



FUNCTIONAL LEARNING DEMO

User Permissions Management

Introduction to ECXF Permissions Management

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Hi, I'm **Suveer Dhamejani** and I'm an Equinix Principal Product Manager and I'm part of Equinix's Interconnection Product Management team. In this video I'm going to demonstrate how a Master Administrator of an organization can manage user and resource privileges, for the Equinix Cloud Exchange Fabric or ECXF.

User permissions are managed in the Equinix Customer Portal. As a Master Administrator, I can set a range of privileges from this portal for any of the users in my organization. As you can see, I've logged into this portal as a Master Administrator and have selected a user in my organization, whose privileges I am looking to manage.

The screenshot shows the Equinix Customer Portal interface for managing user permissions. The breadcrumb trail is: Orders & Tickets > Operations > Network Management > Reports > Administration > Support. The user profile for Jane Smith is selected, and the 'Permissions' tab is active. Under 'ECX Fabric & Network Edge', there are checkboxes for 'This user has ECX Fabric portal access' and 'Include Network Edge Features'. Below this, there are two sections: 'ECX Fabric Portal' and 'Network Edge'. The 'ECX Fabric Portal' section has a step indicator '1 Select Port(s)'. The 'Network Edge' section has a step indicator '2 Select Virtual Resource Permissions'. The 'Select Port(s)' section contains a table with columns: Ports, IBX, Port, View Ports and Virtual Resources, and Place connections and service orders. The table lists several ports: London, Amsterdam, Geneva, Tokyo, Osaka, and Melbourne. Each row has checkboxes for 'All Future Ports' under both the 'View Ports and Virtual Resources' and 'Place connections and service orders' columns. At the bottom, there are 'Cancel', 'Back', and 'Submit' buttons. A timestamp at the bottom reads: 'Last modified by: ***** Aug/16/2020 (GMT+04:30) Afghanistan Time - Kabul, Asia'.

| Ports | IBX | Port | View Ports and Virtual Resources | Place connections and service orders |
|------------|-----|-----------|---|---|
| Select All | | | | |
| > | | London | <input type="checkbox"/> All Future Ports | <input type="checkbox"/> All Future Ports |
| > | | Amsterdam | <input type="checkbox"/> | <input type="checkbox"/> |
| > | | Geneva | <input type="checkbox"/> | <input type="checkbox"/> |
| > | | Tokyo | <input type="checkbox"/> | <input type="checkbox"/> |
| > | | Osaka | <input type="checkbox"/> | <input type="checkbox"/> |
| > | | Melbourne | <input type="checkbox"/> | <input type="checkbox"/> |



INTRODUCTION TO ECXF PERMISSIONS MANAGEMENT

EQUINIX

I can grant this user access to the very basic permission that grants access to the ECX Fabric portal by checking this box. As you can see, this action automatically enables the Network Edge functionality as well.

Manage Users() > Modify Users
Jane Smith - User

Profile | **Permissions** | Notification Preferences | Share

ECX Fabric & Network Edge
✔ This user has ECX Fabric portal access
Provides access to the ECX Fabric portal.
✔ Include Network Edge Features

ECX Fabric Portal | Network Edge

1 Select Port(s) | 2 Select Virtual Resource Permissions

Select Port(s)

| Ports | | IBX | Port | View Ports and Virtual Resources | Place connections and service orders |
|-------------------------------------|--|------------|------|---|---|
| Expand all IBXs Collapse all IBXs | | | | <input type="checkbox"/> All Future Ports | <input type="checkbox"/> All Future Ports |
| | | Select All | | <input type="checkbox"/> | <input type="checkbox"/> |
| > | | London | | <input type="checkbox"/> | <input type="checkbox"/> |
| > | | Amsterdam | | <input type="checkbox"/> | <input type="checkbox"/> |
| > | | Geneva | | <input type="checkbox"/> | <input type="checkbox"/> |
| > | | Tokyo | | <input type="checkbox"/> | <input type="checkbox"/> |
| > | | Osaka | | <input type="checkbox"/> | <input type="checkbox"/> |
| > | | Melbourne | | <input type="checkbox"/> | <input type="checkbox"/> |

Cancel | Back | Last modified by: ***** Aug/16/2020 (GMT+04:30) Afghanistan Time - Kabul, Asia | Submit

If you wish to disable this, simply uncheck this box.

