



Release Notes for the Cisco FTD Device Package for ACI, 1.0.2

Revised: December 6, 2017,

Supported Versions

Table 1: Supported Versions of the Cisco FTD Software for Each Supported Platform

FTD Device Package Version	Platform	FTD/FMC Version	ACI/APIC Version
1.0.2	Firepower-93xx	6.2.2	2.3(1f) 3.0(1k)
1.0.2	Firepower-41xx	6.2.2	2.3(1f) 3.0(1k)
1.0.2	Firepower-21xx	6.2.2	2.3(1f) 3.0(1k)
1.0.2	vFTD	6.2.2	2.3(1f) 3.0(1k)

Import the Device Package

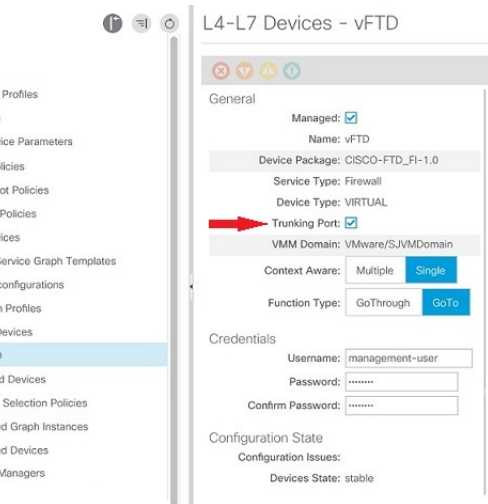
Sign in on Cisco.com to download and install the device package software. For instructions, see the [Cisco FTD for ACI Quick Start Guide](#).

New Features in Version 1.0(2)

- Virtual FTD VLAN trunking support
- FTD High Availability (HA) support
- Dynamic EPG update
- Firepower 21xx support
- Performance enhancements (FTD-DP scalability)

Virtual FTD VLAN Trunking Support

- 1 Create the L4-L7 Device for the Virtual FTD, and click **Submit**.
- 2 Navigate to the newly created vFTD, and notice the **Trunking Port** check box, which appears only after the virtual device has been created.
- 3 Select the **Trunking Port** check box to enable VLAN trunking on the vFTD.



FTD High Availability (HA) Support

Must be pre-configured on the FMC.

On the APIC, when you Create L4-L7 Devices, in the Cluster section:

- Management IP Address is the IP address of the FMC.
- Device Manager is pre-defined on the FMC.
- For Cluster Interfaces, specify the interfaces for both members of the HA pair.

Click "+" to enter information for each interface.

Click Update to add each interface.

- Name: external

Type: consumer

Concrete Interfaces: Select Device1/GigabitEthernet0/0 and Device2/GigabitEthernet0/0

- Name: internal

Type: provider

Concrete Interfaces: Select Device1/GigabitEthernet0/1 and Device2/GigabitEthernet0/1

7 Devices

Package and specify connectivity

aged: ☒

Name: FTDvHA

Type: Firewall

Type: PHYSICAL VIRTUAL

Main: SJVMDomain

View: ☐ Single Node ☒ HA Node

☐ Cluster

Package: CISCO-FTD_HA-1.0

Model: VIRTUAL

ware: Multiple Single

Type: GoThrough GoTo

Device ☒ Out-Of-Band

Activity: ☐ In-Band

Name: admin

Word:

Word:

Device 1

Management IP Address: 192.168.102.194

Management Port: https

VM: kevin-vcenter/vFTD622

Chassis: select a value

Device Interfaces:

Name	VNIC	Path (Only For Route Peering)
GigabitEthernet0/0	Network adapter 2	
GigabitEthernet0/1	Network adapter 3	

Device 2

Management IP Address: 192.168.102.195

Management Port: https

VM: kevin-vcenter/vFTDtfw

Chassis: select a value

Device Interfaces:

Name	VNIC	Path (Only For Route Peering)
GigabitEthernet0/0	Network adapter 2	
GigabitEthernet0/1	Network adapter 3	

