

Creating a Licensing Model

- [Roles in the Onboarding and Distribution Workflow](#)
- [Creating a License Model](#)

This tutorial covers using the ONAP portal to onboard and distribute a prebuilt virtual network function, in this specific case, a firewall application which will throttle traffic through the ports it controls if the bandwidth being consumed goes above a certain threshold, and then open up the ports when traffic moderates below a "low tide" value.

The actual design of the virtual service using the Design Studio will be covered in a future tutorial.

Note that the ONAP Portal's SDC subsystem does not work correctly in the OS X Safari browser.

Roles in the Onboarding and Distribution Workflow

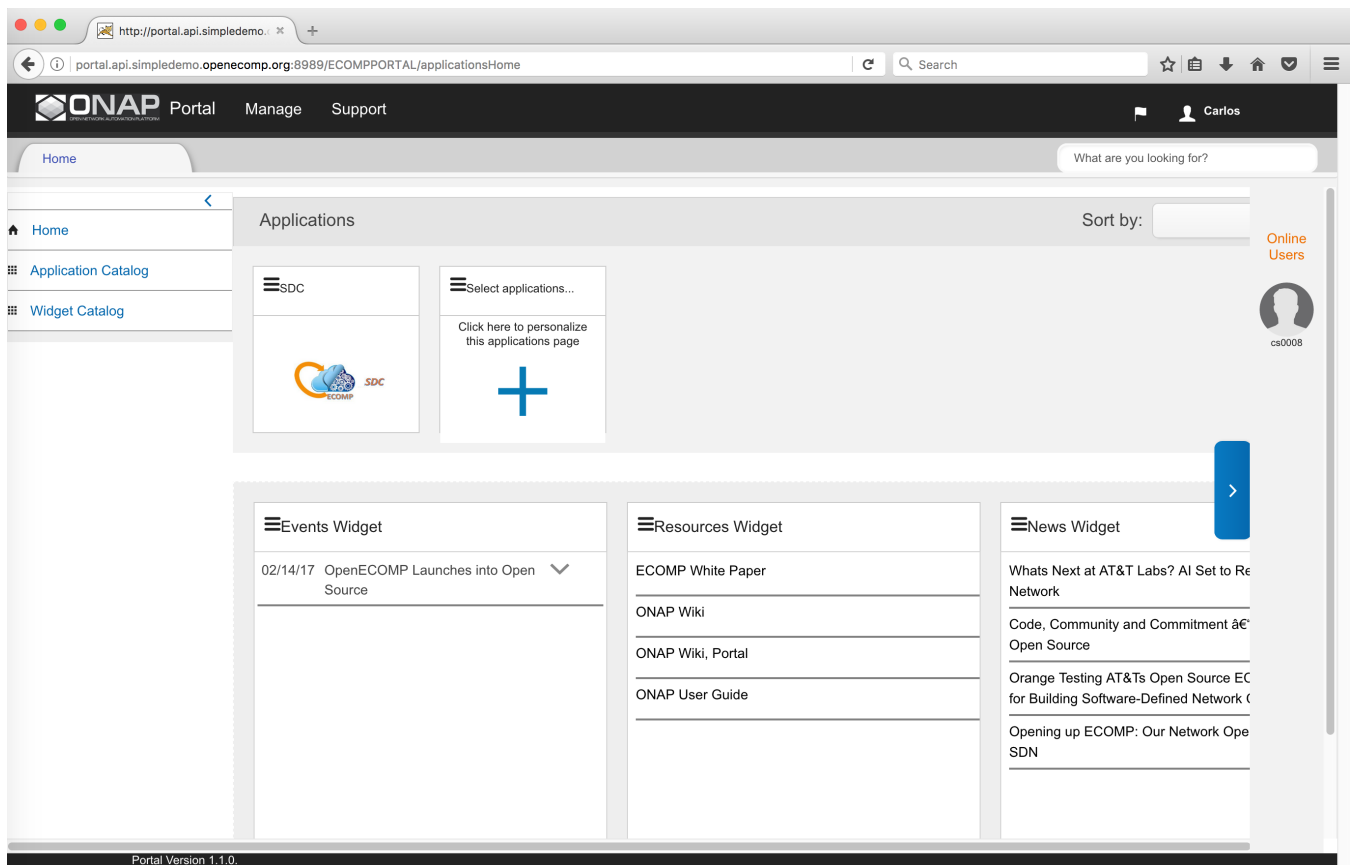
Typically, the workflow involved in designing, onboarding, and distributing a virtual service is compartmentalized, and through the course of this tutorial, we will be dividing the work up among four sample "users" included in the based ONAP environment by default:

- `cs0008`: the "Designer" role, responsible for the design and configuration of the service
- `jm0007`: the "Tester" role, responsible for testing a proposed distribution and approving or rejecting it
- `gv0001`: the "Governor" role, responsible for approve the actual distribution of a virtual service
- `op0001`: the "Ops" role, responsible for performing the actual distribution of an approve virtual service

