



APIC GUI Overview

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The APIC GUI

The APIC GUI is a browser-based graphical interface for configuring and monitoring the ACI fabric. The GUI is organized to provide hierarchical navigation to all components, logical and physical, of the overall system. The primary control regions of the GUI are shown in the following figure.

The screenshot illustrates the APIC GUI interface. The top navigation bar includes tabs for System, **Tenants** (highlighted in blue), Fabric, Virtual Networking, Admin, Operations, Apps, and Integrations. Below the tabs are buttons for common, mgmt, and **infra**. The top right corner shows a user menu with 'admin' and various icons. The main content area shows a table titled 'Contracts' with columns: Name, Alias, Scope, QoS Class, Target DSCH, Subjects, Tags, Exported Tenants, and Description. A message at the bottom of the table says 'No items have been found. Select Actions to create a new item.' The left sidebar shows a tree view of 'infra' components: Quick Start, Application Profiles, Networking, Contracts (highlighted with a red circle 4), Policies, Services, and Security. A message at the bottom of the sidebar says 'Last Login Time: 2021-05-18T03:01 UTC+00:00'. The bottom right corner shows 'Objects Per Page: 15' and 'No Objects Found'. The bottom of the page shows the Current System Time: 2021-05-18T23:31 UTC+00:00.

■ Menu bar and submenu bar

The functions of these regions are described in the following links:

1. Menu bar tools—See [Menu bar and submenu bar, on page 2](#)
2. Menu bar—See [Menu bar and submenu bar, on page 2](#)
3. Submenu bar—See [Menu bar and submenu bar, on page 2](#)
4. Work pane—See [Work pane, on page 9](#)
5. Navigation pane—See [Navigation pane, on page 8](#)

Below the Navigation pane, the Last Login is displayed, showing the date and time of the last instance of the current user's login.

As you operate the GUI to make configuration changes and retrieve information, the GUI communicates with the underlying operating system by exchanging REST API messages. You can observe these API messages using the API Inspector tool described in [View an API interchange, on page 13](#).

Menu bar and submenu bar

The menu bar provides access to the main configuration tabs, along with access to tools such as search, notifications, and preferences. Immediately below the menu bar is the submenu bar, which presents specific configuration areas for each selected menu bar tab. The submenu bar tabs are different for each menu bar tab and might also differ depending upon your specific configuration or privilege level.



Tip In the APIC GUI configuration instructions, you will see notation such as **Fabric > Fabric Policies**. In this example, you are asked to click the **Fabric** tab in the menu bar followed by the **Fabric Policies** tab in the submenu bar.

The menu bar is displayed across the top of the APIC GUI. At the far right side of the menu bar are the menu bar tools (these are described in detail in the subsequent sections).

- *username*: the name of the currently logged in local user.



- : the *Search* icon.



- : the *Multi-site manager* icon to launch the multi-site manager.



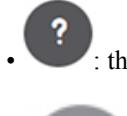
- : the *Feedback* icon to send comments to Cisco.



- : the *Alerts* icon to view the list of active alerts.



- : the *Tools* icon to access the system tools.



- : the *Help* icon.



- : the *Manage my profile* icon. The logged-in user can configure settings and preferences.

Menu bar tabs

The menu bar is displayed at the top of the APIC GUI. The menu bar serves as the vital navigation area, allowing you to access key configuration tabs. It also includes convenient tools such as search, notifications, and preferences, enabling you to manage settings. The menu bar tabs are discussed in detail in this section.

System tab

Use the **System** tab to collect and display a summary of the overall system health, its history, and a table of system-level faults.

In addition, the **System** tab provides the following functions:

- You can configure global system policies in the **System Settings** submenu.
- You can view your licensing status in the **Smart Licensing** submenu.
- You can view user sessions in the **Active Sessions** submenu.

Tenants tab

Use the **Tenants** tab in the menu bar to perform tenant management. The submenu bar provides a list of all tenants, an **Add Tenant** link, and links to three built-in tenants plus up to two of the most recently used tenants.

The built-in tenants are:

- The **common** tenant is preconfigured for defining policies that provide common behavior for all the tenants in the fabric. A policy defined in the common tenant is usable by any tenant.
- The **infra** tenant is preconfigured for configuration related to the fabric infrastructure
- The **mgmt** tenant is preconfigured for inband and out-of-band connectivity configurations of hosts and fabric nodes (leafs, spines, and controllers).

Fabric tab

The **Fabric** tab contains the following tabs in the submenu bar:

- **Inventory** tab: Displays the individual components of the fabric.
- **Fabric Policies** tab: Displays the monitoring and troubleshooting policies and fabric protocol settings or fabric maximum transmission unit (MTU) settings.

Menu bar tools

- **Access Policies** tab: Displays the access policies that apply to the edge ports of the system. These ports are on the leaf switches that communicate externally.

Virtual networking tab

Use the **Virtual Networking** tab to view and configure the inventory of the various virtual machine (VM) managers. You can configure and create various management domains under which connections to individual management systems (such as VMware vCenters or Nutanix hypervisors) can be configured.

Use the **Inventory** tab in the submenu bar to view the hypervisors and VMs that are managed by these VM management systems (also referred to as controllers in API).

Admin tab

Use the **Admin** tab to perform administrative functions such as authentication, authorization, and accounting functions, scheduling policies, retaining and purging records, upgrading firmware, and controlling features such as syslog, Call Home, and SNMP.

Operations tab

The **Operations** tab provides the following built-in tools for planning and monitoring fabric resources.

