



LFN Developer & Testing Forum

# ONAP Portal and SDK

**Guilin Demo**

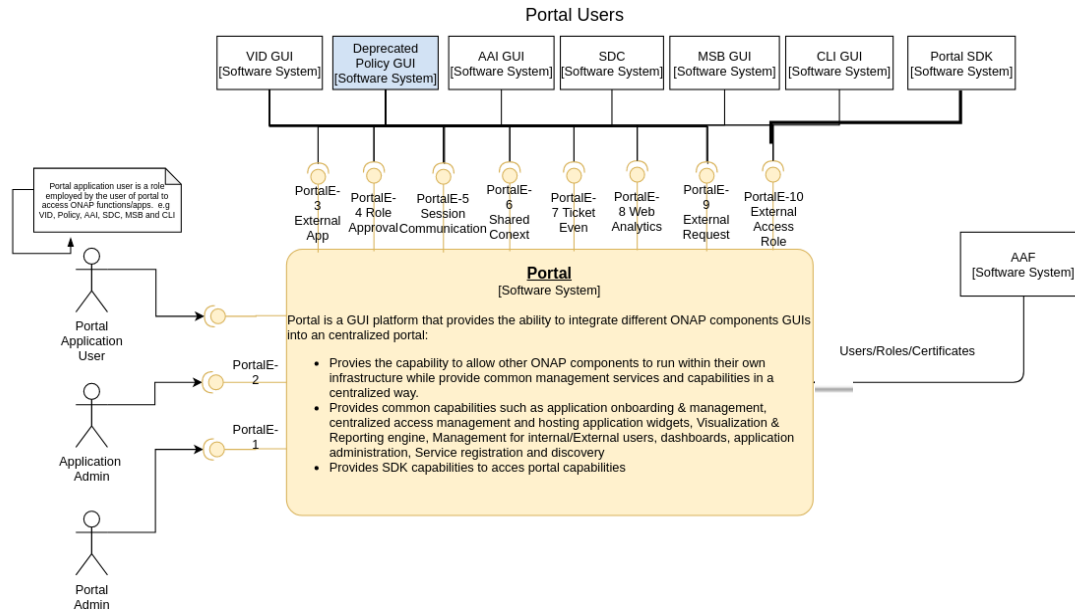
**Presenters: Sunder Tattavarada/ Sandeep Shah,  
Sudarshan Kumar, and Muni Mohan Kunchi**

# Agenda

- ONAP Portal Project and Architecture Overview
- ONAP Portal Deep Dive
  - Local Development Setup (Database, Angular CLI, Backend, Frontend / Angular 7)
- ONAP Portal SDK Deep Dive
- ONAP Portal Deployment Considerations
- Key Contacts and References
- Q&A

# ONAP Portal Project and Architecture Overview

ONAP Wiki: <https://wiki.onap.org/pages/viewpage.action?pageId=84642275>

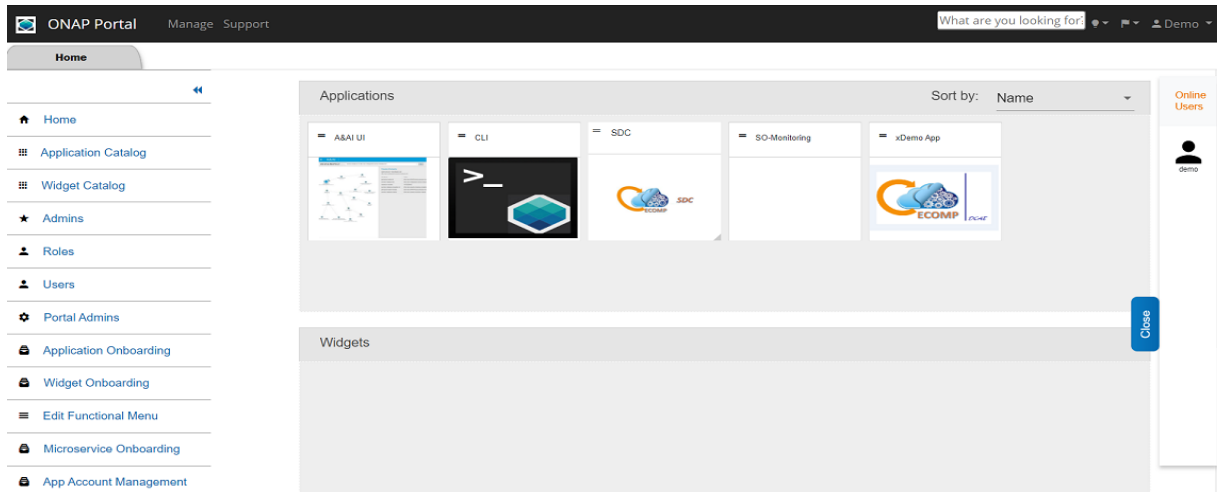


Portal is a GUI platform that provides the ability to integrate different ONAP platform GUIs into a centralized portal