Manage Users() > Modify Users
Jane Smith - User

Profile | **Permissions** | Notification Preferences | Share

ECX Fabric & Network Edge
✔ This user has ECX Fabric portal access
Provides access to the ECX Fabric portal.
 Include Network Edge Features

ECX Fabric Portal | Network Edge

1 Select Port(s) | 2 Select Virtual Resource Permissions

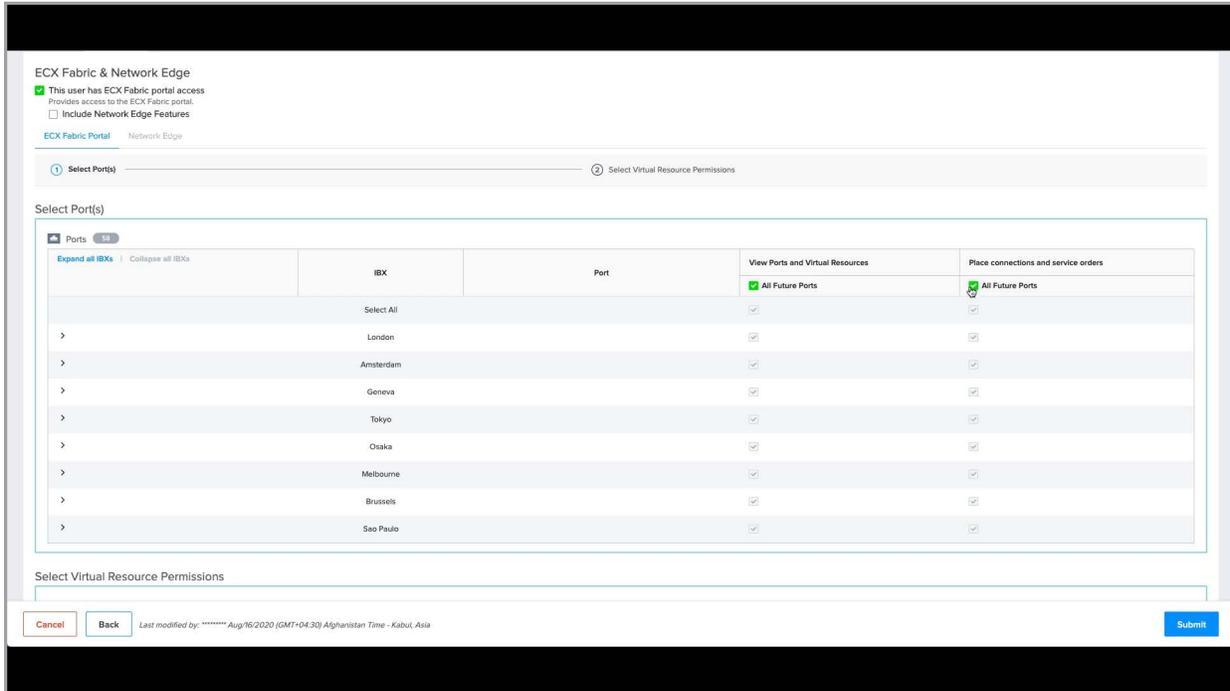
Select Port(s)

| Ports | | IBX | Port | View Ports and Virtual Resources | Place connections and service orders |
|-------------------------------------|--|------------|------|---|---|
| Expand all IBXs Collapse all IBXs | | | | <input type="checkbox"/> All Future Ports | <input type="checkbox"/> All Future Ports |
| | | Select All | | <input type="checkbox"/> | <input type="checkbox"/> |
| > | | London | | <input type="checkbox"/> | <input type="checkbox"/> |
| > | | Amsterdam | | <input type="checkbox"/> | <input type="checkbox"/> |
| > | | Geneva | | <input type="checkbox"/> | <input type="checkbox"/> |
| > | | Tokyo | | <input type="checkbox"/> | <input type="checkbox"/> |
| > | | Osaka | | <input type="checkbox"/> | <input type="checkbox"/> |
| > | | Melbourne | | <input type="checkbox"/> | <input type="checkbox"/> |

Cancel | Back | Last modified by: ***** Aug/16/2020 (GMT+04:30) Afghanistan Time - Kabul, Asia | Submit



If I stop here, this user would only be able to login to the ECXF portal and see the home page, but would not be able to perform any other actions, including viewing any ports owned by the Organization. If I want to grant the user the ability to view ports, I can do so by checking off individual ports per Metro, or I can select all of them simultaneously as seen here. I can further extend this permission to apply to all future ports as well.