- **Visibility & Troubleshooting**: Shows the location of specified end points in the fabric and displays the traffic path, including any L4-L7 devices.
- **Capacity Dashboard**: Displays the available capacity of configurable resources such as end points, bridge domains, tenants, and contexts. For more details, see *Capacity Dashboard*.
- **EP Tracker**: Enables you to view virtual and bare metal endpoint connections and disconnections to leaf switches and FEXes.
- **Visualization**: Provides visualization of traffic maps.

Apps tab

The Apps tab displays all the applications installed or uploaded to APIC. The tab allows an APIC administrator to upload, enable, upgrade, install, or uninstall a packaged application in APIC.

Integrations tab

Use the **Integrations** tab to view all third-party integrations.

Menu bar tools

At the far right side of the menu bar are the menu bar tools. These are displayed as icons and the detailed descriptions for each of them are discussed in this section.

Search

The Search icon displays the search field to locate objects in the interface by name or other distinctive attributes.

The search function allows the use of wildcards (*).

Launch multi-site manager

The Multi-Site Manager icon launches the multi-site manager. The multi-site manager can launch multiple site APICs.

Feedback

The Feedback icon enables you to send comments directly to Cisco.

Alerts

The Alert icon indicates the alerts on the system. To view the alerts, click the icon. When system alerts are available, a numeric badge appears on the alert icon indicating the number of active alerts. When critical system notifications are available, the alert icon will blink red.

To disable blinking of the alert icon, remove all critical alerts from the alert list. A disabled **Close** button on a critical alert indicates that you must first resolve the underlying issue before the alert can be cleared.

Tools

To access the system tools, click the *Tools* icon and select an item from the drop-down list.

The following selections are available:

- **ACI Fabric Setup:** Guides initial APIC infrastructure setup.
- **Show API Inspector:** Provides visibility into internal API messages between the GUI and APIC operating system to execute tasks. For more information, see *Viewing an API interchange* section in this chapter.
- **Start Remote Logging:** Forwards logging information to a remote URL.
- **Object Store Browser:** Opens the Managed Object Browser, or Visore, which is a utility built into APIC that provides a graphical view of the managed objects (MOs) using a browser.
- **Show Debug Info:** Open a status bar at the bottom of the GUI to display information such as current managed object (MO) and system time. When the status bar is open, this selection changes to **Hide Debug Info**.
- **Config Sync Issues:** Opens the Configuration Objects Pending Resolution panel. This panel shows if there are any transactions involving user-configurable objects that have yet to take effect in APIC. You can use information in the panel to help with debugging.



Note

Global system settings are configured in **System > System Settings**.

Help

To access the help tools, click the *Help* icon and select an item from the drop-down list.

The following selections are available:

- **Help:** Displays links to API documentation and to the APIC
- **What's new:** Displays splash screen showing recent features.
- **About:** Displays the APIC version.

Manage my profile

Allows personalization and account management for the logged-in user.

The following selections are available:

- **Bookmarks:** Displays links to menus bookmarked by the user.
Menus that display the Favorites icon (★) can be bookmarked by clicking the icon.
- **Change My Password:** Change the password of the currently logged in local user.
- **Change My SSH Keys:** Change the user's public SSH key used for certificate-based login.
- **Change My X509 Certificate:** Change the user's X.509-format certificate for login.
- **View My Permissions:** Display the user's role-based read and write privileges for domains and accessible objects.
- **Settings:** Change general GUI settings.
 - **Remember Tree Selection:** Enables the GUI to keep the navigation tree expanded when returning to a window. For example, if you enable this property and expand the navigation tree in the Tenants tab, click on the Fabric tab, then return to the Tenants tab, the tree will remain expanded.
 - **Preserve Tree Divider Position:** Enables the GUI to keep the position of the tree divider after dragging the tree divider to the desired location.
 - **Disable Notification on Success:** Suppresses the success dialog box notification.
 - **Disable Deployment Warning at Login:** Disables the Deployment Warning dialog box when logging in. See the *Deployment warning and policy usage information* section later in this chapter.
 - **Default Page Size for Tables:** Sets the GUI table size.
 - **Show All UI Sections:** Displays hidden UI configuration options.
 - **Show What's New at Login:** Displays splash screen at login, showing recent features.
- **Change Deployment Settings:** Enable and set the scope of the deployment notification. See the *Deployment warning and policy usage information* section later in this chapter.
- **Logout:** Exit the APIC configuration GUI.

Capacity dashboard

The capacity dashboard displays the available capacity of configurable resources such as endpoints, bridge domains, tenants, and contexts.

The dashboard contains the following tabs:

- **Fabric Capacity:** Displays the capacity of the managed objects within the fabric. Each tile provides the current and maximum capacity of each object, as well as the percentage of the maximum capacity that is used. You can hover your cursor over some of the tiles to see more information.
- **Leaf Capacity:** Displays the capacity of the managed objects for each leaf switch that the APIC manages. Beginning with APIC release 6.1(4), the name of the tab has been changed to **Leaf Switch Capacity**.