- The capability to allow other ONAP components to run within their own infrastructure while providing common management services and capabilities in a centralized way
- Provides common capabilities such as:
  - Application on-boarding and management
  - Centralized access management
  - Hosting application widgets
  - Context-aware UI controls
  - Visualization & reporting engine
- Provides SDK capabilities to access portal capabilities
  - Software libraries and APIs
  - Seamless User interface experience

# ONAP Portal Overview

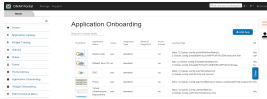
The ONAP portal is a web application that acts as the user interface and provides capabilities to design, test, certify, and deploy VNF/PNF and CNF based network services via onboarded partnering applications.



## Key Features of ONAP Portal:

- Applications Onboarding
- Applications Catalog
- Microservices Onboarding
- Widgets Onboarding
- Widget Catalog
- Users Management
- Roles and Role Functions Management & Role Sync with AAF.
- Functional Menu Management

# ONAP Portal Journey



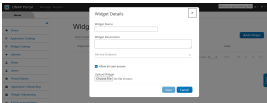
**Applications Onboarding** screen allow administrator to onboard different applications. This screen provides ability to search the onboarded applications and update the configuration details.



**Microservices Onboarding** screen allows administrator to onboard microservices. One can manage the microservices and test the services from this page.



**User / Role Management:** User provisioning can be managed from this screen in the portal. It allows an administrator to see the users of applications and manage their authorization (Roles).



**Widget Onboarding:** This screen allows developer to upload and manage widget details which appears on the widget catalog screen.



**Widget Catalog:** Ability to visualize all widgets by ONAP Portal users.

# Setting up ONAP Portal for Local Development

**ONAP Wiki:** <https://wiki.onap.org/display/DW/Setting+Up+Your+Development+Environment>

## Back-End Application

### Prerequisites:

- Java version 1.8
- Maven version 3
- Tomcat version 8.5
- MariaDB Server version 10.1.11-MariaDB

### Back-End Application Setup

- Build the ecomp-portal-BE-os project ("mvn clean install")
- Deploy war file "portal-be-os.war" to tomcat

## Front-End Application

### Prerequisites:

- Node version-10.16.0
- Angular CLI version-7.0.4

### Front-End Application Setup

- Build portal-FE-os project ("npm install")
- Run "npm start"

## Database Setup

Run DDL and DML scripts from the location ecomp-sdk\epsdk-app-common\db-scripts folder

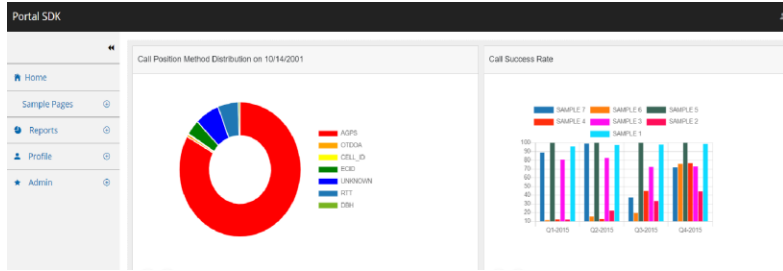
1. EcompSdkDDLMySQL\_3\_3\_Common.sql
2. EcompSdkDMLMySQL\_3\_3\_Common.sql

Run DDL and DML SQL scripts from ecomp-sdk\epsdk-app-os\db-scripts

1. EcompSdkDDLMySQL\_3\_3\_OS.sql
2. EcompSdkDMLMySQL\_3\_3\_OS.sql

# ONAP Portal SDK Overview

The ONAP Portal SDK used to create a sample web app that can be deployed onto a Tomcat instance. The SDK App can be used standalone (i.e., command line) or within the Eclipse IDE.



