

IQUILA

SOFTWARE DEFINED NETWORKS

iQuila Enterprise Bridge Commands

IQ22050r2

This Document Applies to:

iQuila Enterprise

www.iQuila.com

CascadeList: Get a List of Cascade Bridge Connections

| | |
|------------------------|--|
| Command Name | CascadeList |
| Purpose | Get a List of Cascade Bridge Connections |
| Description | Use this to get a list of Cascade Bridge Connections that are registered on the iQuila Bridge. By using a Cascade Bridge Connection, you can connect this Virtual Switch by a Layer 2 Cascade Bridge Connection to another Virtual Switch that is operating in the iQuila Cloud. |
| Command-line | CascadeList |
| Command-line /Switches | NONE |

CascadeCreate: Create New Cascade Bridge Connection

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|------------------------|---|
| Command Name | CascadeCreate |
| Purpose | Create New Cascade Bridge Connection |
| Description | Use this to create a new Cascade Bridge Connection on the iQuila Bridge. By using a Cascade Bridge Connection, you can connect this iQuila Bridge by Cascade Bridge Connection to another Virtual Switch in the iQuila Cloud. To create a Cascade Bridge Connection, you must specify the name of the Cascade Bridge Connection, destination server, destination Virtual Switch, and username. When a new Cascade Bridge Connection is created, the type of user authentication is initially set as Anonymous Authentication The proxy server setting and the verification options of the server certificate are not set. |
| Command-line | <i>CascadeCreate [name] [/SERVER:hostname:port] [/HUB:hubname] [/USERNAME:username]</i> |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection to create. |
| /SERVER | Specify the hostname and port number of the destination iQuila Server using the format [host name:port number]. You can also specify by IP address. |
| /HUB | Specify the Virtual Switch on the destination iQuila Server. |
| /USERNAME | Specify the username to use for user authentication when connecting to the destination iQuila Server. |

CascadeSet: Set the Destination for Cascade Bridge Connection

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| Command Name | CascadeSet |
| Purpose | Set the Destination for Cascade Bridge Connection |
| Description | Use this to set the destination iQuila VEN Server hostname, port number, Virtual Switch name and the username, which will use the connection for the Cascade Bridge Connection, registered on the iQuila Cloud Virtual Switch. |
| Command-line | CascadeSet [name] [/SERVER:hostname:port] [/HUB:hubname] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to change. |
| /SERVER | Specify the hostname and port number of the destination iQuila Cloud VEN Server using the format [host name:port number]. You can also specify by IP address. |
| /HUB | Specify the Virtual Switch on the destination iQuila Enterprise Server. |

CascadeGet: Get the Cascade Bridge Connection Setting

| | |
|------------------------|--|
| Command Name | CascadeGet |
| Purpose | Get the Cascade Bridge Connection Bridge Setting |
| Description | Use this to get the Bridge Connection Setting of a Cascade Bridge Connection, that is registered on the iQuila Bridge. To change the Connection Setting contents of the Cascade Bridge Connection, use the other commands that begin with the name Cascade after creating the Cascade Bridge Connection. |
| Command-line | CascadeGet [name] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to get. |

CascadeDelete: Delete Cascade Bridge Connection Setting

| | |
|------------------------|---|
| Command Name | CascadeDelete |
| Purpose | Delete Cascade Bridge Connection Setting |
| Description | Use this to delete a Cascade Bridge Connection that is registered on the iQuila Bridge. If the specified Cascade Bridge Connection has a status of online, the connections will be automatically disconnected and then the Cascade Bridge Connection will be deleted. |
| Command-line | CascadeDelete [name] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection to delete. |

CascadeUsernameSet: Set UserName to Use Connection of Cascade Bridge Connection

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| Command Name | CascadeUsernameSet |
| Purpose | Set UserName to Use Connection of Cascade Bridge Connection |
| Description | When a Cascade Bridge Connection registered on the iQuila Bridge is specified and that Cascade Bridge Connection connects to the iQuila Cloud, use this to specify the username required for user authentication. In some cases, it is necessary to specify the type of user authentication and specify the required parameters. To change this information, you can use commands such as CascadeAnonymousSet, CascadePasswordSet, and CascadeCertSet. |
| Command-line | CascadeUsernameSet [name] [/USERNAME:username] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection setting you want to change. |
| /USERNAME | Specify the user name required for user authentication when the Cascade bridge Connection connects to the iQuila Cloud. |

CascadePasswordSet: Set User Authentication Type of Cascade Bridge Connection to Password Authentication

