

# Debug Commands: 802.11


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# 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

| | |
|---|---|
| **all** | Configures the debugging of all 802.11k messages. |
| **detail** | Configures the debugging of 802.11k details. |
| **errors** | Configures the debugging of 802.11k errors. |
| **events** | Configures the debugging of all 802.11k events. |
| **history** | Configures the debugging of all 802.11k history. The controller collects roam history of the client. |
| **optimization** | Configures the debugging of 802.11k optimizations. You can view optimization steps of neighbor lists. |
| **simulation** | Configures the debugging of 802.11k simulation data. You can view details of client roaming parameters and import them for offline simulation. |
| **enable** | Enables the 802.1k debugging. |
| **disable** | 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

| | |
|---|---|
| **all** | Configures the debugging of all 802.11w messages. |
| **keys** | Configures the debugging of 802.11w keys. |
| **events** | Configures the debugging of 802.11w events. |
| **enable** | Enables the debugging of 802.1w options. |
| **disable** | 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

| | |
|---|---|
| **enable** | Enables all the debug. |
| **disable** | 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

| | |
|---|---|
| **enable** | Enables debug details. |
| **disable** | 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

| | |
|---|---|
| **enable** | Enables error debug. |
| **disable** | 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

| | |
|---|---|
| **all** | Configures the debugging of all 802.11w messages. |
| **keys** | Configures the debugging of 802.11w keys. |
| **events** | Configures the debugging of 802.11w events. |
| **enable** | Enables the debugging of 802.1w options. |
| **disable** | 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
```