## Key SDK features:

- RAPTOR – Reporting Capabilities
- Profile Search and Self Profile Management
- Roles and Role Functions Management
- Menu Management – Managing left Menu Items.
- Pre-defined templates

# ONAP Portal SDK Journey



Report Name	Report Type	Report Category	Report Status	Report Date	Report User
Report Search	Report	Report	Report	Report	Report
Report Search	Report	Report	Report	Report	Report
Report Search	Report	Report	Report	Report	Report
Report Search	Report	Report	Report	Report	Report
Report Search	Report	Report	Report	Report	Report

**SDK RAPTOR** provides a web based-engine to build various reports including Linear and Dashboard.



**Sample Report**



Profile Name	Profile Type	Profile Status	Profile Date	Profile User
Profile Search	Profile	Profile	Profile	Profile
Profile Search	Profile	Profile	Profile	Profile
Profile Search	Profile	Profile	Profile	Profile
Profile Search	Profile	Profile	Profile	Profile
Profile Search	Profile	Profile	Profile	Profile

**Profile Search:** Search/manage user's profile. It gives us the capabilities to edit or activate/in-activate the profile.



A form titled 'Self Profile Detail' with fields for 'First Name', 'Last Name', 'Email', 'Phone Number', 'Address', and 'City'. There are also buttons for 'Save', 'Cancel', and 'Delete'.

**Self-Profile Management:** Manage self-profile. It allows editing of any information related to user's own profile.



Role Name	Role Type	Role Status	Role Date	Role User
Role Management	Role	Role	Role	Role
Role Management	Role	Role	Role	Role
Role Management	Role	Role	Role	Role
Role Management	Role	Role	Role	Role
Role Management	Role	Role	Role	Role

**Role and Roles Function Management:** This is used to manage User's Roles and Role Functions for non-centralized applications.



# ONAP Portal SDK - RDP Data Table and Grid

**RDP (Rapid application Development Platform)** is a custom Angular library developed to eliminate redundant code with respect to Data table, and it also provides options to configurations Data table at run time.

The screenshot displays a web application interface with two data tables. The left table contains 7 rows of data, and the right table contains 5 rows. Both tables have columns for Id, Name, Company, Location, Edit, and Delete. A sidebar on the left contains buttons for 'Add Layout', 'Data Table', 'List Box', 'Text Area', 'Text Field', 'Number', 'Checkbox', and 'Password'.

Id	Name	Company	Location	Edit	Delete
1	Abbas	AT&T	USA		
2	Sunder	AT&T	USA		
3	Arthur	AT&T	USA		
4	Thomas	AT&T	USA		
5	Garima	AT&T	USA		

Id	Name	Company	Location	Edit	Delete
1	Sudarshan	IBM	India		
2	Jegadeesh	IBM	India		
3	Muni	IBM	USA		
4	Dinesh	IBM	India		
5	Abhay	IBM	India		

# Setting up ONAP SDK into Local Environment

## ONAP Wiki:

<https://wiki.onap.org/display/DW/Developing+Portal+SDK+based+UI+App+and+the+initial+setup>

### Back-End Application

#### Prerequisites:

- Java version 1.8
- Maven version 3
- Tomcat version 8.5
- MariaDB Server version 10.1.11-MariaDB

#### Back-End Application Setup

- Build epsdk-app-os project ("mvn clean install")
- Deploy war file "epsdk-app-os.war" to tomcat

### Front-End Application

#### Prerequisites:

- Node version-10.16.0
- Angular CLI version-7.0.4

#### Front-End Application Setup

- Go to epsdk-app-os\ngapp
- "npm install"; "npm start"

### Database Setup

Run DDL and DML scripts from the location ecomp-sdk\epsdk-app-common\db-scripts folder

