



Tamper Detection

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IR8140H routers provide IR sensors for cover detection in the UIM slots, and a switch on the BBU board for the BBU unit.

For each UIM slot, IR8140H routers have an IR Time of Flight sensor to detect the distance to the slot cover when there is no UIM installed in the slot. If no cover is detected, an alarm syslog message is generated. If the router is registered to IOT-FND, a corresponding event is also sent to IOT-FND.

The cover detection applies for the following scenarios:

- Any UIM module is removed during operation.
- The cover for an unused UIM slot is removed.
- BBU removal detected in progress (through a switch on the BBU board).

In cases where the Supervisor (CPU) module is removed or the BBU is removed (if its alarm could not be sent when the BBU removal in progress was detected), a tamper indication is stored in the flash of the secondary MCU, which allows IR8140H routers to send an alarm to IOT-FND at a later time.



Note the ability to send the alarm to IOT-FND depends on the the WAN interface (Ethernet or LTE connectivity) being available at the time of the occurrence of the tamper detection.



Note It is highly recommended to power down the module prior to physically remove it, using the following CLI command. For example, if the module is in slot 3:

```
IR8140H(config)#hw-module subslot 0/3 shutdown unpowered
```

After inserting the replacement module, power up it using this command:

```
IR8140H(config)#no hw-module subslot 0/3 shutdown unpowered
```
