



# User Defined Network Plus



## Key features and benefits of User Defined Network Plus

- A segmented, homelike wireless user experience in a shared network environment
- User-friendly, secure onboarding of personal wireless devices
- Remote registration of wireless devices before connecting to the organization's wireless
- Multiple authentication mechanisms, including PSK, 802.1X, and more
- Ability to use existing hardware for deployment (using a wireless LAN controller or Wave 2 or newer Catalyst access points)
- Protocol-agnostic operation, enabling multiple traffic types such as mDNS (Bonjour), Universal Plug and Play (UPnP), broadcast, unicast, and link local multicast

## Introducing Cisco User Defined Network Plus

College move-in days are stressful and emotional, filled with introductions and farewells for students and parents. For IT teams, they also bring a wave of support tickets and long queues of students and parents who are struggling to connect devices like laptops, TVs, and speakers to the institution's wireless network. Wireless networks in large, multidwelling buildings – like dorms and retirement centers – often fail to provide the homelike experience users expect, increasing the IT staff's burden in troubleshooting and connecting numerous devices for individual residents.

For IT teams managing user connectivity for move-in day and every day, Cisco® User Defined Network Plus is a secure, user-friendly solution that can be easily deployed, managed, and monitored. User Defined Network Plus offers a seamless, homelike personal network experience on shared network resources, reducing IT support tickets related to residence hall connectivity issues. Residents can control connectivity and access to their devices, while IT staff can monitor all devices on the network. Win-win.

### User Defined Network Plus required solution components

- Catalyst 9800 Series Wireless Controller
- Cisco Identity Services Engine (ISE)
- Cisco Aironet® 802.11ac Wave 2 or Cisco Catalyst™ 9100 Access Points
- Splash Access license for registration web portal

### Use cases

- Higher education – specifically dormitories
- Retirement homes or senior living facilities
- Hospitals
- Hotels
- Convention centers
- Multitenant buildings

## User Defined Network Plus Deployment Guide

For more information on how to deploy this solution, find the [Deployment Guide](#) online.