



## New and Changed Information

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The following tables summarize the new and changed features and tell you where they are documented.

**Table 1: New and Changed Features for Cisco DNA Center, Release 2.3.3.7**

Feature	Description
Dynamic Channel Assignment (DCA) Validation	<p>DCA channel support is based on the regulatory domain of the device. During AP provisioning with an RF profile selected, out of all the DCA channels configured on the RF profile only the supported channels as per the country code are considered and the unsupported channels are ignored. You can view the list of unsupported channels in the AP preprovision summary window.</p> <p>See <a href="#">Create a Wireless Radio Frequency Profile</a>, <a href="#">Create an AI Radio Frequency Profile</a>, and <a href="#">About Wireless Devices and Country Codes</a>.</p>
Enhancements to AP Location Configuration	<p>During AP provisioning and AP Plug and Play (PnP) onboarding, Cisco DNA Center doesn't configure the assigned site as the AP location. You can configure the AP location using the <b>Configure Access Points</b> workflow.</p> <p>See <a href="#">Provision a Cisco AP—Day 1 AP Provisioning</a>, <a href="#">Provision a Wireless or Sensor Device</a>, and <a href="#">Configure AP Workflow</a>.</p>
Enhancements to Authentication using AAA Server for Wireless Networks	<p>Effective with this release, you must configure an AAA server for an SSID to push the authentication configuration for the SSID. If an AAA server is not configured for the SSID, Cisco DNA Center pushes the <b>aaa authentication dot1x default local</b> command to the wireless controller and the default method list that points to local authentication is mapped to the SSID.</p> <p>See <a href="#">Configure AAA Server for an Enterprise Wireless Network</a> and <a href="#">Configure AAA Server for a Guest Wireless Network</a>.</p>
Enhancements to Default Configuration of Fast Transition Over Distributed Systems for SSIDs	<p>Effective with this release, fast transition over a distributed system (<b>Over the DS</b> check box) is disabled by default for SSIDs for guest and enterprise wireless networks.</p> <p>See <a href="#">Create SSIDs for an Enterprise Wireless Network</a> and <a href="#">Create SSIDs for a Guest Wireless Network</a>.</p>

Feature	Description
Enhancements to Editing RF Profiles	<p>Effective with this release, when you update an RF profile that is already provisioned on a wireless controller and AP, you can reprovise either the wireless controller or AP. Wireless controller reprovise also pushes the RF profiles updates to the devices and AP reprovise is not necessary.</p> <p>If the you don't need the RF profile updates during the wireless controller reprovise, you can check the <b>Skip AP Provision</b> check box</p> <p>See <a href="#">Edit or Delete a Basic Radio Frequency Profile</a> and <a href="#">Edit and Delete an AI Radio Frequency Profile</a>.</p>
Enhancements to RF Profiles	<p>Effective with this release, for Cisco Catalyst 9800 Series Wireless Controllers, disabling a radio band on the RF profile doesn't disable the Admin status of the respective radios on all APs that use the RF profile. Instead, Cisco DNA Center disables the Admin status of the corresponding RF profile.</p> <p><b>Note</b> When the Admin status of a radio band on the RF profile is in disabled state and you upgrade to Release 2.3.3.7, if you reprovise the wireless controller or AP:</p> <ul style="list-style-type: none"> <li>• Cisco DNA Center creates the RF profile for the corresponding radio band with Admin status as disabled.</li> <li>• Cisco DNA Center updates the RF profile mapping in the RF tag on the device from <b>Global Config</b> to the newly created RF profile.</li> </ul> <p>See <a href="#">Create a Wireless Radio Frequency Profile</a> and <a href="#">Create an AI Radio Frequency Profile</a>.</p>
Enhancements to Site Tags, Policy Tags, and AP Zone Provisioning	<p>Site tags, policy tags, and AP zone provisioning have the following enhancements:</p> <ul style="list-style-type: none"> <li>• If an AP zone is already provisioned on an AP and you update the AP zone configuration, you must reprovise the wireless controller. Reprovise the AP is not necessary.</li> <li>• Newly added custom site tag and policy tag configurations are applied only when you provision the APs. Provisioning the wireless controller alone doesn't configure the new custom tags on the APs. If there are any updates to the tags after the first provisioning, you must reprovise the wireless controller or APs.</li> </ul> <p>See <a href="#">Add AP Zones to a Network Profile</a> and <a href="#">Add AP Groups, Flex Groups, Site Tags, and Policy Tags to a Network Profile</a>.</p>