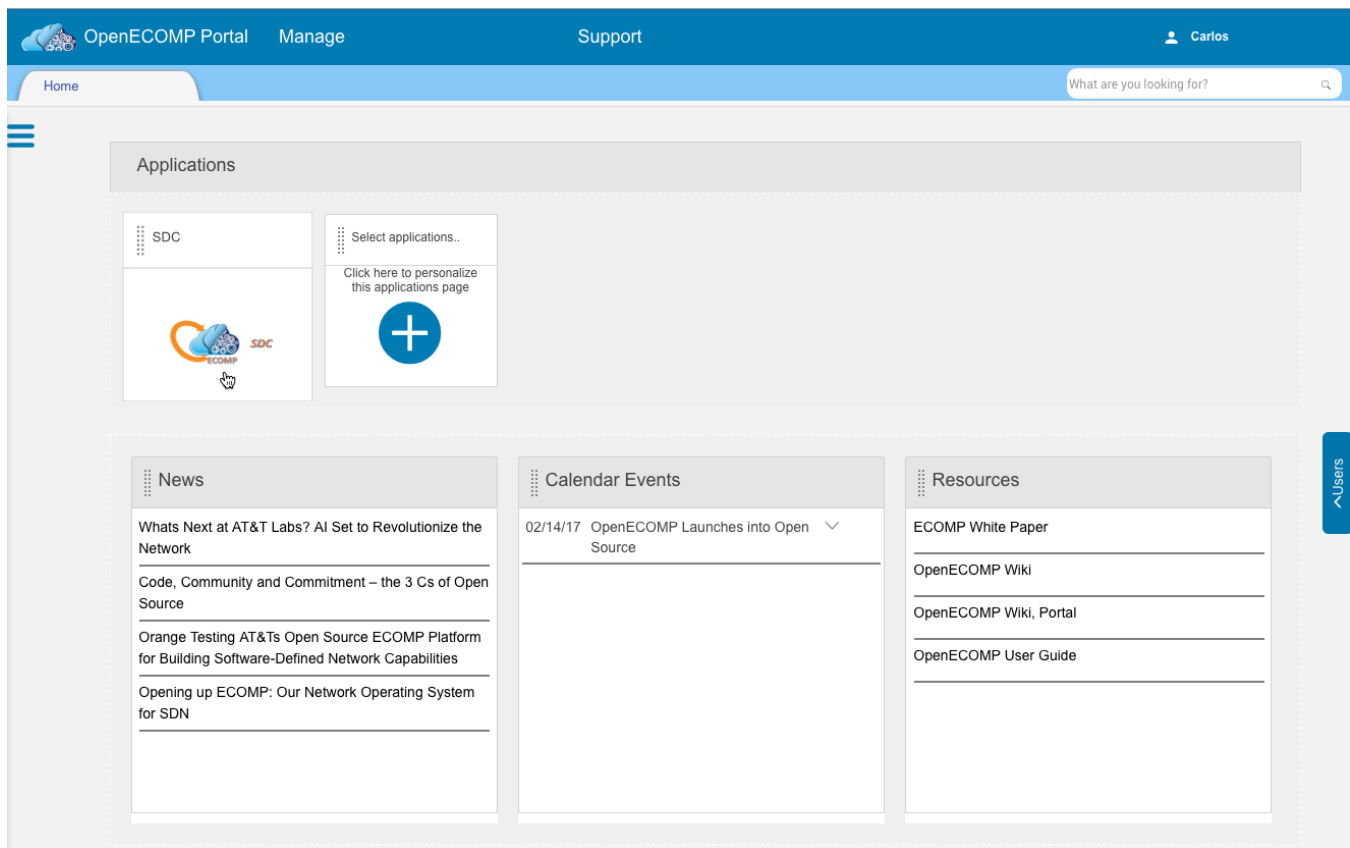
All of these user IDs share the same password, `demo123456!`

For the first steps, we will log into the ONAP Portal as our Designer, `cs0008`. The home screen will be similar to what we saw in the previous tutorial. All the next steps will be under the designer until mentioned otherwise. Click on the SDC icon.

