



Cisco Prime Infrastructure 2.x (2.0, 2.1, 2.2) Ordering and Licensing Guide

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Cisco Prime Infrastructure Ordering Guide

- What is new with Cisco Prime™ Infrastructure 2.2?
- Ordering Cisco® Prime Infrastructure (new and existing customers)
- Upgrading from NCS 1.x, PI 1.x, and PI 2.0 / 2.1 to the latest PI release (2.2)
- Upgrading from generation 1 to 2 phy. Appl., WCS Navigator to PI Operations Ctr.
- Migrating from legacy offerings (WCS, LMS) to the latest PI release (2.2)
- Appendices (A-J)



- A. [Scale and sizing guidelines](#)
- B. [Prime Infrastructure 2.x licensing overview](#)
- C. [Upgrading using the Product Upgrade Tool](#)
- D. [Complete list of product and services part numbers](#)
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What Is New with Prime Infrastructure 2.2

New in Prime Infrastructure 2.2 (1 of 4)

Licensing Changes

- We have removed node locking from all new product licenses. The part number for the new licenses with node lock removed will contain “-N (e.g R-PI2X-N-K9, L-PI2X-N-BASE-K9)
- To enable backward compatibility and to fulfill backorders, existing licenses (with node lock) will remain orderable until further notice
- A PI server running PI 2.2 will accept both node-locked and node-lock-removed licenses, therefore, upgrading from previous versions to PI 2.2 do not require re-hosting of their licenses
- However, a PI server running PI 2.1 or earlier will work only with node-locked licenses
- Services licensing is simplified (a single part number for support and upgrades)
 - A single Cisco® Software Service and Support (SWSS) license replaces an ESW/PASS pair
 - A 1-year, mandatory SWSS services contract is attached with each new purchase (Please order additional service if required)
- New part numbers have been introduced for the following features and products:
 - New Prime™ Infrastructure 2.2 software
 - Prime Infrastructure Operations Center (manager of manager; no high availability)
 - Cisco UCS® server management
 - Generation 2 Prime Infrastructure physical appliance (available 1Q CY 2015)

New in Prime Infrastructure 2.2 (2 of 4)

Upgrade Options

- Cisco Prime™ Infrastructure (PI) 2.2 does not offer an in-line upgrade because we have upgraded the operating system, database, and security libraries
- If you are running a version earlier than 1.4.0.45 or 2.1.0.0.87, you will need to upgrade your server to one of those versions and then follow the instructions below
- Customers running PI 2.1 (2.1.1, 2.1.0.0.87) or PI 1.4 (1.4.2, 1.4.1, or 1.4.0.45) can upgrade directly to PI 2.2 by following these steps:
 - Download the appropriate PI 2.2 software image (from cisco.com)
 - OVA image (if running a virtual appliance) or ISO image (if you are running a physical appliance)
 - Install the image in the new platform VM or appliance
 - Back up your data from the existing server; also back up a copy of your license files
 - Restore the above backup file to the newly installed PI server
 - Your licenses **do not** require REHOST
- Always take a complete and valid backup of data and licenses of your existing servers

New in Prime Infrastructure 2.2 (3 of 4)

Cisco UCS-Based Physical Appliance



Current Cisco Prime™ physical appliance (generation 1)

Part number: PRIME-NCS-APL-K9

- It is a four-year-old server platform that is scheduled for EoS/EoL in Q2 CY2015
- (Read the [EoS/EoS notice](#))
- It will support up to and including PI 2.2
- Customers can continue to order a generation 1 appliance until EoS (May 2015)



Cisco UCS®-based physical appliance (generation 2)

Part number: PI-UCS-APL-K9

- Scheduled to launch in Q1 CY2015 and orderable in Q1 CY2015
- The ISO image for this appliance will be available in Q1 CY2015
- It will only support PI 2.2 or higher

[→ Click here](#)

For scalability information refer to the scalability table

New in Prime Infrastructure 2.2 (4 of 4)

