Cisco Nexus Dashboard Insights Topology, Release 6.5.x - For Cisco ACI

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New and Changed Information

The following table provides an overview of the significant changes up to the current release. The table does not provide an exhaustive list of all changes or the new features up to this release.

New Features and Changed Behavior in the Cisco Nexus Dashboard Insights

Feature	Description	Release	Where Documented
Holistic Topology View	Topology now enables you to visualize all the fabrics in your network at once. You can double-click a node to view the interconnections of the nodes in the fabric using the LLDP and CDP protocol information.	6.5.1	About Topology
Terminology change	The term "sites" is renamed to "fabrics".	6.5.1	Entire document

This document is available from your Cisco Nexus Dashboard Insights GUI as well as online at www.cisco.com. For the latest version of this document, visit Cisco Nexus Dashboard Insights Documentation.

Topology

About Topology

Topology helps visualize all the switches and endpoints known by Nexus Dashboard Insights and display the interconnection of the nodes in the fabric using the LLDP and CDP protocol information. Topology also helps find the nodes that are impacted by anomalies.
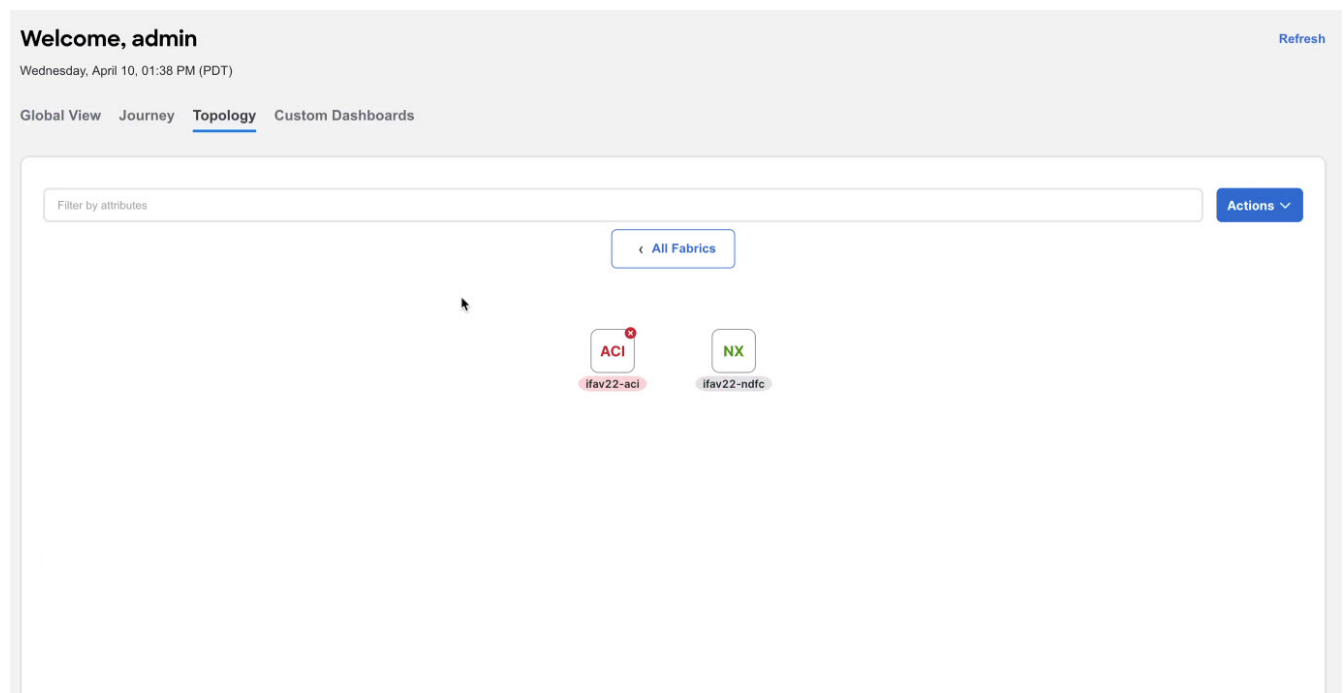
Access Topology by navigating to **Overview** > **Topology**.

Views in topology focus on the node selected by the user. The default view is All Fabrics view. The different views are:

- All Fabric View
- Fabric or Pod View
- Node Level View

All Fabric View

All Fabrics view displays the list of the fabrics managed by Nexus Dashboard Insights.