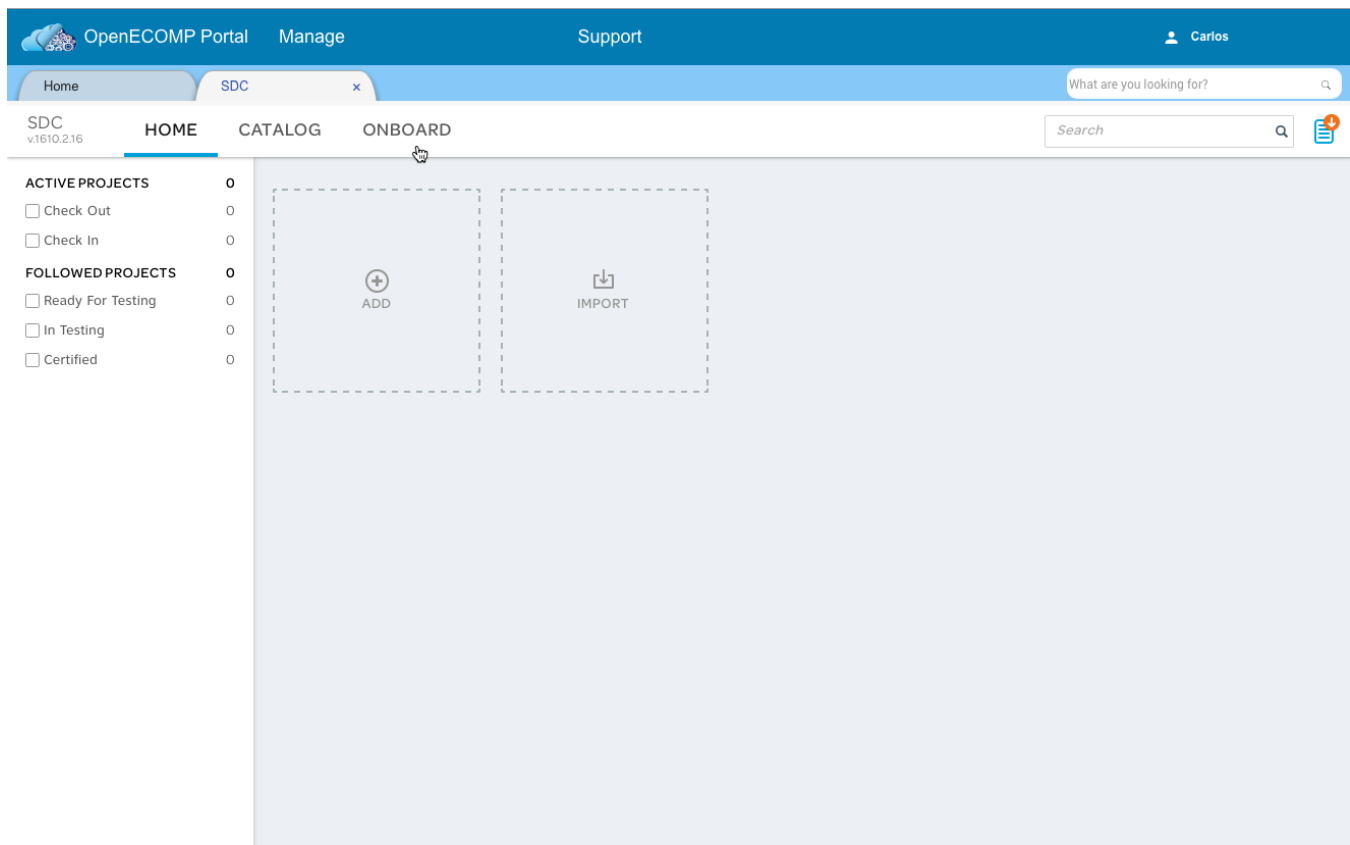
1.1



1.0



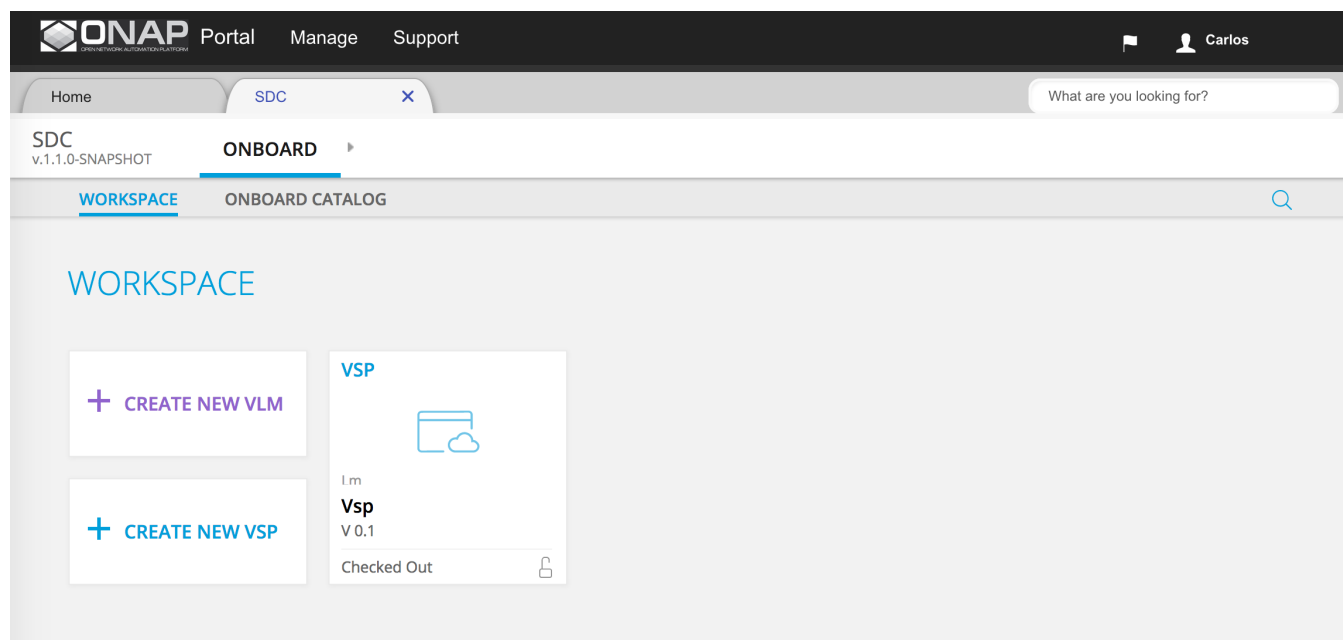
This will log you into the SDC and open its home page in a new tab. Click on "Onboard".



