



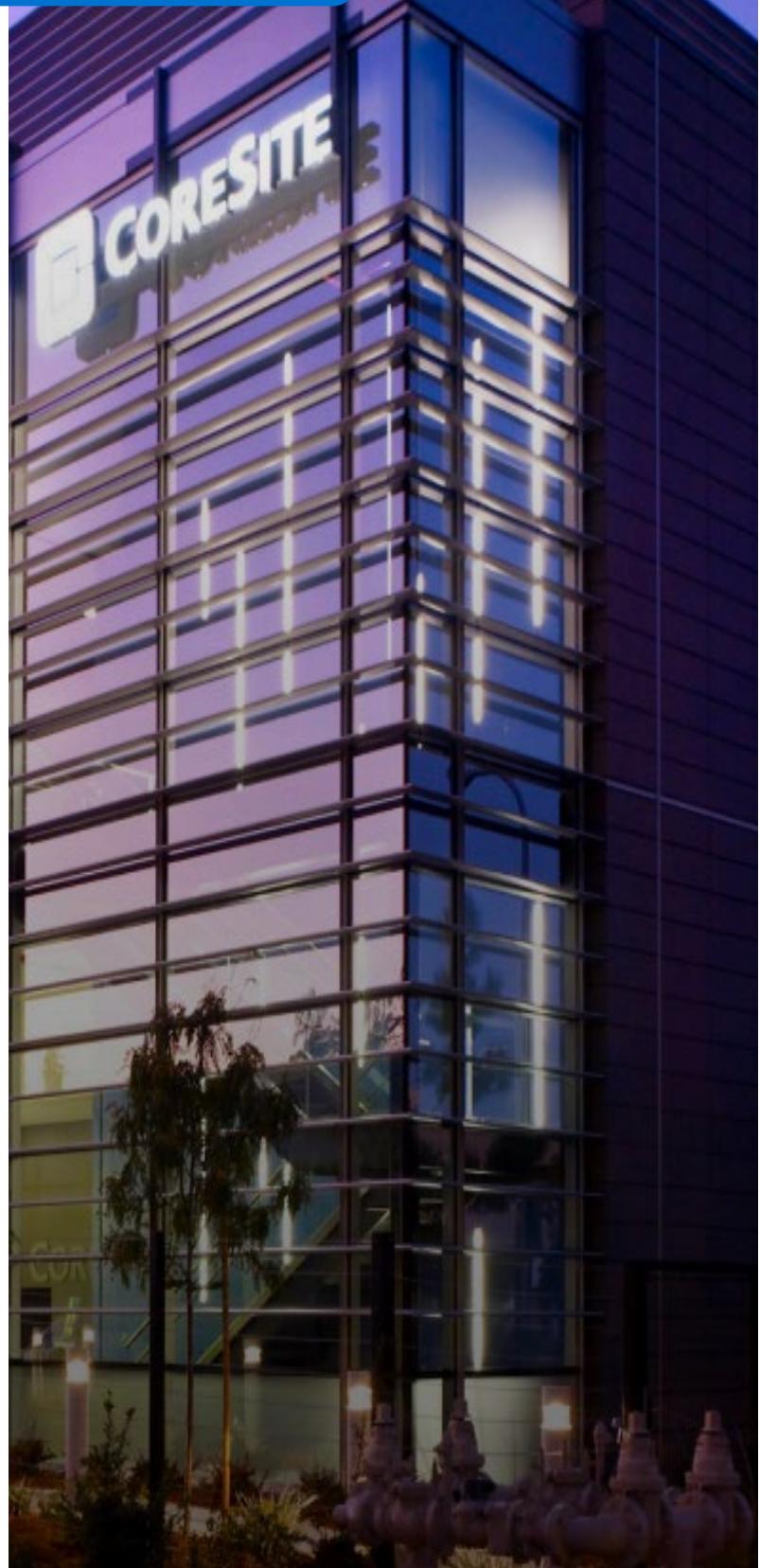
CORESITE

An American Tower Company

Open Cloud Exchange®: Buyer's Guide

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Where Digital Business Happens

The CoreSite Open Cloud Exchange® provides enterprise-class connectivity services enabling modern, agile, multi-cloud and networking solutions. With rapid, automated service provisioning for cloud-adjacent and data center connectivity, the Open Cloud Exchange® takes complexity out of diverse hybrid cloud and site-to-site interconnection. The results are accelerated modernization, expanded market reach, increased agility and reduced total cost of operation (TCO).





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Experience a Platform Built to Increase Revenue, Assurance and Agility at Lower Cost

The Open Cloud Exchange® is built for ease-of-use and real-time control. Customers can rapidly provision direct cloud interconnection and site-to-site connectivity services. Through the OCX in a CoreSite data center, enterprises, networks, IT services and cloud providers can do business “virtually” everywhere.



How it Works

The CoreSite Open Cloud Exchange® (OCX) works by providing a single port into our Layer 2 Ethernet switching platform, enabling private virtual connections (VLANs) to multiple service providers. Provisioning is done in real time through a private online service delivery platform.

Capabilities and Features of the Open Cloud Exchange®

CoreSite's OCX platform offers a variety of services to bridge your environment to other users and Service Providers.

SERVICES OFFERED ON THE OCX PLATFORM

Point-to-Point EVCs

Layer 2 Connectivity:	Provides ethernet based connectivity to any supported Cloud Service Provider.
Layer 3 Connectivity:	Provides IP based connectivity to any supported Cloud Service Provider.

Virtual Router Services

A software-based Router enabling Layer 3 IP services.

Open Cloud Exchange® Service Ports

Physical network interfaces that allow for data exchange between two networks.

FEATURES OFFERED ON THE OCX PLATFORM

1. Create private network connections to service providers, and other OCX participants.
2. Manage your network connections:
 - Disconnect connections;
 - Modify connections.
3. Monitoring information on network connections:
 - Currently only available for Layer 2 EVCs.

How it Works

Product Specifications

PHYSICAL UNIs (PORTS) SUPPORTED

4. 1G LX 1310nm SMF
5. 10G LR 1310 SMF
6. 100G LR4 1310 SMF

PROTECTION SCHEME AT PORT (LAG / LACP)

7. 2x1G LX or 2x10G LR
8. Dynamic (LACP) supported, manual not supported
9. Active / Active

MEF 10.2 COMPLIANT UNI TO UNI MODEL

500 EVCS SUPPORTED PER PORT

JUMBO FRAMES ON PORTS ARE SUPPORTED, MAX MTU IS 9100

EVPL / E-LINE SERVICE WITH VPLS TECHNOLOGY

10. Point-to-point (Unicast) service only

SINGLE CLASS OF SERVICE (COS) – REAL-TIME, COMMITTED INFORMATION RATE (CIR) ONLY

FRAME FORMAT CONFORMS TO IEEE 802.1 AND 802.3 STANDARDS

11. 802.1q supported, Q-in-Q not supported

EVC SERVICE TRANSPARENCY

12. Layer 3 Transparent (MEG Level 5, 6, and 7 transparently)
13. Eth-CFM Transparent (802.1ag / Y.1731 at customer MEG levels)

VLAN RANGE OF 400 – 899 SUPPORTED

PORT BANDWIDTHS

14. 1 Gbps
15. 10 Gbps
16. 100 Gbps

EVC BANDWIDTHS

17. 50 Mbps

How it Works

18. 100 Mbps

19. 500 Mbps

20. 1 Gbps

21. 5 Gbps

22. 10 Gbps

VIRTUAL ROUTER (VR) BANDWIDTHS

23. 50 Mbps

24. 100 Mbps

25. 500 Mbps

26. 1Gbps

27. 5 Gbps

28. 10 Gbps

Open Cloud Exchange® Partners

Today, the OCX supports the following partners:



Definitions and Terminology

ETHERNET VIRTUAL CONNECTION (EVC)

A Data link virtual connection bridging two network interfaces together to enable communication.

How it Works

LAYER

The data link layer in the 7-Layer Open Systems Interconnection (OSI) stack. Utilizes Ethernet based protocols and provides networks with the ability to send data packets via MAC addresses / Virtual Local Area Networks (VLANs).

LAYER 3

The network layer in the 7-Layer Open Systems Interconnection (OSI) stack. Utilizes IP based protocol and allows networks with the ability to route and forward data packets.

VIRTUAL ROUTER (VR)

Software replicating the functionality of a hardware-based Layer 3 Internet Protocol (IP) routing device.

PORT

These are physical interfaces in which traffic flows to and from the CoreSite infrastructure. In order to create an EVC, Customer's must have an active OCX Port.

NRC

Non-recurring charge.

MRC

Monthly recurring charge.

ORDER STATUS

Active:	This status indicates that your service has been successfully provisioned and available to use.
Disconnected:	This status indicates that your service has been successfully terminated and the correlating service is not available to use.
Cancelled:	This status indicates that your service has encountered issues during the automated provisioning process and that auto-provisioning efforts have ceased. The corresponding order / service will no longer proceed through the automation process.
Pending:	This status indicates that your service has entered the automated provisioning process. No action is required by users when an order is in this status.

How it Works

Pricing and Billing

Pricing is determined by the Service and the Service Rate (bandwidth) selected. CoreSite OCX services do not carry a term commitment and remain on a month-to-month basis until disconnected. Each service contains an NRC and an MRC component.

Billing commencement begins as soon as the automated provisioning is complete, and the order status is shown as "active".

Billing for services ceases as soon as a disconnect order is submitted for the service. The service does not need to show a status of "disconnected" for billing to terminate.

Pricing for services vary depending on the product as well as the service rate selected for each product.

Navigating through MyCoreSite Service Delivery Platform

USING THE CORESITE CUSTOMER SERVICE DELIVERY PLATFORM

The secure, reliable and efficient CoreSite customer service delivery platform, found at www.mycoresite.coresite.com, allows its customers to track current deployments, monitor existing services, order new services, and obtain personalized support 24/7. Available features on the platform include the following:

29. Trouble ticket services for 24/7 emergency support
30. Remote hands services for 24/7 non-emergent support
31. Monitor current and track historical power usage, humidity, and temperature via CoreInsite®
32. Service delivery platform access and permissions management
33. Emergent and non-emergent notification management
34. Interconnection, power and build out services ordering
35. Interconnections disconnect requests
36. The CoreSite Open Cloud Exchange® access
37. Any two-relationship management
38. Invoices and legal contracts
39. •Reports
 - Access history
 - Network usage

How it Works

- Order history for both active and inactive services
 - Current and historical power usage, humidity, and temperature
40. Scheduling of deliveries and equipment removal
41. Self-help support through CoreSite's Knowledge Base
42. Inquiry tracking
43. Certification documentation

ACCOUNT STRUCTURE

The CoreSite customer service delivery platform gives customers an account for each data center site in which they have existing cage or cabinet space and services in. This allows customers to set service delivery platform and access permissions for users at each building. For example, if Company XYZ deployed in CoreSite's LA1 and NY1 data centers, an administrator for Company XYZ can give John Doe service delivery platform access at LA1 but does not need to also offer access at NY1 because each data center location is a separate service delivery platform account.

However, any user with service delivery platform access to multiple accounts may view all accounts together by selecting "All Accounts" on the top left of the service delivery platform. Alternatively, he may choose to view each account individually. Keep in mind the following implications of this structure:

44. Each User Permission List is specific to a site / customer account. If an Administrator would like the user to have service delivery platform or physical access to multiple accounts, that user must be set up in the User Permission List for each account.
45. When looking for a specific Order ID, users should ensure that they are on the correct account page or have selected All Accounts.

HOMEPAGE

The service delivery platform homepage is designed to provide a quick overview of any open service and support Orders, and to highlight those which require customer attention or approval. The page is broken into multiple tabs to allow users to quickly navigate to a specific Order type. If you receive an email requesting your approval or to supply additional information, you should be able to locate the applicable order under the Action Required section.

Once you have identified the Order you would like to view, merely click on the hyperlinked Order ID. Case comments and details will be visible at that time.

MY ACCOUNT

The My Account tab provides a wide variety of customer specific information. Customers can set-up employees with specific physical and service delivery platform access levels, view historical long-term access logs, review invoices and legal contracts, as well as manage contacts for The CoreSite

How it Works

Open Cloud Exchange®. As some of this information can be sensitive in nature, Customers can determine who can view it.

LOGGING INTO THE CUSTOMER SERVICE DELIVERY PLATFORM

46. Go to the login page for the customer service delivery platform at www.MyCoreSite.coresite.com.

47. Enter your username and password:

- Username = email address;
- Password = preferred password.

Difficulty logging in?

If your password is not working, click the Forgot Password link. You will receive an email with a link to reset your password.

USER PERMISSIONS

The User Permissions page is designed to allow authorized users to manage access to the CoreSite Service delivery platform or physical access to the data center. Upon the initial creation of an account in the CoreSite Service delivery platform, CoreSite will set up one user with administrative access. This user then can add additional users and manage their permissions. An Administrator also can set up additional Administrators, thereby giving others the ability to add and manage new users.

MANAGING MYCORESITE.COM PERMISSIONS

Only individuals identified as an Account Administrator can manage service delivery platform preferences, physical access, and user lists. Non-administrators will not have the ability to view the User Permission List, but they may view their own permissions and a list of Account Administrators by clicking on their username on the top left of the service delivery platform. Users will have the ability to edit their contact information and reset their password. They will not have the ability to edit their permissions.

SETTING UP AN ACCOUNT ADMINISTRATOR

When an account is initially created, a CoreSite Customer Support Representative will set up the initial Account Administrator as requested by the customer. At that time, the Administrator can log in to the service delivery platform and modify or update service delivery platform preferences for other users. However, an Administrator is not allowed to modify his / her own permissions or remove himself / herself from the account. CoreSite or another Administrator on the account may do this on his / her behalf. Only an Account Administrator will be able to view all users. A user not identified as an Account Administrator will only see his / her profile information and the names of the Account Administrators on the account(s) to which he / she has access.

How it Works

TO SET UP A NEW USER

48. Log into the service delivery platform at www.mycoresite.coresite.com.
49. Under the My Account tab, click on User Permissions.
50. Click on the New Security Matrix Record icon on the right-hand side of the screen.
51. Enter the email address of the individual:
 - If the email already exists in the system, it will add the default contact information for that individual.
52. Add all the contact information details requested.
53. Select preferences for their service delivery platform access by checking the Web Access box:

Admin:	Checking this field gives the user all admin rights to the accounts.
End Customer:	Select this option if the user is an individual that you would prefer not view pricing information, legal documents, or invoices.
Access and Packages:	This field determines preferences for short-term access requests, package delivery Orders and equipment removal Orders.
Remote Hands and Trouble Tickets:	This field determines preferences for Remote Hands and Trouble Ticket Orders.
Orders and Inventory:	This field determines preferences about all products (build out services, power, and interconnection), reporting tools, the Any2 Relationship Manager, The CoreSite Open Cloud Exchange® Service delivery platform, and all active services.
Invoices and Legal Documents:	This field determines preferences with regard to invoices and legal documents.

54. Notification preferences allow users to determine if they would like to receive emergency notification and / or non-emergent notifications:

Emergent Notifications:	Notifications sent by CoreSite in the event of emergency maintenance or a potential event in the data center.
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How it Works

Non-Emergent Notifications:

Notifications sent by CoreSite regarding scheduled maintenance activity or general Order notifications.

- Other notifications not subject to these preferences may include requests for approval or additional information on active Orders, surveys, marketing communication, or direct customer communication.
55. Notes are available for any use by the Account Administrator, however adding a note will not generate any changes.

TO MODIFY PREFERENCES FOR AN EXISTING USER

56. Log in to the service delivery platform at www.mycoresite.coresite.com.
57. Under the My Account tab, click on User Permissions.
58. Select the user for whom you would like to edit preferences and click the Edit or Delete buttons on the left-hand side of the screen.

NOTE:

You may view the entire list of user permission details on this page, as well as grant or revoke physical access for each user.

ADDING CUSTOMERS OF RESELLERS TO THE USER PERMISSIONS LIST

Account Administrators may add individuals to the User Permission List to allow for service delivery platform and physical access while preventing them from viewing the following:

59. Pricing (MRCs and NRCs) on products and services.
60. Legal contracts.
61. Invoices.

To add a contact to the User Permission List with this limited functionality, be sure to check off the "remove ability to view pricing / contracts" radio dial box under the Web Access Details when setting the individual up with permissions.

Unless preferences are set to the contrary in the service delivery platform, these customers of resellers will be able to use the service delivery platform functionality in every other way, including but not limited to the following:

62. Act as Account Administrators by adding others to the User Permissions List. They will not be able to give access to pricing, legal documents, or invoices.

How it Works

63. Request any product CoreSite offers (without pricing specified).
64. Submit Trouble Tickets or Remote Hands requests.
65. Grant physical access to the space(s) to which the End Customer has access.
66. Contact CoreSite support directly.

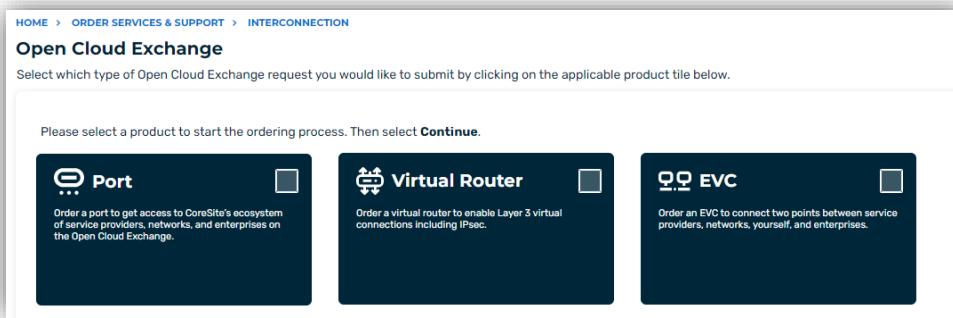
Ordering Services in the OCX

There are three services users may order through the OCX:

67. OCX Port
68. Virtual Router
69. EVC

To order these services, follow the steps below:

70. Navigate to the menu pane on the left-hand side of the screen.
71. Click "Order Services and Support".
72. Click "Open Cloud Exchange®".
73. Next select the service you wish to order and click the "continue" button.



HOME > ORDER SERVICES & SUPPORT > INTERCONNECTION

Open Cloud Exchange

Select which type of Open Cloud Exchange request you would like to submit by clicking on the applicable product tile below.

Please select a product to start the ordering process. Then select Continue.