Click any specific node to view details available for it along with its connectivity to the other nodes. This is the Tooltip View. Tooltip displays the anomaly status, node name, node type, uplink connections and downlink connections. You can also click **View More Details** to view a page with detailed information about the node.To understand the details available, see Inventory.
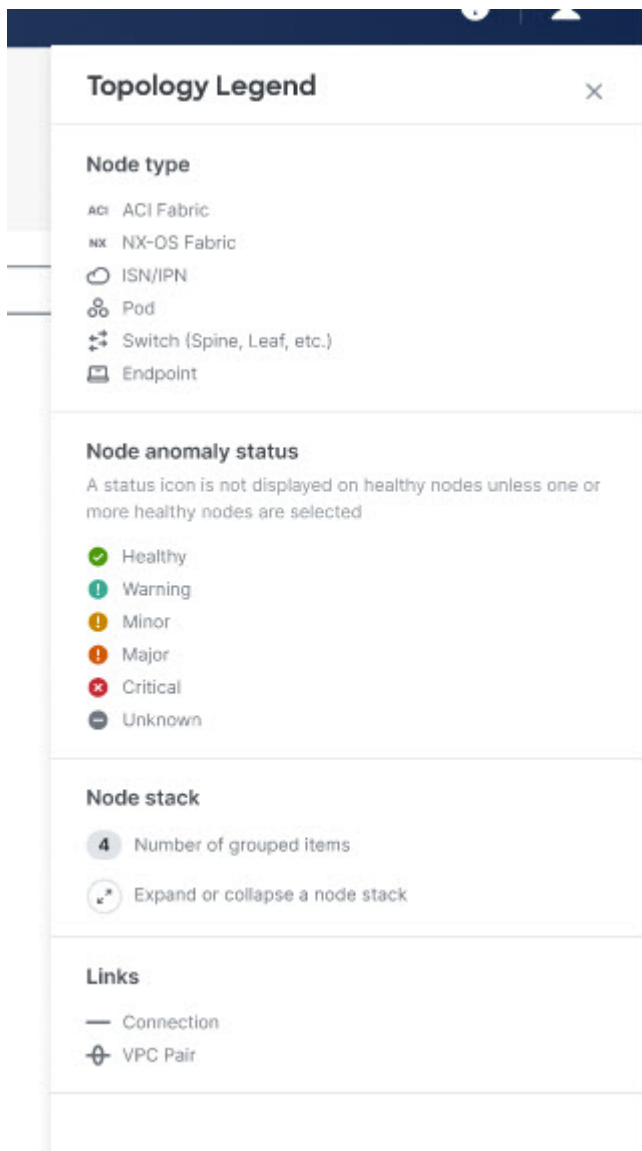
Double-click to drill down and view the topology and all the switches connected to the node. The node level view has multiple levels and reveals the network connectivity details configured between different nodes. The node colors and the icon on the top right of the node represent the anomaly health for the node.
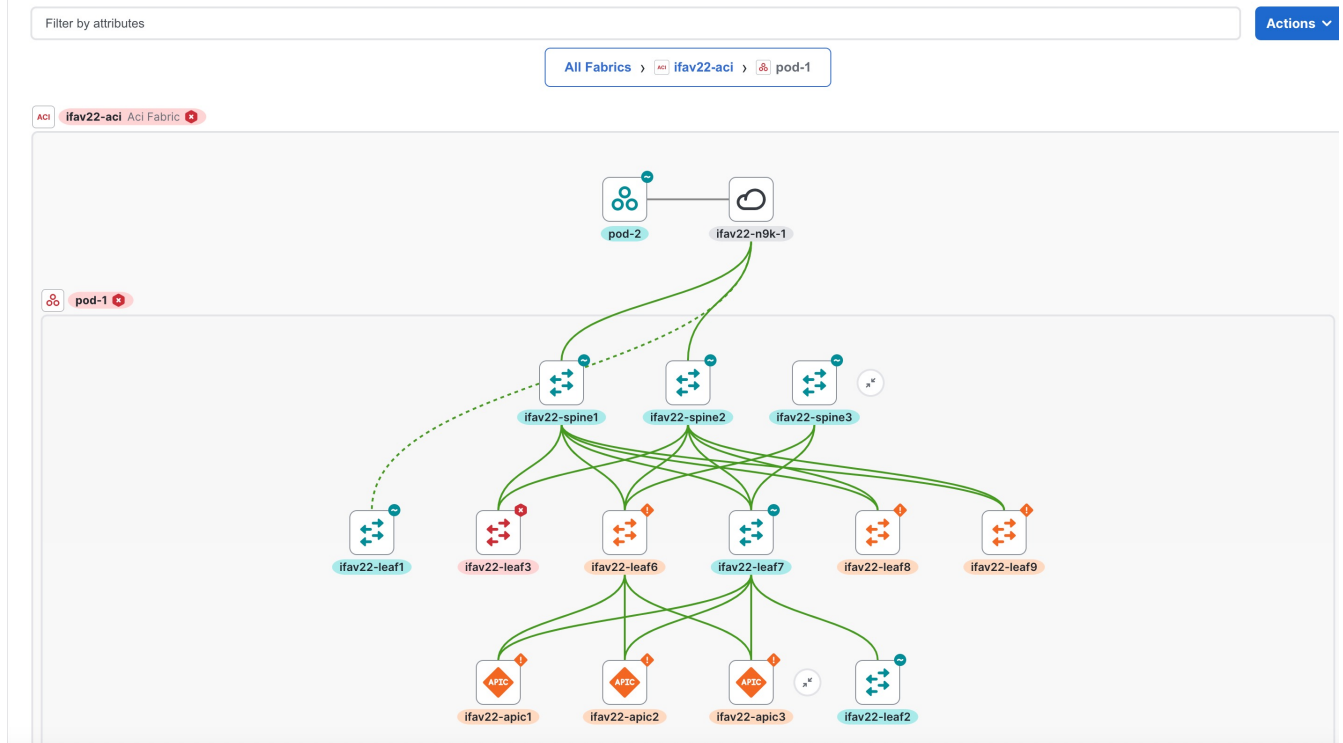
The nodes are interconnected by using lines. The line color shows connectivity health via anomaly health. The various anomaly healths available are healthy, warning, major, critical, and unknown.

