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# Licensing on the Cisco IR800 Integrated Services Router

## Licensing

This document provides details on the security licensing for the Cisco IR800 Integrated Services Router.

The IOS feature set is aligned with the IOT 15.x M/T release strategy. They are:

- S800IUK9-15503M – Cisco IR800 Series UNIVERSAL
- S800INPEK9-15503M – Cisco IR800 Series UNIVERSAL – NO PAYLOAD ENCRYPTION

### Software License PIDs

The Software License PIDs are shown in the following table:

**Table 1: Software License PIDs**

Software PID	Name	Description
SL-IR800-IPB-K9	Cisco 800 Series Industrial Routers IP Base License	Routing (BGP, OSPF, RIP, EIGRP, ISIS,), PBR, IGMP/MLD, Multicast, QoS, AAA, Raw Sockets, Manageability
SL-IR800-SEC-K9	Cisco 800 Series Industrial Routers Security License	SSL, VPN, IPSec, DMVPN, FlexVPN, IOS Firewall
SL-IR800-SNPE-K9	Cisco 800 Series Industrial Routers No Payload Encryption License	
SL-IR800-DATA-K9	Cisco 800 Series Industrial Routers Data License	L2TPv3, IP SLA, BFD, MPLS (subset)
SWAP1530-81-A1-K9	Cisco 1530 Series Unified & Autonomous 8.1 SW	IR829 AP803 WI-FI

## Install Licenses

To enable the RightToUse license, perform the following steps:

Licenses are installed at manufacturing. If the securityk9 technology-package is not installed, the crypto related functions will not work. See additional information under Hardware Crypto Support.

**Step 1** Accept the EULA.

```
Router# license accept end user agreement
```

**Step 2** Enable the technology-package.

```
Router# license boot module ir800 technology-package securityk9
Router# license boot module ir800 technology-package datak9
```

**Step 3** Reload the IR800 router.

```
Router# reload
```

**Step 4** Verify the licensing status on the router.

```
Router# show license feature
```

Feature name	Enforcement	Evaluation	Subscription	Enabled	RightToUse
ipbasek9	no	no	no	yes	no
securityk9	yes	yes	no	yes	yes

## Hardware Crypto Support

In the initial IOS release 15.5(3)M, only software-based cryptographic support was available. Later, hardware-based cryptographic support was introduced. To enable hardware-based crypto functionality, a security license must be installed.

To check which version of cryptographic support is being used on a device, use the following command:

```
Router# show crypto engine configuration
```

```
crypto engine name: Virtual Private Network (VPN) Module
crypto engine type: hardware
    State: Enabled
    Location: onboard 0
Product Name: Onboard-VPN
  HW Version: 1.0
  Compression: No
    DES: Yes
    3 DES: Yes
    AES CBC: Yes (128,192,256)
    AES CNTR: No
Maximum buffer length: 4096
  Maximum DH index: 0000
  Maximum SA index: 0000
  Maximum Flow index: 0256
  Maximum RSA key size: 0000
  crypto lib version: 22.0.0
crypto engine in slot: 0
  platform: VPN hardware accelerator
  crypto lib version: 22.0.0
```