



Cisco Application Policy Infrastructure Controller Release Notes, Release 6.0(9)

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 16.0\(9\)](#).

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

Date	Description
August 7, 2025	Release 6.0(9e) became available; the Resolved Issues table was updated.
July 1, 2025	Defect CSCwp91797 was added to the list of Known Issues.
June 11, 2025	The Miscellaneous Compatibility Information table was updated to indicate support for 4.3.2.250016 CIMC HUU ISO for UCS C220/C240 M5 (APIC-L3/M3).
April 16, 2025	Release 6.0(9d) became available; the Resolved Issues table was updated.
February 27, 2025	Release 6.0(9c) became available.

New Software Features

Product Impact	Feature	Description
N/A	N/A	There are no new software features in this release.

New Hardware Features

For the new hardware features, see the [Cisco Nexus 9000 ACI-Mode Switches Release Notes, Release 16.0\(9\)](#).

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 6.0(9) releases in which the bug exists. A bug might also exist in releases other than the 6.0(9) releases.

Bug ID	Description	Exists in
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".	6.0(9c) 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.	6.0(9c) and later
CSCwp14876	Return PBR traffic dropped on Service Leaf after APIC upgrade due to actrlRule missing to allow traffic.	6.0(9d)
CSCwc50398	Licensemgr process crashes on node-1, with Smart license mode being "Direct connection to CSSM" under smart license settings.	6.0(9c) and 6.0(9d)

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 6.0(9) release in which the bug was first fixed.

Bug ID	Description	Fixed in
CSCwo19068	Users are unable to authenticate on APICs 1 and 2 via GUI after power event/reload of APIC, while authentication works on APIC 3. CLI access still works.	6.0(9d)
CSCwh41632	APIC controller upgrade will be shown as completed only after the post upgrade activities are completed.	6.0(9d)
CSCwn59662	After upgrading an ACI leaf, the GBP cache may miss some contracts, which can cause traffic disruptions for the affected EPGs. On the OSP/compute node, this issue may manifest as policy miss drops in OVS, specifically indicated by POL_TABLE MISS.	6.0(9d)
CSCwo45052	We should have proper validation for gipo. need to validate the following things: 1. valid range 2. valid subnet/mask APIC obviously took the invalid address at the initial setup, whereas NXOS correctly rejects in multi-pod environment.	6.0(9d)
CSCwb66277	When trying to generate aclogPermitL3Flow, aclogDropL3Flow, aclogPermitL3Pkt or aclogDropL3Pkt, APIC returns to the user "Unable to deliver the message. Resolve timeout from (type/num/svc/shard) = switch:{switchId}:4:0".	6.0(9c)
CSCwb97455	switch nginx process would be blocked when query aclog records, either from visore or through CLI moquery. this is due to performance issue when querying those info and creating aclog mos on the fly. the main time consumer is query actrlRule when it is relatively large, around ~50K mos. If nginx is blocked, customer can not logging to switch for about 10-15 mins until nginx is timed out querying those aclog records.	6.0(9c)
CSCwh63412	Audit logs under System > History > Audit Logs are limited to the current logged in user. Only the user with the username admin can see the audit logs from all users, but other users despite having admin privileges cannot see the audit logs from other users. The audit logs under Tenants are visible to every user.	6.0(9c)

