Cisco Application Policy Infrastructure Controller Release Notes, Release 6.1(2)

Introduction

The Cisco Application Centric Infrastructure (ACI) is an architecture that allows the application to define the networking requirements in a programmatic way. This architecture simplifies, optimizes, and accelerates the entire application deployment lifecycle. Cisco Application Policy Infrastructure Controller (APIC) is the software, or operating system, that acts as the controller.

This document describes the features, issues, and limitations for the Cisco APIC software. For the features, issues, and limitations for the Cisco NX-OS software for the Cisco Nexus 9000 series switches, see the Cisco Nexus 9000 ACI-Mode Switches Release Notes, Release 16.1(2).

For more information about this product, see " Related Content."

Date	Description
December 4, 2024	Release 6.1(2f) became available.

New Software Features

Product Impact	Feature	Description
Base functionality	Port channel dynamic load balancing	Port channel dynamic load balancing (DLB) is a networking technique that distributes traffic across multiple links in a port channel based on the load of each link. Port channel DLB adjusts traffic distribution on the links of a port channel based on the current load of the links. The switch monitors the egress traffic load on each link and selects the link with the least utilization to distribute the traffic. Port channel DLB results in efficient traffic distribution and improved network performance. For more information, see the Cisco APIC Layer 2 Networking Configuration Guide, Release 6.1(x).
	Cisco ACI border gateways	With the Cisco ACI border gateway (BGW) solution, you can classify policies on the Cisco ACI border gateways for the Layer 2 or Layer 3 prefixes that are advertised from the VXLAN EVPN domain. For more information, see the Cisco APIC Layer 3 Networking Configuration Guide, Release 6.1(x)
	Support for warm standby	The warm standby functionality enables you to synchronize data when the pod or data center site is healthy. The same healthy pod or data center site is used when the pod or data center site is lost. When a disaster occurs, the warm standby has the data, and can recover the cluster without data loss. For more information, see the Cisco APIC Getting Started Guide, Release 6.1(x).
	Custom throttle group	The custom throttle group feature enables prioritization of different clients and applications and adjusts the throttle rates for the applications. For more information, see the Cisco APIC support for NGINX Rate Limit document.
	ERSPAN Destination on ACI access span L3Out	Use the SPAN destination group feature to direct ERSPAN traffic to a remote endpoint behind an L3Out. For more information, see the Cisco APIC Basic Configuration Guide, Release 6.1(x).
Interoperability	Common policy	Integrating Cisco ISE with Cisco ACI enables the exchange of group information

Product Impact	Feature	Description
	enhancements	between Cisco APIC and ISE and is part of the Common Policy architecture, which supports the sharing of group context among various controllers connected to ISE as a central context exchange hub. In this release, support has been extended for VRF ingress policy and shared services. For details about the Cisco APIC and ISE integration, see the Cisco APIC and Cisco ISE Integration document.
Ease of use	BPS and PPS in egress direction	Both Bit policer mode (Bits-Per-Seconds: BPS) and Packet Policer mode (Packet-Per-Seconds: PPS) modes are supported in egress direction. For more information, see the Cisco APIC Security Configuration Guide, Release 6.1(x).
	Enhanced APIC GUI	Enhanced APIC GUI for better look-and-feel, and customer experience. For details about the GUI enhancements, see the Cisco APIC Getting Started Guide, Release 6.1(x).
Base Functionality	Support for Embedded Logic Analyzer Module (ELAM) Assistant	The Embedded Logic Analyzer Module (ELAM) Assistant is integrated with the APIC GUI. For details, see the ELAM Assistant User Guide.
	Role changes from leaf to spine for Nexus -GX switches	You can change the default role for the Cisco Nexus -GX switches before they are discovered by the fabric. For more information, see the Cisco APIC Getting Started Guide, Release 6.1(x)
	Device Connector as a service in APIC	The Nexus Insights Cloud Connector is supported as an APIC internal component. For more information, see the Cisco APIC and Intersight Device Connector.
Security	Security certificate compliance for OSPFv3	For enhanced security, support for encryption and authentication for OSPFv3 sessions. For more information, see the Cisco APIC Layer 3 Networking Configuration Guide, Release 6.1(x).
Performance and scalability	Support for eBGP multipath	With the eBGP *multipath* and *add path* functionalities you can now stretch eBGP peering directly to forwarding nodes and all the next-hops for an IP prefix publish all unique next-hops within the ACI fabric. For more information, see the Simplify Outside Network Connections Using Floating L3Outs.