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| Command Name | CascadePasswordSet |
| Purpose | Set User Authentication Type of Cascade Bridge Connection to Password Authentication |
| Description | When a Cascade Bridge Connection registered on the iQuila Enterprise Server is specified, and that Cascade Bridge Connection connects to the iQuila Enterprise Server, use this to set the user auth type to Password Authentication. Specify Standard Password Authentication and RADIUS or NT Domain Authentication as the password authentication type. |
| Command-line | CascadePasswordSet [name] [/PASSWORD:password] [/TYPE:standard radius] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to change. |
| /PASSWORD | Specify the password to use for password authentication. If this is not specified, a prompt will appear to input the password. |
| /TYPE | Specify either standard (Standard Password Authentication) or radius (RADIUS or NT Domain Authentication) as the password authentication type. |

CascadeCertSet: Set User Authentication Type of Cascade Bridge Connection to Client Certificate Authentication

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|------------------------|---|
| Command Name | CascadeCertSet: Set User Authentication Type of Cascade Bridge Connection to Client Certificate Authentication |
| Purpose | Set User Authentication Type of Cascade Bridge Connection to Client Certificate Authentication |
| Description | When a Cascade Bridge Connection registered on the iQuila Enterprise Server is specified, and that Cascade Bridge Connection connects to the iQuila Cloud, use this to set the user auth type to Client Certificate Authentication. For this certificate, you must specify a certificate file in the X.509 format and a private key file that is Base 64 encoded. |
| Command-line | CascadeCertSet [name] [/LOADCERT:cert] [/LOADKEY:key] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to change. |
| /LOADCERT | Specify the X.509 format certificate file to provide for certificate authentication. |
| /LOADKEY | Specify the Base-64-encoded private key file name for the certificate. |

CascadeCertGet: Get Client Certificate to Use for Cascade Bridge Connection

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|------------------------|--|
| Command Name | CascadeCertGet |
| Purpose | Get Client Certificate to Use for Cascade Bridge Connection |
| Description | When a Cascade Bridge Connection registered on the iQuila Enterprise Server is specified, and that Cascade Bridge Connection uses client certificate authentication, use this to get the certificate that is provided as the client certificate and save the certificate file in X.509 format. |
| Command-line | CascadeCertGet [name] [/SAVECERT:cert] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to get. |
| /SAVECERT | Specify the file name to save the certificate you obtained in X.509 format. |

CascadeEncryptEnable: Enable Encryption when Communicating by Cascade Bridge Connection

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| Command Name | CascadeEncryptEnable |
| Purpose | Enable Encryption when Communicating by Cascade Bridge Connection |
| Description | When a Cascade Bridge Connection registered on the iQuila Enterprise Server is specified, and that Cascade Bridge Connection is used for communication over the public internet, use this to set the communication contents between the iQuila Bridge and the iQuila Enterprise Servers to be encrypted by SSL. Normally, communication between iQuila Bridge and iQuila Cloud is encrypted by SSL to prevent eavesdropping of information and fraud. You can also disable encryption. When encryption is disabled, the communication throughput improves but the communication data flows over the network in plain text. |
| Command-line | CascadeEncryptEnable [name] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to change. |

CascadeEncryptDisable: Disable Encryption when Communicating by Cascade Bridge Connection

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|------------------------|--|
| Command Name | CascadeEncryptDisable |
| Purpose | Disable Encryption when Communicating by Cascade Bridge Connection |
| Description | When a Cascade Bridge Connection registered on the iQuila Enterprise Server is specified, and that Cascade Bridge Connection is used for communication between iQuila Bridge and iQuila Enterprise Server, use this to set the communication contents between the iQuila Servers not to be encrypted. Normally, communication between iQuila Servers is encrypted by SSL to prevent eavesdropping of information and fraud. You can also disable encryption. When encryption is disabled, the communication throughput improves but the communication data flows over the network in plain text. |
| Command-line | CascadeEncryptDisable [name] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to change. |

CascadeCompressEnable: Enable Data Compression when Communicating by Cascade Bridge Connection

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|------------------------|--|
| Command Name | CascadeCompressEnable |
| Purpose | Enable Data Compression when Communicating by Cascade Bridge Connection |
| Description | When a Cascade Bridge Connection registered on the iQuila Bridge is specified, and that Cascade Bridge Connection is used for communication between iQuila Bridge and iQuila Enterprise Server, use this to set the communication contents between the iQuila Servers to be compressed. It is possible to achieve a maximum of 80% compression. Compression however places higher loads on the CPU of both the client and server machines. When the line speed is about 10 Mbps or greater, compression can lower throughput, but sometimes it can have the opposite effect. |
| Command-line | CascadeCompressEnable [name] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to change. |