Physical Appliance Generation 1 Compared to Generation 2

ISO Image Available Today

Generation 1
PRIME-NCS-APL-K9
2.4 GHz, Intel E5620

1 RU, dual power supply,
hot-swappable HDD

ISO Image Available Q1 2015

◆
8 cores

◆
16 GB

◆
4 x 300 GB

◆
RAID 5

Gen1 Appliance Scale

5000	Max unified Aps	20,000
3000	Max autonomous APs	3000
500	Max WLAN controllers	1000
6000	Max wired (switches, routers)	13,000
10	Max MSE	25
500	NAMs	1000
10,000	Max number of devices (Combination of wired, wireless)	20,000

ISO Image Available Q1 2015

◆
10 cores

◆
64 GB

◆
4 x 900 GB

◆
RAID 10

Gen 2 Appliance Scale

Generation 2
PI-UCS-APL-K9
UCSC-C220-M4S
2.30 GHz E5-2650
v3/105 W 10C/25 MB
Cache/DDR4 2133 MHz

1 RU, dual power supply,
hot-swappable HDD

CPU

MEM

HDD

RAID



Ordering Cisco Prime Infrastructure (New and Existing Customers)

Ordering Cisco Prime Infrastructure 2.x

→ Click here [Customers purchasing Cisco Prime® Infrastructure for the first time](#)

→ Click here [Customers adding new functions or capacity to existing PI server\(s\)](#)

- [Additional capacity - lifecycle and assurance](#)
- [New functionality - Cisco UCS® Server management \(only on PI 2.2 or higher\)](#)
- [New functionality - Cisco® Prime Infrastructure Operations Center](#)

→ Click here [Customers just upgrading from NCS 1.x, PI 1.x, and 2.x](#)

→ Click here [Customers purchasing Prime Infrastructure Operations Center](#)



First-Time Purchase of Prime Infrastructure (1 of 5)

BEFORE YOU START TO ORDER PRIME INFRASTRUCTURE (PI)

- 1 Decide whether to deploy a PI server on a **physical appliance** or **virtual appliance**
- 2 Review the Cisco Prime® Infrastructure **Scale and Sizing Guidelines** ([click here](#))
- 3 Identify the total number of network devices, and Cisco UCS® servers that you will manage with PI
 - a. Number of **switches, routers, wireless access points, and wireless controllers**
 - b. Cisco® UCS servers
- 4 Identify other requirements for Cisco Prime Infrastructure deployment (for example, you may want to segment the network and deploy multiple PI instances to manage different segments)
- 5 Decide on the **number of PI server instances** based on the above guidelines and your requirements. Unless you plan to manage the same number of devices on each server instance, you must create a separate bill of materials (BoM) for each server (explained later)
- 6 Select the appropriate lifecycle and assurance part numbers and the quantity for each server based on the number of network devices that the server instance is intended to manage.

First-Time Purchase of Prime Infrastructure (2 of 5)

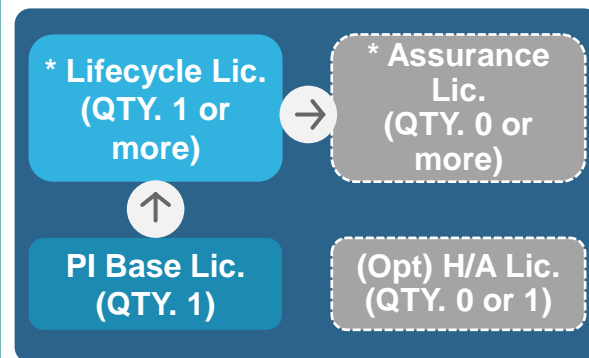
Use case: Customer wants to purchase Cisco Prime® Infrastructure to manage its network with 7000 managed devices (access points, switches, routers) and wants to enable NetFlow on 500 of these devices.*

REQUIRED

1. Start with TOP-LEVEL part number: R-PI2X-N-K9 (QTY. = 1)
2. Select the BASE LICENSE part number: L-PI2X-N-BASE (QTY. = 1)
3. Select SOFTWARE part number R-PI22-SW-K9 (QTY. = 1)
4. Select LIFECYCLE license part number(s): L-PI2X-LF-N-xx (xx = 50/100/500/1000 .. 15,000) QTY depends on the number of network devices (access points, switches, routers)