New Hardware Features

For the new hardware features, see the Cisco Nexus 9000 ACI-Mode Switches Release Notes, Release 16.1(2).

Changes in Behavior

For the changes in behavior, see Cisco ACI Releases Changes in Behavior.

Open Issues

Click the bug ID to access the Bug Search tool and see additional information about the bug. The " Exists In" column of the table specifies the 6.1(2) releases in which the bug exists. A bug might also exist in releases other than the 6.1(2) releases.

Bug ID	Description	Exists in
CSCwm38976	EP behind a Remote Leaf accessing the server behind a non anchor node in floating L3out in the main pod. It fails because the BL in the main pod uses PTEP for non anhor nodes instead of Routable TEP. We do not allocate a Routable TEP for a leaf if it is configured as a nonanchor node in floating L3out and does not have a regular L3out. This is a baseline issue.	6.1(2f) and later
CSCwn21313	snmptrapd service runs only on the leader APIC. If snmp is not enabled in snmp policy attached to pod containing leader apic, snmp traps will not get forwarded to the external server.	6.1(2f) and later
CSCvt99966	A SPAN session with the source type set to " Routed-Outside" goes down. The SPAN configuration is pushed to the anchor or non-anchor nodes, but the interfaces are not pushed due to the following fault: " Failed to configure SPAN with source SpanFL3out due to Source fvIfConn not available" .	6.1(2f) and later
CSCvy40511	Traffic from an endpoint under a remote leaf switch to an external node and its attached external networks is dropped. This occurs if the external node is attached to an L3Out with a vPC and there is a redistribution configuration on the L3Out to advertise the reachability of the external nodes as direct-attached hosts.	6.1(2f) and later
CSCwf48875	When using two different host profiles (for example UCS C-Series and UCS B-Series) to deploy NSX, the uplink policy will be different for the host profiles. In this case, using one uplink profile with two policies might cause traffic disruption for a non-default teaming policy.	6.1(2f) and later
CSCwm67578	BL to BL traffic for Campus-l3out, policy applies at ingress BL but in certain can for shared-transit Campus l3out we apply policy at engress BL.	6.1(2f) and later

Resolved Issues

Click the bug ID to access the Bug Search tool and see additional information about the bug. The " Fixed In" column of the table specifies the 6.1(2) release in which the bug was first fixed.

Bug ID	Description	Fixed in
CSCwm61872	VDS policy is modified in Multciast Filtering Mode from IGMP / MLD Snooping to Basic (Legacy) if any vSwitch Policy from the APIC its modified and then pushed in to the vCenter.	6.1(2f)
CSCwk29928	Stale prefix entries are left behind for bindings that are no longer associated with the service graph template. When the bindings are learned from other service graph template, prefix entries failed to get installed due to the stale entries.	6.1(2f)
CSCwi28712	Additional entries of svcredirRsBackupDestAttMo and svcredirRsDestAttMo are created in a leaf switch. This can impact the traffic hash and can lead to traffic drop.	6.1(2f)
CSCwj94689	In a high scale scenario, ISE is missing some of the Cisco ACI endpoints.	6.1(2f)

Bug ID	Description	Fixed in
CSCwk62539	Service graph template subnets (resolved managed object type: fvSubnetHost256) are mistakenly removed in the Cisco APIC and policy engine, and the corresponding prefix entries are also uninstalled.	6.1(2f)
CSCwk71510	The AAA Providers GUI page does not display.	6.1(2f)
CSCwk35828	In the IS-IS Domains table, the IS-IS Databases column shows the number of databases. However, if you click the number to see more information about the IS-IS databases, the quantity of databases shown in the dialog to does not match the number shown in the IS-IS Domains table.	6.1(2f)
CSCwj82851	In LA, ISE can't subscribe to the uSeg (micro-segmentation) EPG.	6.1(2f)
CSCwi85801	In-Band Management Access, the Next button not clickable on the first try if the In-Band IPv4 Gateway input box is set to focus.	6.1(2f)
CSCwf99067	Deleting and re-adding RedirectDest with a different IP address, but the same MAC address, generates the following error: "Same virtual MAC is provided for different RedirectDest".	6.1(2f)
CSCwk79672	The Cisco APIC upgrade status is stuck in the "Post Upgrade Pending" state.	6.1(2f)
CSCwk67958	The Cisco APIC upgrade or downgrade time has increased.	6.1(2f)