Cluster

Management IP Address: 192.168.102.193

Management Port: https

Device Manager: common/FMC165

Cluster Interfaces:

Type	Name	Concrete Interfaces
consumer	external	Device1/GigabitEthernet0/0,Device2/GigabitEthernet0/0
provider	internal	Device1/GigabitEthernet0/1,Device2/GigabitEthernet0/1

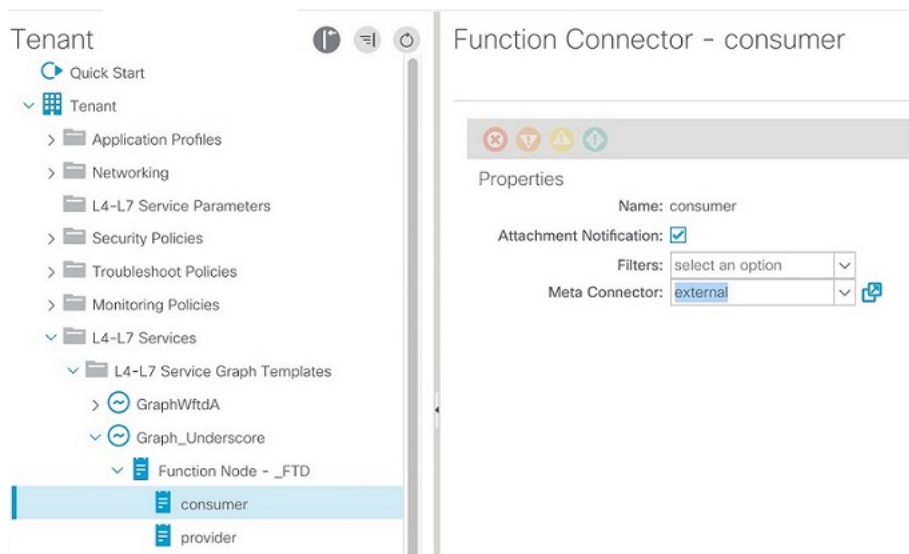
Previous

Cancel

Next

Dynamic EPG Update

Select the **Attachment Notification** check box to enable Dynamic EPG on the APIC:



Existing Features From Version 1.0(1)

- Create interface configuration for FTD
 - Configure enabled
 - Configure logical name
 - Configure MTU
 - Configure security zone
 - Configure inline set
 - Configure static IPv4 addresses
- Create new bridge group interface for Transparent mode
 - Configure bridge group ID
 - Configure static IPv4 addresses
 - Configure interface reference
- Create new inline set
 - Configure snort fail open down
 - Configure snort fail open busy
 - Configure MTU
 - FTD physical appliance with Inline Set requires a specially designed ACI service graph with the same VLAN ID on both interfaces
- Create new or update existing access rule
 - Configure source and destination security zones

- Create new or update existing access policy
 - Configure name
- Create new security zone
 - Configure type

Resolved Enhancement Requests in Version 1.0(2)

Table 2: Enhancement Requests Resolved in the Cisco FTD Device Package, Version 1.0(2)

Caveat	Description
CSCvd94266	Handling serviceAudit call improved in FTD-DP ftd-device-pkg
CSCvf02605	Support automatic HA deployment in FTD-DP
CSCvf71967	Support VLAN Trunking on virtual FTDs ftd-device-pkg
CSCvf91529	Changed the '+' sign in the logical interface name to '_'
CSCvg50981	Add BVI logical name for IRB traffic to flow

Resolved Caveats in Version 1.0(2)

Table 3: Caveats Resolved in the Cisco FTD Device Package, Version 1.0(2)

Caveat	Description
CSCvd88598	Default MTU not getting updated in ftd-device-pkg
CSCvd88725	Logical name is not being cleared during inline graph disassociation
CSCve40048	Stacktrace when device package gets 429 response code
CSCve40111	In command_interaction.py there is an error with function remove_value_from_dict
CSCve75140	Misspelling and incorrect description in device model file
CSCvg33615	Access rule not created if same name existed in another policy

