management: Select

- Select
- Charging Rule Definition
- QOS Information
- QOS Set
- Service Data Flow Definition
- Service Data Flow Base Information
- Quota
- User Quota Allocation
- Device Equipment Info
- Time Of Day
- Rating Group

4. Select **Time of Day** from the **Data Management** drop-down list, the following screen appears

Figure 197: Time Of Day

* indicates mandatory fields.

Data Management

* Data Management: Time Of Day

Create View

5. Select **Time Of Day** from the **Data Management** drop-down list and click **Create**. The following screen appears.

Figure 198: Create

Create Time Of Day

* TOD Name: XIUS TOD

Year: 2015 '2014-2016,2018'

Month: 6 '1,2,6-8,12'

Date: 15 '1-15,22,30 Range[1-31]'

Week: 31 '1,2,4-6 Range[1-52]'

day: THURSDAY

Hour: 8 '0-6,8,24 Hr.'

* Recursive Day: Month

Submit Cancel

6. In **TOD Name** field, specify a name to time of day (TOD).
7. Form the **Recursive Day** drop-down list, select recursive day to policy

Figure 199: Recursive Day

* Recursive Day: Hour

Select

Year

Month

Date

Week

Day

Hour

- Click **Submit**. The following success message appears.

Figure 200: Successful Message

Time Of Day XIUS TOD Saved Successfully

TOD Name	Year	Month	Date	Week	day	Hour	Recursive Day	Modify/Delete
Timeofdayvoda	2014-2016	12			TUESDAY	22	Month	
XIUS TOD	2015	6	15	31	THURSDAY	8	Month	
XiusTimeofday	2014-2016	5	7	1	MONDAY	22	Week	
ddd	2015	5	54	3		4	Month	
fgh	2014	11	12				Year	
ggg							Month	
gggt							Year	
new1	2015						Month	
pcrf	2014						Month	
rrr							Month	

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- Click **Back** for data management screen

6.1.9.2 View Time Of Day

To View Time of day:

- After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
- In the PCRF main screen, by default the **Policy Management tab** displays the available list of tabs
- Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 201: Data Management

*! indicates mandatory fields.

Data Management

* Data Management:

- Select
- Charging Rule Definition
- QOS Information
- QOS Set
- Service Data Flow Definition
- Service Data Flow Base Information
- Quota
- User Quota Allocation
- Device Equipment Info
- Time Of Day
- Rating Group

- Select **Time of Day** from the **Data Management** drop-down list, the following screen appears

Figure 202: Time Of Day

The screenshot shows a web interface titled "Data Management". At the top right, a note says " * indicates mandatory fields." Below the title, there is a label "* Data Management:" followed by a dropdown menu currently showing "Time Of Day". At the bottom right, there are two buttons: "Create" and "View".

- Click **View**, the following screen appears.

Figure 203: View

TOD Name	Year	Month	Date	Week	day	Hour	Recursive Day	Modify/Delete
Timeofdayvoda	2014-2016	12			TUESDAY	22	Month	
XIUS TOD	2015	6	15	31	THURSDAY	8	Month	
XiusTimeofday	2014-2016	5	7	1	MONDAY	22	Week	
ddd	2015	5	54	3		4	Month	
fgh	2014	11	12				Year	
ggg							Month	
gggt							Year	
new1	2015						Month	
pcrf	2014						Month	
rrr							Month	

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- Click **Modify** to view the modify screen as shown below

Figure 204: Modify

The screenshot shows a web interface titled "Modify Time Of Day". At the top right, a note says " * indicates mandatory fields." The form contains the following fields:

- TOD Name:
- Year:
- Month:
- Date:
- Week:
- day:
- Hour:
- * Recursive Day:

 At the bottom right, there are two buttons: "Submit" and "Cancel".

- Upon performing ammendments click **Submit** to save the changes.
- Click **Cancel** for the view screen
- Click **Delete** to delete the **Time of Day** sucessfully.

6.1.10 Rating Group

Using 'Rating Group' it is possible to configure rating groups to OCS.