Table 2: New and Changed Features for Cisco DNA Center, Release 2.3.3.0

Feature	Description
2D Wireless Maps Enhancements	<ul style="list-style-type: none"> <li>• Interaction between 2D wireless maps and Cisco DNA Spaces or Cisco Connected Mobile Experiences (CMX) has been improved.</li> <li>• Other enhancements to 2D wireless maps enable you to:               <ul style="list-style-type: none"> <li>• View switch stacks and see the links between individual switches and their associated APs.</li> <li>• View client information, including a client's link to its associated AP.</li> <li>• View AP radio state, health, name, and mode, in the AP icon.</li> <li>• Turn the grid pattern on or off when creating a floor map using a CAD file.</li> <li>• Configure planned APs with dual radios.</li> <li>• Add alignment points to floors so that they are positioned correctly one on top of the other.</li> <li>• Import an Ekahau site survey file to Cisco DNA Center.</li> <li>• Continue to view the 2D maps toolbar after resizing the screen.</li> </ul> </li> </ul> <p>See <a href="#">View a 2D Wireless Floor Map</a>, <a href="#">Add a Floor with a CAD Map File</a>, <a href="#">Add Planned APs to a Map</a>, <a href="#">AP Icon Legend</a>, <a href="#">Add, Edit, and Delete Align Points</a>, and <a href="#">Import an Ekahau Site Survey to Cisco DNA Center</a>.</p>
3D Wireless Maps Enhancements	<ul style="list-style-type: none"> <li>• Interaction between 3D wireless maps and Cisco DNA Spaces or Cisco Connected Mobile Experiences (CMX) has been improved.</li> <li>• Other enhancements to 3D wireless maps enable you to:               <ul style="list-style-type: none"> <li>• Perform 3D RF modeling of free space within a building.</li> <li>• Include up to five floors in your 3D heatmap computation.</li> <li>• View signal leakage and signal reflection.</li> <li>• View client information, including a client's link to its associated AP.</li> <li>• Continue to view the 3D maps toolbar after resizing the screen.</li> </ul> </li> </ul> <p>See <a href="#">View a 3D Wireless Map</a>, <a href="#">3D Map View Options</a>, and <a href="#">3D Wireless Map Toolbar</a>.</p>
Advertise LAN Automation Summary Route to BGP	<p>LAN automation advertises the summary route to BGP on the primary and peer device.</p> <p>See <a href="#">Provision a Network Through LAN Automation</a>.</p>