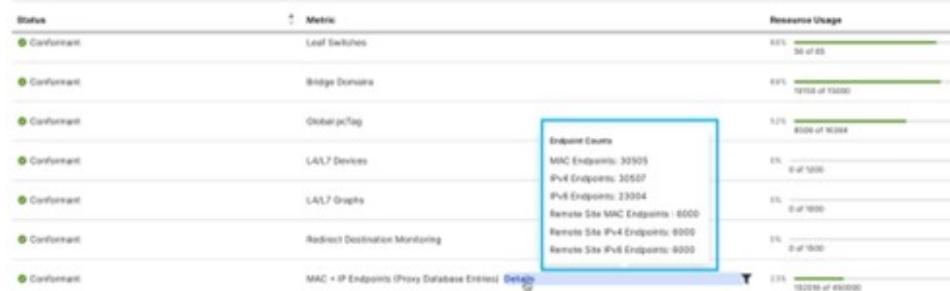
- For all of the objects, the GUI displays the current resource usage and maximum resource capacity, as well as the percentage of the maximum resource capacity that is used.
- The data for some of the objects is split into subcategories, such as local and remote for ESG MAC addresses.
- The data for MAC, IPv4, and IPv6 addresses shows the total number of local and remote addresses.
- (not applicable for APIC release 6.1(4) and after) The data for /32 routes and /128 routes provides the following information:
 - UC:** The total IPv4 /32 or /128 unicast routes. This value persists through each interval without resetting to zero.
 - EP:** The total IPv4 /32 or /128 endpoints. This value persists through each interval without resetting to zero.
 - MCast:** The total IPv4 /32 or /128 multicast routes. This value persists through each interval without resetting to zero.
- You can click the **Configure Profile** button in the **Switch** column to configure the forward scale profile for that switch. Beginning with APIC release 6.1(4), this button has been renamed to **Change Forward Scale Profile**.

You can change the forward scale profile by clicking the three dots at the end of the row for each entry.

- (not applicable for APIC release 6.1(4) and after) You can click any other part of a row to see detailed capacity usage information for that switch. For resources with the **Absolute** entry, this is the current resource usage. In the case of /32 and /128 routes, **Absolute** is the total of unicast routes, endpoints, and multicast routes being used. **Percentage** is the percentage of the maximum resource capacity that is being used.

Beginning with APIC release 6.1(4), there is a considerable performance improvement to the Capacity Dashboard tab with faster display time of the various elements displayed here. The other significant enhancements include:

- Moving away from the tile layout. Prior to release 6.1(4), all the entries were available as tiles, now a table has been introduced for the **Fabric Capacity** and **Leaf Switch Capacity** sub-tabs. The metrics which were earlier displayed as tiles are available in the table. Some of the earlier tile entries, for the **Fabric Capacity** sub-tab, such as endpoint details, are now available only when you click **Details** in the **MAC + IP Endpoints** row.



- Status indication for each of the resources is dependent on the **Resource Usage**. Hover over the **Resource Usage** column to check the status of the usage of resources. The available status indicators are:
 - Conformant (0 to 75% of resource usage)
 - Approaching limits (76 to 90% of resource usage)
 - Approaching high limits (91 to 100% of resource usage)
 - Violated limits (above 100% of resource usage)

In the **Leaf Switch Capacity** tab, click the **Resource Usage** number to get more details about the switch parameters. You can also use the filtering option to filter using Metric, Status or Resource Usage.

- New entries added to the **Fabric Capacity** and **Leaf Switch Capacity** tabs are:
 - Leaf Switch Capacity tab: Opflex agents, Opflex layer 2 endpoints, IPSec (for OSPFv3), Redirect Destination Monitoring.
 - Fabric Capacity tab: Redirect Destination Monitoring (as part of the switch details).

Navigation pane

The Navigation pane in the APIC GUI enables you to access and manage hierarchical objects associated with submenu categories. It appears as a pane on the left side of the APIC GUI below the submenu bar and organizes both logical and physical objects relevant to each category.

Key attributes and functions

- The Navigation pane displays submenu categories as hierarchical trees of related objects.
- Objects may represent ports, policies, or groupings.
- Selecting an object in the Navigation pane displays its details in the Work pane.
- Right-clicking an object in the Navigation pane provides access to a context menu with the following actions:
 - **Delete**: Deletes the object.
 - **Create <type of object>**: Creates a new object.
 - **Save as...**: Downloads the object and its properties in JSON or XML format to a local file.
 - **Post...**: Exports the object and its properties to an existing local file.
 - **Share**: Displays the URL of the object. You can copy the URL and send it to others.
 - **Open In Object Store Browser**: Opens the object in Visore, a built-in utility that displays an object and its properties. This information may be useful in troubleshooting or for developing API tools.
 - **Clone**: Creates a copy of the object. This action is useful for deriving a new contract or policy based on an existing contract or policy.



Note When a container in the Navigation pane (such as **Application Profiles** under a **Tenant**) contains more than 40 profiles, direct expansion of profiles in the Navigation pane becomes unavailable. To expand a profile in this context, select the desired profile within the Work pane.

Work pane

The **Work** pane, which is on the right side of the APIC GUI, displays details about the component that you selected in the **Navigation** pane.

Key attributes and functions

- The Work pane includes a content area that displays tabs. These tabs provide information related to the component selected in the **Navigation** pane. The tabs displayed in the content area depend on the selected component.
- For some components in the Work pane, a link to conceptual information related to the component is



indicated by a list icon in the upper right corner.

- You can bookmark almost any page, which enables you to go back to that page easily by choosing the bookmark from your list of bookmarks.

Bookmarked links are accessible from the **User Profile and Preferences** icon in the Menu bar.

- You can mark a tab as the "favorite" on a page. When you navigate to that page, that tab is displayed by default. This feature is available only for tabs in the Work pane. You cannot mark a menu bar tab as a favorite.

Common pages in the work pane

In addition to displaying specific task menus, the Work pane also displays several types of special-purpose menus described in this section.