6.1.10.1 Create Rating Group

To Create Rating Group:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management** tab displays the available list of tabs
3. Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 205: Data Management

The screenshot shows the 'Data Management' screen. At the top right, a note states: '* indicates mandatory fields.' Below the header, there is a label '* Data Management:' followed by a dropdown menu. The dropdown menu is open, showing a list of options: 'Select', 'Charging Rule Definition', 'QOS Information', 'QOS Set', 'Service Data Flow Definition', 'Service Data Flow Base Information', 'Quota', 'User Quota Allocation', 'Device Equipment Info', 'Time Of Day', and 'Rating Group'.

4. Select **Time of Day** from the **Data Management** drop-down list, the following screen appears

Figure 206: Rating Group

The screenshot shows the 'Rating Group' screen. At the top right, a note states: '* indicates mandatory fields.' Below the header, there is a label '* Data Management:' followed by a dropdown menu showing 'Rating Group'. At the bottom right, there are two buttons: 'Create' and 'View'.

5. Select **Rating Group** from the **Data Management** drop-down list and click **Create**. The following screen appears.

Figure 207: Create

The screenshot shows the 'Create Rating Group' screen. At the top, there is a header 'Create Rating Group'. Below the header, there are two input fields: '* Rating Group Id:' with the value '9441185691' and '* Rating Group Name:' with the value 'XIUS Rating Group'. At the bottom right, there are two buttons: 'Submit' and 'Cancel'.

6. In the **Rating Group ID** field, specify an ID to the rating group.
7. In the **Rating Group Name** field, specify a name to the rating group.
8. Click **Submit**. The following success message appears.

Figure 208: Successful Message

Rating Group XIUS Rating Group created Successfully

Rating Group Id	Rating Group Name	Modify/Delete
9160	FEBGOVARDHAN	
123	GGG	
12	GGGS	
66	HA_RGID	
9	NEW_RAT-GRP	
3	PK_FREE1	
9441185691	XIUS RATING GROUP	

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Note: The created rating group must be same as the rating group created at OCS-Data Zone groups.

9. Click **Back** for data management screen

6.1.10.2 View Rating Group

To View Rating Group:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management** tab displays the available list of tabs
3. Click the **Data Management** tab. The Data Management screen appears as follows.

Figure 209: Data Management

Data Management
* indicates mandatory fields.

* Data Management:

Select

Select

Charging Rule Definition

QOS Information

QOS Set

Service Data Flow Definition

Service Data Flow Base Information

Quota

User Quota Allocation

Device Equipment Info

Time Of Day

Rating Group

4. Select **Time of Day** from the **Data Management** drop-down list, the following screen appears

Figure 210: Rating Group

The screenshot shows a web interface titled "Data Management". At the top right, a note states "* indicates mandatory fields." Below the title, there is a label "* Data Management:" followed by a dropdown menu currently showing "Rating Group". At the bottom right, there are two buttons: "Create" and "View".

5. Click **View**, the following screen appears.

Figure 211: View

The screenshot shows a table with three columns: "Rating Group Id", "Rating Group Name", and "Modify/Delete". The table contains the following data:

Rating Group Id	Rating Group Name	Modify/Delete
59	CHARGEABLESD	
1001	GOV	
1	RG1	
2	RG2	
3	RG3	
4	RG4	
5	RG5	
6	RG6	
55	RGNAME_55	
67	SS_FB_RATINGGROUPID	

At the bottom right of the table, there is a "Back" button.

6. Click **Modify** to view the modify screen as shown below

Figure 212: Modify

The screenshot shows a web interface titled "Modify Rating Group". At the top right, a note states "* indicates mandatory fields." Below the title, there are two input fields: "Rating Group Id:" with the value "59" and "* Rating Group Name:" with the value "CHARGEABLESD". At the bottom right, there are two buttons: "Submit" and "Cancel".

7. Upon performing ammendments click **Submit** to save the changes.
8. Click **Cancel** for the view screen
9. Click **Delete** to delete the **Rating Group** sucessfully.

7 User Management

Using 'User Management' an administrator can manage users by creating, modifying and deleting unwanted users' data.

7.1 Manage User

Manage user allows the administrator to create, view, modify, delete login credentials of a user.

To create a user, do the following:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management** tab displays the available tabs
3. Click the **User Management** tab. The User Management screen appears as follows.