Port

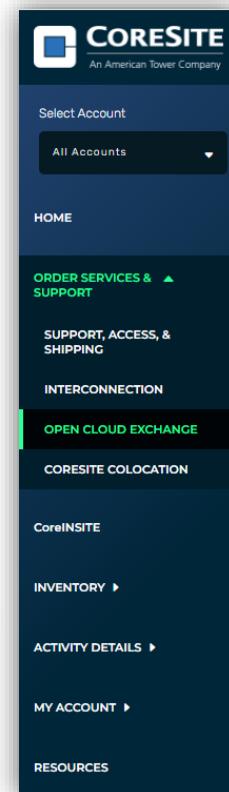
Order a port to get access to CoreSite's ecosystem of service providers, networks, and enterprises on the Open Cloud Exchange.


Virtual Router

Order a virtual router to enable Layer 3 virtual connections including IPsec.


EVC

Order an EVC to connect two points between service providers, networks, yourself, and enterprises.



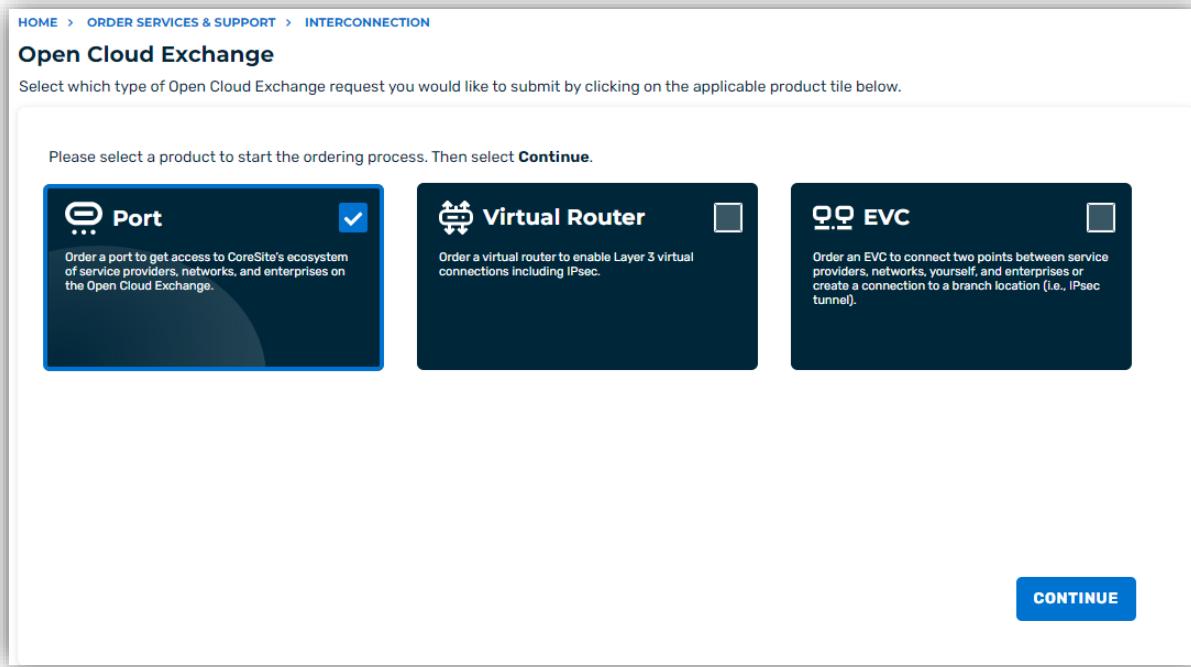
How to Order a Port

NAVIGATING TO THE PORT ORDER FORM

74. Follow Steps 1 to 4 in the "ordering OCX services" section to navigate to the Port ordering page.

How it Works

75. Click on the "Port" tile and click "continue".



The screenshot shows the CoreSite Open Cloud Exchange ordering interface. At the top, there is a breadcrumb navigation: HOME > ORDER SERVICES & SUPPORT > INTERCONNECTION. Below this, the section title is "Open Cloud Exchange". A sub-instruction says "Select which type of Open Cloud Exchange request you would like to submit by clicking on the applicable product tile below." A note below the tiles says "Please select a product to start the ordering process. Then select Continue." There are three product tiles: "Port" (selected, indicated by a checked checkbox), "Virtual Router" (unchecked), and "EVC" (unchecked). Each tile has a brief description: "Port" allows access to CoreSite's ecosystem of service providers, networks, and enterprises; "Virtual Router" enables Layer 3 virtual connections including IPsec; and "EVC" connects two points between service providers, networks, yourself, and enterprises or creates a connection to a branch location (i.e., IPsec tunnel). At the bottom right of the interface is a blue "CONTINUE" button.

COMPLETING THE PORT ORDER FORM

Part 1: Fill out the required data fields in the Port Order form:

76. Select Account.
77. Select Space.
78. Enter Point of Contact.
79. Enter valid Email.

How it Works

80. Enter phone number.

Open Cloud Exchange Port Order Form

Customer Information		* Denotes a required field	
Account* 	Space 	-Select Account-	-Select Account first-
Customer Contact			
Point of Contact*	Email*	Phone Number*	

Part 2: Upon selection of the account and space data fields, the interconnection service Details data parameters will be prompted for user input:

81. Select the desired Product.
82. Select yes or no for a coordinated hot cut.
83. Select quantity.
84. Enter a desired customer want date.
85. Select yes or no for port listing on the OCX.

Interconnection Service Details

Product* 	Coordinated Hot Cut* 	CoreSite recommends two Ports for redundancy and load-balancing purposes.
Quantity* 	-select-	Customer Want Date* 
-- SELECT AN OPTION -- 	Customer Want Date	Customer Want Date
Standard Install Time		
List Port(s) on the OCX?* 		
Yes 		

Part 3: Product Attributes and additional Order details:

86. Provide a unique customer port name.
87. Select the appropriate port designation.
88. (Optional) Provide a customer reference label.
89. (Optional) Provide a customer purchase order.

How it Works

90. Provide a description of work. If no additional details are needed, please enter "N/A".

Product Attributes			
Customer Port Name	Port Options*	Circuit Type*	Patch Cable Type*
	Single Port Connection	10 Gig	Single Mode Fiber
Additional Order Details			
Customer Ref. Label	Customer Purchase Order		
<p>Description of Work*</p> <p>Please document any additional details including vendors or personnel required to complete your request.</p>			
 To add an attachment, please submit your request and re-open the Order.			

Part 4: Accept terms and conditions:

91. Review Terms and Conditions. To accept, Click the checkbox in the upper left-hand side of the terms and conditions box.

* By clicking the checkbox to the left I acknowledge that I have read and agreed to the following **Terms and Conditions**

92. Click the submit request button to complete order.

CoreSite Party exercises no control over, and shall have no responsibility for, Customer's network design. Customer acknowledges and understands that in order to achieve transport diversity within its own network design as it relates to the dark fiber tethering services licensed from CoreSite Party, Customer must order multiple dark fiber paths and expressly request at the time of ordering that such services be provisioned diversely. Failure to order multiple dark fiber paths and request diverse provisioning increases the risk that Customer will be adversely impacted by the failure of a dark fiber service.

SUBMIT REQUEST
CANCEL REQUEST

Once the order is submitted, CoreSite will begin the automated process to provision your OCX Port.

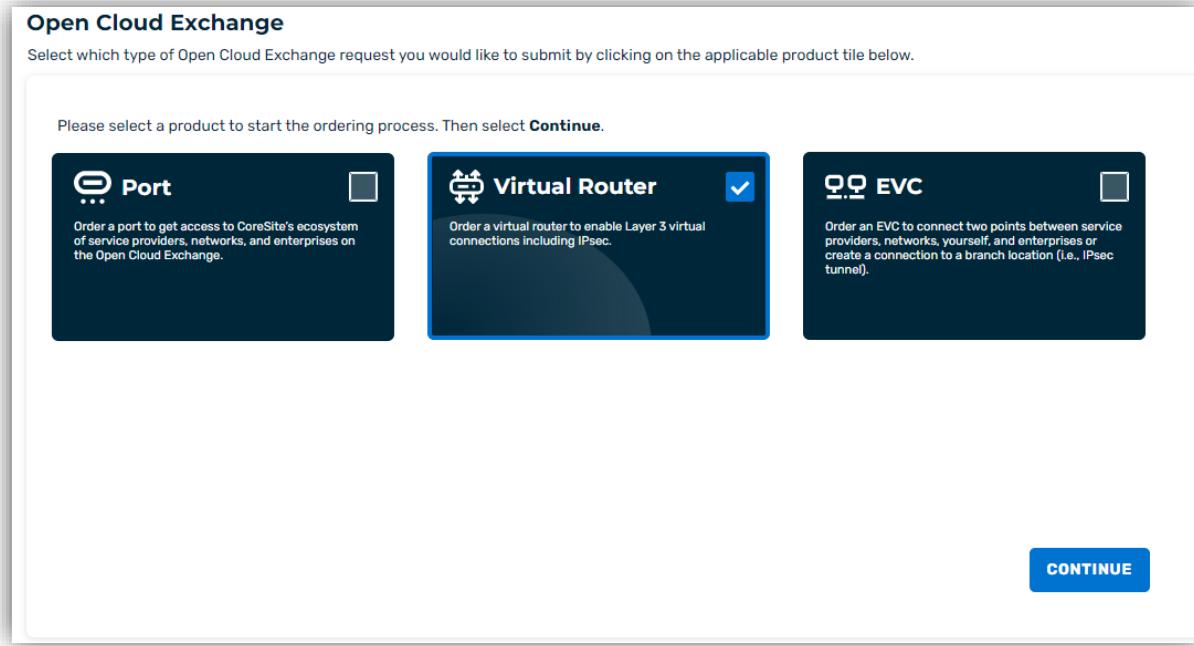
How to Order a Virtual Router

NAVIGATING TO THE VR ORDER FORM

93. Follow Steps 1 to 4 in the "ordering OCX services" section to navigate to the Port ordering page.

How it Works

94. Click on the “Virtual Router” tile and click “continue”.



Open Cloud Exchange

Select which type of Open Cloud Exchange request you would like to submit by clicking on the applicable product tile below.

Please select a product to start the ordering process. Then select **Continue**.

Port Order a port to get access to CoreSite's ecosystem of service providers, networks, and enterprises on the Open Cloud Exchange.

Virtual Router Order a virtual router to enable Layer 3 virtual connections including IPsec.

EVC Order an EVC to connect two points between service providers, networks, yourself, and enterprises or create a connection to a branch location (i.e., IPsec tunnel).

CONTINUE

COMPLETING THE VR ORDER FORM

Part 1: Fill out the required data fields in the Virtual Router order form:

95. Select the virtual router market.
96. Select account.
97. Select Space.
98. Enter a unique name / identifier for the virtual router.

How it Works

99. Specify an invoice label.

Virtual Router Order Form

Order a virtual router to enable Layer 3 connectivity. * Denotes a required field

Please specify the details for your Virtual Router service and select Submit Order to provision this service.

Please specify the Virtual Router Market*

Boston Chicago Denver Los Angeles New York Silicon Valley Virginia / DC

Select the Account*

-Select Market first-

Select a Space* ?

-Select Account first-

Name your Virtual Router* ?

Specify an Invoice Label (Optional) ?

Part 2: Service rate, Contact information, and terms and conditions:

100. Select the desired service rate.
101. Add additional contacts for the request.

NOTE:

The primary contact information will be populated based off the logged in user. Click the "+" button to add more contacts to the request.

102. Agree to the terms and conditions of the order.

By submitting this order, you agree to our standard terms and conditions, which can be reviewed [here](#)

I have read and agree to the [Terms and Conditions*](#)

SUBMIT ORDER

How it Works

103. Click "Submit Order."

Once the order is submitted, CoreSite will begin the automated process to provision your Virtual Router.

How to Order an Ethernet Virtual Connection (EVC)

NOTE:

To create an EVC, users must create/order an OCX port first. Users cannot create EVC's without an active OCX port.

There are three types of EVCs that can be created inside the OCX service delivery platform:

104. Create an EVC between your existing CoreSite OCX services.
105. Create an EVC from CoreSite OCX services to a Cloud Provider.
106. Create an EVC from CoreSite OCX services to an OCX Participant.

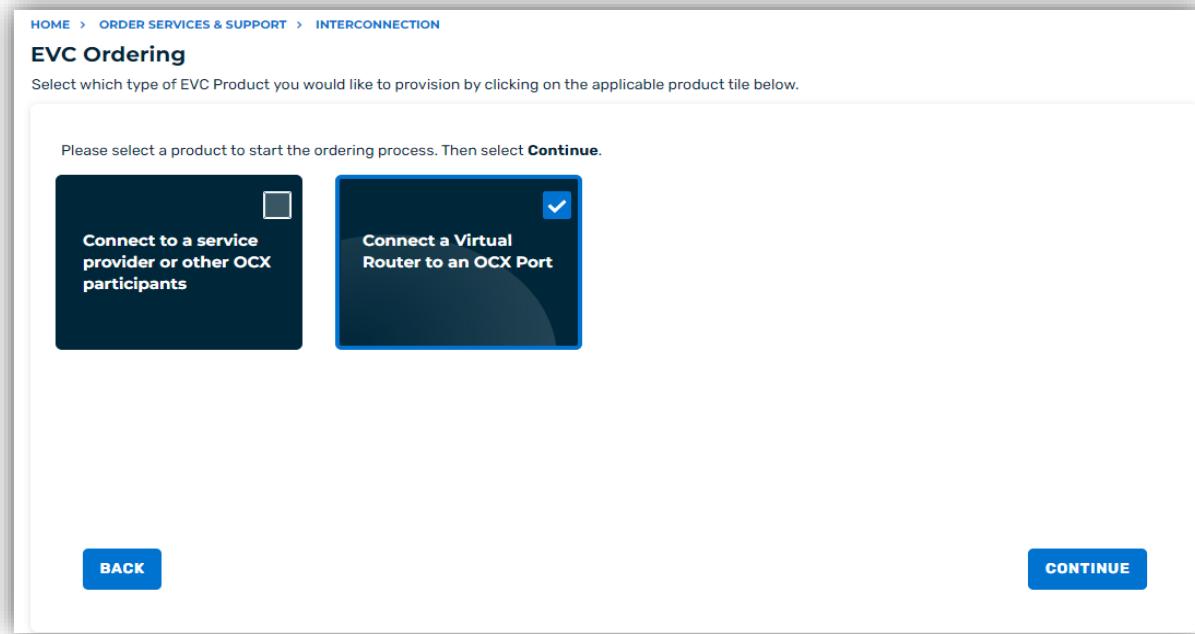
Creating a Connection from your OCX Port to Your Virtual Router

NAVIGATING TO THE EVC ORDER FORM

107. Follow Steps 1 to 4 in the "ordering OCX services" section to navigate to the Port ordering page.
108. Click on the "EVC" tile and click "continue".

How it Works

109. On the next screen, select the tile that displays "Connect a Virtual Router to an OCX Port" and click "Continue".



HOME > ORDER SERVICES & SUPPORT > INTERCONNECTION

EVC Ordering

Select which type of EVC Product you would like to provision by clicking on the applicable product tile below.

Please select a product to start the ordering process. Then select **Continue**.

Connect to a service provider or other OCX participants

Connect a Virtual Router to an OCX Port

BACK **CONTINUE**

COMPLETING THE EVC ORDER FORM

Part 1: Fill out the required data fields in the EVC order form:

110. Select Virtual Router.
111. Select OCX Port.
112. (Optional) Specify an IP Address.
113. (Optional) Specify an VLAN.
114. Select desired service rate.
115. Provide a unique name for your EVC.
116. (Optional) Specify an Invoice Label.
117. Provide a Point of Contact.
118. Provide Contact Email.
119. Provide Phone Number.
120. Agree to the terms and conditions of the order.

How it Works

121. Click "Submit Order."

Creating a Layer 2 Connection to AWS

This section outlines the process to create AWS Hosted Connections using the CoreSite Open Cloud Exchange® and how to accept the connections in the AWS management portal. Before this process can begin, the Open Cloud Exchange® port must be operational, and the customer will need an active AWS account.

NOTE:

AWS Hosted Connections supports service rates between 500Mbps and 10Gbp.

ORDERING STEPS

STEP ONE
Creating the EVC

STEP TWO
Accept Hosted Connection

STEP 1: ORDERING YOUR OPEN CLOUD EXCHANGE® EVC

122. Login to the MyCoreSite customer service delivery platform.
123. Select Order Services and Support.
124. Choose Interconnection.
125. Order OCX.
126. Select EVC.

127. Click Order.

New EVC(s) Order Form: AWS

128. Input Contact Information:
 - Select Account and Site;
 - Enter the Point of Contact (Up to 5 contacts).
129. Select Target:
 - Account: AWS Direct Connect;
 - Port: Select target port;

How it Works

- AWS Account ID: Unique identifier associated with the customer's AWS service.
130. Enter Buyer Details:
- Port: Populate buyer port;
 - VLAN (Available range: 400-899 or leave blank for auto selection);
 - Service Rate: 50, 100, 200, 300, 400, 500Mbps - 1, 2, 5, 10Gbps;
 - Name your EVC.
131. Agree to Terms and Conditions.
132. Press Submit Order.

STEP 2: ACCEPT THE HOSTED CONNECTION

After the EVC order has been submitted, CoreSite will allocate a Hosted Connection to the AWS Account ID. Once allocated, the end customer must accept the connection within their AWS Direct Connect console.