Known Issues

Click the bug ID to access the Bug Search tool and see additional information about the bug. The "Exists In" column of the table specifies the 6.1(2) releases in which the bug exists. A bug might also exist in releases other than the 6.1(2) releases.

Bug ID	Description	Exists in
CSCwk37514	An external EPG in an L3Out that is used to connect to the campus is missing even though the corresponding service graph in the outbound filter still exists.	6.1(2f) and later
CSCwj60150	The configuration (EPGs, Contracts, External EPGs etc) is out-of-sync between APIC and ISE.	6.1(2f) and later
CSCwi86409	SGT bindings missing on ACI.	6.1(2f) and later
CSCwf78521	A GOLF spine switch advertises the bridge domain prefixes to a GOLF peer in multiple VRF instances.	6.1(2f) and later
CSCwn30213	If user configures a ongoing atomic counter policy, they may see faults related to packet loss (F1545 and F1547) raised against nodeToVpc paths involving Border Gateways.	6.1(2f) and later
CSCvj26666	The "show run leaf|spine <nodeId>" command might produce an error for scaled up configurations.	6.1(2f) and later
CSCvj90385	With a uniform distribution of EPs and traffic flows, a fabric module in slot 25 sometimes reports far less than 50% of the traffic compared to the traffic on fabric modules in non-FM25 slots.	6.1(2f) and later

Bug ID	Description	Exists in
CSCvq39764	When you click Restart for the Microsoft System Center Virtual Machine Manager (SCVMM) agent on a scaled-out setup, the service may stop. You can restart the agent by clicking Start.	6.1(2f) and later
CSCvq58953	One of the following symptoms occurs: App installation/enable/disable takes a long time and does not complete. Nomad leadership is lost. The output of the acidiag scheduler logs members command contains the following error: Error querying node status: Unexpected response code: 500 (rpc error: No cluster leader)	6.1(2f) and later
CSCvr89603	The CRC and stomped CRC error values do not match when seen from the APIC CLI compared to the APIC GUI. This is expected behavior. The GUI values are from the history data, whereas the CLI values are from the current data.	6.1(2f) and later
CSCvs19322	Upgrading Cisco APIC from a 3.x release to a 4.x release causes Smart Licensing to lose its registration. Registering Smart Licensing again will clear the fault.	6.1(2f) and later
CSCvs77929	In the 4.x and later releases, if a firmware policy is created with different name than the maintenance policy, the firmware policy will be deleted and a new firmware policy gets created with the same name, which causes the upgrade process to fail.	6.1(2f) and later
CSCvx75380	svcredirDestmon objects get programmed in all of the leaf switches where the service L3Out is deployed, even though the service node may not be connected to some of the leaf switch. There is no impact to traffic.	6.1(2f) and later
CSCvx78018	A remote leaf switch has momentary traffic loss for flushed endpoints as the traffic goes through the tglean path and does not directly go through the spine switch proxy path.	6.1(2f) and later
CSCvy07935	xR IP flush for all endpoints under the bridge domain subnets of the EPG being migrated to ESG. This will lead to a temporary traffic loss on remote leaf switch for all EPGs in the bridge domain. Traffic is expected to recover.	6.1(2f) and later
CSCvy10946	With the floating L3Out multipath recursive feature, if a static route with multipath is configured, not all paths are installed at the non-border leaf switch/non-anchor nodes.	6.1(2f) and later
CSCvy34357	Starting with the 6.1(1) release, the following apps built with the following non-compliant Docker versions cannot be installed nor run: • ConnectivityCompliance 1.2 • SevOneAciMonitor 1.0	6.1(2f) and later
CSCvy45358	The file size mentioned in the status managed object for techsupport " dbgexpTechSupStatus" is wrong if the file size is larger than 4GB.	6.1(2f) and later
CSCvz06118	In the " Visibility and Troubleshooting Wizard," ERSPAN support for IPv6 traffic is not available.	6.1(2f) and later
CSCvz84444	While navigating to the last records in the various History sub tabs, it is possible to not see any results. The first, previous, next, and last buttons will then stop working too.	6.1(2f) and later