Figure 213: User Management

The screenshot shows the 'User Management' tab selected. Below the tab, there is a label '* User Management:' followed by a dropdown menu. The dropdown menu is open, showing three options: 'Select', 'Manage User', and 'Manage Role'. A red asterisk is placed before the label. A small red text 'indicates mandatory fields.' is visible in the top right corner of the form area.

4. Select **Manage User** from the drop-down, and hit create the create manage user screen as shown below

Figure 214: Manage User

The screenshot shows the 'User Management' tab selected. Below the tab, there is a label '* User Management:' followed by a dropdown menu set to 'Manage User'. At the bottom right of the form, there are two buttons: 'Create' and 'View'. A red asterisk is placed before the label. A small red text 'indicates mandatory fields.' is visible in the top right corner of the form area.

5. Select **Manage User** from **User management** list and click **Create**, The create screen appears as shown below

Figure 215: Create User


The screenshot shows the 'Create User' screen. It has two main sections: 'User Details' and 'Assign Role'.
 In the 'User Details' section, there are four input fields: 'First Name:' (abc), 'Last Name:' (def), 'Login Name:' (abc), and 'Email Id:' (sdhg@gmail.com).
 In the 'Assign Role' section, there is a red asterisk and the text '* Please select the following roles'. Below this, there are four checkboxes: 'test' (checked), 'xiusops' (unchecked), 'xiusopss' (checked), and 'all' (unchecked). There is also a checkbox for 'readonly' which is unchecked.
 At the bottom right, there are two buttons: 'Submit' and 'Cancel'.




























6. Refer to the following table for a description of the fields:

Field	Description
First Name	Enter the first name of the user.
Last Name	Enter the last name of the user.
Login Name	Enter the login name of the user.
Password	Enter the password of the user.
Confirm Password	Re-enter the password to confirm.
Email Id	Enter the email id of the user to inform the credential details.

7. Click **Save**, the following success message is displayed as shown below

Figure 216: Successful Message


User abc created successfully.

First Name	Last Name	Login Name	Email Id	Modify/Delete/View
Raul	Alexander	RaulAlexander	raulalexander@gmail.com	  
abc	def	abc	sdfg@gmail.com	  
Arturo	Arturo	arturo	arturo@gmail.com	  
chief	c	chief	admin@xius.com	  
Gustavo	Gustavo	gustavo	gustavo@gmail.com	  
jose	jose	jose	jose@gmail.com	  
Liliana	Liliana	liliana	liliana@gmail.com	  
carlos	carlos	pcrfuicarlos	carlos@gmail.com	  
xius	ops	xiusops	xius@gmail.com	  

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8. Click **Cancel** to go back to the user management screen

7.1.1 View Manage User

To view the manage user, do the following

1. After login, the **Policy and Charging Rules** Function screen appears with the available tabs.
2. Click **User Management** and select **Manage User** from the available drop-down list, The user management screen appears as shown below

Figure 217: User Management

* indicates mandatory fields.

User Management

* User Management: Manage User

Create View

3. Click **View** button next to create, the view manage user screen appears as shown below

Figure 218: View

First Name	Last Name	Login Name	Email Id	Modify/Delete/View
mega	soft	test1	satish@gmail.com	
Govaa	Gov	gsadf	megasoft2@gmail.com	
Xius	Xius	XIUS	xius.com@gmail.com	
xiuss	xiuss	XIUS1	xius1@gmail.com	
lakshmi	lakshmi	lakshmi	lakshmi@xius.com	
Govardhan	Xius	govardhan	megasoft1@gmail.com	
megasoft	megasoft	megasoft	megasoft@gmail.com	
test	testuserone	test	testuserone1@xius.com	
GOV	GOV	GOV	GOV@xius.com	
pcrf	pcrf	pcrf	pcrf@mgsoftxius.com	

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4. Click **Back** to get back to the user management screen

7.1.2 Modify Manage User

To modify manage user, do the following

1. After login, the **Policy and Charging Rules** Function screen appears with the available tabs.
2. Click **User Management** and select **Manage User** from the available drop-down list, The user management screen appears as shown below

Figure 219: Manage User

* indicates mandatory fields.