Caveat	Description
CSCvg57189	Add upper limit for the number of retries when FMC gives 429-error
CSCvg58964	Interfaces associated with BVI shut down when IP address changed by FTD DP
CSCvg73120	Associated interfaces deleted if BVI interface ID changed

Open Caveats in Version 1.0(2)

Table 4: Open Caveats (severity 1 to 3) in the Cisco FTD Device Package, Version 1.0(2)

Caveat	Description
CSCve00407	Java Exception failure from FMC when GET request sent, graph fails to deploy
CSCvg06100	VLAN Trunking fails in Transparent mode on virtual FTD
CSCvg84142	Deployment error due to "Object Not Found" error on FMC

Bug Search

As a registered Cisco.com user, sign in to view more information about each bug or caveat using the [Cisco Bug Search Tool](#).

Features Not Supported in Version 1.0(2)

The APIC cannot configure the following features using the FTD device package:

- Dynamic routing
- Static routing
- Port-channels
- Deploy configuration to FTD devices in clustering mode
- Access control policy rule ports, IPs, or inspections
- Network Address Translation (NAT)

**Note**

For any unsupported FTD feature, we recommended that you clean up the configuration manually before removing a service graph or deleting the tenant.

Known Issues

This section describes known issues and their workarounds.

CSCvf88494

When deleting a tenant with a large configuration, the device package process is killed before it can finish the service call, resulting in a configuration that may not be completely cleaned up on the FMC. This may occur when:

- Using the FTD device package, version 1.0.2
- The tenant contains a device that has more than 50 service graphs deployed
- Deleting the tenant directly before detaching the service graphs

Workaround

Detach the service graphs before deleting the tenant, or increase various timeout values on the APIC using its REST API. The REST payload is like this:

```
<polUni>
  <infraInfra>
    <vnsMDev vendor=CISCO model=FTD_FI version=1.0>
      <vnsDevScript auditTimeout=10800 modifyTimeout=10800 watchdogTimeout=10800/>
    </vnsMDev>
  </infraInfra>
</polUni>
```

You can use the Cisco-provided Python script to access the APIC REST API and modify the timeout values:

- 1 Before deleting the tenant, run the script to change the timeout value to its maximum number:
- 2 Delete the tenant from the APIC.
- 3 Monitor the debug.log from the APIC to verify that the service call has completed. Or check the FMC to verify that all relevant configuration data has been cleaned up (such as access rules, security zones, sub-interfaces, and inline sets).
- 4 Run the script again to change the timeout value back to its default number. Otherwise, unexpected behavior may occur.

```
set_timeout.py <APIC_IP> <USERNAME> <PASSWORD> default
```

**Note**

Note: If the “CISCO-FTD_FI-1.0” device package is not installed on the APIC, running the script results in a “Bad Request” error. This error message can be safely ignored, as the script is designed to affect this particular device package only.

For more information, see CSCvg00515, opened to track this issue.

CSCvg06100

VLAN trunking fails in Transparent mode on a virtual FTD.

Workaround

Opened to track the FMC issue in CSCvf90086.

Enable the trunking port after creating the L4-L7 device. Then, apply the service graph.

If the deployment fails:

- 1** On the FMC:
 - a** Navigate to **Devices**, and select the FTD.
 - b** Delete the new BVI and the associated sub-interfaces. Click **Save**. Click **Deploy**.
 - c** Wait for the FMC to complete the deployment.
- 2** On the APIC:
 - a** In the node tree on the left, navigate to **L4-L7 Devices**, and select the device.
 - b** Verify that the **Trunking Port** check box is selected.
 - c** Right-click the device, and select **Re-Query For Device Validation**.

CSCvc46536

Multiple graph deployment needs a different parameter name for an access rule.

Workaround

For instance, Access Rules is a common APIC configuration parameter that can be shared across multiple graph deployments on the same L4-L7 device. In order to attach each graph deployment's interface security zones to a common access rule, provide different names for the SourceZone and DestinationZone parameters. For example, append each parameter with a matching suffix name, such as SourceZone-campCtx and DestinationZone-campCtx in one case and SourceZone-sapCtx and DestinationZone-sapCtx in another.