Bug ID	Description	Exists in
CSCvz85579	VMMmgr process experiences a very high load for an extended period of time that impacts other operations that involve it. The process may consume excessive amount of memory and get aborted. This can be confirmed with the command "dmesg -T | grep oom_reaper" if messages such as the following are reported: oom_reaper: reaped process 5578 (svc_ifc_vmmmgr.)	6.1(2f) and later
CSCwa78573	When the "BGP" branch is expanded in the Fabric > Inventory > POD 1 > Leaf > Protocols > BGP navigation path, the GUI freezes and you cannot navigate to any other page. This occurs because the APIC gets large set of data in response, which cannot be handled by the browser for parts of the GUI that do not have the pagination.	6.1(2f) and later
CSCwe18213	The logical switch created for the EPG remains in the NSX-T manager after the EPG is disassociated from the domain, or the logical switch does not get created when the EPG is associated with the domain.	6.1(2f) and later
CSCwf71934	Multiple duplicate subnets are created on Nutanix for the same EPG.	6.1(2f) and later
CSCwh74888	With the addressing of CSCwe64407, a release that integrates that bug fix can the reference of a static VLAN pool in a VMM domain, which before was not possible. However, if the VMM domain is used by Layer 4 to Layer 7 virtual services and the VMM domain is referencing a static VLAN pool, the services do not work and a fault is raised.	6.1(2f) and later
CSCwh92539	After upgrading a Cisco APIC from a release before 5.2(8) to release 6.1(1) or later, there is a loss of out-of-band management connectivity over IPv6 if the APIC has dual stack out-of-band management. However, IPv4 connectivity remains intact. This issue does not occur if the out-of-band management is only IPv4 or only IPv6.	6.1(2f) and later
CSCwk21572	License manager occasionally cores after image upgrade.	6.1(2f) and later
N/A	Beginning in Cisco APIC release 4.1(1), the IP SLA monitor policy validates the IP SLA port value. Because of the validation, when TCP is configured as the IP SLA type, Cisco APIC no longer accepts an IP SLA port value of 0, which was allowed in previous releases. An IP SLA monitor policy from a previous release that has an IP SLA port value of 0 becomes invalid if the Cisco APIC is upgraded to release 4.1(1) or later. This results in a failure for the configuration import or snapshot rollback. The workaround is to configure a non-zero IP SLA port value before upgrading the Cisco APIC, and use the snapshot and configuration export that was taken after the IP SLA port change.	6.1(2f) and later
N/A	If you use the REST API to upgrade an app, you must create a new firmware.OSource to be able to download a new app image.	6.1(2f) and later
N/A	In a multipod configuration, before you make any changes to a spine switch, ensure that there is at least one operationally "up" external link that is participating in the multipod topology. Failure to do so could bring down the multipod connectivity. For more information about multipod, see the Cisco Application Centric Infrastructure Fundamentals document and the Cisco APIC Getting Started Guide.	6.1(2f) and later

