



## Offer Description: Cisco Crosswork RON Automation Essentials

Your use of Cisco Crosswork RON Automation Essentials (“RON Automation Essentials” or the “Cisco Technology”) is governed by this Offer Description (the “Terms”) and the Cisco End User License Agreement located at [www.cisco.com/go/eula](http://www.cisco.com/go/eula) (the “EULA”) (or similar terms existing between you and Cisco) (the “Agreement”).

If capitalized terms are not defined in this Offer Description, then they have the meaning given to them in the Agreement or order(s).

### 1. Description

RON Automation Essentials provides customers a simplified, suite-based buying model for Cisco’s comprehensive network automation product portfolio. It is a device-centric bundle focused on improving customer’s ease of operations in the following key capability areas: Node turn-up, configuration management/backup, software management, GUI based L2 VPN provisioning, GUI-based L3 VPN provisioning, service health assurance, performance monitoring, device level alarming, and root cause analysis.

### 2. Supplemental Terms and Conditions

#### 2.1. Software Entitlement

RON Automation Essentials includes the individual software components (with corresponding license meters and license duration) as listed in Attachment A.

#### 2.2. Additional Product Terms

In addition to this Offer Description, the software components listed below, which are included with RON Automation Essentials, have Terms that are applicable to Your use of such software, as noted below.

Product	Terms
Cisco Crosswork Network Controller (CNC) Essentials*	<a href="https://www.cisco.com/c/dam/en_us/about/doing_business/legal/seula/crosswork-network-controller.pdf">https://www.cisco.com/c/dam/en_us/about/doing_business/legal/seula/crosswork-network-controller.pdf</a>
Cisco Evolved Programmable Network Manager (EPNM) Essentials	<a href="https://www.cisco.com/c/dam/en_us/about/doing_business/legal/seula/cisco-evolved-programmable-network-manager.pdf">https://www.cisco.com/c/dam/en_us/about/doing_business/legal/seula/cisco-evolved-programmable-network-manager.pdf</a>

\* See use case limits below.

#### 2.3. Permitted Use Cases

You may use RON Automation Essentials (as set forth in Attachment A) only with the defined Use Cases, listed below. For purposes of RON Automation Essentials, You do not need to purchase additional licenses, beyond the license entitlements in Attachment A as long as Your use of the software is in compliance with the Agreement and these Use Cases.

Use Case	Description
HCO - Single Pane of Glass (SpoG) across IP/Optical domains	Provides a unified view of RON links and services as part of the IP-optics multi-layer view. This includes visualization of the link between routers and as an assurance tool to analyze performance of ETH and optical layers. Provisioning of new IP link between routers, over ZR and over optical line system in a single operation.
HCO - Router ZR/ZR+ to Optical System Link Assurance	Provides analysis of historical performance metrics of all IP and optical layers. Metrics are continuously collected and displayed to users on a graph with highlighting degradation points and correlating between layers.
HCO - Router ZR/ZR+ to Optical System Link Provisioning	Provides a UI based wizard to configure a new link between two router ports over ZR pluggable, where OCH link is set and the link between ZRs to optical line systems (ROADMs or Amplifiers) is set on the optical domain controller.
CNC - Router ZR/ZR+ to Optical System Link Provisioning	Enables provisioning of ZR/ZR+ end-points and configuring of the optical system link between designated routers over ZR pluggable.
CNC - IP L2/L3 VPN Provisioning GUI-based	Automates provisioning of L2VPN and L3VPN services, It can be achieved with GUI-based workflow or via API.
CNC - IP Path Optimization	Offers IP Path optimization based on objective such minimization of latency, IGP metric, TE metric, path diversity constraints or affinity rules.
CNC - IP Telemetry Monitoring & Visualization	Provides monitoring and visualization of KPIs based on Telemetry using MDT (Model Driven Telemetry) or gNMI/OpenConfig.
EPNM – Element Management – Cisco Only	Provides the standard Fault, Performance, Inventory functionalities at the Device level.
EPNM – Software Image Management – Cisco Only	Provides the ability to schedule a software download and image activation, hence the lifecycle of the OS image for the Cisco Devices managed.

#### 2.4. Out of Scope Features

The Cisco Technology that You have purchased may contain additional programs, features and functionality outside Your license scope. The applicable Documentation identifies the programs, features and functionality that are within Your license scope for Your particular purchase. If you wish to Use out of scope items, You will need to purchase separate licenses.

#### 2.5. RON Automation Essentials Pricing

Any contractual discounts to which You may otherwise be entitled do not apply to the purchase of RON Automation Essentials licenses or associated support.

### 3. Support & Maintenance

We will provide You with Support and Maintenance for the Cisco Technology based on the tier of services purchased, as described here: [https://www.cisco.com/c/dam/en\\_us/about/doing\\_business/docs/cisco-software-support-service.pdf](https://www.cisco.com/c/dam/en_us/about/doing_business/docs/cisco-software-support-service.pdf).

Crosswork's EOL and End of Sale notices are available at <https://www.cisco.com/c/en/us/products/cloud-systems-management/crosswork-network-automation/eos-eol-notice-listing.html>.

### 4. Definitions

**Device** means, as applicable, a single, physical or virtual router, switch, or network function in Your network.

**Instance** means the number of actual deployments of a specific product in a network.

**Manage** means to use the Cisco Technology to manage, monitor, or otherwise exchange information with a Device.

**RON** means routed optical networking.

**Use Case** means the use cases detailing the permitted use of the Software as provided in Table 2.1

## ATTACHMENT A

Product	License Metric	License Duration
Cisco Crosswork Network Controller (CNC) Essentials	Instance, Device	Subscription
Cisco Evolved Programmable Network Manager (EPNM) Essentials	Instance, Device	Subscription
Cisco Crosswork Hierarchical Controller (HCO) Essentials	Instance, Device	Subscription