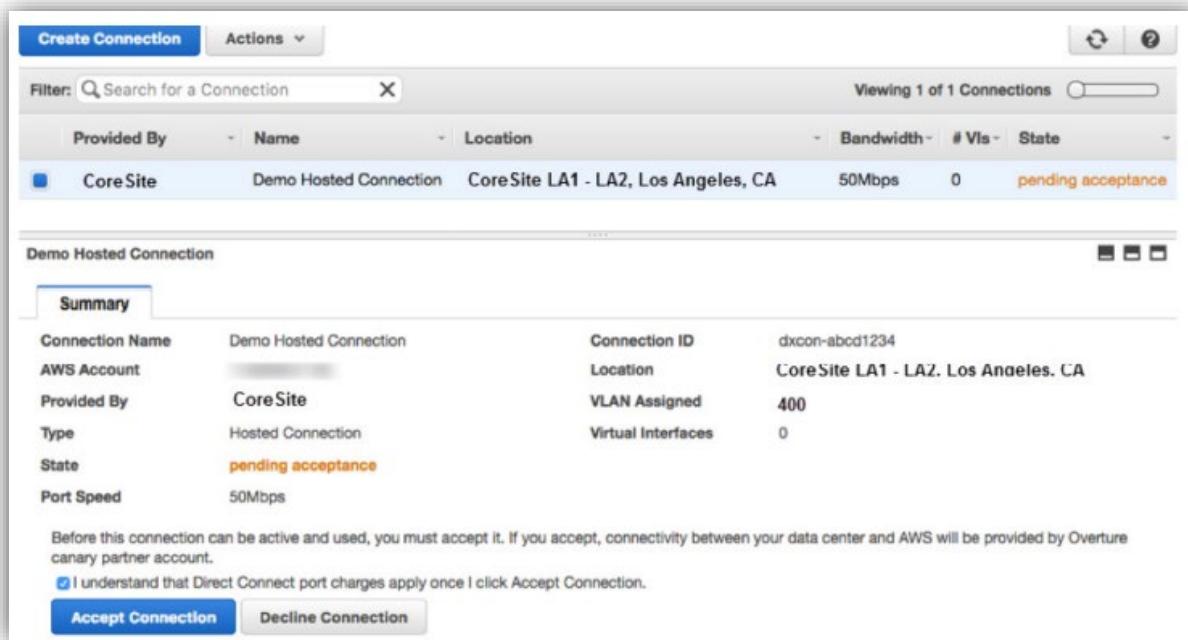
133. Open the AWS Direct Connect console.
134. From the navigation bar, select the appropriate Hosted Connection region:

Boston, New York, Virginia:	US East 1 (N. Virginia)
Chicago:	US East 2 (Ohio)
Denver:	US West 2 (Oregon)
Los Angeles and Bay Area:	US West 1 (N. California)

135. In the navigation pane, choose Connections.
136. Select the appropriate connection and expand the details.

How it Works

137. Check the box to accept the terms of the connection and then press Accept Connection.



The screenshot shows the CoreSite Create Connection interface. At the top, there is a navigation bar with 'Create Connection' and 'Actions'. Below it is a search bar labeled 'Filter: Search for a Connection'. A table displays one connection entry:

Provided By	Name	Location	Bandwidth	# VIs	State
CoreSite	Demo Hosted Connection	CoreSite LA1 - LA2, Los Angeles, CA	50Mbps	0	pending acceptance

Below the table, the connection details are shown in a summary table:

Connection Name	Demo Hosted Connection	Connection ID	dxcon-abcd1234
AWS Account	[REDACTED]	Location	CoreSite LA1 - LA2, Los Angeles, CA
Provided By	CoreSite	VLAN Assigned	400
Type	Hosted Connection	Virtual Interfaces	0
State	pending acceptance		
Port Speed	50Mbps		

Below the summary table, there is a note: "Before this connection can be active and used, you must accept it. If you accept, connectivity between your data center and AWS will be provided by Overture canary partner account." There is also a checked checkbox: "I understand that Direct Connect port charges apply once I click Accept Connection." At the bottom are two buttons: "Accept Connection" and "Decline Connection".

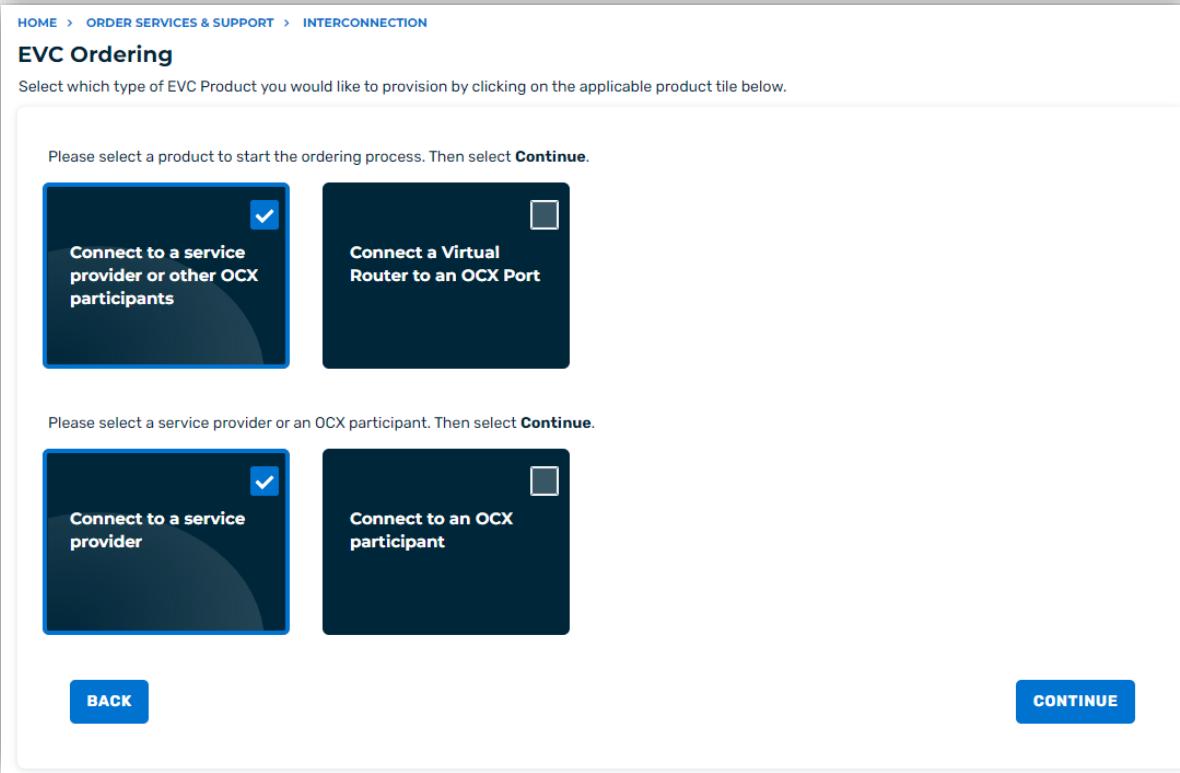
Creating a Layer 3 Connection to AWS

NAVIGATING TO THE EVC ORDER FORM

138. Follow Steps 1 to 4 in the “ordering OCX services” section to navigate to the Port ordering page.
139. Click on the “EVC” tile and click “continue”.
140. On the next screen, select the tile that displays “Connect to a service provider or other OCX participant”.

How it Works

141. Select the tile that displays “Connect to a Service provider” and click “Continue”.



HOME > ORDER SERVICES & SUPPORT > INTERCONNECTION

EVC Ordering

Select which type of EVC Product you would like to provision by clicking on the applicable product tile below.

Please select a product to start the ordering process. Then select **Continue**.

Connect to a service provider or other OCX participants

Connect a Virtual Router to an OCX Port

Please select a service provider or an OCX participant. Then select **Continue**.

Connect to a service provider

Connect to an OCX participant

BACK **CONTINUE**

142. Next, select the tile labeled “Layer 3 Connection”. Click “Continue”.

COMPLETING THE EVC ORDER FORM

Part 1: Fill out the required data fields in the EVC order form:

143. Select Provider you wish to connect to. In this case select AWS.
144. Select the Target Location.
145. Select the Target Port.
146. Enter your AWS Account ID.
147. The Virtual Interface type will be defaulted to Private. CoreSite OCX currently does not support Public VIFs.
148. Select Buyer Account.
149. Select the desired Virtual Router.

How it Works

150. Provide a unique name for your EVC.
- 151.(Optional) Specify an Invoice Label.
152. Specify the service rate desired.
153. Click the "Validate and Continue" button to proceed.

Please specify the EVC Target and Buyer information. Then select 'Validate and Continue'.

Select a Service Provider Target





Target Details

Select a Target Location* ? <input type="button" value="-Select Account-"/>	Select a Target Port* ? <input type="button" value="-Select Account First--"/>
--	---

Specify your AWS Account ID* ? <input type="text"/>	Virtual Interface Type* ? <input type="button" value="-Select-"/>
--	--

Buyer Details

Select a Buyer Account* ? <input type="button" value="-Select-"/>	Select Your Virtual Router* ? <input type="button" value="-Select Virtual Router-"/>
--	---

Requested Service Details

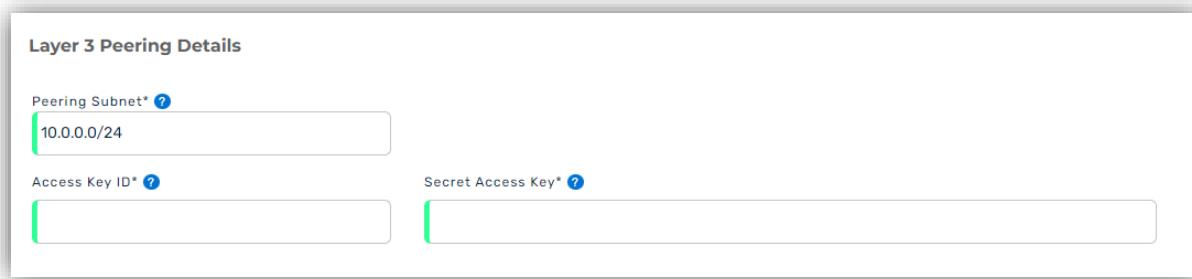
Name Your EVC* ? <input type="text"/>	EVC Invoice Label (Optional) ? <input type="text"/>	Specify a Service Rate* ? <input type="button" value="-Select Virtual Router First-"/>
--	--	---

Part 2: Complete the Layer 3 Peering Details:

154. Provide the Peering Subnet in CIDR Format.
155. Provide your AWS Access Key ID.

How it Works

156. Provide your AWS Secret Access Key.



Layer 3 Peering Details

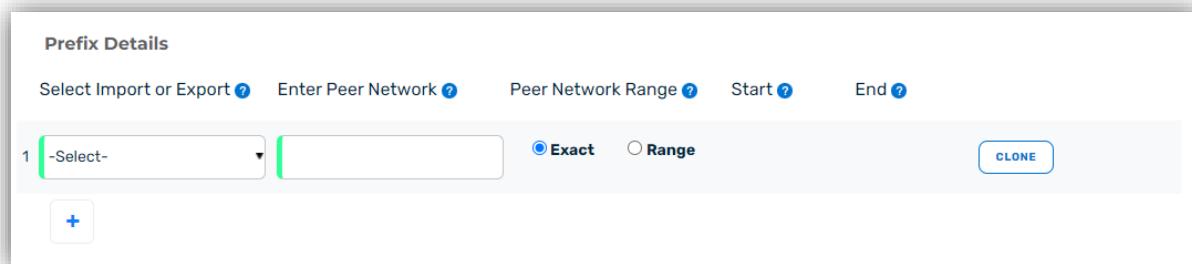
Peering Subnet* ?
10.0.0.0/24

Access Key ID* ?

Secret Access Key* ?

Part 3 (Optional): Provide prefix details. You may enter up to 100 prefixes. If you wish to apply:

157. Select the policy you wish to apply to the prefix.
158. Provide the peer network address in CIDR form.
159. Select the desired range: "Exact" or "Range":
- If you select range, provide the "Start" and "End" of the range.
160. Repeat Steps 1 to 3a for any additional prefixes provided:
- Click the "+" button to add more prefixes.
161. Click "Review Order".



Prefix Details

Select Import or Export ? Enter Peer Network ? Peer Network Range ? Start ? End ?

1 -Select- ▾

Exact Range

CLONE

+

How it Works

Part 4: Add contact information and review your order:

162. Enter valid contact information for this request.

HOME > ORDER SERVICES & SUPPORT > INTERCONNECTION

Service Provider EVC Order Form

* Denotes a required field

1 Buyer and Target Information 2 Peering Information 3 Order Review

Add Contact Info

Please specify contact information, acknowledge the terms and conditions, add any notes (optional). Then select submit.

Point of Contact*

Email*

Phone Number*



How it Works

163. Review all data parameters associated with the EVC Request. If any information is incorrect or changes need to be made, users may click the "Back" button and make the necessary changes.

Review Order Details:

Target Details		
Target Service Provider aws Amazon	Target Location AWS Hosted Connection (US West 1) - LA1	Target Port CLR-01914799-1 LA3.01.CR01.LAB.01.SLX.COR.01-SFP/SFP+ 15:2
AWS Account ID	Virtual Interface Type Private	
Buyer Details		
Buyer Account	Virtual Router	
Requested Service Details		
EVC Name EVC 1	EVC Invoice Label	Service Rate 50 Mbps
Monthly Recurring Cost \$ 75.00		
Layer 3 Peering Details		
Peering Subnet 10.2.0.0/24	EDIT	

164. After confirming all information is accurate check the Terms and Conditions check box. You may also view the Terms and Conditions by clicking the hyper link.

By submitting this order, you agree to our standard terms and conditions, which can be reviewed [here](#)

I have read and agree to the **Terms and Conditions***

The terms and conditions will appear in a separate modal window for review.



How it Works

Terms and Conditions

When ordering EVC connectivity, you have the option to request that CoreSite orchestrate the provisioning of Layer 3 connectivity on your behalf. In order for CoreSite to do this on your behalf, CoreSite requires limited Cloud Service Provider access credentials sufficient to perform the connectivity. The Cloud Service Provider access credentials will be encrypted and temporarily stored for the time it takes to perform the limited purpose of completing the provisioning of your Layer 3 connectivity, after which it will be deleted. No CoreSite employee will have access to your Cloud Service Provider credentials. CoreSite requires only limited Cloud Service Provider access credentials sufficient to complete this connectivity, and by choosing this option you are representing to CoreSite that you have provided only limited Cloud Service Provider access credentials. By choosing this option, you consent to CoreSite's use and storage of your Cloud Service Provider access credentials for the limited purpose set forth above and assume all risks associated with such activity. CoreSite assumes no liability whatsoever in relation to your provision of and CoreSite's use of your Cloud Service Provider access credentials. If you do not wish to provide CoreSite with your Cloud Service Provider access credentials, you may choose the option to self-provision your Layer 3 connectivity.

This Service Delivery Platform order, once accepted by CoreSite, is submitted under and governed by the Master License and Service Agreement or Lease agreement (or similar agreement which governs Customer's purchase of CoreSite's Services in the Data Center) between Customer and CoreSite ("Agreement"). Reference to "CoreSite" in this Service Delivery Platform order refers only to the CoreSite Party responsible for providing the Services at the particular CoreSite Data Center. No offer or representation in this Service Delivery Platform order shall be binding unless and until accepted by CoreSite.

Customer agrees to the recurring and non-recurring charges associated with the Services in this Service Delivery Platform order and shall pay such charges in accordance with the Agreement.

CLOSE

165. Click "Submit Order".

After completing Step 4, the order will be submitted and automated provisioning will begin. No other action is required at this time.

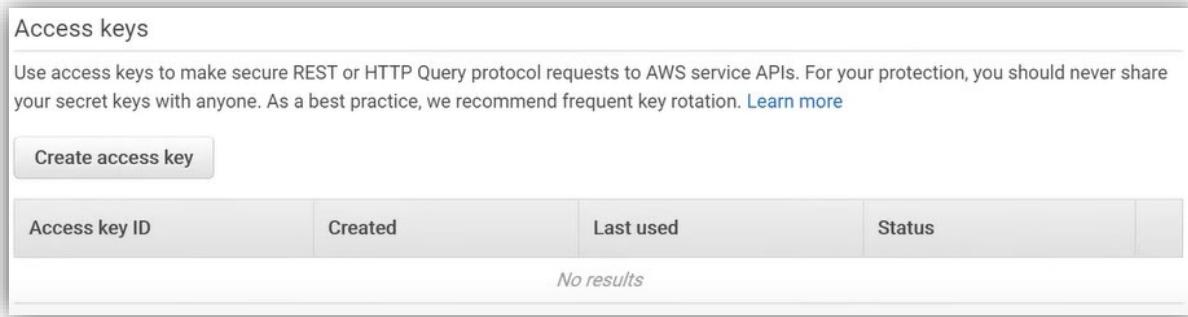
How it Works

AWS Credentials

The CoreSite OCX utilizes programmatic access to accept your hosted connection and BGP sessions on your behalf. To create Layer 3 connections to AWS, users are required to provide their Access Key ID and their Secret Access Key. These access keys are created in the AWS Portal and can be retrieved after creation. To create AWS Access Keys users must be and log into the AWS console as an IAM user. The credentials required are limited to what is outlined below and should not be the user's root credentials.

Steps to creating and obtaining your access keys:

166. Log into the AWS portal as an IAM user: <https://console.aws.amazon.com/iam/>.
167. Navigate to the upper right-hand side of the screen and click on the user name.
168. Next, click the "Security Credentials" tab.
169. Scroll down the page and locate the Access keys section (access key ID and secret access key).



The screenshot shows the "Access keys" section of the AWS IAM console. A button labeled "Create access key" is visible. Below it is a table with columns: "Access key ID", "Created", "Last used", and "Status". The table displays the message "No results".

170. Click "Create Access Key".

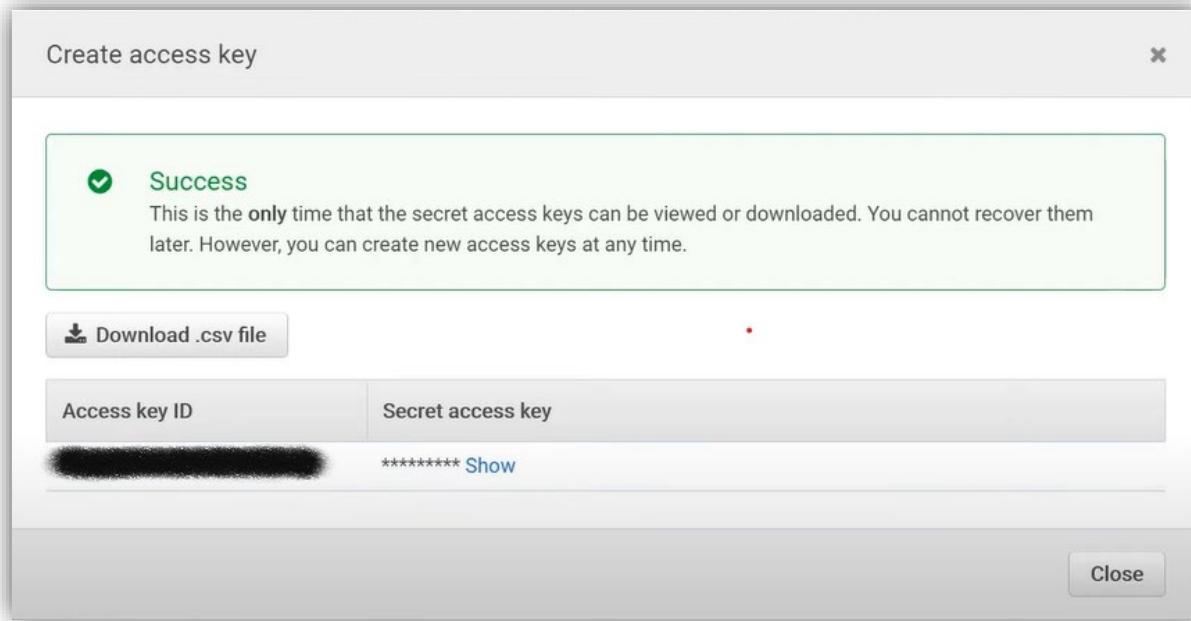
NOTE:

If this feature is disabled, then you must delete one of the existing keys before you can create a new one.