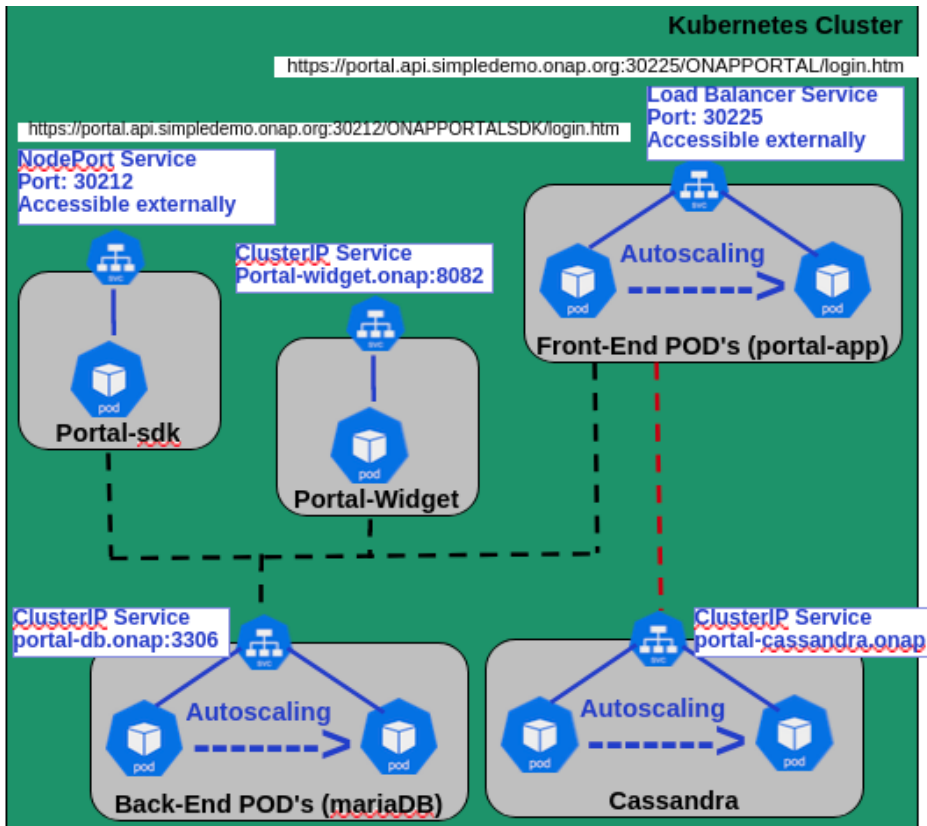
1. EcompSdkDDLMySql\_3\_3\_Common.sql
2. EcompSdkDMLMySql\_3\_3\_Common.sql

Run DDL and DML SQL scripts from ecomp-sdk\epsdk-app-os\db-scripts

1. EcompSdkDDLMySql\_3\_3\_OS.sql
2. EcompSdkDMLMySql\_3\_3\_OS.sql

<https://gerrit.onap.org/r/admin/repos/portal/sdk>

# Portal Deployment – Kubernetes Cluster/HELM Charts



## Windriver: SB-00

```
ubuntu@sb-00-rke-node:~$ kubectl get pods -n onap -o wide | grep portal
dev-portal-app-5f8fd7df5c-4lhdn      10.42.11.20      sb-00-worker-9      <none>      <none>      2/2      Running      0      61d
dev-portal-cassandra-7778f5f7d4-v6b6s  10.42.10.17      sb-00-worker-5      <none>      <none>      1/1      Running      0      61d
dev-portal-db-86599754bc-q9pmk        10.42.11.19      sb-00-worker-9      <none>      <none>      1/1      Running      0      61d
dev-portal-db-config-m2sjd            10.42.8.24       sb-00-worker-1      <none>      <none>      0/2      Completed    0      61d
dev-portal-db-config-xts8p            10.42.8.20       sb-00-worker-1      <none>      <none>      0/2      Init:Error    0      61d
dev-portal-sdk-65d68596b9-n22jp       10.42.9.16       sb-00-worker-7      <none>      <none>      2/2      Running      0      61d
dev-portal-widget-76c8957fdd-6dx8m    10.42.9.15       sb-00-worker-7      <none>      <none>      1/1      Running      0      61d
```

## POD's for Portal Component

```
ubuntu@sb-00-rke-node:~$ kubectl get svc -n onap | grep portal
portal-app      LoadBalancer      10.43.129.189      <pending>      61d
portal-cassandra      ClusterIP      10.43.137.80      <none>      61d
portal-db      ClusterIP      10.43.89.104      <none>      61d
portal-sdk      NodePort      10.43.174.146      <none>      61d
portal-widget      ClusterIP      10.43.228.130      <none>      61d
```

## Services for Portal Component

- **ONAP Wiki Portal**

- **Portal Platform Project** (<https://wiki.onap.org/display/DW/Portal+Platform+Project>)
- **Portal Development Environment**  
(<https://wiki.onap.org/display/DW/Setting+Up+Your+Development+Environment>)
- **Guilin ARC Portal Component Description**  
(<https://wiki.onap.org/pages/viewpage.action?pageId=84642275> )

- **Key Points of Contact**

- **PTL: Sunder Tattavarada** ([statta@att.com](mailto:statta@att.com))
- **Sandeep Shah** ([sandeep.shah@att.com](mailto:sandeep.shah@att.com))

# Q&A



Thank you!