Bug ID	Description	Fixed in
CSCwi05819	Export of techsupport, configuration backups, etc. does not work when the remote server is a Windows machine with SFTP because the GUI does not allow a remote path without a leading slash in the remote location object (<code>fileRemotePath.remotePath</code>). For instance, an example of a correct remote path for a Windows machine with SFTP is "C:/Users/Administrator/Downloads". However, the GUI enforces users to type "/C:/Users/Administrator/Downloads" instead, which fails with a fault F0053 and error "Upload failed, Destination access was denied".	6.0(9c)
CSCwi12805	The CLI command "show dcimgr repo sclass-maps" reports multiple translation rules stated as unformed. Those rules are not installed in the line card, which is not found by the CLI command "show plat int hal dci sclassmap".	6.0(9c)
CSCwi66761	The client Certificate Authenticate state is disabled but the browser still prompts for the certificate when the APIC GUI is accessed.	6.0(9c)
CSCwi76453	In L3Outs with BGP enabled, we cannot configure an IPv6 neighbor address with /127 and /128 prefix under the BGP Connectivity Profile, especially for physical interfaces. For example: fd00::/127. The input box will be squared with red and display a red exclamation mark, but it does not give a warning in the pop-up text when you hover the mouse cursor on the exclamation mark. Also, the "Submit" button will be grayed out.	6.0(9c)
CSCwi80052	After a user changes the time zone from UTC to a local time zone in "System" > "System Setting" > "Date and Time", the time zone looks changed to the local time zone on the APIC GUI (For example, Asia/Tokyo). But, the time zone attribute of the datetimeFormat managed object that manages time zone internally is still set to UTC.	6.0(9c)
CSCwi81236	When deploying an encapsulation VLAN on an EPG using AAEP, any subsequent VLAN you attempt to deploy under the same AAEP overwrites the existing VLAN, with no prior warning or notification.	6.0(9c)
CSCwi82301	The loopback IP address configured on the APIC GUI on a node profile for an L3Out, is not reflected in the CLI of the leaf switch.	6.0(9c)
CSCwi85833	Some APIC show commands are hanging or not responding to auto-complete.	6.0(9c)
CSCwj14274	Data center crashes caused by missing ElasticSearch service has been fixed. However, data center can no longer receive updates from the cloud.	6.0(9c)
CSCwi25438	When an interface connected to a leaf switch goes down, LLDP caches that info instead of clearing it, which can cause the attribute-value pair to corrupt the cluster and cause the cluster to become diverged.	6.0(9c)
CSCwj51103	Stale leaf-to-controller connection shows as an active connection.	6.0(9c)
CSCwj68034	During an APIC cluster upgrade, APIC 1 gets stuck as shown in this output: 2024-03-13 19:01:36,238 INFO 32451 install_utils:114 killall -9 glusterfsd 2024-03-13 19:01:36,255 INFO 32451 install_utils:121 lsof /data2 2>/dev/null grep -v PID awk '{print \$1"_X_"\$2}' sort -u 2024-03-13 19:01:36,388 INFO 32451 install_utils:127 python3_X_32451 2024-03-13 19:01:36,388 INFO 32451 install_utils:282 Killing python3:32451 to free /data2 2024-03-13 19:01:36,389 INFO 32451 install_utils:114 kill -9 32451	6.0(9c)

Bug ID	Description	Fixed in
CSCwj71324	Fault F3083 did not generate for two endpoints in the same EPG that have the same IP address.	6.0(9c)
CSCwj80825	After performing a policy upgrade to 6.0(2) or later, the upgrade failed on the virtual APICs or the virtual APICs were otherwise unresponsive.	6.0(9c)
CSCwj85048	It is possible to configure infra VLAN as part of a dynamic VLAN pool, even though this configuration should be prevented by the APIC policy distributor process checks.	6.0(9c)
CSCwk02682	Reset Reason for this card: Image Version : 16.0(3e) Reset Reason (LCM): Unknown (0) at time Reset Reason (SW): System cold rebooted (180) at time Service (Additional Info): System cold rebooted Reset Reason (HW): Unknown (0) at time Reset Cause (HW): 0x00 at time Reset internal (HW): 0x00 at time	6.0(9c)
CSCwk40978	Decommissioned APIC residue in avread. This APIC triggered leaf switches to do AV mutation continuously, resulting in fmvread flap on APIC.	6.0(9c)
CSCwk42159	After upgrading border leaf switches to version 6.0.5h, static pervasive routes to remote bridge domain might not get programmed in one of the pairs, causing the traffic to get dropped.	6.0(9c)
CSCwk45026	When two Switch Profiles are created in Fabric Policy via GUI, Interface Associations of the first Profiles are deleted.	6.0(9c)
CSCwk45334	Browser's page with APIC UI gets failed with "Error code: 5" when two snapshots are compared and one of them is small (<1MB) and the other one is large (>2MB).	6.0(9c)
CSCwk53812	The threshold action became permit from bypass in case the nexthop group attribute missing for PBR policyThe "nexthop group" attribute is missing for PBR policy v4 or v6 after enable the PBR threshold with bypass action.By considering checking how the backup group is decided for bypass node on switch, put below command, but it seems not showing as expected for IPv4 case.. it couldn't see the next "nexthop group: info displayed for IPv4, but for Ipv6 we can see that info.	6.0(9c)
CSCwk59987	1. On GUI, go to Fabric > Inventory > Fabric Membership 2. Select a spine which you want to replace and right-click it 3. From the pop-up menu, select "Decommission" . 4. You cannot see options in the "Decommission" dialog.	6.0(9c)
CSCwk69242	When an APIC controller in one Pod is replaced by a standby controller from another Pod, the Static Node Management Address for Out-of-Band interface on the new active APIC (former standby APIC) is assigned to the "default" OOB EPG instead of the configured custom OOB EPG. As a result, the new active APIC might become unreachable through Out-of-Band.	6.0(9c)
CSCwk69705	Getting the "show version" result fails if you access the APIC from a non-English remote client. The following warning will appear when logging in ----- /bin/bash: warning: setlocale: LC_ALL: cannot change locale (ja_JP.UTF-8)Last login: 2024-07-10T03:53:51.000+00:00 UTCapic1# show versionsError: 'noId'	6.0(9c)