171. A new modal window will appear upon successful creation of the Access Keys.

How it Works

172. Download the Access Keys as a .csv file or copy / paste the keys. These keys will be needed to complete the EVC order to AWS.



For more information, please go to the links below:

173. <https://docs.aws.amazon.com/general/latest/gr/aws-sec-cred-types.html> <https://aws.amazon.com/premiumsupport/knowledge-center/create-access-key/>
174. https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users_create.html
175. <https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html#grant-least-privilege>
176. https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html

How it Works

Creating a Layer 2 Connection to Azure

This section outlines the process to create Microsoft ExpressRoute circuits using the Azure Management Portal and how to provision Layer 2 circuits (EVCs) to Microsoft Azure using the CoreSite Open Cloud Exchange®. Before this process can begin, the Open Cloud Exchange® port(s) must be operational, and the customer will need an active Azure account.

NOTE:

Microsoft recommends two ports (Primary and Secondary) for redundancy.

ORDERING STEPS

STEP ONE
Creating a Virtual Circuit

STEP TWO
Creating the EVC

STEP THREE
Complete Configuration

STEP 1: CREATING A VIRTUAL CIRCUIT IN THE AZURE PORTAL

177. Login to Microsoft Azure Portal.
178. Select ExpressRoute Product.
179. Add Circuit.
180. Enter Circuit Name (i.e., ER-COR-LA1-10G).
181. Select Provider (i.e., CoreSite).
182. Choose Peering Location:
 - Chicago;
 - Denver;
 - Los Angeles;
 - New York;
 - Silicon Valley2;
 - Washington DC2.

How it Works

183. Set Bandwidth:
 - 50, 100, 200 or 500 Mbps;
 - 1, 2, 5 or 10 Gbps.
184. Select SKU:
 - Standard or Premium (Learn more).
185. Choose Billing Model:
 - Unlimited or Metered (Learn more).
186. Select Subscription.
187. Determine Resource Group:
 - Create new or use existing.
188. Choose Location (Correlates to Azure Region).
189. Press Submit.

After submitting the ExpressRoute request, the circuit will remain in an “Unprovisioned” status until the next steps are completed within the Open Cloud Exchange®.

Service Key will be required for the next step.

STEP 2: ORDERING YOUR OPEN CLOUD EXCHANGE® EVC

190. Login to the MyCoreSite customer service delivery platform.
191. Select Order Services and Support.
192. Choose Interconnection.
193. Order OCX.
194. Select EVC.
195. Click Order.

New EVC(s) Order Form: Microsoft ExpressRoute

196. Input Contact Information:
 - Select Account and Site;
 - Enter the Point of Contact (Up to five contacts).

How it Works

197. Select Target:

Account:	Microsoft Azure ExpressRoute
Port:	Select target port.
Service Key:	Captured in the last step of Create ExpressRoute Circuit.
Service Type:	Private, Public or Microsoft

198. Enter Buyer Details:

- Port: Populate both port drop downs if diversity is needed.
- Buyer VLAN (Available range: 400-899 or leave blank for auto selection).

The buyer VLAN value is used in the 802.1Q configuration on the customer router. A follow up email will be sent to the buyer with the target VLAN value which is used in the ExpressRoute peering configuration and within the BGP configuration on the customer router.

- Service Rate:
 - 50, 100, 200 or 500 Mbps;
 - 1, 2, 5 or 10 Gbps.

- Name your EVC.

199. Agree to Terms and Conditions.

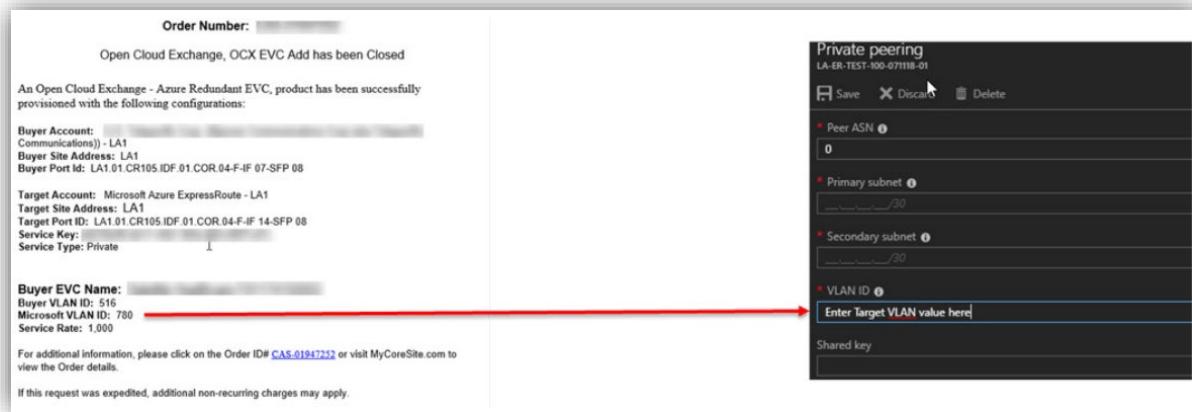
200. Press Submit Order.

STEP 3: CONFIRMING CONFIGURATION

201. After submitting the order, the EVC(s) will be configured, and confirmation emails are sent to you (the buyer) and Microsoft (the target) with the connection details including the relevant target VLAN information. This VLAN information will be used in the ExpressRoute

How it Works

peering configuration within the Azure portal and in the BGP configuration on the customer router.



The screenshot displays two windows side-by-side. The left window shows an 'Order Number' page for an 'Open Cloud Exchange, OCX EVC Add has been Closed'. It lists various configuration details such as Buyer Account, Target Account, and Buyer EVC Name. A red arrow points from the 'Buyer VLAN ID: 516' field on this page to the 'VLAN ID' field in the right window. The right window shows a 'Private peering' configuration screen with fields for Peer ASN, Primary subnet, Secondary subnet, and VLAN ID. The 'VLAN ID' field is highlighted with a blue border and contains the value '516'.

Creating a Layer 3 Connection to Azure

NAVIGATING TO THE EVC ORDER FORM

202. Follow Steps 1 to 4 in the “ordering OCX services” section to navigate to the Port ordering page.
203. Click on the “EVC” tile and click “continue”.
204. On the next screen, select the tile that displays “Connect to a service provider or other OCX participant”.
205. Select the tile that displays “Connect to a Service provider” and click “Continue”.
206. Next, select the tile labeled “Layer 3 Connection”. Click “Continue”.

COMPLETING THE EVC ORDER FORM

Part 1: Fill out the required data fields in the EVC order form:

207. Select Provider you wish to connect to. In this case select Microsoft Azure.
 208. Select the Target Location.
 209. Select the Target Port.
 210. Enter your (ExpressRoute) Service Key.
211. The Peering Type will be defaulted to Private Peering. CoreSite OCX currently does not support Microsoft Peering (Public).

How it Works

212. Select Buyer Account.
213. Select the desired Virtual Router.
214. Provide a unique name for your EVC.
215. (Optional) Specify an Invoice Label.
216. Specify the service rate desired.

217. Click the "Validate and Continue" button to proceed.

Part 2: Complete the Layer 3 Peering Details:

218. Provide the Peering Subnet in CIDR Format.
219. Provide your Client ID.
220. Provide your Client Secret Value.
221. Provide your Subscription ID.
222. Provide your Tenant ID.
223. Provide the Resource Group Name.
224. Select the Resource Group Region.
225. Provide the ExpressRoute Circuit Name.

HOME > ORDER SERVICES & SUPPORT > INTERCONNECTION

Service Provider EVC Order Form

* Denotes a required field

Please specify the following Peering Details. Then select 'Review Order'.

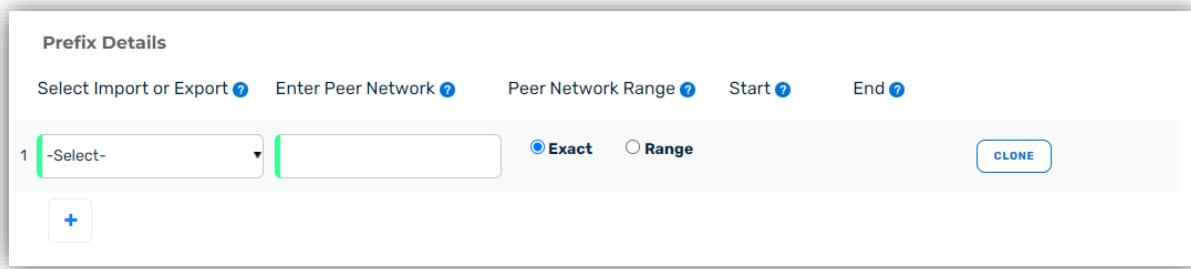
Layer 3 Peering Details

Peering Subnet* ? <input type="text" value="10.0.0.0/24"/>	Client ID* ? <input type="text"/>	Client Secret* ? <input type="text"/>
Subscription ID* ? <input type="text"/>	Tenant ID* ? <input type="text"/>	Resource Group Name* ? <input type="text"/>
Resource Group Region* ? <input type="text" value="-Select-"/>	ExpressRoute Circuit Name* ? <input type="text"/>	

How it Works

Part 3 (Optional): Provide prefix details. You may enter up to 100 prefixes:

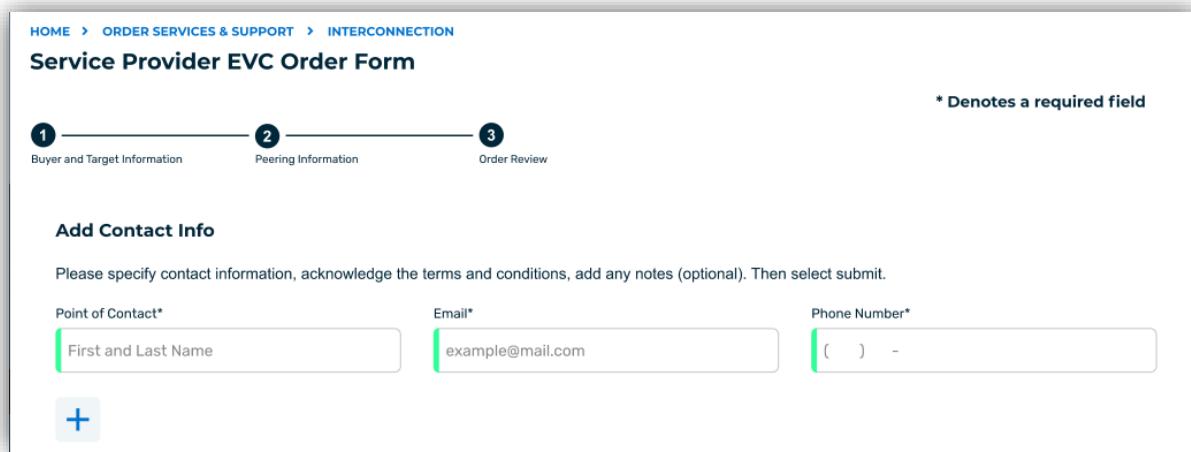
226. Select the policy you wish to apply to the prefix.
227. Provide the peer network address in CIDR form.
228. Select the desired range: "Exact" or "Range":
 - If you select range, provide the "Start" and "End" of the range.
229. Repeat steps 1-3a for any additional prefixes provided:
 - Click the "+" button to add more prefixes.
230. Click "Review Order".



The screenshot shows a user interface titled "Prefix Details". It includes fields for "Select Import or Export" (with a question mark icon), "Enter Peer Network" (with a question mark icon), "Peer Network Range" (with a question mark icon), "Start" (with a question mark icon), and "End" (with a question mark icon). There are two radio buttons: "Exact" (selected) and "Range". Below these fields is a dropdown menu labeled "1 -Select-", an empty input field, and a "CLONE" button. At the bottom is a blue "+" button.

Part 4: Add contact information and review your order:

231. Enter valid contact information for this request.



The screenshot shows the "Service Provider EVC Order Form". At the top, there's a navigation bar: HOME > ORDER SERVICES & SUPPORT > INTERCONNECTION. The main title is "Service Provider EVC Order Form". A note at the top right says "* Denotes a required field". Below the title, there are three numbered steps: 1 Buyer and Target Information, 2 Peering Information, and 3 Order Review. The "Add Contact Info" section contains fields for "Point of Contact*", "Email*", and "Phone Number*". Each field has a placeholder text: "First and Last Name", "example@mail.com", and "() -" respectively. A blue "+" button is located at the bottom left of the contact info section.

How it Works

232. Review all data parameters associated with the EVC Request. If any information is incorrect or changes need to be made, users may click the “Back” button and make the necessary changes.

Review Order Details		
Target Details <div style="text-align: right; margin-top: -10px;">Edit</div>		
Target Service Provider  Microsoft Azure	Target Location Microsoft ExpressRoute (New York)	Target Port CH1.05.MDF.05.COR.01-IF 03-SFP+ 0B-2
Service Key	Peering Type Public	
Buyer Details <div style="text-align: right; margin-top: -10px;">Edit</div>		
Buyer Account Acme Inc. - LAT	Virtual Router MyVR CAS-121654	
Requested Service Details <div style="text-align: right; margin-top: -10px;">Edit</div>		
EVC Name MyEVC	Invoice Label E3923	Service Rate 1 Gbps
Monthly Recurring Cost \$500.00		
Layer 3 Peering Details <div style="text-align: right; margin-top: -10px;">Edit</div>		
Peering Subnet TBD		

233. After confirming all information is accurate check the Terms and Conditions check box.

234. Click “Submit Order”.

After completing Step 4 the order will be submitted, and automated provisioning will begin. No other action is required at this time.

How it Works

Microsoft Azure Credentials

The credentials required are limited to what is outlined below and should not be the user's root credentials. Azure credentials required:

ExpressRoute (ER) Service Key:	The key is the unique identifier assigned by Microsoft to identify your ER circuit.
Client ID:	This value represents the ID tied to a specific Azure client. This is also referred to as the "Application ID".
Client Secret ID (Value):	This is the unique identifier used to authenticate your application.
Subscription ID:	Represents the unique identifier for your Azure Subscription.
Tenant ID:	Represents the unique identifier of the Azure Active Directory instance. This is also referred to as the "Directory ID".
Resource Group:	A container that holds related resources for an Azure solution.
Resource Group Region:	The region in which the resource group will be stored.
ExpressRoute Circuit Name:	This is a unique identifier that the circuit creator assigned to the ER Circuit.

Gather your Microsoft Azure Credentials by Logging into the Microsoft Azure portal (1).

SUBSCRIPTION ID

235. In the Azure Portal, locate the navigation panel on the left side of the screen and click "Subscriptions". You may also use the search function if this does not appear on the navigation pane.

How it Works

236. Select the subscription ID you wish to use and copy / record the value:
- If you do not have any existing subscriptions, you may create one.

NOTE:

Subscription ID can also be located in the details section of your ER Circuit.

CLIENT ID AND TENANT ID

237. In the Azure Portal, locate the navigation panel on the left side of the screen and click "Azure Active Directory". You may also use the search function if this does not appear on the navigation pane.
238. Click on "App Registrations".
239. Locate the application you wish to use and click on the display name:
- If you do not have any existing applications, you may create one.
240. Once the application details appear, copy / record the values for the:
- Client ID (Application ID);
 - Tenant ID (Directory ID).

^ Essentials	
Display name	: ens-testing-customer
Application (client) ID	: 20f7af19-887f-483a-8f27-9694aaf687
Object ID	: 7d5385ae-f527-48e4-b6c6-94530fd20dc3
Directory (tenant) ID	: e1acec66-55ac-4595-8255-7677c393fc9b
Supported account types	: My organization only

CLIENT SECRET ID

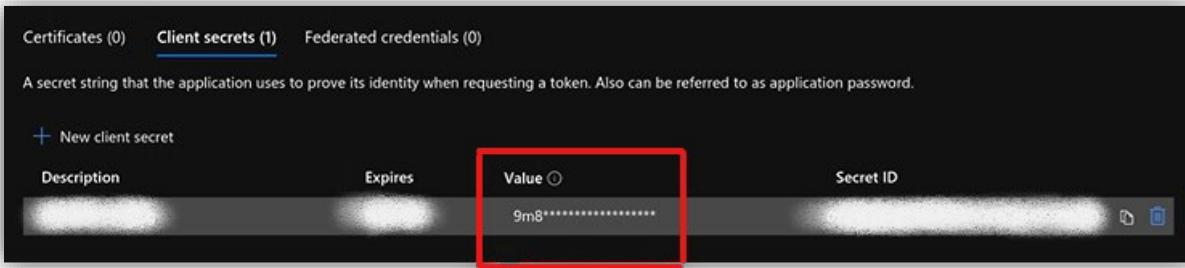
241. In the Azure Portal, locate the navigation panel on the left side of the screen and click "Azure Active Directory". You may also use the search function if this does not appear on the navigation pane.
242. Click on "App Registrations".
243. Click "Certificates and Secrets".
244. Select "Client Secrets".
245. Locate the secret you wish to use:
- If you do not have any existing secrets, click "New Client Secret";
 - Enter a description and designate the duration;

How it Works

- Click "Add".

IMPORTANT:

Users must copy the value represented in the "Value" column. Do not record the value in the "Secret ID" column.



Certificates (0) **Client secrets (1)** Federated credentials (0)

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

+ New client secret

Description	Expires	Value	Secret ID
[Redacted]	[Redacted]	9m8*****	[Redacted]

RESOURCE GROUP AND RESOURCE GROUP REGION

246. In the Azure Portal, locate the navigation panel on the left side of the screen and click "Resource Groups". You may also use the search function if this does not appear on the navigation pane.
247. Locate the Resource Group you wish to use:
 - If you do not have any existing secrets, click "Add";
 - Select a subscription model;
 - Provide a name for the resource group;
 - Select "Region";
 - Click "Review + Create".
248. Copy / record the values for the Resource Group and Resource Group Region.

NOTE:

The Resource Group, and Resource Group Region is assigned to the ER Circuit upon creation in the Azure Portal.

