



About the Management Center REST API

The management center REST API provides a lightweight API to manage a management center.

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About the Management Center REST API

With the release of management center REST API, you now have light-weight, easy-to-use option for managing threat defense and legacy devices through a management center.

The REST API is an application programming interface (API), based on “RESTful” principles, which you can quickly enable on any management center running version 6.1 or higher, and use with a REST client.

After installing a REST client, you can contact the specific management center's REST agent and use standard HTTP methods to access current configuration information, and issue additional configuration parameters.

Whats New in 7.1

The following new features and functionality were added in version 7.1.

- Added error
`401 Invalid Session`
- Added error
`429 Too Many Writes`
- Removed biased terminology from field names and descriptions
- Added the following new sections in API Explorer:
 - Troubleshoot
 - Network Map
 - Chassis

New API endpoints and Methods

Table 1: New Endpoints: these are new endpoints and methods.

Name	Methods	URL
Troubleshoot		
Packet Tracer Files	DELETE, DELETE by ID	/api/fmc_troubleshoot/v1/cbrain/{cbrainUID}/packettracer/files/
Network Map		
Netmap Hosts	GET, GET by ID, POST, DELETE	/api/fmc_netmap/v1/cbrain/{cbrainUID}/hosts/{objectId}
Vulns	GET, GET by ID, POST, DELETE	/api/fmc_netmap/v1/cbrain/{cbrainUID}/vulns/
Users		
Duo Configs	GET, GET by ID, PUT	/api/fmc_config/v1/cbrain/{cbrainUID}/users/duoconfigs/
Deployment Services		
Job Histories	GET, GET by ID, PUT	/api/fmc_config/v1/cbrain/{cbrainUID}/deployer/jobhistories
Download Reports	GET	/api/fmc_config/v1/cbrain/{cbrainUID}/jobhistories/{objectId}/getreport/
Email Reports	POST	/api/fmc_config/v1/cbrain/{cbrainUID}/jobhistories/{objectId}/getreport/emailreports
Device Clusters		
Threat Defense Cluster Readiness Check	POST	/api/fmc_config/v1/cbrain/{cbrainUID}/devclusters/tdc/readinesscheck
Threat Defense Cluster Device Commands	POST	/api/fmc_config/v1/cbrain/{cbrainUID}/devclusters/{objectId}/getreport/tdcdevicecmds
Health Services		
Tunnel Statuses	GET	/api/fmc_config/v1/cbrain/{cbrainUID}/health/tunnelstatuses
Tunnel Summaries	GET	/api/fmc_config/v1/cbrain/{cbrainUID}/health/tunnelsummaries
Chassis		
Management Center Managed Chassis	GET, GET by ID	/api/fmc_config/v1/cbrain/{cbrainUID}/chassis/fmcmanagedchassis
Network Modules	GET, GET by ID, PUT	/api/fmc_config/v1/cbrain/{cbrainUID}/chassis/fmcmanagedchassis/{objectId}/networkmodules
Sync Network Module	PUT	/api/fmc_config/v1/cbrain/{cbrainUID}/chassis/fmcmanagedchassis/{objectId}/networkmodules/sync
Chassis Interfaces	GET, GET by ID	/api/fmc_config/v1/cbrain/{cbrainUID}/chassis/fmcmanagedchassis/{objectId}/chassisinterfaces
Device Services		