CascadeCompressDisable: Disable Data Compression when Communicating by Cascade Bridge Connection

| | |
|------------------------|--|
| Command Name | CascadeCompressDisable |
| Purpose | Disable Data Compression when Communicating by Cascade Bridge Connection |
| Description | When a Cascade Bridge Connection registered on the iQuila Enterprise Server is specified, and that Cascade Bridge Connection is used for communication between iQuila Bridge and iQuila Enterprise Server, use this to set the communication contents between the iQuila Servers to be not compressed. |
| Command-line | CascadeCompressDisable [name] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to change. |

CascadeProxyNone: Specify Direct TCP/IP Connection as the Connection Method of Cascade Bridge Connection

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|------------------------|---|
| Command Name | CascadeProxyNone |
| Purpose | Specify Direct TCP/IP Connection as the Connection Method of Cascade Bridge Connection |
| Description | When a Cascade Bridge Connection registered on the Bridge is specified, and that Cascade Bridge Connection connects to iQuila Cloud, this sets Direct TCP/IP Connection as the connection method to use. In which case the connection route will not be via a proxy server. |
| Command-line | CascadeProxyNone [name] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to change. |

CascadeProxyHttp: Set Connection Method of Cascade Bridge Connection to be via an HTTP Proxy Server

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|------------------------|--|
| Command Name | CascadeProxyHttp |
| Purpose | Set Connection Method of Cascade Bridge Connection to be via an HTTP Proxy Server |
| Description | When a Cascade Bridge Connection registered on the iQuila Enterprise Server is specified, and that Cascade Bridge Connection connects to an iQuila Enterprise Server, use this to set Connect via HTTP Proxy Server as the method of connection to use. This requires the specification of the hostname and port number of the HTTP Proxy server to communicate, as well as a username and password (when required). The HTTP server that communication will travel through must be compatible with the CONNECT method to use HTTPS communication. |
| Command-line | CascadeProxyHttp [name] [/SERVER:hostname:port] [/USERNAME:username] [/PASSWORD:password] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to change. |
| /SERVER | Specify the hostname or IP address, and port number of the on-route HTTP proxy server using the format [host name:port number]. |
| /USERNAME | When user authentication is required to connect to the on-route HTTP proxy server, specify the username. Also, specify the /PASSWORD parameter at the same time. If the parameters /USERNAME and /PASSWORD are not specified, the user authentication data will not be set. |
| /PASSWORD | When user authentication is required to connect to the on-route HTTP proxy server, specify the password. Specify this together with the /USERNAME parameter. |

CascadeProxySocks: Set Connection Method of Cascade Bridge Connection to be via a SOCKS Proxy Server

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|------------------------|---|
| Command Name | CascadeProxySocks |
| Purpose | Set Connection Method of Cascade Bridge Connection to be via an SOCKS Proxy Server |
| Description | When a Cascade Bridge Connection registered on the iQuila Bridge is specified, and that Cascade Bridge Connection connects to an iQuila Cloud Serve, use this to set Connect via SOCKS Proxy Server as the method of connection to use. This requires the specification of the hostname and port number of the SOCKS Proxy server to communicate via as well as a username and password (when required). The on-route SOCKS server must be compatible with SOCKS Version 4. |
| Command-line | CascadeProxySocks [name] [/SERVER:hostname:port] [/USERNAME:username] [/PASSWORD:password] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to change. |
| /SERVER | Specify the hostname or IP address, and port number of the on-route SOCKS proxy server using the format hostname:port number. |
| /USERNAME | When user authentication is required to connect to the on-route SOCKS proxy server, specify the username. Also, specify the /PASSWORD parameter at the same time. If the parameters /USERNAME and /PASSWORD are not specified, the user authentication data will not be set. |
| /PASSWORD | When user authentication is required to connect to the on-route SOCKS proxy server, specify the password. Specify this together with the /USERNAME parameter. |

CascadeServerCertEnable: Enable Cascade Bridge Connection Server Certificate Verification Option

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|------------------------|---|
| Command Name | CascadeServerCertEnable |
| Purpose | Enable Cascade Bridge Connection Server Certificate Verification Option |
| Description | When a Cascade Bridge Connection registered on the iQuila Bridge is specified, and that Cascade Bridge Connection connects to an iQuila Enterprise Server, use this to enable the option to check whether the SSL certificate provided by the destination iQuila Enterprise Server can be trusted. If this option is enabled, you must either use the CascadeServerCertSet command, to save the connection destination server SSL certificate beforehand, in the Cascade Bridge Connection Settings, or use the CAAdd command etc. To register a root certificate containing the signed server SSL certificate in the list of Virtual Switch trusted CA certificates. If the certificate for the connected iQuila Enterprise Server cannot be trusted under the condition where the option to verify server certificates was enabled for the Cascade Bridge Connection. The connection will be promptly canceled and continual reattempts at connection will be made. |
| Command-line | CascadeServerCertEnable [name] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to change. |