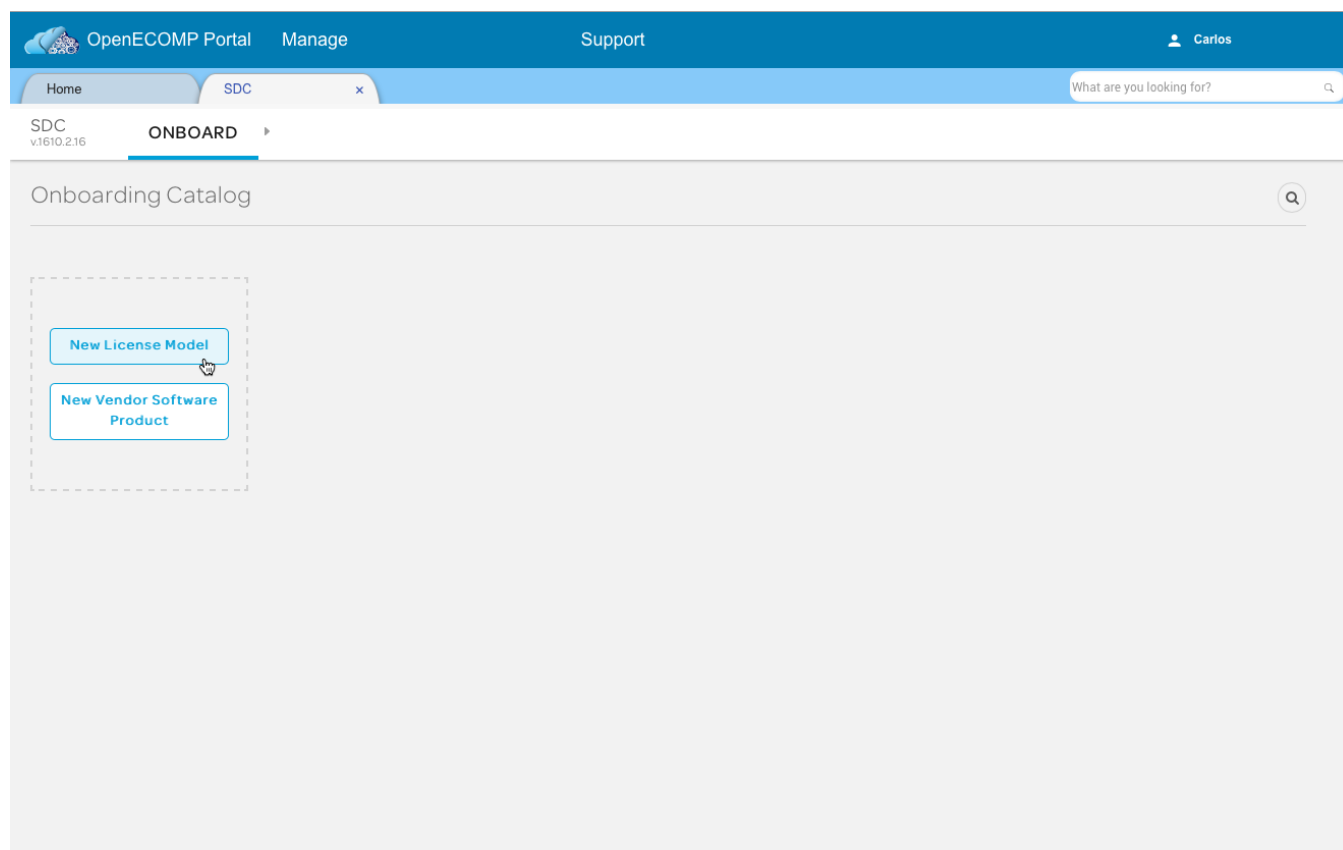
Creating a License Model

This takes you to the (currently empty) onboarding catalog. When you hover over the gray "Add" box with the plus button, two new buttons will appear: "New License Model" and "New Vendor Software Product". We need to create a license model for our distribution first, so click on the "Create New VLM" in 1.1 or "New License Model" button in 1.0:

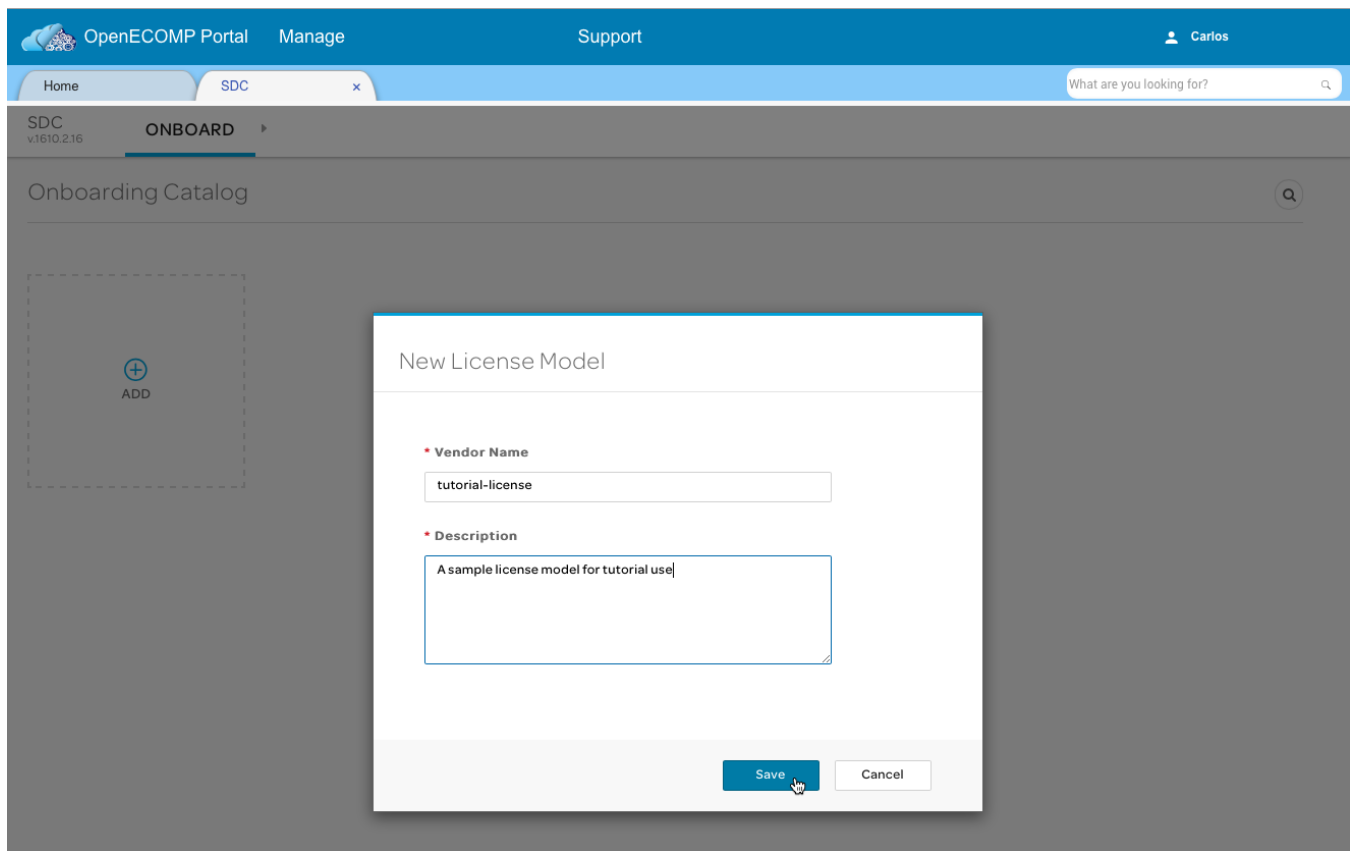
1.1



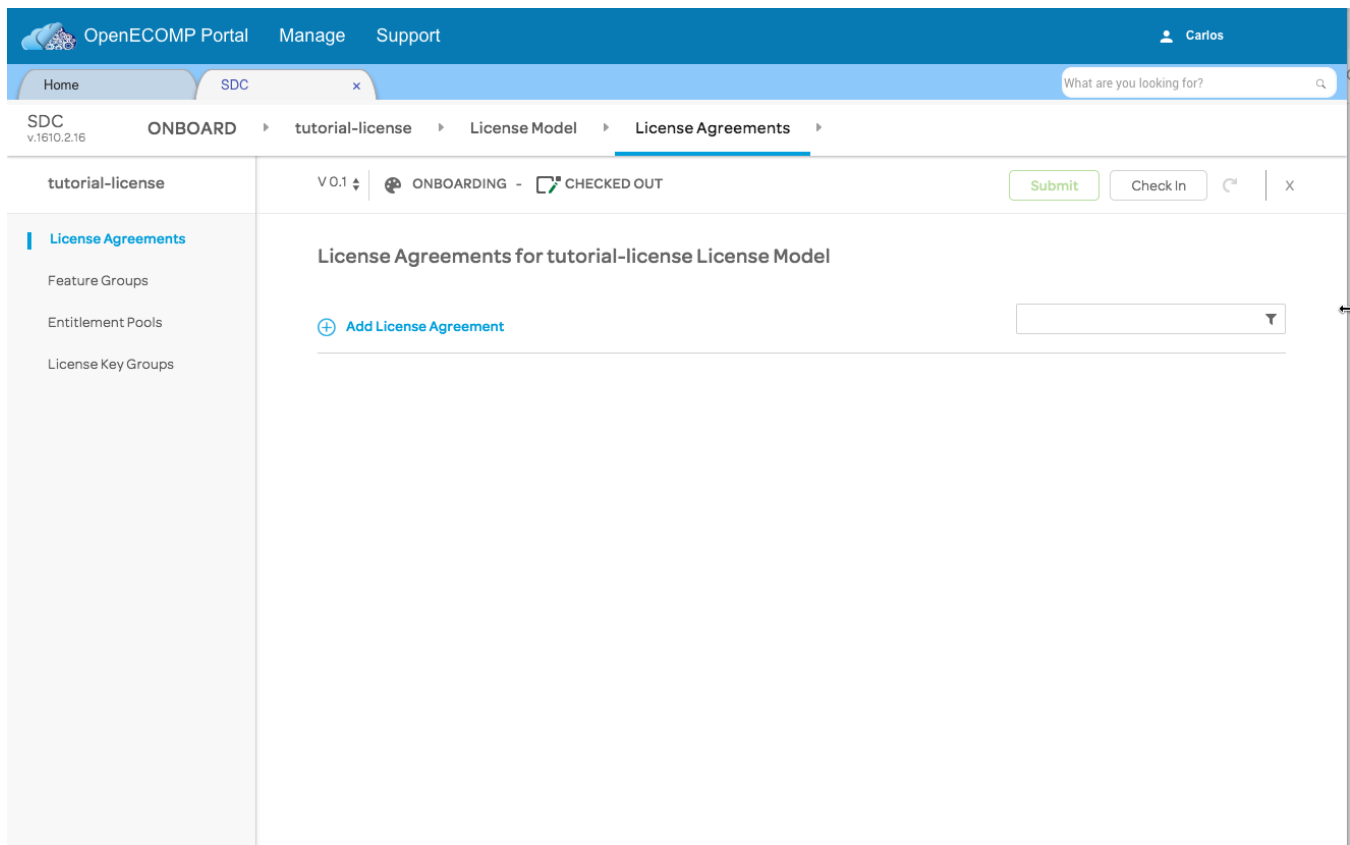
1.0



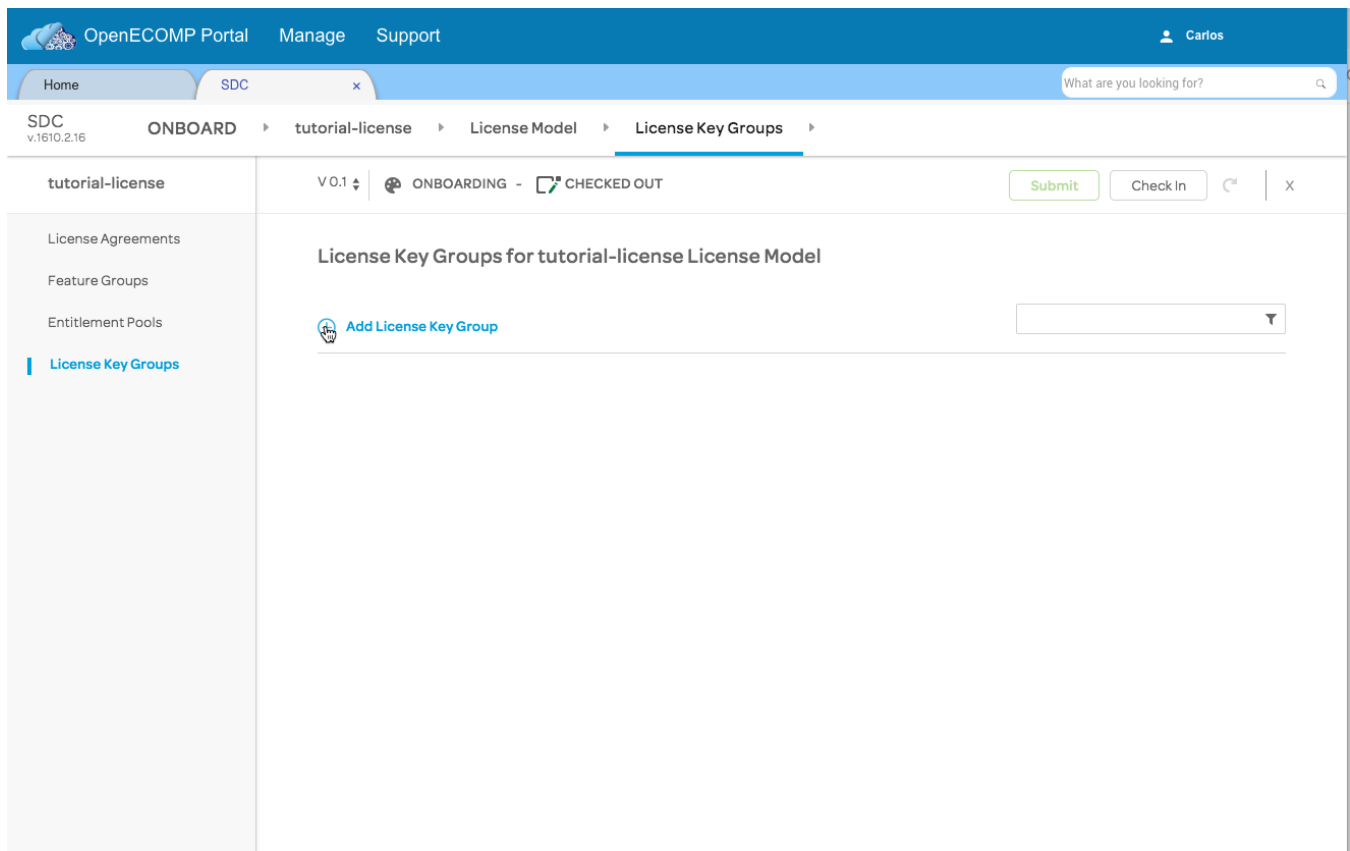
A pop-up dialog will appear, as shown below. Both fields are required, the "Vendor Name" is used for identification purposes as we proceed. Fill in the form and click the "Save" button.