Quick Start Pages

Many APIC menu and submenu tabs open an initial Quick Start page, which summarizes the purpose of the tab, provides links to step-by-step instructions and videos for commonly-used procedures, and provides shortcut links to commonly-used subsections within the tab. An overall Quick Start page at **System > QuickStart** assists you in performing common and basic procedures, providing step-by-step instructions, available concept information, and links to main functional areas in the GUI.

Dashboard Pages

Dashboard pages provide at-a-glance summaries of the status of the ACI system and major system components, including health score trends, components with below-threshold health scores, and fault counts. You can configure health score thresholds to determine when components will appear in the dashboard. The system dashboard page at **System > Dashboard** summarizes the health of the overall ACI system, while switch

dashboard pages at **Fabric > Inventory > Pod n > component > Dashboard** summarize the health and faults of each spine and leaf switch.

Summary Pages

Many top-level folders in the Navigation pane display tile-based Summary pages in the Work pane that link to subfolders. Some Summary pages, such as those in **Fabric > Inventory > Pod n**, contain tiles summarizing major components along with brief health and fault information for each component. Other Summary pages, such as those in **Fabric > Fabric Policies > Policies**, contain tiles that describe the configuration areas served by the contained folders.

Personalize the APIC GUI

The process includes pointers to personalize the Cisco APIC GUI.

Summary

Personalizing APIC GUIs enhances the usability and identification of APICs. The key components involved in the process are:

- Administrator: configures custom names and login banners.
- APIC GUI: displays the customized information (the name and banner).

Workflow

You can personalize the APIC GUI by

1. setting a name to each of the APICs in a cluster.
2. adding a customized banner at login (applicable for both CLI and GUI).

Result

Benefits of personalization:

- Improved identification and usability: adding a custom name to the APIC GUI helps you identify which APIC you are managing in a cluster. This enhances operational clarity and reduces confusion when multiple APICs are in use.
- Custom login experience: you can add login banners to both the CLI and GUI interfaces. The CLI banner displays a text message before the password prompt, while the GUI banner can display a custom HTML page before user authentication.

Assign a name to the APIC

Set a custom name for the APIC interface to clearly indicate the controller you are viewing.

In an ACI cluster with three (the recommended number of controllers) APICs, naming each controller helps you to quickly identify the APIC you are logged in to.

Procedure

Step 1 On the APIC menu bar, choose **System > System Settings**.

Step 2 In the **Navigation** pane, click **APIC Identification Preferences**.

Step 3 In the work pane, type the desired APIC name in the **GUI Alias** box.

Step 4 Click **Submit**.

The custom APIC name appears at the top left of the interface in parentheses, allowing you to easily identify the controller.

Add a login banner

Display a custom login banner for users accessing the APIC system via the CLI or GUI interfaces.

Define banners that will be displayed when you log in to the CLI or GUI.

- The CLI banner is a simple text string displayed at the terminal before the password prompt. You can define a banner for the APIC CLI and a separate banner for the switch CLI.
- The GUI banner displays at the APIC URL before user login authentication. The GUI banner is defined as a URL of a site hosting the desired HTML.

Before you begin

- Ensure you have access privileges to modify APIC system identification preferences.
- (for GUI banner only) Confirm that the banner URL site allows embedding in an iFrame.



Note

The URL site owner must allow the site to be placed in an iFrame to display the informational banner. If the owner of the site sets the `x-frame-option` to `deny` or `sameorigin`, the site the URL points to will not appear.

Procedure

Step 1 On the APIC menu bar, choose **System > System Settings**.

Step 2 In the **Navigation** pane, click **APIC Identification Preferences**.

Step 3 In the work pane, complete the following fields:

- To configure an APIC CLI banner, type the banner text into the **Controller CLI Banner** textbox.
- To configure a switch CLI banner, type the banner text into the **Switch CLI Banner** textbox.
- To configure an APIC GUI banner, type the URL of a site hosting the desired HTML into the **GUI Banner (URL)** textbox.

Step 4 Click **Submit**.

Deployment warning and policy usage information

Deployment Warning Settings enables you to automatically display policy usage information whenever you modify or delete policies that might affect other resources or policies. The policy usage information allows you to identify the resources and policies that are being used by the policy that you are currently modifying or deleting. Tables display the nodes where the given policy is used and other policies that use this policy. By default, usage information is displayed within a dialog box whenever you attempt to modify a policy. You can click the **Show Usage button** at the bottom of the screen to view the same information.

The **Deployment Warning Settings** dialog box allows you to enable and alter the scope of deployment notification that displays policy usage information. You can access this dialog box by selecting **Change Deployment Settings** in the menu bar tool **User Settings and Preferences** drop-down list or through a button on the **Policy Usage Information** dialog box.

When the **Policy** tab is selected in the upper right corner of the **Deployment Warning Settings** dialog box, you can configure the following policy options:

- **(Global) Show Deployment Warning on Delete/Modify**—Enable the **Deployment Warning** notification for every policy deletion or modification across the APIC.
- **(Local) Show Deployment Warning on Delete/Modify**: Set the rule for the **Deployment Warning** notification for specific policy configuration.
 - **Use Global Settings**: Use the setting selected for **(Global) Show Deployment Warning on Delete/Modify**.
 - **Yes**: Display the **Deployment Warning** notification before submitting configuration modifications on any policy change. Valid for this browser session only.
 - **No**: Do not display the **Deployment Warning** notification before submitting configuration modifications on any policy change. Valid for this browser session only.

When the **History** tab is selected in the upper right corner of the **Deployment Warning Settings** dialog box, you can view tables of **Events** and **Audit Log** entries for previous deployment warnings.