OPTIONAL

1. Select ASSURANCE license part number(s): L-PI2X-AS-N-xx (xx = 50/100/500/1000 .. /15,000)
2. Select UCS SERVER MGMT license part number(s): PI-SERV-UCS-K9 (QTY = number of servers)
3. Select the HIGH AVAILABILITY part number: L-PI2X-HA (QTY. = 1)
4. Order additional support (a 1-year mandatory services contract is attached with each new order)



PI Virtual or Physical Appliance

[Example BoM 1](#)

For a full list of SKUs refer to [Appendix D-E](#)

First-Time Purchase of Prime Infrastructure (3 of 5)

Example BoM #1: Customer wants to purchase Cisco Prime™ Infrastructure to manage its network with 7000 managed devices (access points, switches, routers) and wants to enable NetFlow on 500 of these devices.*

Product Part Number	Description	QTY	Services Part Number	Description	QTY
Top-Level Part Number					
R-PI2X-N-K9	Cisco Prime Infrastructure 2.x - Not Node Locked	1			
Base License					
L-PI2X-N-BASE	Prime Infrastructure 2.x Base License - Not Node Lock	1	CON-ECMU-PI2XBASE	SWSS UPGRADES Prime Infrastructure 2.x Base License	1
Cisco® Prime Infrastructure 2.x Software Options					
R-PI22-SW-K9**	Cisco Prime Infrastructure 2.2 Software	1	CON-ECMU-PI22SW	SWSS UPGRADES Prime Infrastructure 2.2 Software	1
Lifecycle License Options					
L-PI2X-LF-N-1K	Cisco Prime Infrastructure 2.x Lifecycle 1000 Device License - Not Node Locked	2	CON-ECMU-PI2XLF1K	SWSS UPGRADES PI 2.x - Lifecycle - 1000 Device License	2
L-PI2X-LF-N-5K	Cisco Prime Infrastructure 2.x Lifecycle 5000 Device License - Not Node Locked	1	CON-ECMU-PI2XLF5K	SWSS UPGRADES PI 2.x - Lifecycle – 5000 Device License	1
Assurance License Options					
L-PI2X-AS-N-500	Cisco Prime Infrastructure 2.x Assurance 500 Device License - Not Node Locked	1	CON-ECMU-PI2XAS5H	SWSS UPGRADES PI 2.x - Assurance - 500 Device License	1
Server Management License Options					
PI-SERV-UCS-K9	Cisco Prime Infrastructure 2.X, UCS® Server Management License	100	TBD	TBD	

*To get the most value out of Cisco Prime Infrastructure, we recommend you purchase a matching number of Assurance and Lifecycle licenses (wherever Assurance is supported).

**PI 2.2 is the latest and recommended software version.

If you plan to deploy a PI server on a physical appliance [click here](#)

First-Time Purchase of Prime Infrastructure (4 of 5) If You Choose a Physical Appliance Deployment

Use case: Customer wants to purchase and deploy Cisco Prime™ Infrastructure on a physical appliance.*

REQUIRED*

1. Start with the **TOP-LEVEL** part number: **PI-UCS-APL-K9 (QTY. = N)**
(N = Number of PI server instances that you plan to deploy)
If you will deploy high availability, order one pair of appliances for each instance.
2. Select the appliance **SOFTWARE** part number: **PI-UCS-APL-IMG-2.2 (QTY. = 1)**
If this selection is not available, please go to CCO Download site to download image and follow the instructions to install this image on the appliance.

[Example BoM 2](#)

For a full list of SKUs refer to [Appendix D-E](#)

***A generation 2 physical appliance is expected to be available in Q1CY2015.
If you want to use a generation 1 physical appliance start with top-level part number PRIME-NCS-APL-K9.**

First-Time Purchase of Prime Infrastructure (5 of 5)

If You Choose a Physical Appliance Deployment

Example BoM #2: Customer wants to purchase and deploy Cisco Prime™ Infrastructure on a physical appliance.*

Product Part Number	Description	QTY	Services Part Number	Description	QTY
Top-Level Part Number: Physical Appliance (Generation 2)					
PI-UCS-APL-K9*	Prime Infrastructure UCS® Hardware Appliance (Gen 2)	1**	CON-SNT-UCSAPL9	SMARTNET 8X5XNBD Cisco® Prime UCS HW	1
Prime Infrastructure 2.x Gen 2 Appliance Software Options					
PI-UCS-IMAGE-2.2	Cisco Prime Infrastructure 2.2 Appliance Software (Gen 2)	1	N/A	N/A	1

***A generation 2 physical appliance is expected to be available in Q1CY2015.**

**If you will deploy Prime Infrastructure in high availability you will need to purchase two servers.

H/A deployments require that both Primary and Secondary appliances be identical (PHY/PHY, VM/VM, Gen1/Gen1)

If you want to use a generation 1 physical appliance start with the top-level part number: PRIME-NCS-APL-K9.