If I stop here, this user will only be able to view the ports that they have been provided access to, but not be able to perform any other action on these assets. If I want the user to have additional permissions beyond just viewing ports, I can enable these under the Place Connections and Service Orders category. As before, I can do this on individual ports per Metro, or I can select all of them simultaneously by clicking in the Select All box. I can also choose to extend this permission to apply to all future ports as well.



At this point this user has been given the ability to perform all actions on all of the ports, including viewing, creating, deleting, and modifying any virtual resource on any port. The term Virtual Resource refers to virtual assets like a Layer 2 Virtual connection to a Cloud Service Provider, or a Service Profile if you are offering a service, or a Layer 3 Routing Instance, for example, all of which can be created on an ECXF port.

| | View | Modify | Create | Delete |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Layer 2 Connections | | | | |
| Charges will apply to Layer 2 Connections. | | | | |
| To grant the user permission to Connect to Self (in addition to connect to CSP), set the view permission for L2 service profiles when setting permissions to create, modify or delete L2 Connections. | | | | |
| Grant All Permissions: <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Layer 2 Connections | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Layer 3 Connections | | | | |
| Charges will apply to Subscriptions. | | | | |
| To grant the user permission to Connect to Self (in addition to connect to CSP), set the view permission for L2 service profiles when setting permissions to create, modify or delete L2 Connections. | | | | |
| Grant All Permissions: <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Subscriptions | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Connectors and routing instances | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Service Profile | | | | |
| To grant the user permission to Connect to Self (in addition to connect to CSP), set the view permission for L2 service profiles when setting permissions to create, modify or delete L2 Connections. | | | | |
| Grant All Permissions: <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Layer 2 Service Profiles | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Layer 3 Service Profiles | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

If you want to be more granular and restrict this user to specific actions on specific virtual resources on these ports, you can manage these by scrolling down to the Virtual Resource Permissions section.

Here, you have the ability to set any combination of Create, Delete, Modify and View permissions for the user, on the virtual resources shown here individually.

For example, if I want to limit this user's ability to only creating and modifying Layer 2 connections on the ports above, I can do this by unchecking each of the Virtual Resource permissions and only enabling the Modify and Create checkboxes within the layer 2 connections category.

Select Virtual Resource Permissions

Changes to the following permissions will apply to the user's port permission

Connection

Layer 2 Connections

Changes will apply to Layer 2 Connections.

1 To grant the user permission to Connect to Self (in addition to connect to CSP), set the view permission for L2 service profiles when setting permissions to create, modify or delete L2 Connections.

| | View | Modify | Create | Delete |
|---|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| Grant All Permissions: <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Layer 2 Connections | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Layer 3 Connections

Changes will apply to Subscriptions.

| | View | Modify | Create | Delete |
|---|--------------------------|--------------------------|--------------------------|--------------------------|
| Grant All Permissions: <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Subscriptions | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Connectors and routing instances | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

2 To grant the user permissions for subscriptions, the same permissions must be granted for connectors and routing instances. The reverse is not required.

3 Service Profile

| | View | Modify | Create | Delete |
|---|--------------------------|--------------------------|--------------------------|--------------------------|
| Grant All Permissions: <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Layer 2 Service Profiles | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Layer 3 Service Profiles | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

4 To grant the user permissions for L3 service profiles, the same permissions must be granted for L3 connectors and L3 routing instances too. The reverse is not required.

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These privilege settings will be enforced for the user when they login to the ECXF and begin a new session. If your organization is setup as a Reseller with Equinix, you are able to manage privileges for your customer's users on some of the Virtual Resources in the capacity of a Reseller Master Administrator.

That concludes this demo. Thanks for watching!