Bug ID	Description	Fixed in
CSCwk73873	<p>66% of entries in the CU environment are for "modifications" to the DeviceConnectorInst as below. This creates difficulty in monitoring ACI as well as fills up storage with superfluous entries.</p> <pre><aaaModLR affected=" uni/fabric/dcinst" cause="transition" changeSet=" psb (****)" childAction=" " clientTag=" " code=" E4219170" created=" 2024-07- 09T14:08:44.823+00:00" descr=" DeviceConnectorInst modified" dn=" subj- [uni/fabric/dcinst]/mod-8589955642" id=" 8589955642" ind=" modification" modTs=" never" sessionId=" " severity=" info" status=" " trig=" config" txld=" 576460752306227951" user=" intersight_dc" /></pre>	6.0(9c)
CSCwk88187	<p>Switch TACACS audit feature does not work when using INB management on TACACS destination group.</p> <p>The TACACS logging for switches were added in 6.0.2. Though the feature was added and tested for OOB during implementation, it was not tested for INB Epg configuration, which should be supported and tested.</p>	6.0(9c)
CSCwm07136	nginx crashed is seen when LDAP login is used.	6.0(9c)
CSCwm07375	The APIC UI show the following warning: This object was created by an unknown orchestrator. It is recommended to only modify this object using the appropriate orchestrator when the orchestrator used to create the Tenant is "orchestrator:aci-containers-controller". This is a supported orchestrator, and this is just a cosmetic issue.	6.0(9c)
CSCwm29721	<p>When APIC authentication takes place, the leaf ports where the APIC is connected to are going into out of service state. LLDP interface is indicating wiring issues: unapproved controller:</p> <pre>leaf-2001# cat /mit/sys/lldp/inst/if-[eth1--1]/summary # LLDP Interface id : eth1/1 adminRxSt : enabled adminSt : enabled adminTxSt : enabledCluster</pre>	6.0(9c)
CSCwm34088	fabric command failed with show discovery issues on APIC.	6.0(9c)
CSCwm37391	The command 'show vmware domain name <vc>' is showing invalid token for some vcenters in vmmdomain>Error: not well-formed (invalid token): line 1, column 132528	6.0(9c)
CSCwm40608	When applying SMU to a version that is compatible with the SMU, a compatibility error occurs. Error: "The firmware version of node(s) <Node ID> are not compatible with SMU version being installed".	6.0(9c)
CSCwm44776	If user defined tenant configuration uses the same VLAN as the infra VLAN then during the configuration you will see a fault F0467 about the VLAN encap being in use on the leaf that has the APIC infra VLAN deployed on the APIC connected interface. However, if the APIC interface goes down then the tenant VLAN gets programmed which results in the switch port not having the actual infra VLAN deployed. The interface shows unapproved controller for the connected APIC.	6.0(9c)