Feature	Description
AP Configuration Workflow Enhancements	<p>You can configure an AP even if it is not assigned to a site.</p> <p>You can configure the following AP parameters:</p> <ul style="list-style-type: none"> <li>• AP height</li> <li>• LED brightness level</li> </ul> <p>You can configure the following radio parameters:</p> <ul style="list-style-type: none"> <li>• CleanAir or spectrum intelligence settings</li> <li>• Antenna settings</li> </ul> <p>See <a href="#">AP Configuration in Cisco DNA Center</a> and <a href="#">Configure AP Workflow</a>.</p>
Application Hosting Enhancements	<p>You can validate the HTTPS credentials provided for the device during the device readiness check.</p> <p>See <a href="#">Install an Application on a Cisco Catalyst 9300 Device</a>.</p>
AP Provisioning Change for XOR Radio Role	<p>With Cisco DNA Center 2.3.3.0 or later, when you provision any AP that has XOR radio (for example, Cisco 2800, 3800, and so on) with an RF profile that has 2.4 GHz disabled, Cisco DNA Center changes the XOR radio role to 5 GHz manual.</p> <p><b>Note</b> You need to use the AP config workflow for any changes to the XOR radio role.</p> <p>See <a href="#">Create a Wireless Radio Frequency Profile</a>.</p>
AP Refresh Across Cisco Wireless Controllers	<p>You can perform an AP refresh when the old AP and new AP are connected to different Cisco Wireless Controllers. You can perform an AP refresh even if the old AP is not provisioned.</p> <p>See <a href="#">AP Refresh Workflow</a>.</p>
AP Zones	<p>You can add AP zones to a network profile for wireless devices. You can use AP zones to associate different SSIDs and RF profiles for a set of APs on the same site.</p> <p>See <a href="#">Create Network Profiles for Wireless</a> and <a href="#">Provision a Cisco AP—Day 1 AP Provisioning</a>.</p>
Assign Device Roles and Tags to Software Images	<p>You can assign device roles and tags to a software image to indicate that the software image is marked as golden. When both the device tags and device roles are assigned to a software image, the device tags take precedence.</p> <p>See <a href="#">View Software Images</a>.</p>
Border Preference Option in the Fabric Site	<p>To navigate traffic through a desired border node, assign priority values for the border nodes in the fabric site.</p> <p>See <a href="#">Add a Device as a Border Node</a>.</p>
Central Web Authentication Using Third-Party AAA Server for Guest Wireless Networks	<p>You can now configure Central Web Authentication (CWA) using a third-party AAA server while creating SSIDs for guest wireless networks.</p> <p>See <a href="#">Create SSIDs for a Guest Wireless Network</a> and <a href="#">Configure AAA Server for a Guest Wireless Network</a>.</p>

Feature	Description
Cisco Device Hardware, Software, and Module End of Life (EoX) Status	Cisco DNA Center shows alerts for the devices that are scanned for EoX alerts. The <b>EoX Status</b> column in the <b>Inventory</b> table shows the number of EoX alerts. See <a href="#">Display Information About Your Inventory</a> .
Cisco DNA Center Insights	You can subscribe to <i>Cisco DNA Center Insights</i> , which contains product announcements, network highlights, information about your network performance, and more. The <i>Cisco DNA Center Insights</i> publication is sent in PDF format to the email address that you specify. See <a href="#">Subscribe to Cisco DNA Center Insights</a> .
Control Endpoint Spoofing	The Control Endpoint Spoofing feature provides granular policy control by providing network information other than just the MAC address of an endpoint. See <a href="#">Control Endpoint Spoofing</a> .
Create Port Group	You can group device ports based on an attribute or rule. See <a href="#">Create Port Groups</a> .
Credential Status	The <b>Credential Status</b> column in the <b>Inventory</b> table shows the device credential status for devices that are configured. Click <b>See Details</b> to view details about the credentials. See <a href="#">Display Information About Your Inventory</a> .
Custom Policy Tags	You can configure policy tags for Cisco Catalyst 9800 Series Wireless Controllers using the advanced settings while creating network profiles for wireless devices. See <a href="#">Add AP Groups, Flex Groups, Site Tags, and Policy Tags to a Network Profile</a> .
Custom Template for Day 0 Onboarding Without Site Selection	If you have not assigned the device to a site, you must choose a template to claim the device. See <a href="#">Provision a Switch or Router Device</a> .
Design the Network Hierarchy	You can now search the network hierarchy using the <b>Site Name</b> and <b>Site Type</b> filter criteria. See <a href="#">Search the Network Hierarchy</a> .