Breadcrumbs help you to navigate between views. The first element in the breadcrumbs is All Fabrics and the other elements are the names of the nodes that you double-clicked.

The actions dropdown allows you to toggle between vertical and horizontal layout for flexibility in display of the topology. Vertical Layout is the default layout. Click info icon on bottom right to get more information about the legend. It helps understand the node type, the node anomaly status, the node stack and the links used in the topology.

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Topology Legend

Node type

- ACI — ACI Fabric
- NX — NX-OS Fabric
- ISN/IPN
- Pod
- Switch (Spine, Leaf, etc.)
- Endpoint

Node anomaly status

A status icon is not displayed on healthy nodes unless one or more healthy nodes are selected

- Healthy
- Warning
- Minor
- Major
- Critical
- Unknown

Node stack

- 4 — Number of grouped items
- Expand or collapse a node stack

Links

- Connection
- VPC Pair

Use the zoom-in or zoom-out capability to change the scale of the viewed area in order to see more detail or less detail.

You can refine the displayed nodes by filters. Attributes available for filtering are relative to a specific view, and change according to the view selected. Use the following operators to filter the refinement:

Operator	Description
==	With the initial filter type, this operator, and a subsequent value, returns an exact match.
!=	With the initial filter type, this operator, and a subsequent value, returns all that do not have the same value.
contains	With the initial filter type, this operator, and a subsequent value, returns all that contain the value.
!contains	With the initial filter type, this operator, and a subsequent value, returns all that do not contain the value.

Filtering does not search for the attribute value across the nodes maintained in a given network topology, but only highlights the filtered node, if present in the current view of the topology.