Bug ID	Description	Fixed in
CSCwmm48813	<p>During the ACI switch SMU installation, the upgrade window fails to update the SMU version information in a timely manner.</p> <p>Using the APIC GUI:</p> <p>Step 1.Upload a SMU image: Navigate to Admin > Firmware > Images.</p> <p>Step 2.Create a Switch upgrade policy: Proceed to Admin > Firmware > Switches > Actions > Create Update Group. Select a switch, then opt for "Software Maintenance Upgrade (Install)" and choose the previously uploaded SMU firmware. Initiate the download.</p> <p>Step 3.Admin > Firmware > Switches > Click on the current status > Click Actions > Select Install and Reload.</p> <p>Step 4.Maintain the upgrade window open and await the completion of the installation.</p> <p>Despite the installation being complete, the SMU Version column remains blank with " - ", and refreshing the page offers no help.</p>	6.0(9c)
CSCwmm54552	The default Password Strength Check value is Enabled under Admin/AAA/Security/Default settings, but when opening the " Edit Security Default Settings" window, the Password Strength Check checkbox isn't checked so it looks like it is not enabled.	6.0(9c)
CSCwmm61872	<p>If you configure any vSwitch Policy on the APIC when the VDS Parameters have the Multicast Filtering Mode as IGMP / MLD Snooping, and this configuration is pushed, the Filtering Mode will be reverted to Basic, as the following log:</p> <p>The vSphere Distributed Switch " name 1" in " name 2" was reconfigured. Modified: config.description: <unset> -> ""; config.configVersion: " 2" -> " 3"; config.switchIpAddress: <unset> -> " 0.0.0.0"; config.ipfixConfig.collectorIpAddress: <unset> -> " x.x.x.x"; config.ipfixConfig.collectorPort: 0 -> 9995; config.multicastFilteringMode: " snooping" -> " legacyFiltering"; Added: Deleted:</p>	6.0(9c)
CSCwmm63131	GUI throws an error that says " An object with the same naming properties exists in the system, please fix and continue" when creating a contract with the same name as a contract in another tenant.	6.0(9c)
CSCwmm77699	Create a profile/selector for a subPort greater than 16, for example interface eth1/1/20 on node 101. In other words, assign a Policy Group to an interface that does not exist.	6.0(9c)
CSCwmm80661	As per design, the ESG policies and intra-VRF routes (all BD subnets) are programmed on all nodes where the VRF is deployed upon ESG creation. In contra-VRF routes, when the last ESG associated with VRF is removed from the APIC, we expected respective BD subnets to be removed from all nodes where the BD/EPG is not deployed. However, this is not the case. The BD subnets remained on the nodes where the VRF is deployed.	6.0(9c)
CSCwmm96465	ACI 6.0(5h) Wrong value for APIC's Memory usage in GUI.	6.0(9c)
CSCwmm62369	When collecting on ondemand TS for APIC M4/L4s the DB files will be missing in the collection (2of3 file). You will see the file completes but it will be a very small file without the DB files.	6.0(9c)
CSCwmp22212	The policymgr process consistently crashes after an upgrade to a non-fixed version. As a result, the APIC cluster fails to converge and remain in a data-layer partially diverged status.	6.0(9e)
CSCwmc50398	Licensemgr process crashes on node-1, with Smart license mode being " Direct connection to CSSM" under smart license settings.	6.0(9e)

Bug ID	Description	Fixed in
CSCwk79672	The Cisco APIC upgrade status becomes stuck in the " Post Upgrade Pending" state when there is some connectivity issue between two APICs during post-upgrade callback execution.	6.0(9e)
CSCwp64296	<p>After a stateless reload of a spine, the EP exception list shows it is disabled and no configuration is present.</p> <pre>spine# moquery -c rogueBDDef No Mos found</pre> <p>spine# vsh</p> <pre>spine# show coop internal information ep exception-list EP Exception list not Enabled.</pre>	6.0(9e)

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 6.0(9) releases in which the bug exists. A bug might also exist in releases other than the 6.0(9) releases.

Bug ID	Description	Exists in
CSCvj26666	The " show run leaf spine <nodeld>" command might produce an error for scaled up configurations.	6.0(9c) and later
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.	6.0(9c) and later
CSCvq58953	<p>One of the following symptoms occurs:</p> <p>App installation/enable/disable takes a long time and does not complete.</p> <p>Nomad leadership is lost. The output of the aci diag scheduler logs members command contains the following error:</p> <p>Error querying node status: Unexpected response code: 500 (rpc error: No cluster leader)</p>	6.0(9c) 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.	6.0(9c) 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.	6.0(9c) 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.	6.0(9c) and later
CSCvx75380	<p>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.</p> <p>There is no impact to traffic.</p>	6.0(9c) and later

Bug ID	Description	Exists in
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.	6.0(9c) 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.	6.0(9c) 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.	6.0(9c) and later
CSCvy34357	Starting with the 6.0(7) release, the following apps built with the following non-compliant Docker versions cannot be installed nor run: <ul style="list-style-type: none"> ConnectivityCompliance 1.2 SevOneAciMonitor 1.0 	6.0(9c) and later
CSCvz06118	In the "Visibility and Troubleshooting Wizard," ERSPAN support for IPv6 traffic is not available.	6.0(9c) 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.	6.0(9c) and later
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.)	6.0(9c) 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.	6.0(9c) 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.	6.0(9c) and later
CSCwf71934	Multiple duplicate subnets are created on Nutanix for the same EPG.	6.0(9c) 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.	6.0(9c) and later
CSCwh92539	After upgrading a Cisco APIC from a release before 5.2(8) to release 6.0(7) 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.	6.0(9c) and later