Bug ID	Description	Exists in
N/A	With a non-english SCVMM 2012 R2 or SCVMM 2016 setup and where the virtual machine names are specified in non-english characters, if the host is removed and re-added to the host group, the GUID for all the virtual machines under that host changes. Therefore, if a user has created a micro segmentation endpoint group using "VM name" attribute specifying the GUID of respective virtual machine, then that micro segmentation endpoint group will not work if the host (hosting the virtual machines) is removed and re-added to the host group, as the GUID for all the virtual machines would have changed. This does not happen if the virtual name has name specified in all english characters.	6.1(2f) and later
N/A	A query of a configurable policy that does not have a subscription goes to the policy distributor. However, a query of a configurable policy that has a subscription goes to the policy manager. As a result, if the policy propagation from the policy distributor to the policy manager takes a prolonged amount of time, then in such cases the query with the subscription might not return the policy simply because it has not reached policy manager yet.	6.1(2f) and later
N/A	When there are silent hosts across sites, ARP glean messages might not be forwarded to remote sites if a leaf switch without -EX or a later designation in the product ID happens to be in the transit path and the VRF is deployed on that leaf switch, the switch does not forward the ARP glean packet back into the fabric to reach the remote site. This issue is specific to transit leaf switches without -EX or a later designation in the product ID and does not affect leaf switches that have -EX or a later designation in the product ID. This issue breaks the capability of discovering silent hosts.	6.1(2f) and later
N/A	Typically, faults are generally raised based on the presence of the BGP route target profile under the VRF table. However, if a BGP route target profile is configured without actual route targets (that is, the profile has empty policies), a fault will not be raised in this situation.	6.1(2f) and later
N/A	MPLS interface statistics shown in a switch's CLI get cleared after an admin or operational down event.	6.1(2f) and later
N/A	MPLS interface statistics in a switch's CLI are reported every 10 seconds. If, for example, an interface goes down 3 seconds after the collection of the statistics, the CLI reports only 3 seconds of the statistics and clears all of the other statistics.	6.1(2f) and later

Virtualization Compatibility Information

This section lists virtualization compatibility information for the Cisco APIC software.

- For a table that shows the supported virtualization products, see the ACI Virtualization Compatibility Matrix.
- For information about Cisco APIC compatibility with Cisco UCS Director, see the appropriate Cisco UCS Director Compatibility Matrix document.
- This release supports the following additional virtualization products:

Product	Supported Release	Information Location
Microsoft Hyper-V	• SCVMM 2019 RTM (Build 10.19.1013.0) or newer • SCVMM 2016 RTM (Build 4.0.1662.0) or newer • SCVMM 2012 R2 with Update Rollup 9 (Build 3.2.8145.0) or newer	N/A

Product	Supported Release	Information Location
VMM Integration and VMware Distributed Virtual Switch (DVS)	6.5, 6.7, 7.0 and 8.0. **Note**: vSphere 8.0 does not support the vCenter Plug-in and Cisco ACI Virtual Edge (AVE). If you need to continue to use the vCenter Plug-in and Cisco AVE, use vSphere 7.0.	Cisco ACI Virtualization Guide, Release 6.0(x)

Hardware Compatibility Information

This release supports the following Cisco APIC servers:

Product ID	Description
APIC-L2	Cisco APIC with large CPU, hard drive, and memory configurations (more than 1000 edge ports)
APIC-L3	Cisco APIC with large CPU, hard drive, and memory configurations (more than 1200 edge ports)
APIC-L4	Cisco APIC with large CPU, hard drive, and memory configurations (more than 1200 edge ports)
APIC-M2	Cisco APIC with medium-size CPU, hard drive, and memory configurations (up to 1000 edge ports)
APIC-M3	Cisco APIC with medium-size CPU, hard drive, and memory configurations (up to 1200 edge ports)
APIC-M4	Cisco APIC with medium-size CPU, hard drive, and memory configurations (up to 1200 edge ports)

The following list includes general hardware compatibility information:

- For the supported hardware, see the Cisco Nexus 9000 ACI-Mode Switches Release Notes, Release 16.1(2).
- Contracts using matchDscp filters are only supported on switches with "EX" on the end of the switch name. For example, N9K-93108TC-EX.
- When the fabric node switch (spine or leaf) is out-of-fabric, the environmental sensor values, such as Current Temperature, Power Draw, and Power Consumption, might be reported as "N/A." A status might be reported as "Normal" even when the Current Temperature is "N/A."
- First generation switches (switches without -EX, -FX, -GX, or a later suffix in the product ID) do not support Contract filters with match type "IPv4" or "IPv6." Only match type "IP" is supported. Because of this, a contract will match both IPv4 and IPv6 traffic when the match type of "IP" is used.

The following table provides compatibility information for specific hardware:

Product ID	Description
Cisco UCS M4-based	The Cisco UCS M4-based Cisco APIC and previous versions support only the 10G interface.