CascadeServerCertDisable: Disable Cascade Bridge Connection Server Certificate Verification Option

| | |
|------------------------|--|
| Command Name | CascadeServerCertDisable |
| Purpose | Disable Cascade Bridge Connection Server Certificate Verification Option |
| Description | When a Cascade Bridge Connection registered on the iQuila Bridge specified and that Cascade Bridge Connection connects to an iQuila Enterprise Server, use this to disable the option to check whether the SSL certificate provided by the destination iQuila Enterprise Server can be trusted |
| Command-line | CascadeServerCertDisable [name] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to change. |

CascadeServerCertSet: Set the Server Individual Certificate for Cascade Bridge Connection

| | |
|------------------------|--|
| Command Name | CascadeServerCertSet |
| Purpose | Set the Server Individual Certificate for Cascade Bridge Connection |
| Description | When a Cascade Bridge Connection is registered on the iQuila Bridge specified, and that Cascade Bridge Connection connects to an iQuila Enterprise Server, use this to register beforehand, the same certificate as the SSL certificate provided by the destination iQuila Enterprise Server. If the option to verify server certificates for Cascade Bridge Connections is enabled, you must either, use this command to save the connection destination server SSL certificate beforehand in the Cascade Bridge Connection Settings, or use the CAAdd command etc. To register a root certificate containing the signed server SSL certificate in the list of Virtual Switch trusted CA certificates. If the certificate of the connected iQuila Enterprise Server cannot be trusted, under the condition where the option to verify server certificates was enabled for the Cascade Bridge Connection. The connection will be promptly cancelled and continual reattempts at connection will be made. |
| Command-line | CascadeServerCertSet [name] [/LOADCERT:cert] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to change. |
| /LOADCERT | Specify X.509 format certificate file name that the server individual certificate you wish to set is saved under. |

CascadeServerCertDelete: Delete the Server Individual Certificate for Cascade Bridge Connection

| | |
|------------------------|---|
| Command Name | CascadeServerCertDelete |
| Purpose | Delete the Server Individual Certificate for Cascade Bridge Connection |
| Description | When a Cascade Bridge Connection registered on the iQuila Bridge is specified, and a server individual certificate is registered for that Cascade Bridge Connection, use this to delete that server individual certificate. |
| Command-line | CascadeServerCertDelete [name] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to change. |

CascadeServerCertGet: Get the Server Individual Certificate for Cascade Bridge Connection

| | |
|------------------------|---|
| Command Name | CascadeServerCertGet |
| Purpose | Get the Server Individual Certificate for Cascade Bridge Connection |
| Description | When a Cascade Bridge Connection registered on the iQuila Bridge is specified and a server individual certificate is registered for that Cascade Bridge Connection, use this to get that certificate and save it as an X.509 format certificate file. |
| Command-line | CascadeServerCertGet [name] [/SAVECERT:path] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to change. |
| /SAVECERT | Specify the certificate file name to save the server individual certificate in X.509 format. |

CascadeDetailSet: Set Advanced Settings for Cascade Bridge Connection

| | |
|------------------------|---|
| Command Name | CascadeDetailSet |
| Purpose | Set Advanced Settings for Cascade Bridge Connection |
| Description | Use this to customize the VEN protocol communication settings used when a Cascade Bridge Connection registered on the iQuila Bridge is specified, and that Cascade Bridge Connection connects to the iQuila Enterprise Servers. |
| Command-line | CascadeDetailSet [name] [/MAXTCP:max_connection] [/INTERVAL:interval] [/TTL:disconnect_span] [/HALF:yes no] [/NOQOS:yes no] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to change. |
| /MAXTCP | Specify, using an integer in the range 1 to 32, the number of TCP connections to be used for VEN communication. By using data transmission by multiple TCP connections for VEN communication sessions with VEN Servers it is sometimes possible to increase the communication speed. Note: We recommend about 8 lines when the connection lines to the server are fast, and 1 line when using a slow connection such as dialup. |
| /INTERVAL | When communicating by VEN by establishing multiple TCP connections, specify in seconds, the establishing interval for each TCP connection. The standard value is 1 second. |
| /TTL | When specifying the connection life of each TCP connection specify in seconds the keep-alive time from establishing a TCP connection until disconnection. If 0 is specified, keep-alive will not be set. |
| /HALF | Specify yes when enabling half-duplex mode. When using two or more TCP connections for VEN communication, it is possible to use Half Duplex Mode. By enabling half-duplex mode, it is possible to automatically fix data transmission direction as half and a half for each TCP connection. In the case where a VEN using 8 TCP connections is established. For example, when half-duplex is enabled, communication can be fixed so that 4 TCP connections are dedicated to the upload direction and the other 4 connections are dedicated to the download direction. |
| /NOQOS | Specify yes when disabling VoIP / QoS functions. Normally no is specified. |