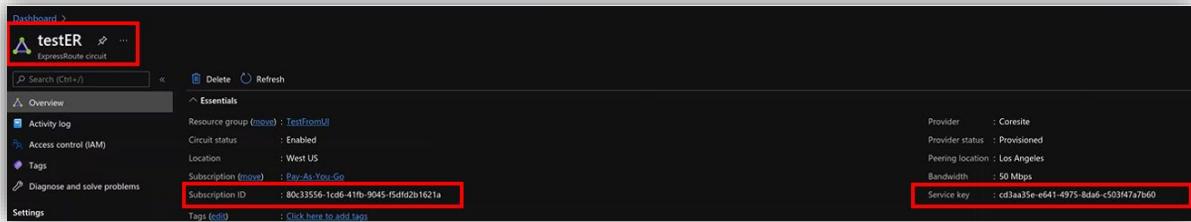
How it Works

EXPRESSROUTE CIRCUIT NAME

249. In the Azure Portal, locate the navigation panel on the left side of the screen and click "ExpressRoute Circuits". You may also use the search function if this does not appear on the navigation pane.

250. Locate the ExpressRoute Circuit you wish to use. The name of the circuit will be displayed on the list view:

- You may also click on the circuit to view more details. The ER Circuit name will be displayed on the top left corner of the page;
- Other credentials can also be viewed here such as the Subscription ID and the ExpressRoute Service Key.



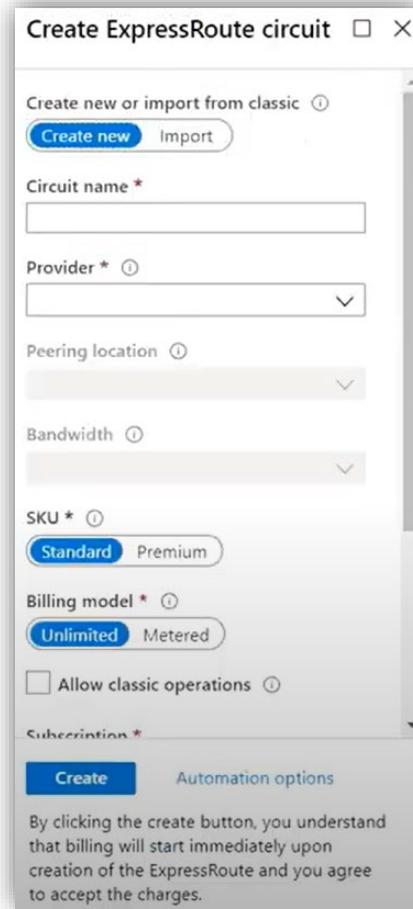
How it Works

CREATING AN EXPRESSROUTE CIRCUIT

251. Log into the Microsoft Azure portal.
252. Once logged in, click the "ExpressRoute Circuits" button on the navigation pane on the lefthand side of the screen. If that button is not available, navigate to the search bar at the top of the screen or hit the "Browse" button and search for "ExpressRoute Circuits".
253. Click "Add".
254. Enter Circuit Name.
255. Select Provider.
256. Choose Peering Location.
257. Set Bandwidth.
258. Select SKU.
259. Choose Billing Model.
260. Select Subscription.
261. Determine Resource Group.
262. Choose Location (Correlates to Azure Region).
263. Click "Create".

For more information, please go to the links below:

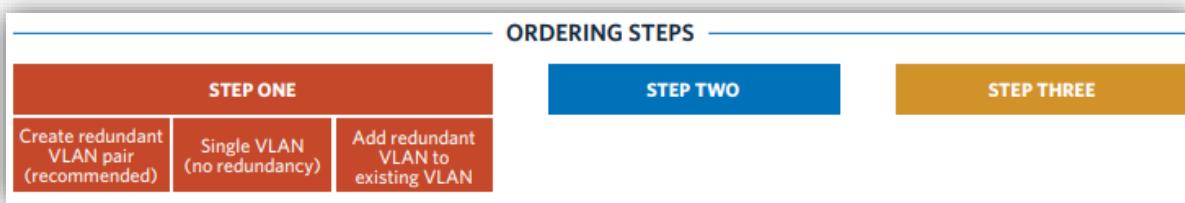
264. <https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/manage-resource-groups-portal>
265. <https://docs.microsoft.com/en-us/linkedin/shared/api-guide/best-practices/secure-applications>
266. <https://docs.microsoft.com/en-us/azure/app-service/configure-authentication-provider-aad>
267. <https://docs.microsoft.com/en-us/azure/active-directory/develop/howto-create-service-principal-portal#get-application-id-and-authentication-key>
268. <https://docs.microsoft.com/en-us/azure/expressroute/expressroute-howto-circuit-portal-resource-manager>



How it Works

Creating a Layer 2 Connection to Google

This section outlines the process to create Google Cloud Partner Interconnect circuits using the Google Console and how to provision Layer 2 circuits (EVCs) to Google Cloud using the CoreSite Open Cloud Exchange®. Before this process can begin, the Open Cloud Exchange® port(s) must be operational, and the customer must have an active Google Account.



STEP 1: CREATING THE GCP VLAN ATTACHMENT

Prior to ordering your EVC from CoreSite you must create your VLAN Attachment in the Google Cloud Platform Console. To login into the console, you can click [here](#):

269. From the Dashboard, click on the menu icon at the top left corner of the screen to reveal the menu blade. (Figure 1A)

NOTE:

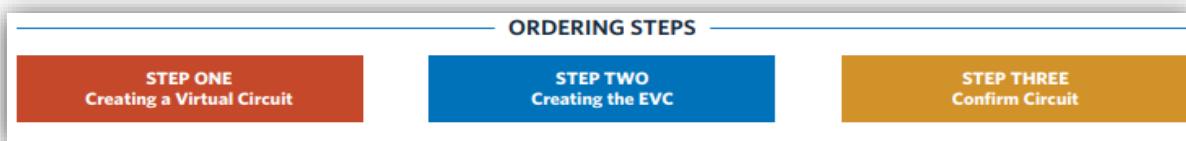
If you have multiple projects created, ensure you are in the correct project. Click on the drop-down menu in the blue bar at the top of the page next to 'Google Cloud Platform'. (Figure 1B).

270. Scroll down to the 'NETWORKING' section.
271. Click on the 'VLAN attachments' tab.
272. Click on the 'Add VLAN attachment' button.
273. Select the radio button next to 'Partner Interconnect' and click the 'CONTINUE' button. (Figure 2A and 2B)
274. Click on the 'I already have a service provider' button. (Figure 3)

How it Works

Creating a Layer 2 Connection to Oracle

This section outlines the process to create Oracle FastConnect circuits in the Oracle Console using an Oracle Provider and how to provision L2 circuits (EVCs) to Oracle FastConnect using the CoreSite Open Cloud Exchange®. Before this process can begin, the Open Cloud Exchange® port(s) must be operational, and the customer must have an active Oracle account.



STEP 1: ORACLE CLOUD CONSOLE

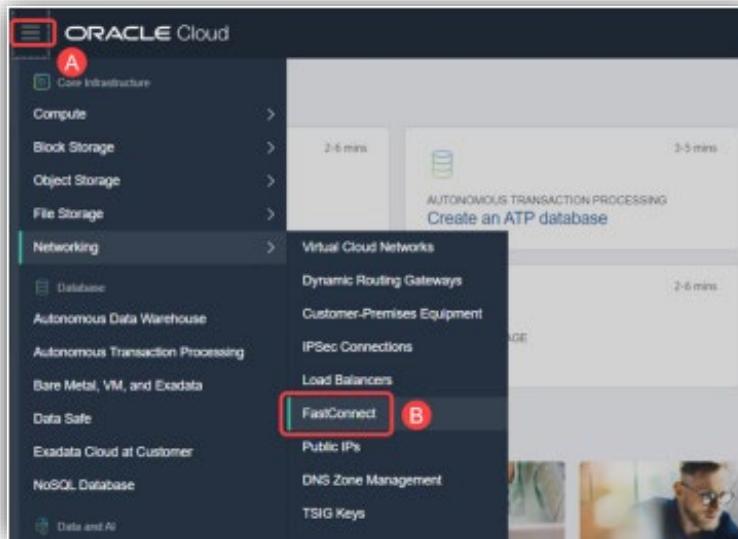
Prior to ordering your EVC from CoreSite you must create your virtual circuit(s) in the Oracle Cloud Console. To login into the console, you can click [here](#). When creating your virtual circuits, you will be given the option to create public or private circuits. For detail on how to create your virtual circuit see below:

How it Works

Creating a Virtual Circuit

275. From the Dashboard, click on the menu icon (bars) at the top left corner of the screen to reveal the menu blade. (Figure 1A)

- Under 'Core Infrastructure', select 'Networking' and then click on 'FastConnect'. (Figure 1B)





How it Works

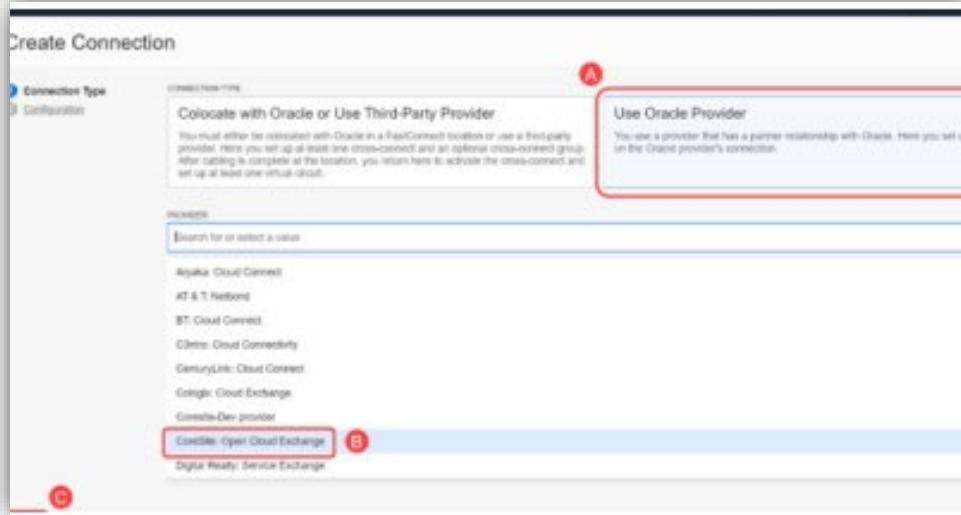
276. Click on the 'Create FastConnect' button.

The screenshot shows the Oracle Cloud Networking interface. On the left, there's a sidebar with various networking options: Virtual Cloud Networks, Dynamic Routing Gateways, Customer-Premises Equipment, IPSec Connections, Load Balancers, FastConnect (which is selected and highlighted in blue), Public IPs, DNS Zone Management, TSIG Keys, Traffic Management Steering Policies, and HTTP Redirects. The main area is titled "FastConnect Connections in Coresite" and contains a brief description: "FastConnect is a connection between a customer's on-premises network and the Oracle Cloud Infrastructure network." Below this is a table titled "Create FastConnect". The table has two columns: "Name" and "Lifecycle State". There are eight rows in the table, each representing a different FastConnect connection. The first seven connections are in a "Provisioned" state, indicated by a green dot. The last row is in a "Pending Provider" state, indicated by an orange dot.

Name	Lifecycle State
fastconnect-1234567890123456	● Provisioned
fastconnect-1234567890123456	● Provisioned
fastconnect-1234567890123456	● Provisioned
fastconnect-1234567890123456	● Pending Provider
fastconnect-1234567890123456	● Provisioned
fastconnect-1234567890123456	● Provisioned
fastconnect-1234567890123456	● Pending Provider

How it Works

277. Choose 'Use Oracle Provider'. (Figure 3A)
- Choose 'CoreSite: Open Cloud Exchange'® in the 'PROVIDER' drop-down menu. (Figure 3B) b. Click the 'Next' button.



NOTE:

From here you will either chose a PUBLIC or PRIVATE VIRTUAL CIRCUIT. Please refer to either the Private or Public Virtual Circuit ordering in the following steps.

ORDERING A PRIVATE VIRTUAL CIRCUIT (SEE PAGE 5 FOR ORDERING A PUBLIC VIRTUAL CIRCUIT)

278. Choose 'Private Virtual Circuit' under 'VIRTUAL CIRCUIT TYPE'. Complete the following fields accordingly:

Name (Optional):	Name the FastConnect virtual circuit.
Compartment:	Choose the appropriate compartment. This is where the FastConnect circuit will be provisioned.



How it Works

Dynamic Routing Gateway In (Compartment Name here):	Choose an existing Dynamic Routing Gateway (aka DRG).
Provisioned Bandwidth:	Choose your desired bandwidth. The choices are 1, 2, 5 or 10 Gbps.

The screenshot shows the 'Create Connection' wizard in the Oracle Cloud interface. The current step is 'Configuration'. The connection type selected is 'Private Virtual Circuit'. A red box labeled 'A' highlights the 'Private Virtual Circuit' section, which contains a note: 'Private IP addresses are advertised (typically RFC 1918). The connection uses a dynamic routing gateway that you attach to our VCN.' Below this, another section is labeled 'Public Virtual Circuit' with a note: 'Oracle Cloud Infrastructure public IP addresses are advertised (for example, for Object Storage). You also provide the public IP prefixes that you want to advertise.' The configuration fields include:

- DRG: core-drg
- Provisioned Bandwidth: 1 Gbps
- CUSTOMER BGP IP ADDRESS: 10.0.0.26/30
- ORACLE BGP IP ADDRESS (OPTIONAL): 10.0.0.26/30
- CUSTOMER BGP PORT: 64777
- USE A BGP PEER AUTHENTICATION KEY (OPTIONAL): This is a one-way Cisco-style MD5 authentication.

At the bottom, there are 'Previous', 'Next Step', and 'Cancel' buttons. The 'Next Step' button is highlighted with a red box labeled 'B'.

How it Works

Customer BGP IP Address:	Enter a private IP address (within RFC-1918 range) for your on-premises router: 279. This needs to be a /30 subnet (255.255.255.252) and will be the last host. 280. Must be in a CIDR format (e.g., 10.0.0.22 /30). 281. If the IP address is already in use within the selected DRG (see Step 4c), it will inform you before you can proceed to create the FastConnect circuit.
Oracle BGP IP Address (Optional):	Enter a private IP address (within RFC-1918 range): 282. This needs to be a /30 subnet (255.255.255.252) and will be the first host. 283. Must be in a CIDR format (e.g., 10.0.0.21 /30). 284. If the IP address is already in use within the selected DRG (see Step 4c), it will inform you before you can proceed to create the FastConnect circuit.

IP Network 10.0.0.20/30 is already in use on DRG

[Previous](#)

[Create](#)

[Cancel](#)



How it Works

Customer BGP ASN:

Enter an AS number belonging in the private range (e.g., 64555). h.
(Optional) USE A BGP MD5 AUTHENTICATION KEY: Check mark the box if your system requires MD5 authentication. (Figure 6A)

285. If you choose to select this option, a field will appear where you must enter the BGP MD5 authentication key. (Figure 6B)

- Click on the 'Create' button. (Figure 4B)

Figure 6
Private VC

A USE A BGP MD5 AUTHENTICATION KEY OPTIONAL
Provide a key only if your system requires MD5 authentication.

B BGP MD5 AUTHENTICATION KEY

286. Wait for the FastConnect virtual circuit to be created.

287. Once complete, an OCID key will be listed next to 'OCID' in an abbreviated format. (Figure 7A)

Figure 7
Private VC

test-fastconnect-1

Virtual Circuit Information BGP Information Tags

Lifecycle State: ● Pending Provider
Provider Name: CoreSite-Dev provider
Virtual Circuit Type: Private
Created: Fri, Mar 13, 2020, 17:11:47 UTC
OCID: ...Sachgo [Show](#) [Copy](#)

BGP Status: ● Down
Connection Type: Provider
Provisioned Bandwidth: 1 Gbps
BGP MD5 Authentication: Not Enabled
Dynamic Routing Gateway: dc-test-dg

How it Works

ORDERING A PUBLIC VIRTUAL CIRCUIT

(See page 3 for ordering a Private Virtual Circuit)

288. Choose 'Public Virtual Circuit' under 'VIRTUAL CIRCUIT TYPE'. Complete the following fields accordingly: (Figure 8A)

Name (Optional):	Name the FastConnect virtual circuit.
Compartment:	Choose the appropriate compartment. This is where the FastConnect circuit will be provisioned.
Provisioned Bandwidth:	Choose your desired bandwidth. The choices are 1, 2, 5 or 10 Gbps.
Public IP Prefixes (Optional):	<p>Enter the list of public IP prefixes you own to advertise over this virtual circuit. (Figure 8B)</p> <p>289. You can add public IP prefixes later within the FastConnect virtual circuit.</p> <p>290. Oracle will verify ownership of each prefix.</p> <p>291. Maximum 50 prefixes.</p> <p>292. Use a comma-separated list or one prefix per line.</p>
Customer BGP ASN:	Enter your AS number. (Figure 8C)
Use a BGP MD5 Authentication Key:	<p>Checkmark the box if your system requires MD5 authentication. (Figure 9A)</p> <p>293. If you choose to select this option, a field will appear where you must enter the BGP MD5 authentication key. (Figure 9B)</p>