Fabric or Pod Topology View

- Single Pod Topology View - It displays the top-level organization of the all spines switches and leaf switches in a topology, abstracting away other details such as endpoints. This view is displayed when you select a pod or a fabric. While all nodes are interconnected using plain lines, a remote-leaf connectivity to other nodes, is depicted using a dotted-line.
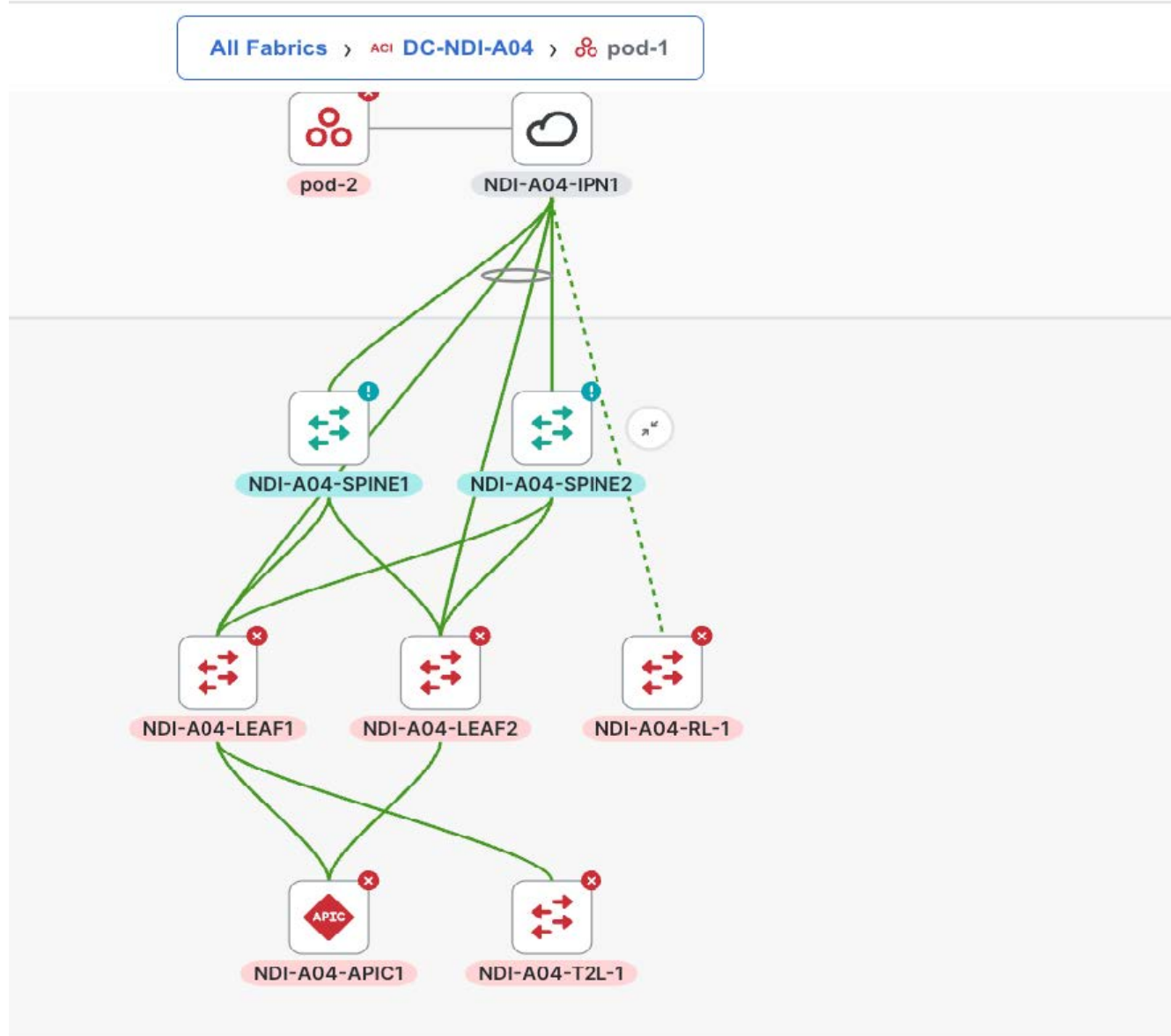
- Multi Pod Topology View - It is displayed when multiple pods have been configured in the network topology. Pods are interconnected using inter-pod Network, which is shown as a physical entity in the topology. Double-click a pod to load into the bucket using the single fabric view.