Product ID	Description
Cisco APIC	Connecting the Cisco APIC to the Cisco ACI fabric requires a same speed interface on the Cisco ACI leaf switch. You cannot connect the Cisco APIC directly to the Cisco N9332PQ ACI leaf switch, unless you use a 40G to 10G converter (part number CVR-QSFP-SFP10G), in which case the port on the Cisco N9332PQ switch auto-negotiates to 10G without requiring any manual configuration.
Cisco UCS M5-based Cisco APIC	The Cisco UCS M5-based Cisco APIC supports dual speed 10G and 25G interfaces. Connecting the Cisco APIC to the Cisco ACI fabric requires a same speed interface on the Cisco ACI leaf switch. You cannot connect the Cisco APIC directly to the Cisco N9332PQ ACI leaf switch, unless you use a 40G to 10G converter (part number CVR-QSFP-SFP10G), in which case the port on the Cisco N9332PQ switch auto-negotiates to 10G without requiring any manual configuration.
N2348UPQ	To connect the N2348UPQ to Cisco ACI leaf switches, the following options are available: Directly connect the 40G FEX ports on the N2348UPQ to the 40G switch ports on the Cisco ACI leaf switches Break out the 40G FEX ports on the N2348UPQ to 4x10G ports and connect to the 10G ports on all other Cisco ACI leaf switches. **Note**: A fabric uplink port cannot be used as a FEX fabric port.
N9K-C9348GC-FXP	This switch does not read SPROM information if the PSU is in a shut state. You might see an empty string in the Cisco APIC output.
N9K-C9364C-FX	Ports 49-64 do not support 1G SFPs with QSA.
N9K-C9508-FM-E	The Cisco N9K-C9508-FM-E2 and N9K-C9508-FM-E fabric modules in the mixed mode configuration are not supported on the same spine switch.
N9K-C9508-FM-E2	The Cisco N9K-C9508-FM-E2 and N9K-C9508-FM-E fabric modules in the mixed mode configuration are not supported on the same spine switch. The locator LED enable/disable feature is supported in the GUI and not supported in the Cisco ACI NX-OS switch CLI.
N9K-C9508-FM-E2	This fabric module must be physically removed before downgrading to releases earlier than Cisco APIC 3.0(1).
N9K-X9736C-FX	The locator LED enable/disable feature is supported in the GUI and not supported in the Cisco ACI NX-OS Switch CLI.
N9K-X9736C-FX	Ports 29 to 36 do not support 1G SFPs with QSA.

Miscellaneous Compatibility Information

This release supports the following products:

Product	Supported Release
Cisco NX-OS	16.1(2)
Cisco UCS Manager	2.2(1c) or later is required for the Cisco UCS Fabric Interconnect and other components, including the BIOS, CIMC, and the adapter.
CIMC HUU ISO	• 4.3.4.241063 (recommended) CIMC HUU ISO for UCS C225 M6 (APIC-L4/M4) • 4.3.2.240077 (recommended) CIMC HUU ISO for UCS C220/C240 M5 (APIC-L3/M3)