CascadePolicySet: Set Cascade Bridge Connection Session Security Policy

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|------------------------|--|
| Command Name | CascadePolicySet |
| Purpose | Set Cascade Bridge Connection Session Security Policy |
| Description | When a Cascade Bridge Connection registered on the iQuila Bridge is specified, and that Cascade Bridge Connection is established, use this to change the security policy contents that are applied to the session generated by the Virtual Switch. When a Virtual Switch makes a Cascade Bridge Connection to another iQuila Enterprise Server, a Cascade Session will be newly generated on the Virtual Switch that is the Cascade Bridge Connection source. You can use this command to set the security policy contents that will set this Cascade session. |
| Command-line | [name] [/NAME:policy_name] [/VALUE:num yes no] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose setting you want to change. |
| /NAME | Specify the name of the policy whose values you want to change. You can use the Policy List command to display a list of policy names and values that can be set. |
| /VALUE | Specify a new policy value. If the policy is an integer value, specify an integer. Specify yes or no for Boolean types. You can view the type and value that can be set by using the Policy List command. |

PolicyList: Display List of Security Policy Types and Settable Values

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|------------------------|---|
| Command Name | PolicyList |
| Purpose | Display List of Security Policy Types and Settable Values |
| Description | Use this to display a list of item names, descriptions, and settable values in the security policies that can be set for iQuila Server users and groups, and Cascade Bridge Connections. By running the Policy List command without specifying any parameters, a list of all supported security policy names and descriptions will be displayed. By specifying the name using the Policy List command parameter, a detailed description related to this value and the type and range of the settable value will be displayed. |
| Command-line | PolicyList [name] |
| Command-line /Switches | |
| NAME | This allows you to specify the policy name whose description you want to display. If you don't specify a name, a list of all supported security names and descriptions will be displayed. |

CascadeStatusGet: Get Current Cascade Bridge Connection Status

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|------------------------|---|
| Command Name | CascadeStatusGet |
| Purpose | Get Current Cascade Bridge Connection Status |
| Description | When a Cascade Bridge Connection registered on the iQuila Bridge is specified, and that Cascade Bridge Connection is currently online, use this to get its connection status and other information. |
| Command-line | CascadeStatusGet [name] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection whose information you want to get. |

CascadeRename: Change Name of Cascade Bridge Connection

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|------------------------|---|
| Command Name | CascadeRename |
| Purpose | Change Name of Cascade Bridge Connection |
| Description | When a Cascade Bridge Connection registered on the iQuila Bridge is specified, use this to change the name of that Cascade Bridge Connection. |
| Command-line | CascadeRename [name] [/NEW:new_name] |
| Command-line /Switches | |
| NAME | Specify the current name of the Cascade Bridge Connection whose name you want to change. |
| /NEW | Specify the new name after the change. |

CascadeOnline: Switch Cascade Bridge Connection to Online Status

| | |
|------------------------|---|
| Command Name | CascadeOnline |
| Purpose | Switch Cascade Bridge Connection to Online Status |
| Description | When a Cascade Bridge Connection registered on the iQuila Bridge is specified, use this to switch that Cascade Bridge Connection to online status. The Cascade Bridge Connection that is switched to online status begins the process of connecting to the destination iQuila Cloud in accordance with the Connection Setting. The Cascade Bridge Connection that is switched to online status will establish a normal connection to the iQuila Cloud or continue to attempt connection until it is switched to offline status. |
| Command-line | CascadeOnline [name] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection to switch to online status. |

CascadeOffline: Switch Cascade Bridge Connection to Offline Status

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|------------------------|--|
| Command Name | CascadeOffline |
| Purpose | Switch Cascade Bridge Connection to Offline Status |
| Description | When a Cascade Bridge Connection registered on the iQuila Bridge is specified, use this to switch that Cascade Bridge Connection to offline status. The Cascade Bridge Connection that is switched to offline will not connect to the iQuila Cloud until the next time it is switched to the online status using the CascadeOnline command |
| Command-line | CascadeOffline [name] |
| Command-line /Switches | |
| NAME | Specify the name of the Cascade Bridge Connection to switch to offline status. |

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