Feature	Description
FIPS 140-2 Support	<p>Software images are compliant with the Federal Information Processing Standard (FIPS). If FIPS mode is enabled in Cisco DNA Center, you cannot import images from a URL. Import images from your computer or cisco.com.</p> <p>See <a href="#">Import a Software Image</a>.</p> <p>FIPS mode is supported only in a new installation of Cisco DNA Center. If you are upgrading from an earlier release, FIPS mode is not supported.</p> <p>In a FIPS deployment, you cannot enable external authentication.</p> <p>FIPS mode is not supported for the Cisco Wide Area Bonjour application. In a FIPS deployment, you cannot install the Cisco Wide Area Bonjour application from the Cisco DNA Center GUI or CLI.</p> <p>FIPS mode has the following impact on the export and import of map archives.</p> <p>If FIPS mode is <i>enabled</i>:</p> <ul style="list-style-type: none"> <li>• Exported map archives are unencrypted.</li> <li>• Only unencrypted map archives can be imported.</li> </ul> <p>If FIPS mode is <i>disabled</i>:</p> <ul style="list-style-type: none"> <li>• Exported map archives are encrypted.</li> <li>• Both encrypted and unencrypted map archives can be imported.</li> </ul> <p>See <a href="#">Use an Existing Cisco Network Hierarchy, Export Your Map Archive from Cisco DNA Center</a>, and <a href="#">Import Your Map Archive to Cisco DNA Center</a>.</p>
FIPS Support for Endpoint Analytics	<p>When FIPS mode is enabled in Cisco DNA Center, some of the functions related to Endpoint Analytics are <i>unavailable</i> in the Cisco DNA Center GUI.</p> <p>See <a href="#">FIPS Compliance</a>.</p>
Generate Compliance Audit Report	<p>You can get a consolidated compliance report that shows the compliance status of the devices in your network.</p> <p>See <a href="#">Generate a Compliance Audit Report for Network Devices</a>.</p>
Integrate Cisco AI Endpoint Analytics with Talos Intelligence	<p><a href="#">Talos Intelligence</a> is a comprehensive threat-detection network. Talos detects and correlates threats in real time. By integrating Cisco AI Endpoint Analytics with Talos, you can flag endpoints in your network that are connecting to malicious IP addresses.</p> <p>See <a href="#">Integrate Cisco AI Endpoint Analytics with Talos Intelligence</a>.</p>

Feature	Description
Manage System Beacon	<p>You can highlight switches in the Cisco DNA Center inventory by using a system beacon. System beacon supports the following devices:</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 3850 Series Ethernet Stackable Switches</li> <li>• Cisco Catalyst 9200 Series Switches</li> <li>• Cisco Catalyst 9300 Series Switches</li> </ul> <p>See <a href="#">Manage System Beacon</a>.</p>
Manage Your Inventory	<p>In the <b>Inventory</b> window, if you choose the <b>Default</b> view from the <b>Focus</b> drop-down list, the <b>Inventory</b> table displays only the <b>Device Name</b>, <b>IP Address</b>, <b>Device Family</b>, and <b>MAC Address</b> of listed devices.</p> <p>See <a href="#">Display Information About Your Inventory</a>.</p>
NAS ID Configuration	<p>You can configure network access server identifiers (NAS IDs) for SSIDs for enterprise and guest wireless networks.</p> <p>See <a href="#">Create SSIDs for an Enterprise Wireless Network</a> and <a href="#">Create SSIDs for a Guest Wireless Network</a>.</p>
QoS Settings for Wireless Networks	<p>You can choose one of the following QoS settings for the primary traffic while creating SSIDs for enterprise and guest wireless networks:</p> <ul style="list-style-type: none"> <li>• <b>VoIP (Platinum)</b></li> <li>• <b>Video (Gold)</b></li> <li>• <b>Best Effort (Silver)</b></li> <li>• <b>Non-real Time (Bronze)</b></li> </ul> <p>See <a href="#">Create SSIDs for an Enterprise Wireless Network</a> and <a href="#">Create SSIDs for a Guest Wireless Network</a>.</p>
Return Material Authorization (RMA) Support for New Devices	<p>RMA Workflow support is extended for the following:</p> <ul style="list-style-type: none"> <li>• Cisco Catalyst 4500e, Catalyst 6500, Catalyst 6800, and Catalyst 9000 Series modular switches.</li> <li>• Supervisors of modular switches with single and dual engines.</li> <li>• Extended node that is part of the STP ring or daisy chain.</li> <li>• Daisy chain and ring of Industrial Ethernet (IE) switches.</li> <li>• Devices that have an external Simple Certificate Enrollment Protocol (SCEP) broker PKI certificate.</li> </ul> <p>See <a href="#">Replace a Faulty Device</a>.</p>