System
Tenants
Fabric
VM Networking
L4-L7 Services
Admin

ALL TENANTS | Add Tenant | Search: enter name, descr | MutiParamFTDSample | AAvFTD60MultiRoutedOn84 | common | FTDIssueT | infra

Tenant MutiParamFTDSample

Quick Start

Tenant MutiParamFTDSample

Application Profiles

camp

sap

Application EPGs

EPG AppEPG

EPG WebEPG

Domains (VMs and Bare

Static Bindings (Paths)

Static Bindings (Leaves)

Contracts

Static EndPoint

Subnets

L4-L7 Virtual IPs

L4-L7 IP Address Pool

L4-L7 Service Parameters

uSeg EPGs

L4-L7 Service Parameters

Networking

L4-L7 Service Parameters

Security Policies

Troubleshoot Policies

Monitoring Policies

L4-L7 Services

Edit L4-L7 Service Parameters

Click row to edit value

Contract Name: MutiParamFTDSample/sapCtx

Graph Name: MutiParamFTDSample/WebG

Node Name: FTD

Features and Parameters

Features:

Basic Parameters

All Parameters

Folder/Param	Name	Value
Device Config	Device	
Access Policy	ACIAccPolicyRouted	
Access Rules	ACIAccRule	
Destination Interface	AccDestinationZones	
DestinationZone	DestinationZone-sapCtx	internalInterface/int...
Source Interface	AccSourceZones	
SourceZone	SourceZone-sapCtx	externalInterface/int...
Bi-Directional	Bi-Directional	true
Bridge Group Interface		
Inline Set		
Interface	externalInterface	
Interface	internalInterface	
Security Zone	ExternalSZRT	
Security Zone	InternalSZRT	

SHOW USAGE

SUBMIT

CANCEL

CISCO System Tenants Fabric VM Networking L4-L7 Services Admin

ALL TENANTS | Add Tenant | Search: enter name, descr | MultiParamFTDSample | AAvFTD60MultiRoutedOn84 | common | FTDIssueT | infra

Tenant MultiParamFTDSample

Quick Start

Tenant MultiParamFTDSample

Application Profiles

camp

Application EPGs

EPG InEPG

Domains (VMs and Bare-M

Static Bindings (Paths)

Static Bindings (Leaves)

Contracts

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Subnets

L4-L7 Virtual IPs

L4-L7 IP Address Pool

L4-L7 Service Parameters

EPG OutEPG

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L4-L7 Service Parameters

sap

Networking

L4-L7 Service Parameters

Security Policies

Troubleshoot Policies

Monitoring Policies

L4-L7 Services

Edit L4-L7 Service Parameters

Click row to edit value

Contract Name: MultiParamFTDSample/campCtx

Graph Name: MultiParamFTDSample/WebG

Node Name: FTD

Features and Parameters

Features: Basic Parameters All Parameters

Folder/Param	Name	Value
Device Config	Device	
Access Policy	ACIAccPolicyRouted	
Access Rules	ACIAccRule	
Destination Interface	AccDestinationZones	
DestinationZone	DestinationZone-campCtx	InInterface/int_secur...
Source Interface	AccSourceZones	
SourceZone	SourceZone-campCtx	outInterface/int_secu...
BI-Directional	BI-Directional	true
Bridge Group Interface		
Inline Set		
Interface	InInterface	
Interface	outInterface	
Security Zone	ExternalSZRT	
Security Zone	InternalSZRT	

SHOW USAGE SUBMIT CANCEL

For more information, see the FMC Configuration Guide in [Related Documentation](#), on page 11.

Related Documentation

- [Cisco Application Centric Infrastructure Fundamentals](#)
- [Cisco APIC Layer 4 to Layer 7 Services Deployment Guide](#)
- [Cisco Firepower Threat Defense NGFW](#)
- [Cisco Firepower Management Center](#)

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