How it Works

294. Click on the 'Create' button. (Figure 8D)

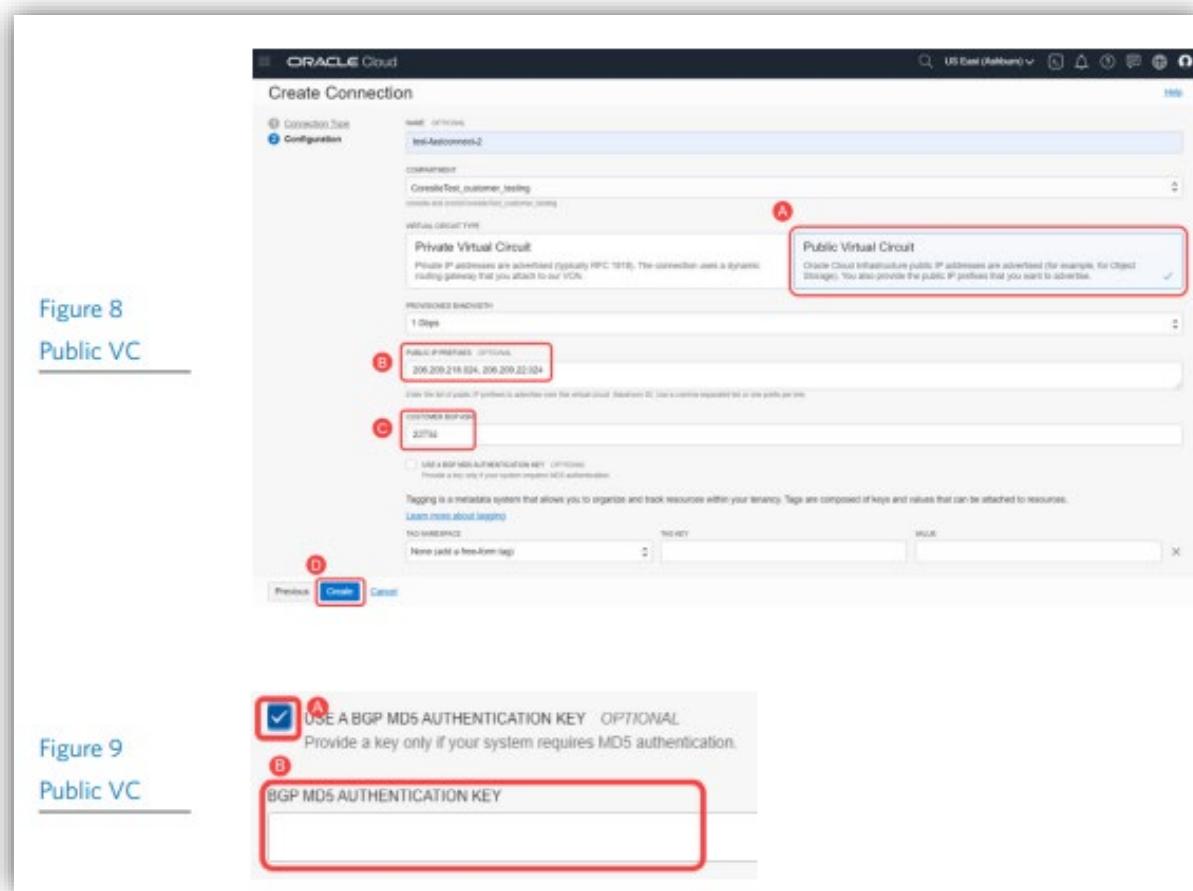


Figure 8
Public VC

Figure 9
Public VC

295. Wait for the FastConnect virtual circuit to be created.

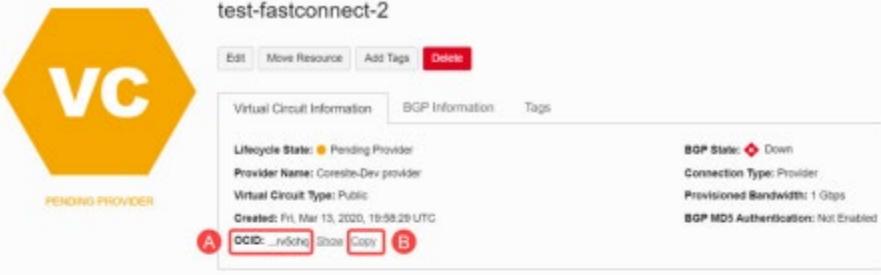
296. Once complete, an OCID key will be listed next to 'OCID' in an abbreviated format. (Figure 10A)

- Click on the 'Copy' button just to the right of the OCID key and save it somewhere (e.g., Notepad, Slack, etc.). (Figure 10B);
- You will be required to enter and validate the OCID key when you order your Open Cloud Exchange® EVC;
- The Lifecycle State will be 'Pending Provider'. (Figure 11B);

How it Works

- The newly created FastConnect virtual circuit will now be listed within the FastConnect dashboard. (Figure 11A)

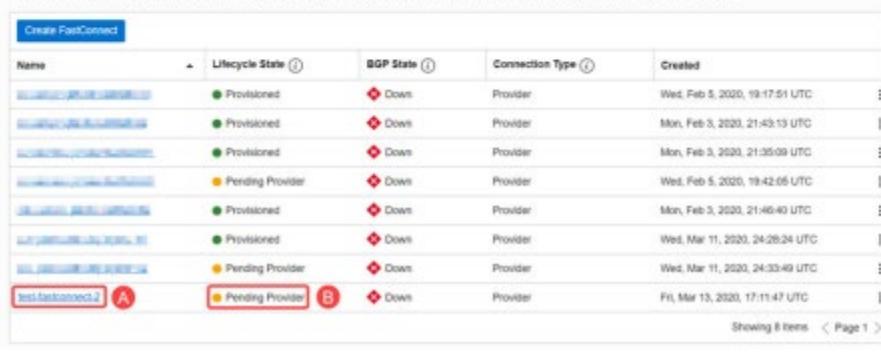
**Figure 10
Public VC**



Name	Lifecycle State	BGP State	Connection Type	Created
test-fastconnect-2	Pending Provider	Down	Provider	Fri, Mar 13, 2020, 19:58:29 UTC
test-fastconnect-1	Provisioned	Down	Provider	Mon, Feb 3, 2020, 21:49:13 UTC
test-fastconnect-3	Provisioned	Down	Provider	Mon, Feb 3, 2020, 21:55:09 UTC
test-fastconnect-4	Pending Provider	Down	Provider	Wed, Feb 5, 2020, 19:42:06 UTC
test-fastconnect-5	Provisioned	Down	Provider	Mon, Feb 3, 2020, 21:46:40 UTC
test-fastconnect-6	Provisioned	Down	Provider	Wed, Mar 11, 2020, 24:28:24 UTC
test-fastconnect-7	Pending Provider	Down	Provider	Wed, Mar 11, 2020, 24:33:49 UTC
test-fastconnect-8	Pending Provider	Down	Provider	Fri, Mar 13, 2020, 17:11:47 UTC

FastConnect Connections in CoresiteTest_customer_testing Compartments
FastConnect is a connection between a customer's on-premises network and Oracle Cloud Infrastructure over a private physical network instead of the Internet.

**Figure 11
Public VC**



Name	Lifecycle State	BGP State	Connection Type	Created
test-fastconnect-2	Pending Provider	Down	Provider	Fri, Mar 13, 2020, 19:58:29 UTC
test-fastconnect-1	Provisioned	Down	Provider	Mon, Feb 3, 2020, 21:49:13 UTC
test-fastconnect-3	Provisioned	Down	Provider	Mon, Feb 3, 2020, 21:55:09 UTC
test-fastconnect-4	Pending Provider	Down	Provider	Wed, Feb 5, 2020, 19:42:06 UTC
test-fastconnect-5	Provisioned	Down	Provider	Mon, Feb 3, 2020, 21:46:40 UTC
test-fastconnect-6	Provisioned	Down	Provider	Wed, Mar 11, 2020, 24:28:24 UTC
test-fastconnect-7	Pending Provider	Down	Provider	Wed, Mar 11, 2020, 24:33:49 UTC
test-fastconnect-8	Pending Provider	Down	Provider	Fri, Mar 13, 2020, 17:11:47 UTC

STEP 2: ORDERING YOUR OPEN CLOUD EXCHANGE® EVC

297. Login to the MyCoreSite customer service delivery platform.
298. Select Order Services and Support.
299. Choose Interconnection.
300. Order OCX.
301. Select EVC.
302. Click Order.

How it Works

New EVC(s) Order Form: Oracle

303. Input Contact Information:
 - Select Account and Site;
 - Enter the Point of Contact (Up to 5 contacts).
304. Select Target:
 - Account: Oracle Cloud FastConnect;
 - Oracle Cloud Identifier (OCID): Captured in Figure 7;
 - Port: Select target port 3. Enter Buyer Details;
 - Port: Populate buyer port;
 - Buyer VLAN (Available range: 400-899 or leave blank for auto selection);
 - Service Rate: 1, 2, 5 or 10 Gbps;
 - Name your EVC;
 - • Enter a Description
305. Agree to Terms and Conditions.
306. Press Submit Order.

How it Works

STEP 3: CONFIRMING YOUR CIRCUIT

307. After submitting the order, the EVC(s) will be configured, and confirmation emails are sent to the buyer and target with the connection details including the relevant buyer and target VLAN information.

Order Number: [REDACTED]
Open Cloud Exchange, OCX EVC Add has been Closed

An Open Cloud Exchange - 501 to 1000Mbps EVC, product has been successfully provisioned with the following configurations:

Buyer Account: [REDACTED]
Buyer Site Address: LA1
Buyer Port Id: [REDACTED]
Buyer EVC Name: Test T24432 on SLX Port for Mulesoft
Buyer VLAN ID: 870
Service Rate: 1,000

Target Account: Oracle America, Inc. - LA2
Target Port ID: [REDACTED]
Oracle VLAN ID: 862
Oracle Cloud Identifier (OCID): [REDACTED]

For additional information, please click on the Order ID# [REDACTED] or visit MyCoreSite.com to view the Order details.

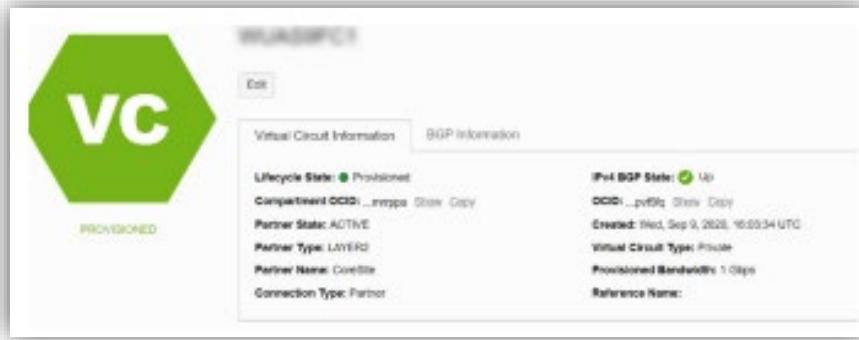
If this request was expedited, additional non-recurring charges may apply.

CORESITE
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+1.303.405.1000
Info@CoreSite.com
www.CoreSite.com

Please be advised this is an automated message from an unmonitored e-mail account. If you have questions regarding any of the information received or require further assistance from a CoreSite representative, please contact us using the contact information above.

How it Works

308. After you've ordered your EVC in the CoreSite Customer Service delivery platform you will see your Virtual Circuit in the Oracle Cloud Console turn green and listed as "Provisioned".



Creating a Connection to an OCX Participant

NOTE:

At this time, only Layer 2 EVCs are supported between OCX participants

NAVIGATING TO THE EVC ORDER FORM

309. Follow Steps 1 to 4 in the "ordering OCX services" section to navigate to the Port ordering page.
310. Click on the "EVC" tile and click "continue".
311. On the next screen, select the tile that displays "Connect to a service provider or other OCX participant."

How it Works

312. Select the tile that displays “Connect to an OCX Participant” and click “Continue”.

HOME > ORDER SERVICES & SUPPORT > INTERCONNECTION

EVC Ordering

Select which type of EVC Product you would like to provision by clicking on the applicable product tile below.

Please select a product to start the ordering process. Then select **Continue**.

Connect to a service provider or other OCX participants

Connect a Virtual Router to an OCX Port

Please select a service provider or an OCX participant. Then select **Continue**.

Connect to a service provider

Connect to an OCX participant

BACK
CONTINUE

COMPLETING THE EVC ORDER FORM

Part 1: Fill out the required data fields in the EVC order form:

- 313. Select Account.
- 314. Select Site.
- 315. Confirm Contact detail information.
- 316. (Optional) Add additional contacts.
- 317. Select the target account.
- 318. Select the target port.
- 319. Select the buyer port.
- 320. (Optional) Specify a VLAN.
- 321. Select the desired Service Rate.

How it Works

322. Provide a unique name for your EVC.
323. (Optional) provide a reference label and number.
324. Provide a Description. If a description is not needed then please enter "N/A".
325. Agree to the terms and conditions.
326. Click "Submit Request".

After completing Step 14, the order will be submitted and automated provisioning will begin. No other action is required at this time.

Enabling Layer 3 Connections between Different Cloud Environments

PREREQUISITES

327. An existing (Active) Virtual Router.
328. Understand how you would like to set up your IP space.
329. Cloud Provider 1 Subnet.
330. Cloud Provider 2 Subnet.

To enable connectivity between cloud providers, follow the steps outlined below:

Step 1:	Create a Layer 3 EVC to the first cloud service provider.
Step 2:	Create a Layer 3 EVC to the second cloud service provider.
Step 3:	Tie your networks together using Dynamic Routing.

EXAMPLE USE CASE

This example will provide a walkthrough of how to enable cloud to cloud connectivity between AWS and Microsoft Azure. We will assume that AWS is the first cloud provider and Microsoft Azure as the second (Secondary) cloud provider.

STEP 1: CREATE A LAYER 3 EVC BETWEEN YOUR VR AND AWS

Follow the detailed steps located in the the section of this document titled "Creating a Layer 3 connection to AWS". Once all steps are completed, automated provisioning will take place to build your EVC to AWS. Upon successful automated provisioning, your EVC will show an "Active" status.



How it Works

HOME > ORDER SERVICES & SUPPORT > INTERCONNECTION

Virtual Connection Order Summary

CAS-121654

Provisioning
Your EVC is currently being provisioned.

Review Layer 3 EVC Order Details

Target Service Provider Amazon	Target Location Microsoft ExpressRoute (New York)	Target Port CH1.05.MDF.05.COR.01-IF 03-SFP+ 08:2
AWS Account ID Acme Inc. - LA1	Virtual Interface Type Public	
Buyer Details		
Buyer Account Acme Inc. - LA1	Virtual Router MyVR CAS-121654	
Service Details		
Service Number SVC-001559635	Status Active	Service Start Date 9/6/2018
Monthly Recurring Cost \$500.00	EVC Name LAVR1	EVC Invoice Label LAVR1
AS Number 65534	IP Address 10.46.129.46	Service Rate 1 Gbps
Contact Info		
Point of Contact John Smith	Email example@mail.com	Phone Number (123) 456-7891



How it Works

STEP 2: CREATE A LAYER 3 EVC BETWEEN YOUR VR AND MICROSOFT AZURE

Follow the detailed steps located in the section of this document titled “Creating a Layer 3 connection to Azure”. Once all steps are completed, automated provisioning will take place to build your EVC to Azure. Upon successful automated provisioning, your EVC will show an “Active” status.

HOME > ORDER SERVICES & SUPPORT > INTERCONNECTION

Virtual Connection Order Summary

CAS-121654

Provisioning
Your EVC is currently being provisioned

Review Layer 3 EVC Order Details

Target Service Provider	Target Location	Target Port
Microsoft Azure	Microsoft ExpressRoute (New York)	CH1.05.MDF.05.COR.01-IF 03-SFP+ 08.2

Service Key	Peering Type
	Public

Buyer Details

Buyer Account	Virtual Router
Acme Inc. - LA1	MyVR CAS-121654

Service Details

Service Number	Status	Service Start Date
SVC-001559635	Active	9/6/2018

Monthly Recurring Cost	EVC Name	EVC Invoice Label
\$500.00	LAVR1	LAVR1

AS Number	IP Address	Service Rate
65534	10.46.129.46	1Gbps

Contact Info

Point of Contact	Email	Phone Number
John Smith	example@mail.com	(123) 456-7891

STEP 3: SET UP DYNAMIC ROUTING TABLES TO ALLOW COMMUNICATION BETWEEN CLOUD ENVIRONMENTS

This step in the process outlines the necessary steps that need to be taken for traffic to flow from one cloud environment to another.

331. Navigate to the OCX Dashboard and locate the EVC inventory screen.

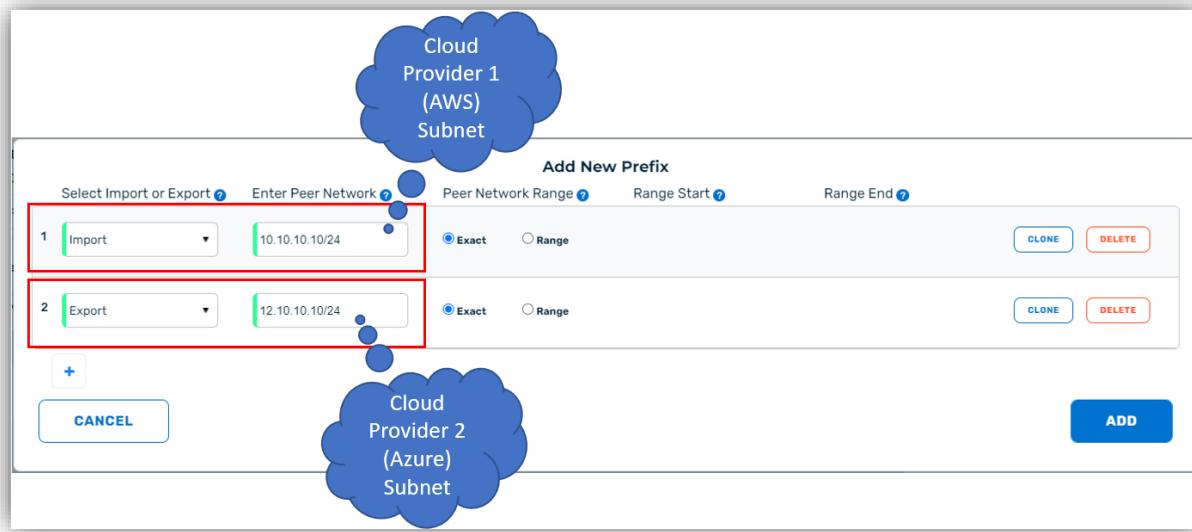
How it Works

332. Select the EVC in which you wish to enable cloud to cloud connectivity and click the hyperlinked service number.
333. Click the "Routing Policies" tab.
334. To add a new prefix, click the "Add New Prefix" button. To modify an existing entry, locate the prefix and click the "Edit" button.
335. A modal window will appear for users to make changes to their routing table.
336. In the policy field, select "Import" and enter the subnet associated to the first cloud environment:
 - For this example, we are enabling connectivity between an AWS (1) and Microsoft Azure (2) cloud environment. This step requires users to provide the AWS subnet. The policy type to apply should be set an import policy.
337. Select the network range.
338. Click the "+" button to have another row generated.
339. In the policy field, select "Export" and enter the subnet associated to the secondary Cloud environment:
 - For this example, we are enabling connectivity between an AWS (1) and Microsoft Azure (2) cloud environment. This step requires users to provide the Azure subnet. The policy type to apply should be an export policy.

How it Works

NOTE:

For Steps 5 to 9, see image below.



340. Click the "Add" button. Once the "Add" button is clicked, the information will be saved and applied to your EVC.

341. Repeat Steps 1 –to10 for the Microsoft Azure EVC (or secondary EVC). Steps 1 to 10 must be completed for the secondary cloud provider EVC to complete the routing table between both cloud environments.

342. After all steps are complete for both EVCs, the process will be complete and the two cloud environments can begin exchanging traffic.

NOTE:

Setting up routing policies for your prefixes can be done at the time of EVC creation or after users have submitted their EVC requests.



How it Works

Managing Your Services

OCX DASHBOARD

The OCX Dashboard provides users with a comprehensive view of all services created on the Open Cloud Exchange®. In this view, users can manage their connections and view the details of their respective OCX products.

OCX Dashboard
A single view of all your Open Cloud Exchange products.