# Backup

- Application screenshots



# ONAP Portal – Application Onboarding

**Applications Onboarding** screen allow administrator to onboard different applications. This screen provides ability to search the onboarded applications and update the configuration details.

ONAP Portal Manage Support What are you looking for: Demo

Home

Application Onboarding

Search in entire table Add App

Thumbnail	Application Name	Active	Integration Type	Mode Of Integration	Guest Access	Landing Page	RE:
	xDemo App	yes	standard		no	https://{{ .Values.config.portalSdkHostName}}:{{ .Values.config.portalSdkPort}}/ONAPPORALSDK/welcome.htm	htt sd
	DMaaP Bus Ctrl	no	standard		no	http://{{ .Values.config.dmaapBcHostName}}:{{ .Values.config.dmaapBcPort}}/ECOMPDBCAPP/dbc#/dmaap	htt bc:
	SDC	yes	standard		no	https://{{ .Values.config.sdcFeHostName}}:{{ .Values.config.sdcFePort}}/sdc1/portal	
	Policy	yes	standard		no	https://{{ .Values.config.papHostName}}:{{ .Values.config.papPort}}/onap/policy.htm	
	Virtual Infrastructure Deployment	yes	standard		no	https://{{ .Values.config.vidHostName}}:{{ .Values.config.vidPort}}/vid/welcome.htm	htt

Online Users demo

Close



# ONAP Portal – Microservices Onboarding

Microservices Onboarding UI allows an administrator to onboard/manage and test microservices.

The screenshot displays the ONAP Portal interface with a modal window titled "Microservice Onboarding" open. The modal contains the following fields and controls:

- Microservice Name:** A text input field with a red asterisk indicating it is required.
- Microservice Description:** A larger text area with a red asterisk and a small icon in the bottom right corner.
- Applications Name:** A dropdown menu with a red asterisk and a downward arrow.
- Microservice Endpoint URL:** A text input field with a red asterisk.
- Security Type:** A dropdown menu.
- Add User Parameter:** A button with a plus sign icon.
- Buttons:** "Save" and "Cancel" buttons at the bottom of the modal.

The background interface shows a sidebar with navigation options: Home, Application Catalog, Widget Catalog, Admins, Roles, Users, Portal Admins, Application Onboarding, Widget Onboarding, Edit Functional Menu, Microservice Onboarding, and App Account Management. The main content area is partially visible, showing a search bar and a table with columns for "Security Type" and "Delete". A search bar at the top right contains the text "What are you looking for:" and a user profile icon labeled "Demo".

# ONAP Portal – Widget Onboarding

**Widget Onboarding:** This screen allows developer to upload and manage widget details which appears on the widget catalog screen.

The screenshot displays the ONAP Portal interface with a 'Widget Onboarding' modal window open. The modal is titled 'Widget Details' and contains the following fields and controls:

- Widget Name:** A text input field.
- Widget Description:** A larger text area for detailed information.
- Service Endpoint:** A dropdown menu.
- Allow all user access**
- Upload Widget:** A section containing a 'Choose File' button and the text 'No file chosen'.
- Buttons:** 'Save' and 'Cancel' buttons at the bottom right of the modal.

The background interface shows a sidebar with navigation options: Home, Application Catalog, Widget Catalog, Admins, Roles, Users, Portal Admins, Application Onboarding, Widget Onboarding, and Edit Functional Menu. The main content area is partially obscured by the modal.

# ONAP Portal – Widget Catalog

**Widget Catalog:** Ability to visualize all widgets by ONAP Portal users.

The screenshot displays the ONAP Portal interface. At the top, a dark navigation bar contains the ONAP Portal logo, 'Manage Support' links, a search bar with the text 'What are you looking for', and a user profile icon labeled 'Demo'. Below the navigation bar is a sidebar menu with a 'Home' button and a list of options: Home, Application Catalog, Widget Catalog, Admins, Roles, Users, and Portal Admins. The main content area is titled 'Widget Catalog' and contains a large, empty light gray rectangle. On the right side, there is a vertical panel with 'Online Users' text, a user profile icon labeled 'demo', and a blue 'Close' button at the bottom.

