



# Introduction to Cisco User Defined Network

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## Overview of Cisco User Defined Network

In network environments such as dorm rooms, and other multidwelling buildings, the network is shared among multiple users. It is important to avoid misuse and unintended control of one's device in such shared networks.

Cisco User Defined Network is a solution available through Cisco DNA Center, which provides secure and remote onboarding of client devices and allows IT staff to give each user an oversight of their own private network partition. The Cisco User Defined Network grants both device security and control, allowing end users the choice of who can connect to their network or device. This solution also gives end users the ability to invite trusted users, such as friends, to their personal network through the Cisco User Defined Network mobile application so that they can collaborate and share their devices with them.



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**Note** Prior to configuring the Cisco User Defined Network, it must be paired with the latest compatible version of Cisco DNA Center. For more information, see the [Cisco User Defined Network Install and Upgrade Guide](#).

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The Cisco User Defined Network mobile app enables users to remotely and securely register their personal devices on their own from home or anywhere else. After the devices are registered and users arrive at the shared network location, their wireless devices connect to the shared network and are placed into their personal network.

Cisco User Defined Network comprises the following components:

- Cisco Identity Services Engine
- Cisco Digital Network Architecture (DNA) Center
- Cisco User Defined Network Cloud
- Cisco User Defined Network mobile application
- Cisco Catalyst 9800 Series Wireless Controllers
- Cisco Catalyst 9100 family of Wireless Access Points and Cisco 802.11ac Wave 2 Access Points

Administrators use the Cisco User Defined Network Cloud portal to configure and monitor the Cisco User Defined Network solution for their organization. Users access the Cisco User Defined Network mobile application to add and manage their devices in personal networks within this larger network.

Cisco User Defined Network Cloud comprises the following:

- Cisco User Defined Network administration portal

A Cisco User Defined Network administrator creates, configures, and maintains a Cisco User Defined Network account for an organization through the administration portal. The User Defined Network administration portal is powered by Cisco DNA Center Cloud.

- Cloud-hosted microservices

These microservices facilitate storage and transmission of information between the various Cisco User Defined Network components.

## System Requirements

**Table 1: Cisco User Defined Network - Compatibility Matrix**

Solution	Compatible Versions
Cisco DNA Center	2.3.3.0
Cisco Identity Services Engine	3.0 patch 4
Cisco Catalyst Wireless Controller software	Cisco IOS XE Cupertino 17.7.1 Cisco IOS XE Amsterdam 17.3.5a
Cisco User Defined Network mobile application	1.5.1

### System Update and Application Update for Software 2.0

For information about performing a system update and an application update for Cisco DNA Center, see the [Cisco User Defined Network Install and Upgrade Guide](#).

## New and Changed Information

The following table summarizes the updates to this document and points you to where they are documented.

**Table 2: New and Changed Features for Cisco User Defined Network**

<b>Compatible Cisco DNA Center Version</b>	<b>Features</b>	<b>New or Updated Sections</b>
Release 2.3.3.0	Dashboard updates for <b>Summary</b> , <b>Site View</b> , and <b>Invitation by Status</b>	<a href="#">Dashboard</a>
	Shared device management	<ul style="list-style-type: none"> <li>• <a href="#">Endpoint Management</a></li> <li>• <a href="#">Share Device</a></li> </ul>
	Device limit configuration	<a href="#">Configure UDN Room Settings</a>
	Multiregion support	<a href="#">Overview of Cisco User Defined Network Administration Portal</a>
	Endpoint management for administrators	<a href="#">Endpoint Management</a>