INVENTORY **MONITORING**

My Ports (30)

PORTS **VIRTUAL ROUTERS** **EVCs**

Search **DOWNLOAD**

Ports (49)
Active: [Blue] Pending: [Grey] Disconnected: [Black]

Virtual Routers (6)
Active: [Blue] Pending: [Grey] Disconnected: [Black]

EVCs (22)
Active: [Blue] Pending: [Grey] Disconnected: [Black]

ADD NEW PORT

STATUS	SERVICE NUMBER	ORDER ID	PORT SPEED	QUANTITY	PROVISIONED BANDWIDTH	SITE	SPACE ID	MRC	INSTALL DATE	BUYER ACCOUNT
Pending		CAS-02656966	Open Cloud Exchange Port - 10Gbps	1	0 EVC(s) 0Mbps	VA1	VA1-01-0114B-C1401	\$500.00		Amazon - VA1
Disconnected	SVC-001560944	CAS-01988573	Open Cloud Exchange Port - 10Gbps	2	0 EVC(s) 50Mbps	DE1	DE1-01-0140A	\$0.00	2018-09-17 00:00:00	Amazon Data Services, Inc. (fka Amazon (dba Vadata, Inc.)) - DE1
Active	SVC-001714612	CAS-02600357	Open Cloud Exchange Port - 10Gbps	2	4 EVC(s) 13350Mbps	VA1	VA1-01-0114B-C1401	\$0.00	2021-09-15 00:00:00	Amazon - VA1
Active	SVC-001602251	CAS-02101312	Open Cloud Exchange Port - 10Gbps	2	16 EVC(s) 1500Mbps	NY1	NY1-07-E700-C0714	\$0.00	2019-08-03 00:00:00	Amazon - NY1
Active	SVC-001568967	CAS-01983550	Open Cloud Exchange Port - 10Gbps	2	15 EVC(s) 1500Mbps	NY1	NY1-07-E700-C0714	\$0.00	2018-11-19 00:00:00	Amazon - NY1

Showing 1 to 5 of 30 entries Rows per page 5 **1 2 3 4 5 6 < >**

How it Works

Navigating to the OCX Dashboard

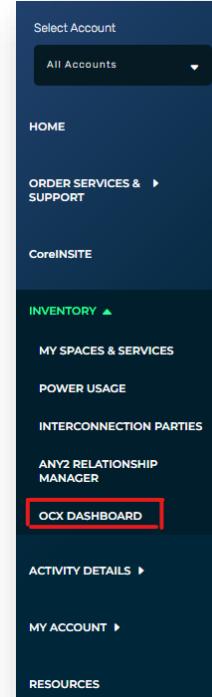
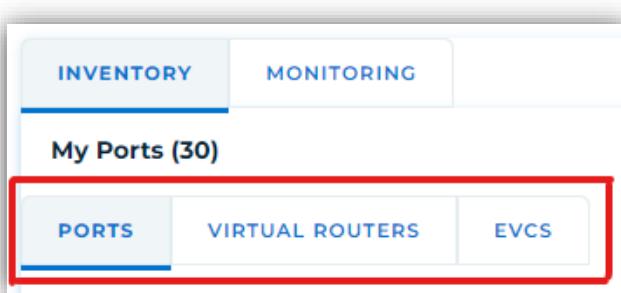
343. Navigate to the menu pane on the left-hand side of the screen.
344. Click "Inventory".
345. Click "OCX Dashboard".

INVENTORY VIEW

The inventory view provides users the ability to manage and take action on the OCX products associated with their account. In this view, users can view their ports, Virtual Routers, and EVCs.

Toggling Between Different Products

To view different products, click on the different tabs displayed on screen.



Ports:	Comprehensive view of all Port Services with your account.
Virtual Routers:	Comprehensive view of all Virtual Router Services with your account.
EVCs:	Comprehensive view of all EVCs with your account.

MONITORING

The monitoring view provides users with information regarding traffic information on their active ports.

How it Works

To View Monitoring information

346. Click the “Monitoring” tab at the top of the screen.



347. Select the correct service type: Click the “Ports” or “EVCS” tab.
348. Locate the Service in the table presented:
- You may also utilize the “Search” function in the top right-hand side of the screen.
349. Once you have located the service, click “View Monitoring”.

SERVICE NUMBER	PORT NAME	SITE	SPACE ID	ACTION
SVC-001714612	VA2.01.MDF.01.COR.02.F-IF 18-SFP+ 08	VA1	VA1-01-0114B-C1401	View Monitoring
SVC-001602251	NY1.07.CR07.MDF.01.COR.02.F-IF16.SFP+06	NY1	NY1-07-E700-C0714	View Monitoring

DISCONNECTING YOUR SERVICES

To disconnect a service, users must navigate to the “Service Details” page for the service in question. Follow the steps below to navigate to the “Service Details”.

Navigating to the Service Details Page

350. Navigate to the Inventory screen of the OCX Dashboard.
351. Select the Service Type: Ports, Virtual Routers, or EVCS.



How it Works

352. Locate the service you wish to disconnect and click the Hyperlinked Service Number in the "Service Number" column.

NOTE:

Only "Active" services can be disconnected.

STATUS	SERVICE NUMBER	ORDER ID	PORT SPEED	QUANTITY	PROVISIONED BANDWIDTH	SITE	SPACE ID	MRC	INSTALL DATE	BUYER ACCOUNT
Pending		CAS-02656966	Open Cloud Exchange Port - 10Gbps	1	0 EVC(s) 0Mbps	VA1	VA1-01-0114B-C1401	\$500.00		Amazon - VA1
Disconnected	SVC-001560944	CAS-01958573	Open Cloud Exchange Port - 10Gbps	2	0 EVC(s) 50Mbps	DE1	DE1-01-0140A	\$0.00	2018-09-17 00:00:00	Amazon Data Services, Inc. (fka Amazon (dba Vadata, Inc.)) - DE1
Active	SVC-001714612	CAS-02600357	Open Cloud Exchange Port - 10Gbps	2	4 EVC(s) 13350Mbps	VA1	VA1-01-0114B-C1401	\$0.00	2021-09-15 00:00:00	Amazon - VA1
Active	SVC-001602251	CAS-02101512	Open Cloud Exchange Port - 10Gbps	2	16 EVC(s) 1500Mbps	NY1	NY1-07-E700-C0714	\$0.00	2019-08-03 00:00:00	Amazon - NY1
Active	SVC-001568967	CAS-01983550	Open Cloud Exchange Port - 10Gbps	2	15 EVC(s) 1500Mbps	NY1	NY1-07-E700-C0714	\$0.00	2018-11-19 00:00:00	Amazon - NY1

353. Once the Service Details Page is presented, scroll to down the page, and click the "Disconnect" button.

354. Users will then be prompted to fill out additional fields associated with the disconnect request.

355. Confirm Point of Contact information and add additional contacts if desired.

356. Complete the "Disconnect Details" section of the form.

357. Agree to the Terms and Conditions.

358. Click "Submit Request".

NOTE:

Complete Steps 1 to 9 for each service that you wish to disconnect.

How it Works

Routing Tables and Management

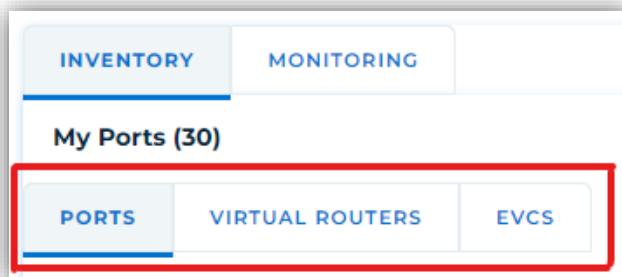
NOTE:

The OCX only supports Private IP address space at this time.

STATIC ROUTES

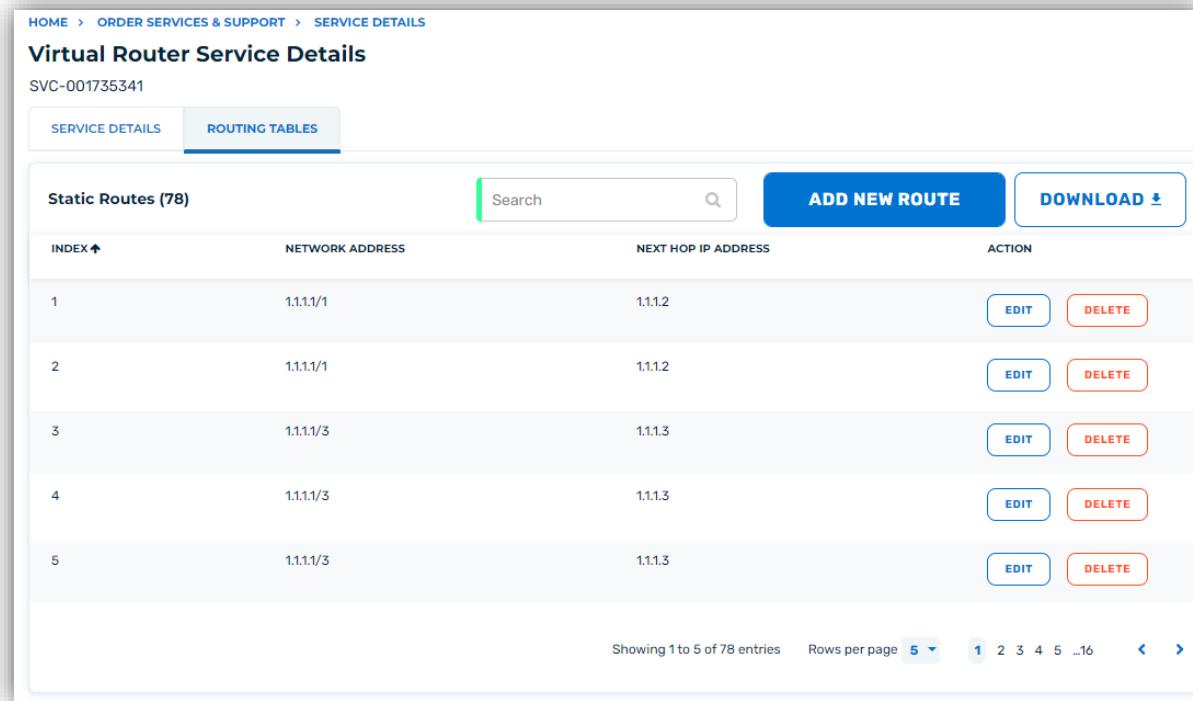
Users can manage their Static Route Tables via the Virtual Router Service Details. To Navigate to the Virtual Router Service Details, follow the steps below:

359. Navigate to the menu pane on the left-hand side of the screen.
360. Click "Inventory".
361. Click "OCX Dashboard".
362. From there, select the Virtual Router product.
363. Navigate to the Virtual Router service you wish to modify and click on the hyperlinked service number. This will lead you to the Virtual Router Service Details page.
364. Once you are in the Virtual Router Service Details page, click on "Routing Tables".



How it Works

365. From there, users will be able to add new routes, edit existing routes, or delete existing routes.



HOME > ORDER SERVICES & SUPPORT > SERVICE DETAILS

Virtual Router Service Details

SVC-001735341

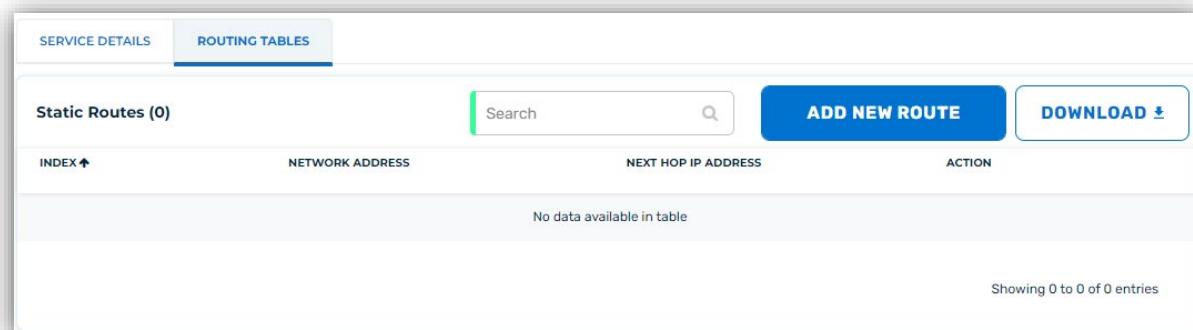
Static Routes (78)		Search	ADD NEW ROUTE	DOWNLOAD
INDEX	NETWORK ADDRESS	NEXT HOP IP ADDRESS	ACTION	
1	1.1.1.1	1.1.1.2	EDIT	DELETE
2	1.1.1.1/1	1.1.1.2	EDIT	DELETE
3	1.1.1.1/3	1.1.1.3	EDIT	DELETE
4	1.1.1.1/3	1.1.1.3	EDIT	DELETE
5	1.1.1.1/3	1.1.1.3	EDIT	DELETE

Showing 1 to 5 of 78 entries Rows per page 5 1 2 3 4 5 ... 16 < >

Adding New Static Routes

To add new Static routes:

366. Navigate to the Virtual Router Service Details Page and click the "Add New Route" Button. A new Modal window will appear.



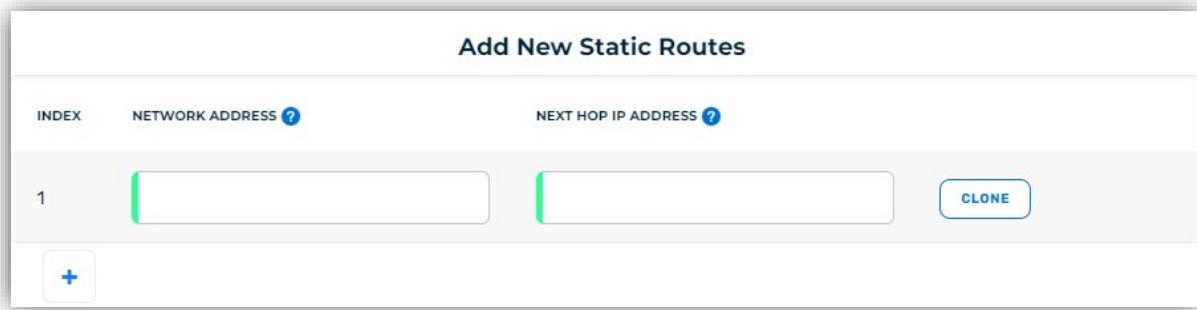
Static Routes (0)		Search	ADD NEW ROUTE	DOWNLOAD
INDEX	NETWORK ADDRESS	NEXT HOP IP ADDRESS	ACTION	
No data available in table				

Showing 0 to 0 of 0 entries

367. Next, provide the Network Address in CIDR Format.

How it Works

368. Provide the next hop IP address.



INDEX	NETWORK ADDRESS ?	NEXT HOP IP ADDRESS ?
1	<input type="text"/>	<input type="text"/> CLONE
+		

369. (Optional) Users may click on the “+” button to add more static routes:
- Clicking the “Clone” button will automatically add another instance of the static route that is cloned.
370. After all Static Routes are entered, click the “Add” button on the bottom right corner to save the routes and apply the changes to your Virtual Router.

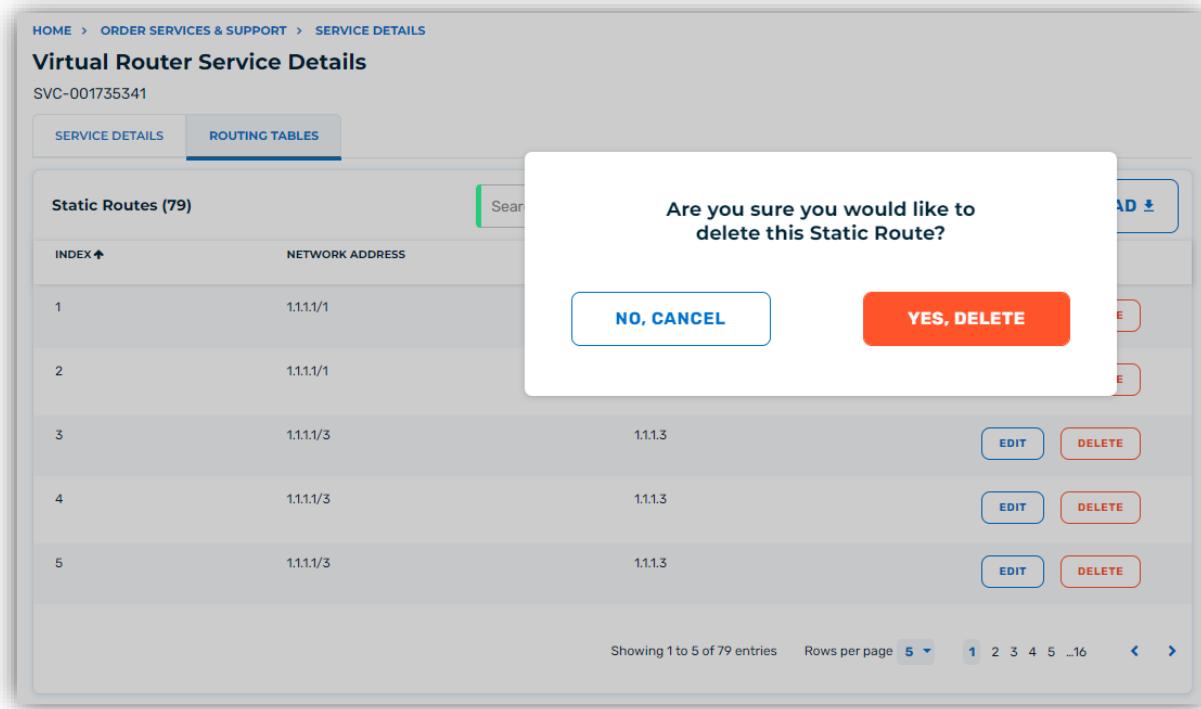
Deleting a Static Route

To delete a Static route:

371. Navigate to the Virtual Router Service Details Page.
372. Locate the Static Route that you wish to delete in the routing table.
373. Click the “Delete” button.

How it Works

374. Confirm that you wish to delete the static route and click “Yes, Delete”.



After completing Step 4, the static route will be deleted from the routing table.