Graphical configuration of ports

The APIC GUI provides a graphical method for configuring ports, port channels, and virtual port channels on the leaf switches in the fabric, configure ports for dynamic breakout, and link interfaces to FEX switches.

This configuration capability is present at these GUI locations:

- **Fabric > Inventory > Topology**
- **Fabric > Inventory > Pod**
- **Fabric > Inventory > Pod > Leaf**
- **Fabric > Inventory > Pod > Spine**

In the Work pane's **Interface** tab, click on the + button (at the top left), select one or more switches to configure, and click **Add Selected**. To select multiple switches, use **Ctrl+Click** or **Shift+Click**.

The switches are graphically displayed with their ports and links. If you have configured a breakout port, a block containing the sub ports is displayed below the leaf diagram.



Note If you accessed the **Interface** tab from a leaf switch, the leaf switch is automatically added.

Select the interfaces to configure. When interfaces are selected, the available configuration buttons appear. Depending on the number of selected interfaces and where they are located, you can then click one of the these buttons:

- **L2**—Layer 2. Visible when you click one or more leaf interfaces on the switch diagrams.
- **PC**—Port Channel. Visible when you click one or more leaf interfaces on the switch diagrams.
- **VPC**—Virtual Port Channel. Visible when you click at least one interface on two switch diagrams.
- **FEX**—Fabric Extender. Visible when you click one or more leaf interfaces on the switch diagrams.
- **Breakout**—Breakout mode. Visible when you click one or more leaf interfaces on the switch diagrams.
- **Fabric**—Add policies to a fabric interface. Visible when you click a port that is eligible to be a fabric port.
- **Uplink and Downlink**—Convert eligible uplinks to downlinks and vice versa.
- **Spine**—Visible when you click one or more leaf interfaces on the switch diagrams.

View an API interchange

When you perform a task in the APIC graphical user interface (GUI), the GUI creates and sends internal API messages to the operating system to execute the task. By using the API Inspector, which is a built-in tool of the APIC, you can view and copy these API messages. A network administrator can replicate these messages in order to automate key operations, or you can use the messages as examples to develop external applications that will use the API.

Procedure

Step 1 Log in to the APIC GUI.

Step 2 In the upper right corner of the APIC window, click the System Tools icon to view the drop-down list.

Step 3 In the drop-down list, choose the **Show API Inspector**.

The **API Inspector** opens in a new browser window.

Step 4 In the **Filters** toolbar of the **API Inspector** window, choose the types of API log messages to display.

The displayed messages are color-coded according to the selected message types. This table shows the available message types:

Name	Description
trace	Displays trace messages.

View an API interchange

Name	Description
debug	Displays debug messages. This type includes most API commands and responses.
info	Displays informational messages.
warn	Displays warning messages.
error	Displays error messages.
fatal	Displays fatal messages.
all	Checking this checkbox causes all other checkboxes to become checked. Unchecking any other checkbox causes this checkbox to be unchecked.

Step 5

In the **Search** toolbar, you can search the displayed messages for an exact string or by a regular expression.

This table shows the search controls:

Name	Description
Search	In this text box, enter a string for a direct search or enter a regular expression for a regex search. As you type, the first matched field in the log list is highlighted.
Reset	Click this button to clear the contents of the Search text box.
Regex	Check this checkbox to use the contents of the Search text box as a regular expression for a search.
Match case	Check this checkbox to make the search case sensitive.
Disable	Check this checkbox to disable the search and clear the highlighting of search matches in the log list.
Next	Click this button to cause the log list to scroll to the next matched entry. This button appears only when a search is active.
Previous	Click this button to cause the log list to scroll to the previous matched entry. This button appears only when a search is active.
Filter	Check this checkbox to hide nonmatched lines. This checkbox appears only when a search is active.
Highlight all	Check this checkbox to highlight all matched fields. This checkbox appears only when a search is active.

Step 6

In the **Options** toolbar, you can arrange the displayed messages.

This table shows the available options:

Name	Description
Log	Check this checkbox to enable logging.
Wrap	Check this checkbox to enable wrapping of lines to avoid horizontal scrolling of the log list.
Newest at the top	Check this checkbox to display log entries in reverse chronological order.

Name	Description
Scroll to latest	Check this checkbox to scroll immediately to the latest log entry.
Clear	Click this button to clear the log list.
Close	Click this button to close the API Inspector.

Example

This example shows two debug messages in the API Inspector window:

```
13:13:36 DEBUG - method: GET url: http://192.0.20.123/api/class/infraInfra.json
response: {"imdata": [{"infraInfra": {"attributes": {"instanceId": "0:0", "childAction": "", "dn": "uni/infra", "lcOwn": "local", "name": "", "replTs": "never", "status": ""}}}]}

13:13:40 DEBUG - method: GET url: http://192.0.20.123/api/class/l3extDomP.json?
query-target=subtree&subscription=yes
response: {"subscriptionId": "72057598349672459", "imdata": []}
```

APIC GUI icons

This section will help you get a better understanding of the APIC GUI icons.