Name	Methods	URL
ECMP Zones	GET, GET by ID, PUT, POST, DELETE	/api/config/v1/chain/{chainID}/zones/{zoneID}/ecmpzones
Virtual ECMP Zones	GET, GET by ID, PUT, POST, DELETE	/api/config/v1/chain/{chainID}/zones/{zoneID}/virtualzones
Packet Tracer	POST	/api/config/v1/chain/{chainID}/zones/{zoneID}/packet/tracer
Packet Tracer PCAP	POST	/api/config/v1/chain/{chainID}/zones/{zoneID}/packet/pcap
Policy Based Routes	GET, GET by ID, PUT, POST, DELETE	/api/config/v1/chain/{chainID}/zones/{zoneID}/policybased
Virtual Policy Based Routes	GET, GET by ID, PUT, POST, DELETE	/api/config/v1/chain/{chainID}/policybased/virtual
VTEP Policies	GET, GET by ID, PUT, POST, DELETE	/api/config/v1/chain/{chainID}/zones/{zoneID}/vtep/policies
VNI Interfaces	GET, GET by ID, PUT, POST, DELETE	/api/config/v1/chain/{chainID}/zones/{zoneID}/vni/interfaces
Threat Defense All Interfaces	GET	/api/config/v1/chain/{chainID}/zones/{zoneID}/threatdefense/interfaces
Integration		
Dynamic Attributes Feeds	GET, PUT	/api/config/v1/chain/{chainID}/integration/dynamicattributesfeeds
Object		
Anyconnect External Browser Packages	GET, GET by ID	/api/config/v1/chain/{chainID}/object/anyconnectexternalbrowserpackages
Bulk Dynamic Objects	POST	/api/config/v1/chain/{chainID}/object/bulldynamicobjects
Extended Community Lists	GET, GET by ID, GET overrides, GET overrides by ID, OUT, POST, DELETE	/api/config/v1/chain/{chainID}/object/extendedcommunitylists
Packet Tracer PCAP List	GET	/api/config/v1/chain/{chainID}/object/packettracerpcaplist
Packet Tracer PCAP Upload	POST	/api/config/v1/chain/{chainID}/object/packettracerpcapupload
Updates		
Revert Upgrades	POST	/api/platform/v1/updates/revertupgrades

New Methods for existing endpoints

Table 2: New Methods for Existing Endpoints: these provide additional functionality for existing endpoints

Name	Methods	URL
Device Clusters		
Threat Defense Device Cluster (existing)	PUT, POST, DELETE	/api/fmc_config/v1/device/{deviceUID}/threat-defense/device-cluster/{object}
Device Services		
BGP	PUT, POST, DELETE	/api/fmc_config/v1/device/{deviceUID}/device-services/{deviceUID}/routing/bgp
BGP General Settings	PUT, POST, DELETE	/api/fmc_config/v1/device/{deviceUID}/device-services/{deviceUID}/routing/bgp/general-settings
Object		
AS Path Lists (existing)	PUT, POST, DELETE	/api/fmc_config/v1/device/{deviceUID}/object/aspathlists
Expanded Community Lists	PUT, POST, DELETE	/api/fmc_config/v1/device/{deviceUID}/object/expandedcommunitylists
Extended Access Lists	PUT, POST, DELETE	/api/fmc_config/v1/device/{deviceUID}/object/extendedaccesslists
IPv4 Prefix Lists (existing)	PUT, POST, DELETE	/api/fmc_config/v1/device/{deviceUID}/object/ipv4prefixlists
IPv6 Prefix Lists	PUT, POST, DELETE	/api/fmc_config/v1/device/{deviceUID}/object/ipv6prefixlists
Policy Lists	PUT, POST, DELETE	/api/fmc_config/v1/device/{deviceUID}/object/policylists
Route Maps	PUT, POST, DELETE	/api/fmc_config/v1/device/{deviceUID}/object/routemaps
Standard Access Lists	PUT, POST, DELETE	/api/fmc_config/v1/device/{deviceUID}/object/standardaccesslists
Standard Community Lists	PUT, POST, DELETE	/api/fmc_config/v1/device/{deviceUID}/object/standardcommunitylists

Enabling the REST API

In management center, the REST API is enabled by default. However, if you are intending to use the REST API, you should confirm that it is enabled.



Note If you are using UCAPL mode, check that the REST API is not enabled.

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- Step 1** Navigate to System>Configuration>REST API Preferences>Enable REST API
 - Step 2** Check the "Enable REST API" checkbox.
 - Step 3** Click "Save". A "Save Successful" dialog will display when the REST API is enabled.
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Best Practices

Cisco recommends the following best practices for optimal results with the REST API:

- Keep UI users and script users separate. Especially do not use the admin account as an API user.
- Do not give script users more privilege than needed.
- Always validate the content coming from the server.
- Validate/sanitize JSON content, as it may include embedded executable code.
- If you are using CC or UCAPL mode you should disable REST API access to the management center and managed devices.

Additional Resources

Additional resources for the management center REST API can be found on Cisco DevNet at <https://developer.cisco.com/firepower/>.