# ONAP Portal – User/Role Management

**User/Role Management: User / Role Management:** User provisioning can be managed from this screen in the portal. It allows an administrator to see the users of applications and manage their authorization (Roles).

The screenshot displays the ONAP Portal interface for User/Role Management. The top navigation bar includes the ONAP Portal logo, 'Manage', 'Support', and a search bar with the text 'What are you looking for:'. The left sidebar contains a menu with items: Home, Application Catalog, Widget Catalog, Admins, Roles, Users (selected), Portal Admins, Application Onboarding, Widget Onboarding, and Edit Functional Menu. The main content area is titled 'Users' and features a 'Select Application' dropdown set to 'Default' and a search bar with the text 'Search in entire table'. There are two buttons: 'Add' and 'Bulk Upload'. Below these is a table with the following data:

First Name	Last Name	User ID	Roles
Demo	User	demo	System_Administrator Account Administrator
vid1	user	vid1	Account Administrator

At the bottom of the table, there is a pagination control showing 'Items per page: 10' and '1 - 2 of 2'. A 'Close' button is located on the right side of the table. The right sidebar shows 'Online Users' and a user profile for 'demo'.

# ONAP Portal SDK RAPTOR

SDK RAPTOR provides a web based-engine to build various reports including Linear and Dashboard.

Portal SDK Demo ▾

## Report Search

Search Report:

Report Id	Report Name	Description	Report Owner	Create Date	Copy	Edit	Delete	Schedule	Run
11	cvxcvxt	xvxcvxt	Demo User	09/11/2020					
1	Demo Report - chart	this report show chart config	Demo User	09/25/2019					
4	Demo Report - Dashboard type	Compose several sub-reports into one view. Drag report from Data section and Chart section.	Demo User	05/06/2020					
2	Demo Report - drilldown with formfield	Demo Report - drilldown with formfield	Demo User	09/25/2019					
3	Demo Report - parent	this report show how many users for each ROLE. click Counts number to see USER details	Demo User	12/06/2019					
9	tsdtds	dsdtds	Demo User	09/11/2020					
12	sdtdsf	dsdtdsf	Demo User	09/11/2020					
7	TEST	TEST	Demo User	08/13/2020					

# ONAP Portal SDK – Report

## Sample Report



# ONAP Portal SDK – Profile Search

**Profile Search:** Search/manage user's profile. It gives us the capabilities to edit or activate/in-activate the profile.

Portal SDK Demo ▾

## « Profile Search

Search in entire table

User ID	Last Name	First Name	Email	Org User ID	Org Manager User ID	Edit	Active?
1	User	Demo	demo@email.com	demo			

Items per page: 5 ▾ 1 - 1 of 1 < >

# ONAP Portal SDK – Self Profile Management

**Self-Profile Management:** Manage self-profile. It allows editing of any information related to user's own profile.

Portal SDK Demo ▾

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« Self Profile Detail

Please edit the profile details below:

*Last Name	*First Name	Organization User ID	Organization Manager ID
<input type="text" value="User"/>	<input type="text" value="Demo"/>	<input type="text" value="demo"/>	<input type="text"/>
Login Id	Password	*Phone	Fax
<input type="text" value="demo"/>	<input type="text" value="demo"/>	<input type="text"/>	<input type="text"/>
Cellular	*Email	Address 1	Address 2
<input type="text"/>	<input type="text" value="demo@email.com"/>	<input type="text"/>	<input type="text"/>
City	States	Zip Code	Country
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
TimeZones			
<input type="text"/>			



# ONAP Portal SDK – Role and Roles Function Management

**Role and Roles Function Management:** This is used to manage User's Roles and Role Functions for non-centralized applications.

Portal SDK Demo

Roles

Search in entire table Add New Role

Name	Priority	Edit	Active?	Delete?
Standard User	5		<input checked="" type="checkbox"/>	
System Administrator	1		<input checked="" type="checkbox"/>	

[Manage Role Functions](#)

Items per page: 1-2 of 2

Portal SDK Demo

Role Functions

Search in entire table Add

Name	Code	Type	Action	Edit	Delete
Admin Menu	menu_admin	menu			
Ajax Menu	menu_ajax	menu			
Big Data Function	quantum_bd	url			
CONCEPT	menu_concept	menu			
Customer Create	menu_customer_create	menu			

Items per page: 1-5 of 58



Thank you!