Adding Capacity to Existing PI Servers (1 of 2)

Lifecycle and Assurance

Use case: Customer wants to purchase Cisco Prime™ Infrastructure to manage its network with 2000 devices (access points, switches, routers). Customer wants to enable NetFlow on 500 devices.

REQUIRED

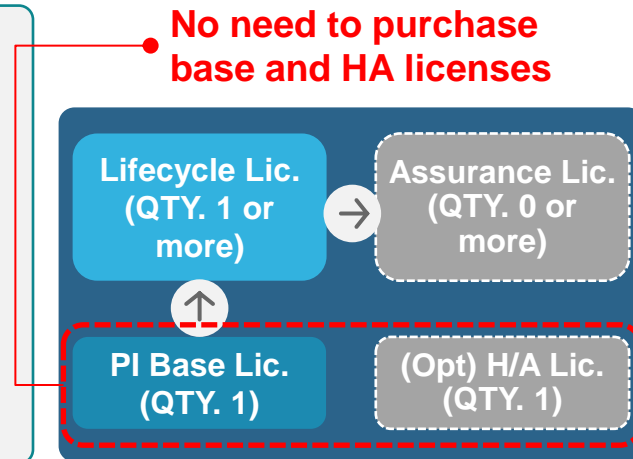
1. Start with TOP-LEVEL part number R-PI2X-N-K9 (QTY = 1)
2. Select LIFECYCLE license part number(s): L-PI2X-LF-N-xx (xx = 50/100/500/1000 .. /15,000)
3. Select ASSURANCE license part number(s): L-PI2X-AS-N-xx (xx = 50/100/500/1000 .. /15,000)

The QTY depends on the number of network devices (access points, switches, routers)

OPTIONAL

1. Order **additional services** (a 1-year mandatory services contract is attached)

[Example BoM #3](#) is shown in the next slide
For a full list of SKUs refer to [Appendix D-E](#)



PI Virtual or Physical Appliance

* **Lifecycle licenses (L-PI2X-LF-N-xx), and assurance licenses (L-PI2X-AS-N-xx) come in various device levels (where xx = 25, 50, 100, 500, 1000, 2500, 5000, 10,000, 15,000).**

They are based on the number of managed devices (access points, switches, routers).

Adding Capacity to Existing PI Servers (2 of 2)

Lifecycle and Assurance

Example BoM #3: Customer wants to purchase Cisco Prime™ Infrastructure to manage its network with 2000 devices (access points, switches, routers); Customer wants to enable NetFlow on 500 devices.

Product Part Number	Description	QTY	Services Part Number	Description	QTY
Top-Level Part Number					
R-PI2X-K9	Cisco® Prime Infrastructure 2.x	1			
Lifecycle License Options					
L-PI2X-LF-1K	Cisco Prime Infrastructure 2.x Lifecycle 1000 Device License	2	CON-ECMU-PI2XLF1K	SWSS UPGRADES PI 2.x - Lifecycle - 1000 Device License	2
Assurance License Options (Optional)					
L-PI2X-AS-500	Cisco Prime Infrastructure 2.x Assurance 500 Device License	1	CON-ECMU-PI2XAS5H	SWSS UPGRADES PI 2.x - Assurance - 500 Device License	1

Adding Cisco UCS Server Management to Existing PI Servers (1 of 2)

Use case: Customer wants to add a Cisco UCS® Server Management license to its existing PI servers. The customer has 100 Cisco® UCS servers to manage.