Feature	Description
RMA Support	<p>Zero-touch onboarding of replacement device through PnP is supported for fabric and LAN automation devices.</p> <p>See <a href="#">Replace a Faulty Device</a> and <a href="#">Limitations of the RMA Workflow in Cisco DNA Center</a>.</p>
Schedule Group-Based Access Control Policy Updates	<p>You can save policy changes immediately or schedule an update at a specific time. You can view the status of the scheduled tasks in <b>Activities &gt; Tasks</b>.</p> <p>If the <b>Cisco DNA Center Automation Events for ITSM (ServiceNow)</b> bundle is enabled, the <b>Save Now</b> option is disabled, and only the <b>Schedule Later</b> option is enabled for Group-Based Access Control policy changes. Note that the scheduled task must be approved in IT Service Management (ITSM) before the scheduled time.</p> <p>See <a href="#">Group-Based Access Control Policies</a>.</p>
Schedule Recurring Events for APs	<p>You can schedule recurring events for AP and radio parameters in the AP configuration workflow.</p> <p>See <a href="#">Schedule Recurring Events for AP Workflow</a>.</p>
SD-Access User Interface Enhancements	<ul style="list-style-type: none"> <li>• The <b>Create Fabric Site</b> workflow has been enhanced to include options to configure the wired endpoint data collection and authentication template settings.</li> <li>• The options in the <b>Port Assignment</b> tab for a fabric site have been enhanced.</li> <li>• The options to choose an authentication template for a fabric site are now available in the <b>Authentication Template</b> tab.</li> <li>• The <b>Create Port Channel</b> workflow has been enhanced.</li> <li>• The options to configure the anycast gateway settings are now available in the <b>Anycast Gateway</b> tab.</li> <li>• The <b>Create Layer 2 Virtual Networks</b> and <b>Create Layer 3 Virtual Networks</b> have been enhanced.</li> </ul> <p>See <a href="#">Add a Fabric Site</a>, <a href="#">Configure Devices for a Fabric Site</a>, <a href="#">Configure Ports Within the Fabric Site</a>, <a href="#">Configure a Port Channel</a>, and <a href="#">Virtual Networks</a>.</p>
Sync Updates for Software Images	<p>You can synchronize the information of software images from cisco.com for all the managed devices in Cisco DNA Center.</p> <p>See <a href="#">View Software Images</a>.</p>
Troubleshoot Unmonitored Devices	<p>Using the MRE workflow, you can troubleshoot unmonitored devices or the devices that do not show Assurance data.</p> <p>See <a href="#">Troubleshoot Unmonitored Devices Using the MRE Workflow</a>.</p>
Troubleshoot Wireless Client Issues	<p>Using the MRE workflow, you can troubleshoot wireless client issues.</p> <p>See <a href="#">Troubleshoot Wireless Client Issues Using MRE Workflow</a>.</p>
Upgrade Extended Node to Policy Extended Node	<p>You can upgrade a Policy Extended Node-capable device that is configured as an extended node by changing its license level.</p> <p>See <a href="#">Upgrade an Extended Node to a Policy Extended Node</a>.</p>



Feature	Description
URL-Based Access Control List	You can create IP-based and URL-based postauthentication access control lists (ACLs) for your network. See <a href="#">Workflow to Create an IP- and URL-Based Access Control Policy</a> .
View All Discoveries	The new <b>Discoveries</b> table in Cisco DNA Center shows details of all the discovery jobs and provides options to rediscover and delete discovery jobs. See <a href="#">View All Discoveries</a> .
View Image Update Workflow	You can view the progress of software image update tasks. Cisco DNA Center shows the status of each task that is associated with the Distribution and Activation operations and the amount of time taken to complete each operation. See <a href="#">View Image Update Workflow</a> .
View REP Ring Topology Status	The REP Ring Topology Status option lets you view the current state of all devices in a REP ring. See <a href="#">View REP Ring Status</a> .