This takes us to the configuration page for the license model we're creating. We'll start by clicking on the "License Key Groups" link in the left-hand sidebar.



Click on "Add license key group".



Fill in the "Vendor Name" and "Description" fields, select "Network-wide" from the "Operation Scope" pop-up

The screenshot shows the 'Create New License Key Group' form. It has two main sections: 'Name' and 'Description'. The 'Name' field contains 'tutorial license key group'. The 'Description' field contains 'Tutorial sample'. To the right, the 'Operational Scope' dropdown menu is open, showing options: 'Select...', 'Network Wide' (highlighted with a mouse cursor), 'Availability Zone', 'Data Center', 'Tenant', 'VM', and 'CPU'. At the bottom right, there are 'Save' and 'Cancel' buttons.

Select "Universal" from the "Type" pop-up. Click on "Save".

Create New License Key Group

* Name

tutorial license key group

* Operational Scope

x Network Wide

* Description

Tutorial sample

* Type

✓ please select...
Universal
Unique
One Time

Save

Cancel

The new license key group will be displayed. Click on the "Entitlement Pools" link in the sidebar.

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SDC

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SDC
v.1610.2.16

ONBOARD

tutorial-license

License Model

License Key Groups

tutorial-license

License Agreements

Feature Groups

Entitlement Pools

License Key Groups

V 0.1

ONBOARDING

CHECKED OUT

Submit

Check In

X

License Key Groups for tutorial-license License Model

+ Add License Key Group

Name	Operational Scope	Description
tutorial license key group	Network Wide Type Universal	Tutorial sample

Click on "Add entitlement pool".

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Home

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tutorial-license

License Model

Entitlement Pools

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Feature Groups

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License Key Groups

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CHECKED OUT

Submit

Check In

X

Entitlement Pools for tutorial-license License Model

Add Entitlement Pool

A dialog for configuring the entitlement pool now appears. Fill in the "Name", "Description", and "Manufacturer's Reference Number" values; again, these are used purely for identification. The "Increments" box can be left blank.

There are a number of configuration parameters available on the right side of the form, and a fuller discussion of those can be found in the "ONAP User Guide". For the purposes of this tutorial, we're again choosing "Network-wide" as the "Operational Scope", an "Absolute" threshold of 100, "CPU" entitlement metric, an aggregation function of "Other" with a value of "tbd", and a time value of "Month".

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SDC v.1610.2.16ONBOARDtutorial-licenseLicense ModelEntitlement Pools

tutorial-license

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Feature Groups

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License Key Groups

Create New Entitlement Pool

Name

tutorial entitlement pool

Operational Scope

Network Wide

Description

Tutorial sample

Threshold Value

Absolute

100

Entitlement Metric

CPU

Aggregate Function

Other

tbd

Manufacturer Reference Number

000001

Time

Month

Increments

Save

Cancel

Save the new entitlement pool, and click on the "Feature Groups" link in the sidebar.

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SDC v.1610.2.16ONBOARD tutorial-license License Model Entitlement Pools

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Feature Groups

Entitlement Pools

License Key Groups

V 0.1 ONBOARDING - CHECKED OUT

SubmitCheck In

Entitlement Pools for tutorial-license License Model

+ Add Entitlement Pool

Name	Entitlement	Manufacturer Reference Number	Description
tutorial entitlement pool	tbd CPU per Month 100	000001	Tutorial sample

Click on "Add Feature Group".

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Manage

Support

Carlos

Home

SDC

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SDC
v.1610.2.16

ONBOARD

tutorial-license

License Model

Feature Groups

tutorial-license

License Agreements

Feature Groups

Entitlement Pools

License Key Groups

V 0.1

ONBOARDING

CHECKED OUT

Submit

Check In

X

Feature Groups for tutorial-license License Model

Add Feature Group

Fill in a name, a description, and a manufacturer's part number. Then click on "Entitlement Pools" in the top bar of the dialog.