REQUIRED

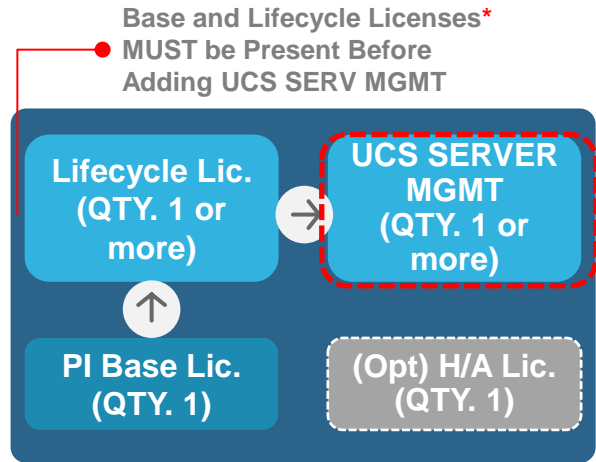
1. Start with the TOP-LEVEL part number R-PI2X-N-K9 (QTY. 1)
2. Select UCS SERVER MGMT license part number(s): PI-SERV-UCS-K9 (Qty = N).
The quantity depends on the number of Cisco UCS servers managed.

OPTIONAL

1. Order **additional services** (a 1-year mandatory services contract is attached).

[Example BoM #6](#) is shown in the next slide
 For full list of SKUs please refer to the [Appendix D-E](#)

* Lifecycle licenses are required to manage switches that UCS servers connect to.



PI Virtual or Physical Appliance

UCS server MGMT does not
 Consume a lifecycle license;
 Lifecycle function must be enabled
 and hence some license count is required

Adding Cisco UCS Server Management to Existing PI Servers (2 of 2)

Example BoM #6: Customer wants to add a Cisco UCS[®] Server Management License to its existing PI servers. The customer has 100 Cisco[®] UCS servers to manage.

Product Part Number	Description	QTY	Services Part Number	Description	QTY
Top-Level SKU					
R-PI2X-N-K9	Cisco Prime™ Infrastructure 2.x - Not Node Locked	1			
UCS Server Management License Options					
PI-SERV-UCS-K9	Cisco Prime Infrastructure 2.X, UCS Server Management License	100	CON-ECMU-PISERVUK	SWSS UPGRADES Cisco Prime Infrastructure - UCS Blade M Duration: 12 Month(s)	100



Adding Cisco UCS VM Management to Existing PI Servers (1 of 2)

Use case: Customer wants to add a Cisco UCS® VM Management license to its existing PI servers. The customer has 100 Cisco® UCS servers to manage.

REQUIRED

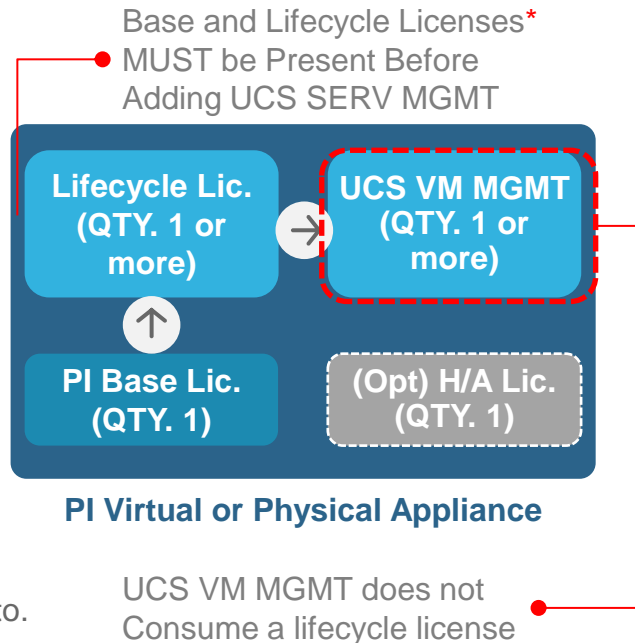
1. Start with the TOP-LEVEL part number R-PI2X-N-K9 (QTY. 1)
2. Select UCS Server MGMT license part number(s): PI-VM-UCS-K9 (Qty = N).
The quantity depends on the number of Cisco UCS servers managed.

OPTIONAL

1. Order **additional services** (a 1-year mandatory services contract is attached).

[Example BoM #6](#) is shown in the next slide
 For full list of SKUs please refer to the [Appendix D-E](#)

* Lifecycle licenses are required to manage switches that UCS servers connect to.