User Management

* User Management: Manage User

Create View

3. Click **View** button next to create, the view manage user screen appears as shown below

Figure 220: View

First Name	Last Name	Login Name	Email Id	Modify/Delete/View
mega	soft	test1	satish@gmail.com	  
Govaa	Gov	gsadf	megasoft2@gmail.com	  
Xius	Xius	XIUS	xius.com@gmail.com	  
xiuss	xiuss	XIUS1	xius1@gmail.com	  
lakshmi	lakshmi	lakshmi	lakshmi@xius.com	  
Govardhan	Xius	govardhan	megasoft1@gmail.com	  
megasoft	megasoft	megasoft	megasoft@gmail.com	  
test	testuserone	test	testuserone1@xius.com	  
GOV	GOV	GOV	GOV@xius.com	  
pcrf	pcrf	pcrf	pcrf@mgsoftxius.com	  

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4. Click on  Modify, the **Modify User** screen appears as shown below

Figure 221: Modify

Modify User

* First Name: mega

* Last Name: soft

Login Name: test1

* Email Id: satish@gmail.com

Assign Role

* Please select the following roles

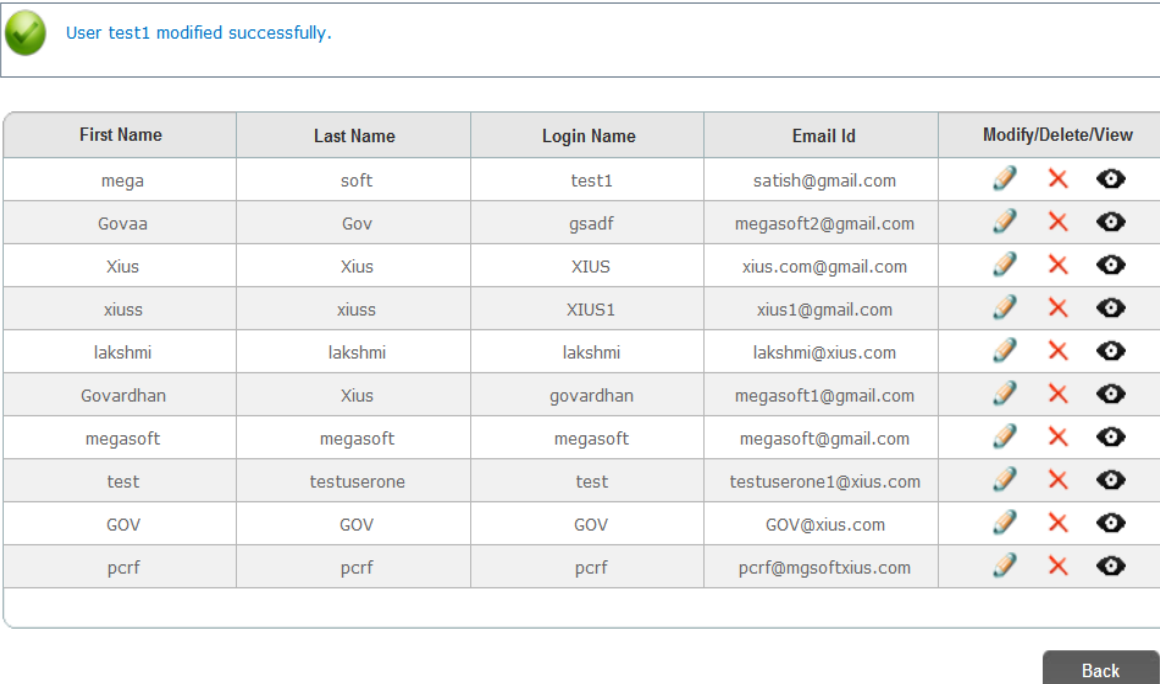
☐ test
☐ Gov1

Submit

Cancel

- Upon amending the **existing** data, click **Submit** to save the changes performed. The following success message is displayed as shown below

Figure 222: Successful Message



User test1 modified successfully.