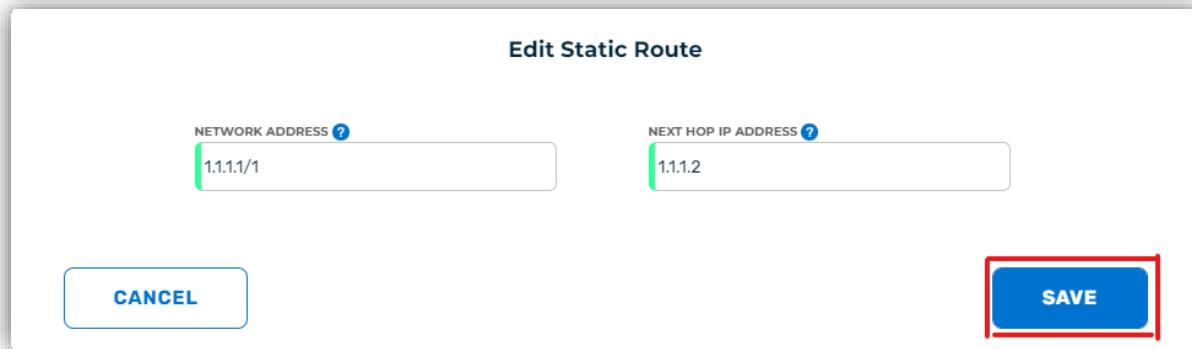
Editing an Existing Static Route

To edit / modify an existing Static route:

375. Navigate to the Virtual Router Service Details Page.
376. Locate the Static Route that you wish to delete in the routing table.
377. Click the “Edit” button. A modal window will appear and allow changes to be made to the existing static route.

How it Works

378. After making the desired changes, click the "Save" button.



After Step 4, the changes made to the static route will be applied.

DYNAMIC ROUTING

NOTE:
The OCX only supports Private IP address space at this time.

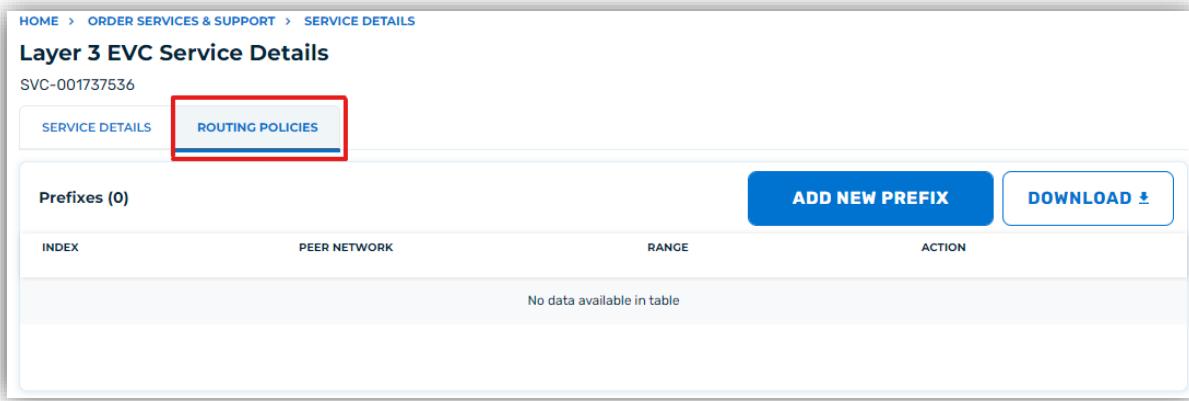
Prefixes

Users can manage their Dynamic Route Tables via the EVC Service Details. To Navigate to the EVC Service Details, follow the steps below:

379. Navigate to the Inventory screen of the OCX Dashboard.
380. Select the "EVC" Tab.
381. Locate the service you wish to apply changes to and click the Hyperlinked Service Number in the "Service Number" column. After clicking the hyperlinked Service Number, the Service Details Page will be presented.

How it Works

382. Next, select the “Routing Policies” Tab at the top the page.



The screenshot shows the 'Layer 3 EVC Service Details' page. At the top, there is a breadcrumb navigation: HOME > ORDER SERVICES & SUPPORT > SERVICE DETAILS. Below the breadcrumb, the service ID 'SVC-001737536' is displayed. There are two tabs: 'SERVICE DETAILS' and 'ROUTING POLICIES', with 'ROUTING POLICIES' being the active tab and highlighted with a red box. The main content area is titled 'Prefixes (0)'. It contains four columns: INDEX, PEER NETWORK, RANGE, and ACTION. A blue button labeled 'ADD NEW PREFIX' is located above the table, and a blue button labeled 'DOWNLOAD' with a download icon is located to its right. A message 'No data available in table' is centered below the table header.

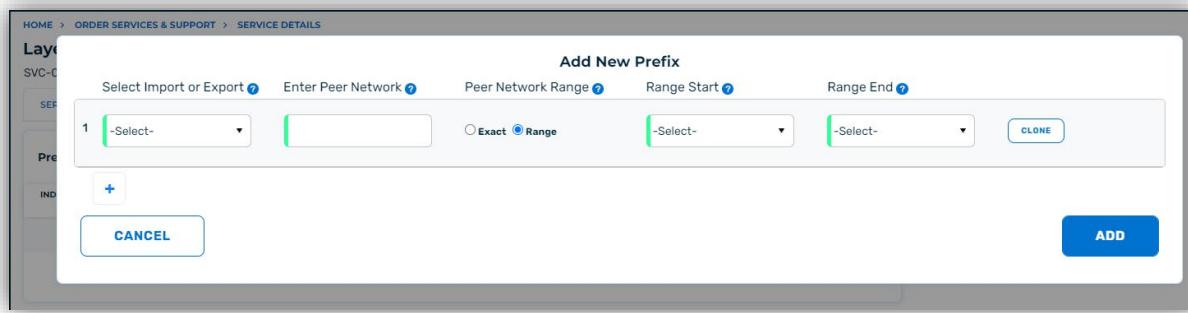
From this screen, users will be able to add new prefixes or modify / delete any existing prefixes.

Adding New Prefixes

383. Navigate to the Layer 3 EVC Service Details Page.
384. Click “Add New Prefix”. A modal window will appear, and users will be prompted to fill out additional fields associated with the prefix add.
385. Select the policy to be applied to the prefix.
386. Enter the peer network in CIDR format.
387. Select the Network Range:
- If “range” is selected, provide the range start and end.
388. (Optional) Users may click on the “+” button to add more static routes:
- Clicking the “Clone” button will automatically add another instance of the static route that is cloned.

How it Works

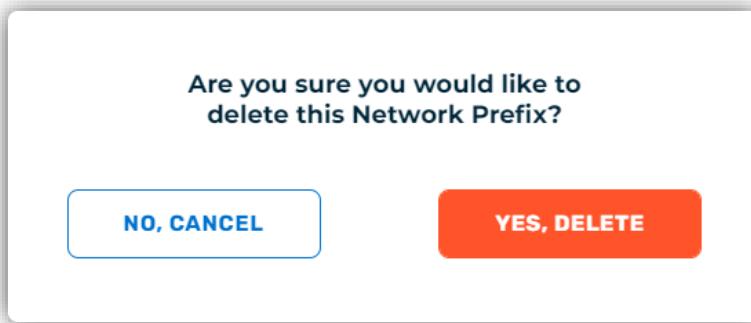
389. After all Prefixes are entered, click the “Add” button on the bottom right corner to save the routes and apply the changes to your EVC.



Deleting a Prefix

To delete a prefix:

390. Navigate to the Layer 3 EVC Service Details Page.
391. Locate the prefix that you wish to delete in the routing table.
392. Click the “Delete” button.
393. Confirm that you wish to delete the static route and click “Yes, Delete”.



After completing Step 4, the prefix will be deleted from the routing table.

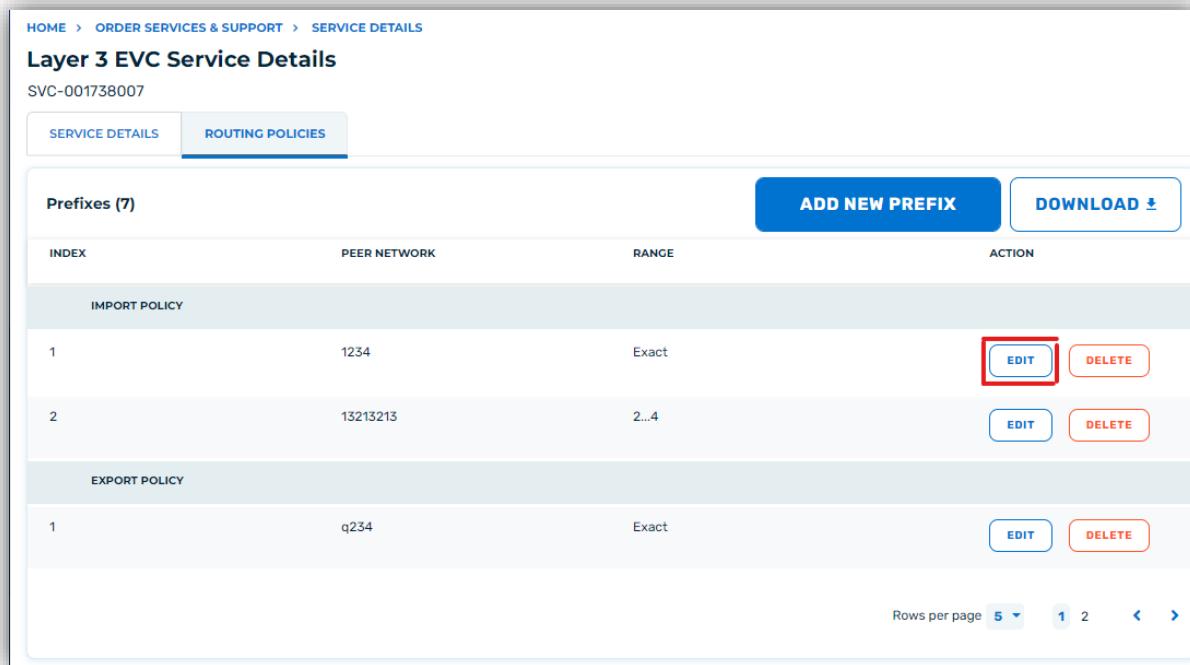
EDITING AN EXISTING STATIC ROUTE

To edit / modify an existing Static route:

394. Navigate to the Layer 3 EVC Service Details Page.
395. Locate the prefix that you wish to modify in the routing table.

How it Works

396. Click the “Edit” button. A modal window will appear and allow changes to be made to the existing prefix.



HOME > ORDER SERVICES & SUPPORT > SERVICE DETAILS

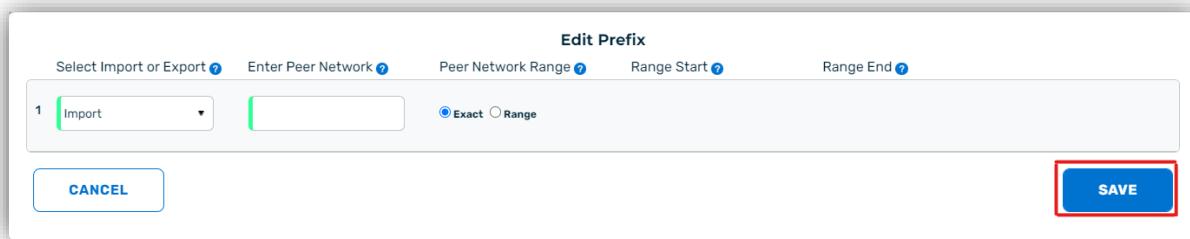
Layer 3 EVC Service Details

SVC-001738007

Prefixes (7)				ADD NEW PREFIX	DOWNLOAD
INDEX	PEER NETWORK	RANGE	ACTION		
1	1234	Exact	EDIT	DELETE	
2	13213213	2..4	EDIT	DELETE	
EXPORT POLICY					
1	q234	Exact	EDIT	DELETE	

Rows per page: 5 | 1 2 < >

397. After making the desired changes, click the “Save” button.



Edit Prefix

Select Import or Export Enter Peer Network Peer Network Range Range Start Range End

1	Import	<input type="text"/>	<input checked="" type="radio"/> Exact <input type="radio"/> Range
---	--------	----------------------	--

[CANCEL](#) [SAVE](#)

After completing Step 4, the changes made to the prefix will be applied.

How it Works

RESTRICTED IP RANGES

When setting up dynamic routing, it is important to be aware of the restricted IP ranges that are not available for use. There are two IP address blocks that are restricted:

172.31.0.0 / 16

This block is reserved for Virtual Router Loopback IP addresses.

169.254.0.0 / 16

This block is reserved for use of link-local IPv4 address space for BGP peering between virtual routers and the cloud provider infrastructure(s).

All other IP ranges are supported by CoreSite and are available for customer use.

Frequent Asked Questions (FAQ)

Q: IS THERE REDUNDANCY BUILT INTO THE OPEN CLOUD EXCHANGE® NETWORK?

A: Yes. The Open Cloud Exchange® is a dual-edge and dual-core configuration for all sites, which ensures full redundancy in the network and maximizes uptime. This includes our campus and national architecture where we always have at least two diverse routes between data centers. Note: when customers order two ports in the same market, which we strongly recommend, we will provision the ports on separate switches to ensure full diversity.

Q: DOES THE OPEN CLOUD EXCHANGE® SUPPORT 802.1AD (AKA QINQ) ENCAPSULATION OR STACKED TAGS?

A: No. The Open Cloud Exchange® only supports 802.1Q (aka dot1q).

Q: AFTER PROVISIONING MY EVC IN THE CORESITE SERVICE DELIVERY PLATFORM, WHICH VLAN SHOULD I USE WHEN CONFIGURING MY ROUTER?

A: Once an EVC has been provisioned, the buyer and target VLAN IDs will be provided. When setting up your own router, you will use the Buyer (your) VLAN ID. Note – when finalizing your peering sessions with some cloud providers, you will also need to know the Target (CSP) VLAN ID, which can be found in a confirmation email when your EVC is ordered and can also be found in the MyCoreSite customer service delivery platform on The Open Cloud Exchange® Dashboard.

Q: DO YOU SUPPORT CONNECTIVITY BETWEEN OTHER CORESITE LOCATIONS AND MARKETS THROUGH THE OPEN CLOUD EXCHANGE®?

A: Yes. Once connected to The Open Cloud Exchange®, the buyer can provision EVCs to all CoreSite locations through our inter-market connectivity. This provides a convenient option to connect your deployments with CoreSite across the country, connect to diverse cloud regions / zones and gain access to CoreSite's nationwide ecosystem.

Q: WHAT IF I WANT TO CONNECT TO A DIFFERENT OR DIVERSE CLOUD REGION?

A: Once connected to The Open Cloud Exchange® you will have access to all CoreSite locations through our inter-market connectivity, which will allow you to connect to multiple cloud regions / locations. See tables below showing cloud regions by location.

Q: IS A BGP (BORDER GATEWAY PROTOCOL) SESSION ESTABLISHED WITH CORESITE?

A: No. A BGP session is stood up between the buyer and the target customers.

Q: DOES THE OPEN CLOUD EXCHANGE® SUPPORT PROTECTED PORTS (LAG / LACP)?

A: Yes. The Open Cloud Exchange® supports dynamic LACP with the maximum of two ports in the LAG. LAG ports are set up as active / active.

Q: IS THE OPEN CLOUD EXCHANGE® MEF (METRO ETHERNET FORUM) COMPLIANT?

A: Yes. It is MEF 10.2 compliant using the UNI-to-UNI model.



Frequent Asked Questions (FAQ)

Q: DO YOU SUPPORT JUMBO FRAMES? WHAT IS THE MAX MTU (MAXIMUM TRANSMISSION UNIT) SIZE?

A: Yes; the max MTU is 9100 bytes.

Q: WHAT ARE THE SERVICE LEVEL TARGETS FOR THE OPEN CLOUD EXCHANGE'S® UPTIME AND AVAILABILITY?

A: The Open Cloud Exchange® targets the below Service Level Targets. Please note: Service Level Agreements applicable to your use of OCX is governed by your MSA.

Metric	Target
Availability	99.999%
Frame Loss Ratio (FLR)	0.01%
Frame Delay (FD)	<2 ms
Inter Frame Delay Variation (IFDV)	<0.5 ms
Mean Time to Repair (MTTR)	4 hours

Q: WHAT CLOUD PROVIDERS AND AVAILABILITY ZONES CAN BE CONNECTED THROUGH THE OPEN CLOUD EXCHANGE® AND INTER-MARKET CONNECTIVITY?

MICROSOFT EXPRESSROUTE		
CoreSite Locations	Azure Location	Local Azure Region
CH1, CH2	Chicago	North Central US
DE1, DE2	Denver	West Central US
LA1, LA2, LA3	Los Angeles	N/A
NY1, NY2, BO1	New York	N/A
SV1, SV2, SV3, SV4, SV7, SV8	Silicon Valley2	West US
VA1, VA2, VA3, DC1, DC2	Washington DC2	East US, East US2

AWS DIRECT CONNECT (HOSTED CONNECTIONS)	
CoreSite Locations	Direct Connect Region
NY1, NY2, BO1, VA1, VA2, VA3, DC1, DC2, MI	US East (N. Virginia)
CH1, CH2	US East (Ohio)
LA1, LA2, LA3, SV1, SV2, SV3, SV4, SV7, SV8	US West (N. California)
DE1, DE2	US West (Oregon)

Frequent Asked Questions (FAQ)

GOOGLE CLOUD PLATFORM

CoreSite Locations	Cloud Interconnect Region
LA1, LA2, LA3	us-west2 (Los Angeles)
DE1, DE2	us-west4 (Las Vegas)
VA1, VA2, VA3, DC1, DC2	us-east4 (Virginia)
SV1, SV2, SV3, SV4, SV7, SV8, SV9	us-west1 (Oregon)
CH1, CH2	us-central1 (Iowa)

ORACLE FAST CONNECT

CoreSite Locations	Cloud Interconnect Region
LA1, LA2, LA3	Phoenix, AZ
VA1, VA2, VA3, DC1, DC2	Ashburn, VA
CH1, CH2	Ashburn, VA

Get Help

Frequent Asked Questions (FAQ)

Contact Us

CoreSite understands the importance of being available for our customers and recognizes the need to have our contact information easily accessible. Under the Contact Us tab, customers will find general contact information and specific contact information for the Sales Account Manager. Self-help tools are also available through Knowledge Base and Inquiries.

Knowledge Base

Knowledge Base is a searchable database of articles on a variety of topics including CoreSite policies and procedures, Rules and Regulations, Local data center Information, Data Center Best Practices, Any2 Policies, and certifications (SOC1, SOC2, ISO 270001). As we know our customers often prefer not to wait to get a response, the Knowledge Base directs users quickly to articles that will answer their questions.

Inquiries

In CoreSite's new ticketing system, customers may submit an inquiry and track the status of the response on the homepage or under Activity History. Attachments and comments can be added by both the customer and CoreSite staff to offer complete information in a timely manner.

In the event of an emergency or if you require Remote Hands support, such requests are easily accessible on many pages throughout the service delivery platform.