Bug ID	Description	Exists in
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.	6.0(9c) and later
CSCwa90084	<ul style="list-style-type: none"> - Traffic gets disrupted across a vPC pair on a given encapsulation. OR <ul style="list-style-type: none"> - EPG flood in encapsulation gets blackholed on a given encapsulation. OR <ul style="list-style-type: none"> - STP packets received on an encapsulation on a given port are not forwarded on all the leaf switches where the same EPG/same encapsulation is deployed. 	6.0(9c) and later
CSCwf78521	A GOLF spine switch advertises the bridge domain prefixes to a GOLF peer in multiple VRF instances.	6.0(9c) and later
CSCwp91797	<p>VPC ports channel member ports were showing <i>down</i> post upgrade.</p> <pre> 1 Po1(SD) Eth LACP Eth1/9(D) 2 Po2(SD) Eth LACP Eth1/68(D) </pre>	6.0(9d)
N/A	<p>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.</p> <p>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.</p>	6.0(9c) 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.	6.0(9c) 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.	6.0(9c) and later
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.	6.0(9c) 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.	6.0(9c) and later

Bug ID	Description	Exists in
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.	6.0(9c) 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.	6.0(9c) and later
N/A	MPLS interface statistics shown in a switch's CLI get cleared after an admin or operational down event.	6.0(9c) 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.	6.0(9c) 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	<ul style="list-style-type: none"> 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
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)
Nutanix	<ul style="list-style-type: none"> Prism Central (PC) version: 2022.6.0.4; AOS version 6.5.x Prism Central (PC) version: 2023.1.0.1; AOS version 6.6.x Prism Central (PC) version: 2024.2.0.1; AOS version - 6.10.x Note: Only 6.0(9d) supports PC version: 2024.2.0.1, AOS version - 6.10.x	N/A

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 16.0\(9\)](#).
- 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 Cisco APIC	The Cisco UCS M4-based Cisco APIC and previous versions support only the 10G interface. 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

Product ID	Description
	any manual configuration.
N2348UPQ	<p>To connect the N2348UPQ to Cisco ACI leaf switches, the following options are available:</p> <p>Directly connect the 40G FEX ports on the N2348UPQ to the 40G switch ports on the Cisco ACI leaf switches</p> <p>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.</p> <p>Note: A fabric uplink port cannot be used as a FEX fabric port.</p>
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	<p>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.</p> <p>The locator LED enable/disable feature is supported in the GUI and not supported in the Cisco ACI NX-OS switch CLI.</p>
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	16.0(9)
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	<p>Note: Install only the CIMC versions mentioned here in this table. Though other firmware versions may be supported on standard UCS C220/C225 servers, they are not supported on APIC and could lead to issues, including failure to boot.</p> <ul style="list-style-type: none"> • 4.3.4.252002 (recommended) CIMC HUU ISO for UCS C225 M6 (APIC-L4/M4) • 4.3.2.250016 (recommended) CIMC HUU ISO for UCS C220/C240 M5 (APIC-L3/M3) • 4.3.4.241063 CIMC HUU ISO for UCS C225 M6 (APIC-L4/M4) • 4.3.2.240077 CIMC HUU ISO for UCS C220/C240 M5 (APIC-L3/M3) • 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)

Product	Supported Release
	<ul style="list-style-type: none"> • 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(1f) 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	<p>For the release information, documentation, and download links, see the Cisco Network Insights for Data Center page.</p> <p>For the supported releases, see the Cisco Data Center Networking Applications Compatibility Matrix.</p>

- 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 16.0(9)	The release notes for Cisco NX-OS for Cisco Nexus 9000 Series ACI-Mode Switches.
Verified Scalability Guide for Cisco APIC, Releases 6.0(4) through 6.0(9) and Cisco Nexus 9000 Series ACI-Mode Switches, Releases 16.0(4) through 16.0(9)	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

To provide technical feedback on this document, or to report an error or omission, send your comments to apic-docfeedback@cisco.com. We appreciate your feedback.

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