Standard APIC GUI icons

Table 1: Frequently displayed icons

Icons	Description
	Bookmark this page
	Displays concept information for the current menu page
	Quick Start
	Plays a Quick Start video
	Displays a Quick Start procedure

Icons	Description
	Link to related section
	Topology
	Pod
	Collapse Tree View
	Expand Tree View
	Collapse All Nodes
	Displays a drop-down list of actions
	Refresh the displayed information
	Download to a file
	Upload a file

Faults, statistics and health level icons

Table 2: Severity levels of faults

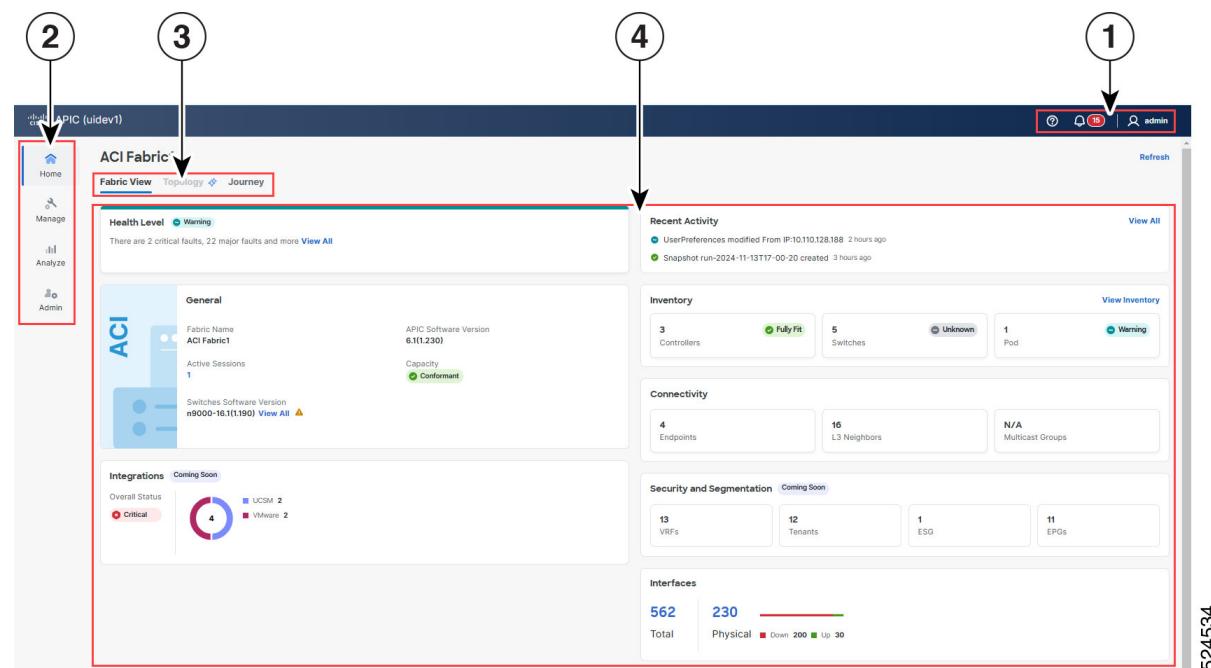
Icons	Description
	Critical—This icon displays a fault level with critical severity.
	Major—This icon displays a fault level with major severity.
	Minor—This icon displays a fault level with minor severity.
	Warning—This icon displays a fault level that requires a warning.

Next generation APIC GUI

This section outlines the changes to the Cisco APIC GUI beginning with Cisco APIC release 6.1(2).

The *new* layout is displayed here.

Figure 1: The new GUI



The areas of the new layout:

- 1 indicates the *Tools area*.
- 2 indicates the *Navigation area*.
- 3 indicates the *Tabs area*.
- 4 indicates the *Work area*.

Tools area

This area contains basic tools that appear regardless of the GUI page.

- Help:** Opens a menu with these choices:
 - About:** Shows the Cisco APIC release, copyright year, and current system time.
 - APIC Fabric Setup:** Helps you determine what you have not yet configured for your fabric.
 - Help Center:** Provides links to some of the more commonly-used documentation.
 - Open Object Store Browser:** Opens the Managed Object Browser, or Visore, which is a utility built into Cisco APIC that provides a graphical view of the managed objects (MOs) using a browser.

- **Show API Inspector:** Opens the API Inspector, which is a built-in tool of the Cisco APIC that allows you to view the internal API messages between the GUI and the Cisco APIC operating system to execute tasks.
- **Notifications:** Shows notifications about key issues with the Cisco APIC. Using the drop-down menu, you can choose to show all notifications or only notifications of a specific severity. The menu includes only fault severities that are currently raised. You can also click **View All** to see all faults in a table.
- **Profile:** Opens a menu with these choices:
 - **Switch to existing UI:** Switches back to the existing (old) GUI.
 - **User Preferences:** Configures your user settings.
 - **Change Password:** Changes your password.
 - **Change User Certificate:** Changes your login certificate.
 - **Change SSH Key:** Changes the public SSH key that you use for certificate-based login.
 - **Logout:** Logs you out from the Cisco APIC.