First Name	Last Name	Login Name	Email Id	Modify/Delete/View
mega	soft	test1	satish@gmail.com	
Govaa	Gov	gsadf	megasoft2@gmail.com	
Xius	Xius	XIUS	xius.com@gmail.com	
xiuss	xiuss	XIUS1	xius1@gmail.com	
lakshmi	lakshmi	lakshmi	lakshmi@xius.com	
Govardhan	Xius	govardhan	megasoft1@gmail.com	
megasoft	megasoft	megasoft	megasoft@gmail.com	
test	testuserone	test	testuserone1@xius.com	
GOV	GOV	GOV	GOV@xius.com	
pcrf	pcrf	pcrf	pcrf@mgsoftxius.com	

Back

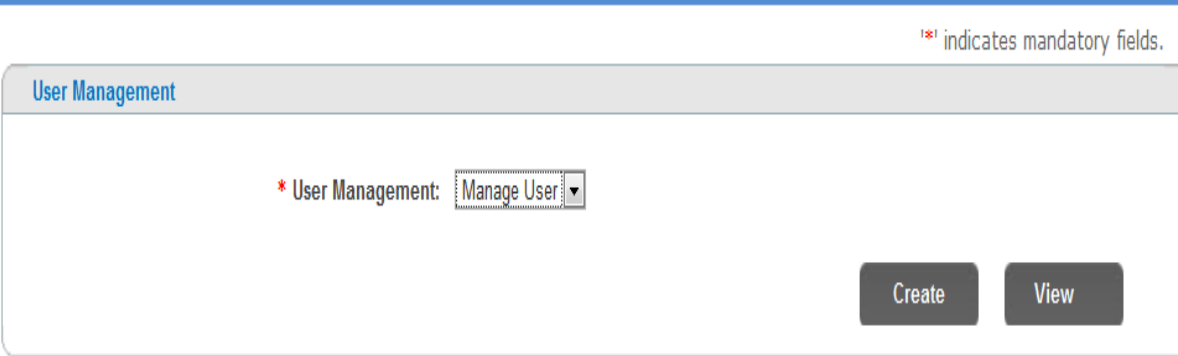
- Click **Cancel** to get back to the view manage user screen.
- Click **Back** to go back to the user management window.

7.1.3 Delete Manage User

To Delete the Manage user, do the following

- After login, the **Policy and Charging Rules** Function screen appears with the available tabs.
- Click **User Management** and select **Manage User** from the available drop-down list, The user management screen appears as shown below

Figure 223: Manage User



* indicates mandatory fields.































User Management

* User Management: Manage User

Create View

3. Click **View** button next to create, the view manage user screen appears as shown below

Figure 224: View

First Name	Last Name	Login Name	Email Id	Modify/Delete/View
mega	soft	test1	satish@gmail.com	  
Govaa	Gov	gsadf	megasoft2@gmail.com	  
Xius	Xius	XIUS	xius.com@gmail.com	  
xiuss	xiuss	XIUS1	xius1@gmail.com	  
lakshmi	lakshmi	lakshmi	lakshmi@xius.com	  
Govardhan	Xius	govardhan	megasoft1@gmail.com	  
megasoft	megasoft	megasoft	megasoft@gmail.com	  
test	testuserone	test	testuserone1@xius.com	  
GOV	GOV	GOV	GOV@xius.com	  
pcrf	pcrf	pcrf	pcrf@mgsoftxius.com	  

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4. Click on  Delete, the **Delete User** screen appears as shown below

Figure 225: Delete

Delete User

First Name:

Last Name:

Login Name:

Email Id:


Assigned Roles

test































[Submit](#) [Cancel](#)

5. Click **Submit** to delete the record. The following success message is displayed as shown below

Figure 226: Successful Message



User test1 deleted successfully.

First Name	Last Name	Login Name	Email Id	Modify/Delete/View
Govaa	Gov	gsadf	megasoft2@gmail.com	  
Xius	Xius	XIUS	xius.com@gmail.com	  
xiuss	xiuss	XIUS1	xius1@gmail.com	  
lakshmi	lakshmi	lakshmi	lakshmi@xius.com	  
Govardhan	Xius	govardhan	megasoft1@gmail.com	  
megasoft	megasoft	megasoft	megasoft@gmail.com	  
test	testuserone	test	testuserone1@xius.com	  
GOV	GOV	GOV	GOV@xius.com	  
pcrf	pcrf	pcrf	pcrf@mgsoftxius.com	  
lakshmi	lakshmi	lakshmbxius	lakshmi@xiuscmp.com	  

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- Click **Back** to go back to the user mangement window

7.2 Manage Role

Manage Role allows the administrator to segregate the access permission as per user assigned role.