Create New Feature Group

GENERAL

ENTITLEMENT POOLS

LICENSE KEY GROUPS

* Name

tutorial feature group

* Description

Tutorial sample

* Part Number

123456

Save

Cancel

Click on "Available entitlement pools".

Create New Feature Group

GENERAL

ENTITLEMENT POOLS

LICENSE KEY GROUPS

Associated Entitlement Pools

Available Entitlement Pools

There are currently no entitlement pools associated with this feature group. Click "Available Entitlement Pools" to associate.

Save

Cancel

Select the entitlement pool we created, and use the right-facing arrow icon to move it over to the "Selected Entitlement Pools" list on the right. Next, click on "License Key Groups" in the top bar.

Create New Feature Group

GENERAL

ENTITLEMENT POOLS

LICENSE KEY GROUPS

Associated Entitlement Pools

Available Entitlement Pools

Available Entitlement Pools

Selected Entitlement Pools

>

<

>>

<<

tutorial entitlement pool

Save

Cancel

Click on "Available license key groups".

Create New Feature Group

GENERAL

ENTITLEMENT POOLS

LICENSE KEY GROUPS

Associated License Key Groups

Available License Key Groups

There are currently no license key groups associated with this feature group. Click "Available License Key Groups" to associate.

Save

Cancel

In the same way, select the license key group we created from the list of available ones on the left and use the right arrow icon to move it to the "Selected License Key Groups" list on the right. Click "Save".

Create New Feature Group

GENERAL

ENTITLEMENT POOLS

LICENSE KEY GROUPS

Associated License Key Groups

Available License Key Groups

Available License Key Groups



Selected License Key Groups



tutorial license key group

Save

Cancel

Our Feature Group has been created. Click on the "License Agreements" link in the side bar.

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Manage

Support

Carlos

Home

SDC

What are you looking for?

SDC
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ONBOARD

tutorial-license

License Model

Feature Groups

tutorial-license

License Agreements

Feature Groups

Entitlement Pools

License Key Groups

V 0.1

ONBOARDING

CHECKED OUT

Submit

Check In

X

Feature Groups for tutorial-license License Model

+ Add Feature Group

Name	Entitlement Pools	License key Groups	Description
tutorial feature group	1	1	Tutorial sample

Click on "Add license agreement".

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Manage

Support

Carlos

Home

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What are you looking for?

SDC
v.1610.2.16

ONBOARD

tutorial-license

License Model

License Agreements

tutorial-license

V 0.1

ONBOARDING

CHECKED OUT

Submit

Check In

X

License Agreements

Feature Groups

Entitlement Pools

License Key Groups

License Agreements for tutorial-license License Model

Add License Agreement

Fill in the resulting form. We've chosen "Unlimited" for the terms of the license. Click on "Feature Groups" in the top bar.

Create New License Agreement

GENERAL

FEATURE GROUPS

* Name

tutorial lic. agreement



* Description

Tutorial sample

Requirements and Constraints

None

* License Term

Unlimited



Save

Cancel

Select the "tutorial feature group" we created from the list of available feature groups and use the right-arrow icon to move it to the list of "Selected Feature Groups". Click on "Save".

Create New License Agreement

GENERAL

FEATURE GROUPS

Associated Feature Groups

Available Feature Groups

Available Feature Groups

tutorial feature group



Selected Feature Groups

Save

Cancel

Now, use the "Check In" button to check in our new license model.

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Manage

Support

Carlos

Home

SDC

What are you looking for?

SDC
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ONBOARD

tutorial-license

License Model

License Agreements

tutorial-license

V 0.1

ONBOARDING

CHECKED OUT

Submit

Check In

X

License Agreements

Feature Groups

Entitlement Pools

License Key Groups

License Agreements for tutorial-license License Model

+ Add License Agreement

Name	Type	Feature Groups	Description
tutorial lic. agreement	Unlimited	1	Tutorial sample

The "Check In" button will change to read "Check Out", and the "Submit" button will become active. Click on "Submit".

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Manage

Support

Carlos

Home

SDC

What are you looking for?

SDC
v.1610.2.16

ONBOARD

tutorial-license

License Model

License Agreements

tutorial-license

V 0.1

ONBOARDING - CHECKED IN

Submit

Check Out

X

License Agreements

Feature Groups

Entitlement Pools

License Key Groups

License Agreements for tutorial-license License Model

+

 Add License Agreement

Name	Type	Feature Groups	Description
tutorial lic. agreement	Unlimited	1	Tutorial sample

An alert will briefly appear to confirm that the license has been successfully submitted. We can now create a new vendor software product (VSP) for onboarding and distribution.

Click the "Onboard" link in the breadcrumb trail under the SDC tab to return to the onboarding catalog (where our new license is showing, now with a version number of 1.0).



Onboarding Catalog



ADD

L



tutorial-license

V1.0