Adding Cisco UCS VM Management to Existing PI Servers (2 of 2)

Example BoM #6: Customer wants to add a Cisco UCS[®] VM Management License to its existing PI servers. The customer has 100 Cisco[®] UCS servers running Virtual Loads to manage.

Product Part Number	Description	QTY	Services Part Number	Description	QTY
Top-Level SKU					
R-PI2X-N-K9	Cisco Prime™ Infrastructure 2.x - Not Node Locked	1	N/A		
UCS Server Management License Options					
PI-VM-UCS-K9	Cisco Prime Infrastructure - UCS VM Management - 1 Srv	100			





Purchasing Cisco Prime Infrastructure Operations Center

Purchasing Cisco Prime Infrastructure Operations Center* (1 of 2)

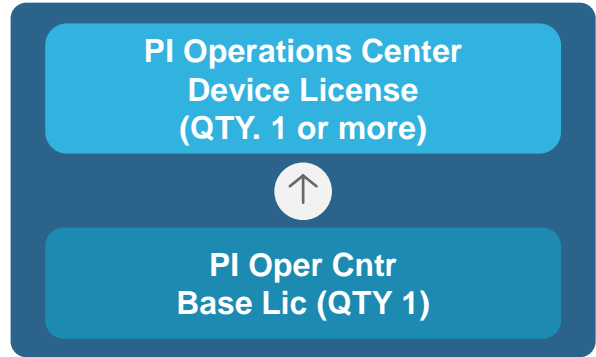
Use case: Customer has deployed multiple instances of Cisco Prime™ Infrastructure 2.1 or 2.2 and wants to deploy Cisco® Prime Infrastructure Operations Center to manage those PI instances centrally.

REQUIRED

1. Start with the TOP LEVEL part number: R-PI2X-N-K9 (QTY. = 1)
2. Select the SOFTWARE part number: R-PI22-SW-K9 (QTY. = 1)
3. If deploying Operations Center with a physical appliance select the SOFTWARE part number: PI-UCS-IMAGE-2.2 (QTY. = 1)
4. Select the OPER CNTR BASE LICENSE part number: L-PI2X-OC-BASE (QTY. = 1)
5. Select OPER CNTR BASE LICENSE part number: L-PI2X-OPRCTR-1 (QTY. = n)
(The quantity and type depend on the number of PI instances.)

OPTIONAL

1. Order **additional services** (a 1-year mandatory services contract is attached).



PI Virtual or Physical Appliance

[Example BoM #7](#)

For a full list of SKUs refer to [Appendix D-E](#)

***If the customer has previously deployed WCS Navigator, it can upgrade part numbers.**

[Click here](#) to see that use case.

Purchasing Cisco Prime Infrastructure Operations Center (2 of 2)

Example BoM

Example BoM #7: Customer has deployed multiple instances of Cisco Prime™ Infrastructure 2.1 or 2.2 and wants to deploy Cisco® Prime Infrastructure Operations Center to manage those PI instances centrally.

Product Part Number	Description	QTY	Services Part Number	Description	QTY
Top-Level Part Number					
R-PI2X-N-K9	Cisco Prime Infrastructure 2.x - Not Node Locked	1			
Base License					
L-PI2X-OC-BASE-K9	Prime Infrastructure 2.x Oper Cntr Base	1	CON-ECMU-PI2XOBASE	SWSS UPGRADES Prime Infrastructure 2.x OC Base License	1
Operations Center Server License Options					
L-PI2X-OPRCTR-1	Prime Infrastructure 2.x - Oper Cntr 1 Srv	1	CON-ECMU-PI2XOC	SWSS UPGRADES for PI 2.x - Oper Cntr 1 Srv	1

Deploying Operations Center in a Virtual Appliance

Prime Infrastructure 2.x Software Options					
R-PI22-SW-K9*	Cisco Prime Infrastructure 2.2 Software	1	CON-ECMU-PI22SW	SWSS UPGRADES Prime Infrastructure 2.2 Software	1