To create a manage role, do the following:

- After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
- In the PCRF main screen, by default the **Policy Management tab** displays the available list of policies.
- Click the **User Management** tab. The User Management screen appears as follows.

Figure 227: User Management

The screenshot shows the 'User Management' tab selected. A red asterisk indicates mandatory fields. The 'User Management:' label is followed by a dropdown menu currently showing 'Select'. The dropdown menu is open, displaying three options: 'Select', 'Manage User', and 'Manage Role'. A legend in the top right corner states: '!! indicates mandatory fields.'

- Select Manage Role from **User management** list , the below screen is displayed

Figure 228: Manage Role

The screenshot shows the 'User Management' tab. The 'User Management:' dropdown now shows 'Manage Role'. At the bottom right, there are two buttons: 'Create' and 'View'. A legend in the top right corner states: '!! indicates mandatory fields.'

- Click **Create**,The create screen appears as shown below

Figure 229: Create Role

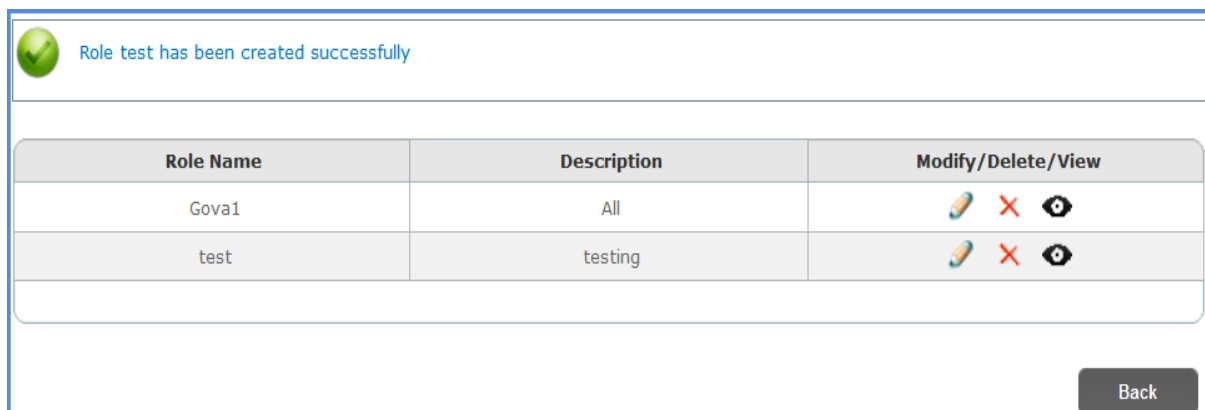
The screenshot shows the 'Create Role' screen. It has two main sections: 'Role Name' and 'Description', both with input fields. Below these is a 'Privileges' section with a red asterisk and the text 'Please select the following privileges'. It contains a list of 10 privileges, each with a checkbox: 'Manage User - Delete', 'Manage User - View', 'Manage User - Modify', 'Manage User - Create', 'Manage Role - Delete', 'Manage Role - View', 'Manage Role - Modify', 'Charging Rule Definition - Create', 'Subscriber Policy Attachment', 'Subscriber Details', 'Subscriber - Usage Report', and 'Subscriber - Policy View'. At the bottom right, there are 'Submit' and 'Cancel' buttons. A legend in the top right corner states: '!! indicates mandatory fields.'

6. Refer to the following table for a description of the fields:

Field	Description
Role Name	Enter role name in the text field
Description	Enter description in the text field
Privileges	
Manage user - Create Manage Role- Delete Manage Role- View Manage Role- Modify Charging Rule Definition- Create Subscriber Policy Attachment Subscriber Details Subscriber - Usage Report Subscriber - Policy View	Select the following privileges from the given list

7. Upon filling the above fields, click **Submit** to create a role. The following successful message is displayed as shown below

Figure 230: Successful Message



8. Click **Back** to go back to the user management window

7.2.1 View Manage Role

To view the manage role, do the following:

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management** tab displays the available list of policies.
3. Click the **User Management** tab. The User Management screen appears as follows.

