

## Introduction to 802.1X Operations for Cisco Security Professionals

**Duration: 3 Days**    **Course Code: 8021X**    **Version: 3.0**    **Delivery Method: Virtual Classroom**

### Overview:

The **Introduction to 802.1X Operations for Cisco Security Professionals (802.1X)** training teaches you to manage Cisco IBNS with Catalyst switches, 9800 Controllers, and Meraki.

The Introduction to 802.1X Operations for Cisco Security Professionals (802.1X) training shows you how to configure and prepare to deploy Cisco® Identity-Based Networking Services (IBNS) solutions based on Cisco Catalyst switches, Cisco 9800 LAN Controllers, and Cisco Meraki deployments. You will learn the fundamentals of the 802.1X protocol and configuration, Cisco IBNS, configuring access for non-suppliant devices, architectural components, and considerations with 802.1X. This training also earns you 12 Continuing Education (CE) credits toward recertification.

*Updated 11/06/2026*

### Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

### Target Audience:

This class is intended for the following participants:

- Security Administrators
- Security Consultants
- Network Administrators
- System Engineers
- Technical Support Personnel
- Channel Partners and Resellers

### Objectives:

- This course will help you:
- Identify Cisco IBNS operation and how 802.1X functions as part of the IBNS solution
- Compare the different types of EAP authentication to select the best method for a solution deployment
- Configure Cisco Catalyst switches for 802.1X access
- Configure Cisco Wireless LAN Controllers for 802.1X access
- Configure Meraki devices for 802.1X access
- Apply MAB and guest services to integrate devices without direct 802.1X support to the network
- Explain network design considerations and troubleshooting for Cisco IBNS

### Prerequisites:

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- Basic routing and switching knowledge  
These skills can be found in the following Cisco Learning Offering:
- CCNA - Implementing and Administering Cisco Solutions

## Follow-on-Courses:

- SISE - Implementing and Configuring Cisco Identity Services Engine Bootcamp
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## Content:

### Course Outline

- Introduction to Cisco IBNS
- 1X EAP Authentication
- 1X on Cisco Catalyst Switches
- 1X on Cisco Wireless LAN Controllers
- 1X on Meraki Devices
- Network Access for Non-Supplicant Devices
- Design Considerations and Troubleshooting for Cisco IBNS Networks

### Lab Outline

- Configure an 802.1X Supplicant for Tunneled EAP (TEAP)
  - Configure Cisco Catalyst Switch for IEEE 802.1X
  - 1X Configuration on Cisco Wireless LAN Controllers
  - 1X Configuration on Meraki Devices
  - Configure MAC Authentication Bypass on Cisco Network Devices
  - Troubleshoot Cisco IBNS Networks
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## Additional Information:

Official course book provided to participants.”

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## Further Information:

For More information, or to book your course, please call us on 00 966 92000 9278

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