ACI

DC-NDI-A04

pod-1

pod-2

NDI-A04-IPN1

NDI-A04-RL-1
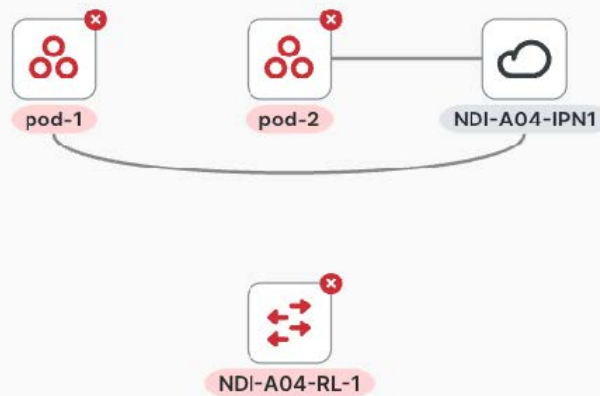
Node Topology View

It displays a detailed view for a given switch and its connectivity to other nodes. A switch can be a spine switch or a leaf switch such as remote leaf, border leaf, or tier-2 leaf. In this view, you can click on the node to view details such as the endpoints configured, and connectivity information via tooltip. A maximum of 9 endpoints are displayed individually for any leaf node. To view others, double click the cluster-node. Click **More** to view the other endpoints not displayed individually.
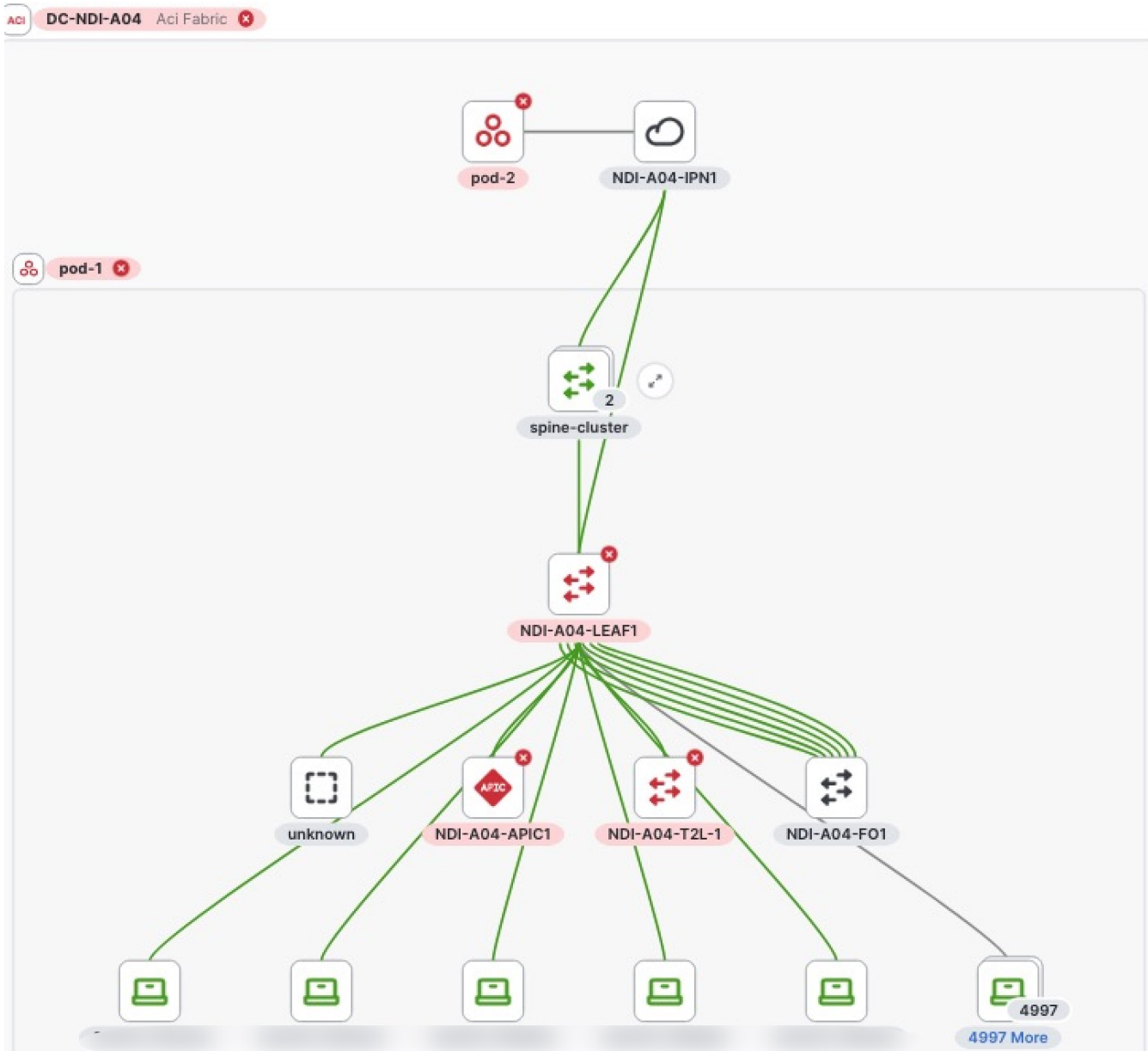
View Topology

In Nexus Dashboard Insights, you can view Topology in the following ways:

1. Navigate to **Overview** > **Topology**.

OR

1. Navigate to **Manage** > **Inventory** > **Switches**.
2. Select a switch.
3. From the Actions drop-down menu, click **View in Topology**

OR

1. Navigate to **Manage** > **Inventory** > **Controllers**.

2. Select a controller.

3. From the Actions drop-down menu, click **View in Topology**

OR

1. Navigate to **Manage** > **Inventory** > **Switches**.

2. Click **Switch Name**

3. Navigate to **Connectivity** > **Endpoints**.

4. Select a endpoint.

5. From the Actions drop-down menu, click **View in Topology**

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