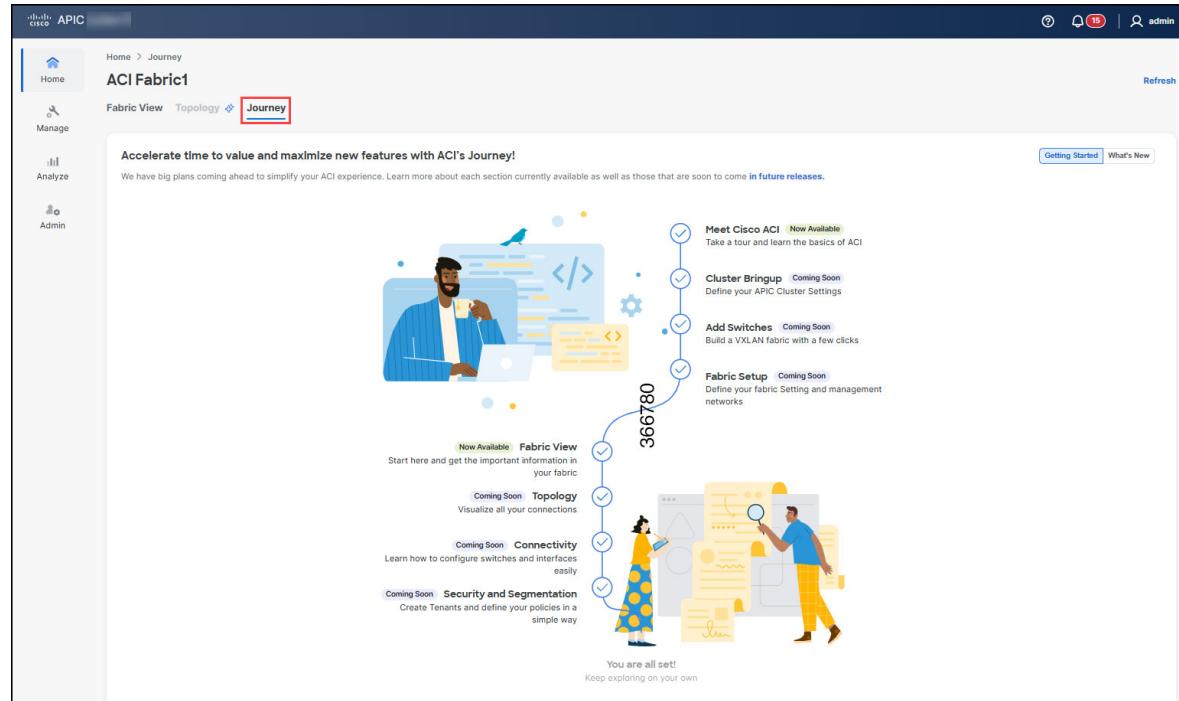
Navigation area

This is the core navigation for the Cisco APIC, which is present on all GUI pages.

- **Home:** Enables you to view information about the fabric. This area has these tabs:
 - **Fabric View:** Shows various information about your the fabric. You can click blue text as well as **Controllers**, **Switches**, and **Pods** to see more information about those things.
 - **Topology:** Shows a graphical representation of your fabric's topology.
 - **Journey:** Shows the main functionalities of Cisco APIC, displays the execution plan for the new GUI, and provides a preview of upcoming features and their functionality.

Most of the stages have a **Tell Me More** button, which opens a dialog that gives you more information about the part of the GUI that is associated with that stage, including a screenshot. For a stage that is labeled as "Coming Soon," the dialog outlines the upcoming development for that part of the GUI and the screenshot shows how the GUI might look.

Figure 2: User journey



- **Manage:** Enables you to view information about and configure these things:
 - **Inventory:** Shows information about the controllers, switches, and pods.
 - **Tenants:** Shows information about the tenants.
 - **Policy Groups:** Shows information about the policy groups.
 - **Policies:** Shows information about the configured policies.
 - **Domains and Pools:** Shows information about the domains and pools.
 - **Software Management:** Enables you to upgrade the firmware of the Cisco APICs and switches.
 - **Monitoring Destinations:** Shows information about the monitoring destinations, such as for callhome, SNMP, or TACACS.
 - **Switches and Interfaces:** Shows information about the switches and interfaces.
- **Analyze:** Enables you to view these things:
 - **Faults:** Shows the faults that Cisco APIC raised due to issues with your fabric.
 - **History and Logs:** Shows the various records and logs, such as fault records, event records, and audit logs.
 - **Tech Support:** Enables you to export the tech support logs, which you provide when you contact the Cisco Technical Assistance Center (TAC).
- **Admin:** Enables you to use or configure these things:

Preview the new APIC GUI

- **Backup and Restore:** Enables you to backup and restore the Cisco APIC configurations.
- **Authentication:** Enables you to configure how users must authenticate to log into the Cisco APIC.
- **Active Sessions:** Shows the users who are logged into the Cisco APIC.
- **Integrations:** Shows information about third-party products that you have integrated with Cisco APIC.
- **Licensing:** Shows information about your active licenses for using Cisco APIC and its features.
- **System Settings:** Enables you to configure the Cisco APIC.

Tabs area

This area contains tabs that change depending on the core navigation that you chose. The tabs enable you to navigate to subsections of that core navigation.

Work area

This area changes depending on which page you are viewing. The work area shows status, contains links to view configured objects, and much more. Any text in blue is a link that you can click to see more information about or change the configuration of something.

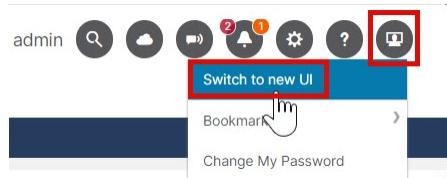
Preview the new APIC GUI

The APIC GUI has been enhanced for a better look-and-feel, and customer experience. However, not all screen have moved to the *new* GUI. You can take a preliminary look at the new APIC GUI which is presently being developed. However, this is *view-only*; if you need to make any configuration changes, you will need to revert to the existing GUI and then update the required configurations.

Procedure

Step 1

Click the profile icon in the upper right of any page and choose **Switch to new UI**.



You cannot view anything in the new GUI that is grayed out. These pages will be added in a future release.

Step 2

To change back to the original GUI so that you can make configuration changes, click the profile icon in the upper right of any page and choose **Switch to existing UI**.

