



## Debug Commands: 802.11

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- [debug 11k](#), on page 2
- [debug 11w-pmf](#), on page 3
- [debug 11v all](#), on page 4
- [debug 11v detail](#), on page 5
- [debug 11v error](#), on page 6
- [debug 11w-pmf](#), on page 7

# debug 11k

To configure the debugging of 802.11k settings, use the **debug 11k** command.

**debug 11k** { **all** | **detail** | **errors** | **events** | **history** | **optimization** | **simulation** } { **enable** | **disable** }

Syntax	Description
<b>all</b>	Configures the debugging of all 802.11k messages.
<b>detail</b>	Configures the debugging of 802.11k details.
<b>errors</b>	Configures the debugging of 802.11k errors.
<b>events</b>	Configures the debugging of all 802.11k events.
<b>history</b>	Configures the debugging of all 802.11k history. The Cisco WLC collects roam history of the client.
<b>optimization</b>	Configures the debugging of 802.11k optimizations. You can view optimization steps of neighbor lists.
<b>simulation</b>	Configures the debugging of 802.11k simulation data. You can view details of client roaming parameters and import them for offline simulation.
<b>enable</b>	Enables the 802.1k debugging.
<b>disable</b>	Disables the 802.1k debugging.

**Command Default** None.

This example shows how to enable the debugging of 802.11k simulation data:

```
(Cisco Controller) >debug 11k simulation enable
```

**Related Commands**

- config assisted-roaming**
- config wlan assisted-roaming**
- show assisted-roaming**

## debug 11w-pmf

To configure the debugging of 802.11w, use the **debug 11w-pmf** command.

**debug 11w-pmf** {all | events | keys} {enable | disable}

### Syntax Description

<b>all</b>	Configures the debugging of all 802.11w messages.
<b>keys</b>	Configures the debugging of 802.11w keys.
<b>events</b>	Configures the debugging of 802.11w events.
<b>enable</b>	Enables the debugging of 802.1w options.
<b>disable</b>	Disables the debugging of 802.1w options.

### Command Default

None

### Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to enable the debugging of 802.11w keys:

```
(Cisco Controller) >debug 11w-pmf keys enable
```

## debug 11v all

To configure the 802.11v debug options, use the **debug 11v all** command.

**debug 11v all** { **enable** | **disable** }

Syntax Description	
<b>enable</b>	Enables all the debug.
<b>disable</b>	Disables all the debug.

Command Default	
	None

Command History	Release	Modification
	8.1	This command was introduced.

The following example shows how to enable all the debug:

```
(Cisco Controller) >debug 11v all enable
```

## debug 11v detail

To configure the 802.11v debug details, use the **debug 11v detail** command.

**debug 11v detail** { **enable** | **disable** }

Syntax Description	
	<b>enable</b> Enables debug details.
	<b>disable</b> Disables debug details.

Command Default	
	None

Command History	Release	Modification
	8.1	This command was introduced.

The following example shows how to enable 802.11v debug details:

```
(Cisco Controller) >debug 11v detail enable
```

## debug 11v error

To configure the 802.11v error debug options, use the **debug 11v errors** command.

**debug 11v errors** { **enable** | **disable** }

Syntax Description	
<b>enable</b>	Enables error debug.
<b>disable</b>	Disables error debug.

Command Default	
	None

Command History	Release	Modification
	8.1	This command was introduced.

The following example shows how to enable 802.11v error debug:

```
(Cisco Controller) >debug 11v error enable
```

## debug 11w-pmf

To configure the debugging of 802.11w, use the **debug 11w-pmf** command.

**debug 11w-pmf** {all | events | keys} {enable | disable}

Syntax Description		
<b>all</b>	Configures the debugging of all 802.11w messages.	
<b>keys</b>	Configures the debugging of 802.11w keys.	
<b>events</b>	Configures the debugging of 802.11w events.	
<b>enable</b>	Enables the debugging of 802.1w options.	
<b>disable</b>	Disables the debugging of 802.1w options.	

Command Default	
	None

Command History	Release	Modification
	7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to enable the debugging of 802.11w keys:

```
(Cisco Controller) >debug 11w-pmf keys enable
```