Figure 231: User Management







The screenshot shows the 'User Management' screen. At the top, there is a header 'User Management' and a note '* indicates mandatory fields.' Below the header, there is a label '* User Management:' followed by a dropdown menu. The dropdown menu is open, showing three options: 'Select', 'Manage User', and 'Manage Role'. The 'Select' option is currently highlighted.

4. Select **Manage Role** from the user **management** drop-down, the below screen is displayed with **Create** and **View**

Figure 232: Manage Role

The screenshot shows the 'Manage Role' screen. At the top, there is a header 'User Management' and a note '* indicates mandatory fields.' Below the header, there is a label '* User Management:' followed by a dropdown menu. The dropdown menu is set to 'Manage Role'. At the bottom right of the screen, there are two buttons: 'Create' and 'View'.

5. Click **View** button next to create button, the view manage role screen is displayed as shown below

Role Name	Description	Modify/Delete/View
Gova1	All	  
test	testing	  

Back

6. Click **Back** to go back the user management window

7.2.2 Modify Manage Role

To Modify the manage role, do the following

1. After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
2. In the PCRF main screen, by default the **Policy Management** tab displays the available list of policies.
3. Click the **User Management** tab. The User Management screen appears as follows.

Figure 233: User Management

*** User Management:**

* indicates mandatory fields.

4. Select **Manage Role** from the user management drop-down, the below screen is displayed

Figure 234: Manage Role

* indicates mandatory fields.

User Management







* User Management:

Manage Role▼

CreateView

- Click **View** button next to create button, the view manage role screen is displayed as shown below

Figure 235: View

Role Name	Description	Modify/Delete/View
Gova1	All	  
test	testing	  

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- Click **Modify**, the modify role screen appears as shown below

Figure 236: Modify Role

Modify Role * indicates mandatory fields.

Role Name:

Description:

Privileges


* Please select the following privileges







- ☒ Manage User - Delete
- ☒ Manage User - View
- ☐ Manage User - Modify
- ☒ Manage User - Create
- ☒ Manage Role - Delete
- ☒ Manage Role - View
- ☐ Manage Role - Modify
- ☒ Charging Rule Definition - Create
- ☒ Subscriber Policy Attachment
- ☒ Subscriber Details
- ☒ Subscriber - Usage Report
- ☒ Subscriber - Policy View

Submit **Cancel**

- Upon amending the **existing** data, click **Submit** to save the changes performed. The following success message is displayed as shown below

Figure 237: Successful Message

 Role Gova1 has been updated successfully

Role Name	Description	Modify/Delete/View
Gova1	All	  
test	testing	  

Back

- Click **Back** to go back to the user management window

7.2.3 Delete Manage Role

To delete the manage role, do the following

- After login, the **Policy and Charging Rules Function** screen appears with the available tabs.
- In the PCRF main screen, by default the **Policy Management** tab displays the available list of policies.

- Click the **User Management** tab. The User Management screen appears as follows.

Figure 238: User Management

User Management

* User Management: Select

* indicates mandatory fields.

- Select **Manage Role** from the user management drop-down, the below screen is displayed

Figure 239: Manage Role

User Management

* User Management: Manage Role

* indicates mandatory fields.

Create View

- Click **View** button next to create button, the view manage role screen is displayed as shown below

Figure 240: View

Role Name	Description	Modify/Delete/View
Gova1	All	
test	testing	

Back

- Click **Delete** button, the following confirmation message is displayed as shown below

Figure 241: Delete Role

Delete Role

Role Name:

Description:


Privileges




Manage User - Delete	Manage User - View	Manage User - Create
Manage Role - Delete	Manage Role - View	Charging Rule Definition - Create
Subscriber Policy Attachment	Subscriber Details	Subscriber - Usage Report
Subscriber - Policy View	Subscriber - Bulk Upload	QOS Rating Service Map - Delete

Submit Cancel

- Click **Submit**, the following confirmation message is displayed as shown below

Figure 242: Sucessful Message

 Role test has been deleted successfully

Role Name	Description	Modify/Delete/View
Gova1	All	  

Back

- Click **Back** to go back to the user management window.