Enhancements and improvements to the APIC GUI

The Cisco APIC release 6.1(2) includes numerous UI revisions for enhanced ease of use, more detailed information, and quicker navigation with fewer clicks.

Table 3: Updated GUI fields

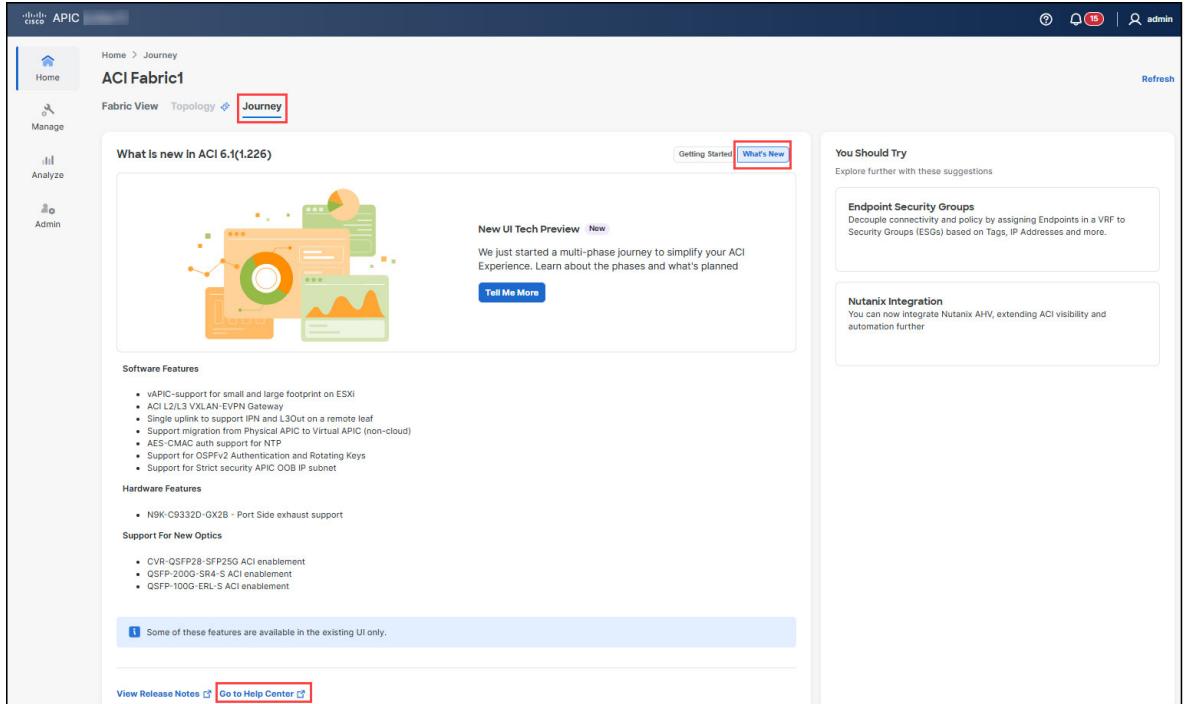
Home	> Fabric View	<p>Color coding, more cards, pill-shaped icons, and links to detailed information:</p> <ul style="list-style-type: none">• Health Level > General information with Overview, Faults, and History tabs• Recent Activity information with Audit Logs, Event Records, and Session Logs• Inventory information with details on Controllers, Switches and Pods• Connectivity information with Endpoints, L3 Neighbors, and Multicast Groups• Interfaces information with Total and Physical detailed lists, dashlets, and cards• Capacity hyperlinks to Fabric Capacity or Leaf Switch Capacity information
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Manage	> Inventory	<p>> Controllers. Controller screen displays the type of controller in the table (Physical or Virtual)</p> <p>> Controller > select a controller</p> <ul style="list-style-type: none"> • > History > Historical Timeline. All health scores are displayed graphically for the past hour or day. <p>> Interfaces > Physical Interfaces, select an Interface ID. Physical Interfaces details appear, including the Interface ID and CDP/LLDP neighbor information.</p> <p>> Switches > select a switch</p> <ul style="list-style-type: none"> • Switch view graphic appears. A pop-up window appears when hovering over a component. • Click Rack at the bottom. Rack details appear that show the room, floor and building, a Summary card with Role, Fabric State, Version, and Health of the switch • > History > Historical Timeline. All health scores are displayed graphically for the past hour or day. <p>> Pods > select a pod</p> <ul style="list-style-type: none"> • Health Summary information such as Health Level, General information, Recent Activity, and Inventory details appear. • > History > Historical Timeline. All health scores are displayed graphically for the past hour or day.
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Table Settings	Gear icon	<ul style="list-style-type: none"> Click gear and table Configuration window slides from right. Select categories from list for each interface. <p>Settings persist only in the browser where the user made the changes, even after logging out.</p>
Help	? icon	Help Center

You can access the **Help** menu in another way besides the "?" icon on the top right. From the **Home** menu, click **Journey** > **What's New** tab. The **What's new** window appears. Click **Go to Help Center** at the bottom.

Figure 3: GUI modifications



The screenshot shows the APIC GUI interface. The top navigation bar includes 'Home', 'Manage', 'Analyze', and 'Admin' tabs. The main content area is titled 'What's new in ACI 6.1(1.226)'. It features a 'New UI Tech Preview' section with a 'Tell Me More' button. Below this are sections for 'Software Features' and 'Hardware Features'. A note at the bottom states: 'Some of these features are available in the existing UI only.' At the bottom of the page, there are 'View Release Notes' and 'Go to Help Center' buttons. The 'Go to Help Center' button is specifically highlighted with a red box.

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