Product	Supported Release
	• 4.3.2.240009 CIMC HUU ISO for UCS C220/C240 M5 (APIC-L3/M3) and UCS C225 M6 (APIC-L4/M4) • 4.3.2.230207 CIMC HUU ISO for UCS C220/C240 M5 (APIC-L3/M3) and UCS C225 M6 (APIC-L4/M4) • 4.2(3e) CIMC HUU ISO for UCS C220/C240 M5 (APIC-L3/M3) and UCS C225 M6 (APIC-L4/M4) • 4.2(3b) CIMC HUU ISO for UCS C225 M6 (APIC-L4/M4) • 4.2(3b) CIMC HUU ISO for UCS C220/C240 M5 (APIC-L3/M3) • 4.2(2a) CIMC HUU ISO for UCS C220/C240 M5 (APIC-L3/M3) • 4.1(3m) CIMC HUU ISO for UCS C220/C240 M5 (APIC-L3/M3) • 4.1(3f) CIMC HUU ISO for UCS C220/C240 M5 (APIC-L3/M3) • 4.1(3d) CIMC HUU ISO for UCS C220/C240 M5 (APIC-L3/M3) • 4.1(3c) CIMC HUU ISO for UCS C220/C240 M5 (APIC-L3/M3) • 4.1(2m) CIMC HUU ISO (recommended) for UCS C220/C240 M4 (APIC-L2/M2) • 4.1(2k) CIMC HUU ISO for UCS C220/C240 M4 (APIC-L2/M2) • 4.1(2g) CIMC HUU ISO for UCS C220/C240 M4 (APIC-L2/M2) • 4.1(2b) CIMC HUU ISO for UCS C220/C240 M4 (APIC-L2/M2) • 4.1(1g) CIMC HUU ISO for UCS C220/C240 M4 (APIC-L2/M2) and M5 (APIC-L3/M3) • 4.1(2a) CIMC HUU ISO for UCS C220 M4 (APIC-L2/M2) (deferred release) • 4.1(1d) CIMC HUU ISO for UCS C220 M5 (APIC-L3/M3) • 4.1(1c) CIMC HUU ISO for UCS C220 M4 (APIC-L2/M2) • 4.0(4e) CIMC HUU ISO for UCS C220 M5 (APIC-L3/M3) • 4.0(2g) CIMC HUU ISO for UCS C220/C240 M4 and M5 (APIC-L2/M2 and APIC-L3/M3) • 4.0(1a) CIMC HUU ISO for UCS C220 M5 (APIC-L3/M3) • 3.0(4d) CIMC HUU ISO for UCS C220/C240 M3 and M4 (APIC-L2/M2) • 3.0(3f) CIMC HUU ISO for UCS C220/C240 M4 (APIC-L2/M2) • 2.0(13i) CIMC HUU ISO • 2.0(9c) CIMC HUU ISO • 2.0(3i) CIMC HUU ISO
Network Insights Base, Network Insights Advisor, and Network Insights for Resources	For the release information, documentation, and download links, see the Cisco Network Insights for Data Center page. For the supported releases, see the Cisco Data Center Networking Applications Compatibility Matrix.

- This release supports the partner packages specified in the L4-L7 Compatibility List Solution Overview document.
- A known issue exists with the Safari browser and unsigned certificates, which applies when connecting to the Cisco APIC GUI. For more information, see the Cisco APIC Getting Started Guide, Release 6.0(x).
- For compatibility with Day-2 Operations apps, see the Cisco Data Center Networking Applications Compatibility Matrix.
- Cisco Nexus Dashboard Insights creates a user in Cisco APIC called cisco_SN_NI. This user is used when Nexus Dashboard Insights needs to make any changes or query any information from the Cisco APIC. In the Cisco APIC, navigate to the **Audit Logs** tab of the **System > History** page. The cisco_SN_NI user is displayed in the User column.

Related Content

See the Cisco Application Policy Infrastructure Controller (APIC) page for the documentation.

The documentation includes installation, upgrade, configuration, programming, and troubleshooting guides, technical references, release notes, and knowledge base (KB) articles, as well as other documentation. KB articles provide information about a specific use case or a specific topic.

By using the " Choose a topic" and " Choose a document type" fields of the APIC documentation website, you can narrow down the displayed documentation list to make it easier to find the desired document.

You can watch videos that demonstrate how to perform specific tasks in the Cisco APIC on the Cisco Cloud Networking YouTube channel.

Temporary licenses with an expiry date are available for evaluation and lab use purposes. They are strictly not allowed to be used in production. Use a permanent or subscription license that has been purchased through Cisco for production purposes. For more information, go to Cisco Data Center Networking Software Subscriptions.

The following table provides links to the release notes, verified scalability documentation, and new documentation:

Document	Description
Cisco Nexus 9000 ACI-Mode Switches Release Notes, Release 16.1(2)	The release notes for Cisco NX-OS for Cisco Nexus 9000 Series ACI-Mode Switches.
Verified scalability guide, Release 6.1(2)	This guide contains the maximum verified scalability limits for Cisco Application Centric Infrastructure (ACI) parameters for Cisco APIC and Cisco Nexus 9000 Series ACI-Mode Switches.
APIC REST API Configuration Procedures	This document resides on developer.cisco.com and provides information about and procedures for using the Cisco APIC REST APIs. The new REST API procedures for this release reside only here and not in the configuration guides. However, older REST API procedures are still in the relevant configuration guides.

Documentation Feedback

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