Deploying Operations Center in a Physical Appliance

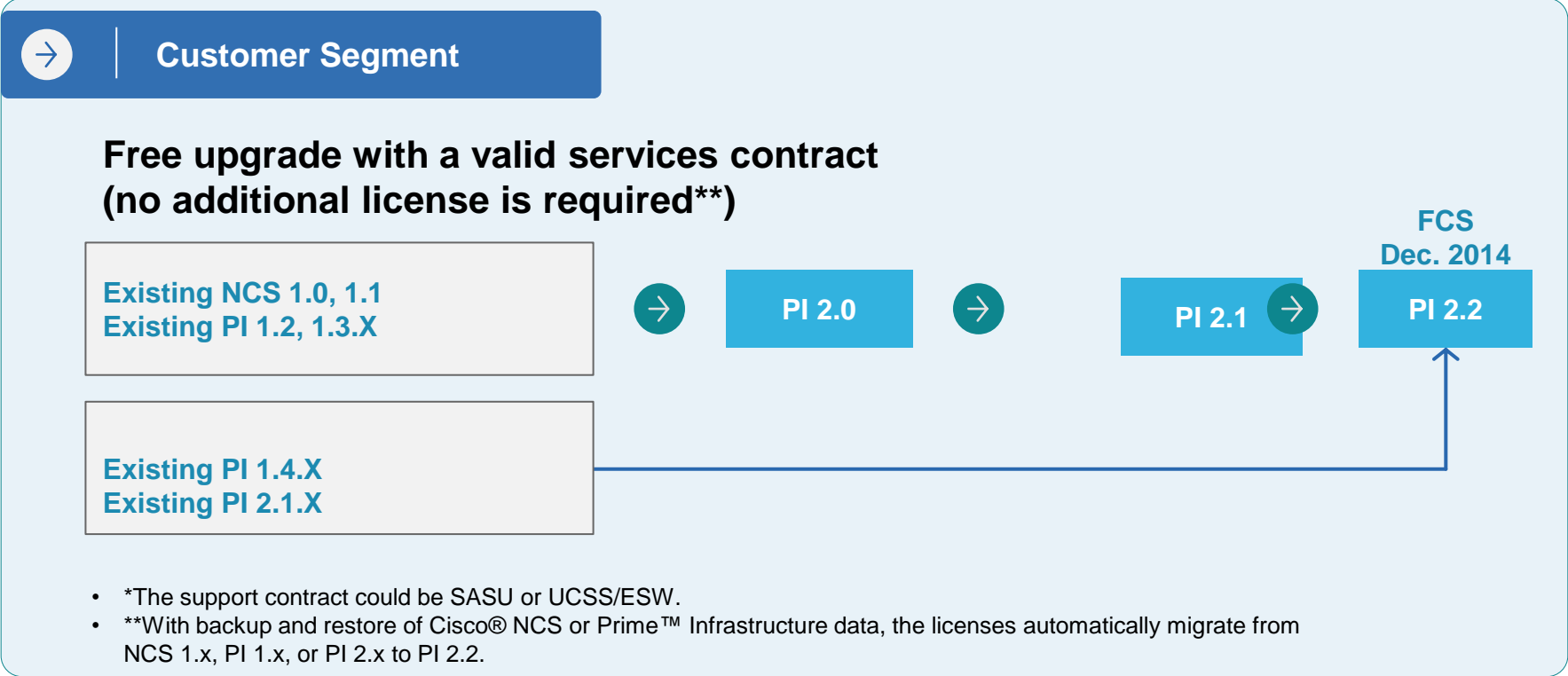
Product Part Number	Description	QTY	Services Part Number	Description	QTY
Top-Level Part Number: Physical Appliance (Generation 2)					
PI-UCS-APL-K9	Prime Infrastructure UCS® Hardware Appliance (Gen 2)	1	CON-SNT-UCSAPL9	SMARTnet® 8X5XNBD Cisco Prime UCS HW	1
Prime Infrastructure 2.x Gen 2 Appliance Software Options					
PI-UCS-IMAGE-2.2	Cisco Prime Infrastructure 2.2 Appliance Software (Gen 2)	1	N/A	N/A	1



Upgrading from Cisco NCS 1.x, Prime Infrastructure (PI) 1.x, and PI 2.0 or 2.1 to the Latest PI Release (2.2)

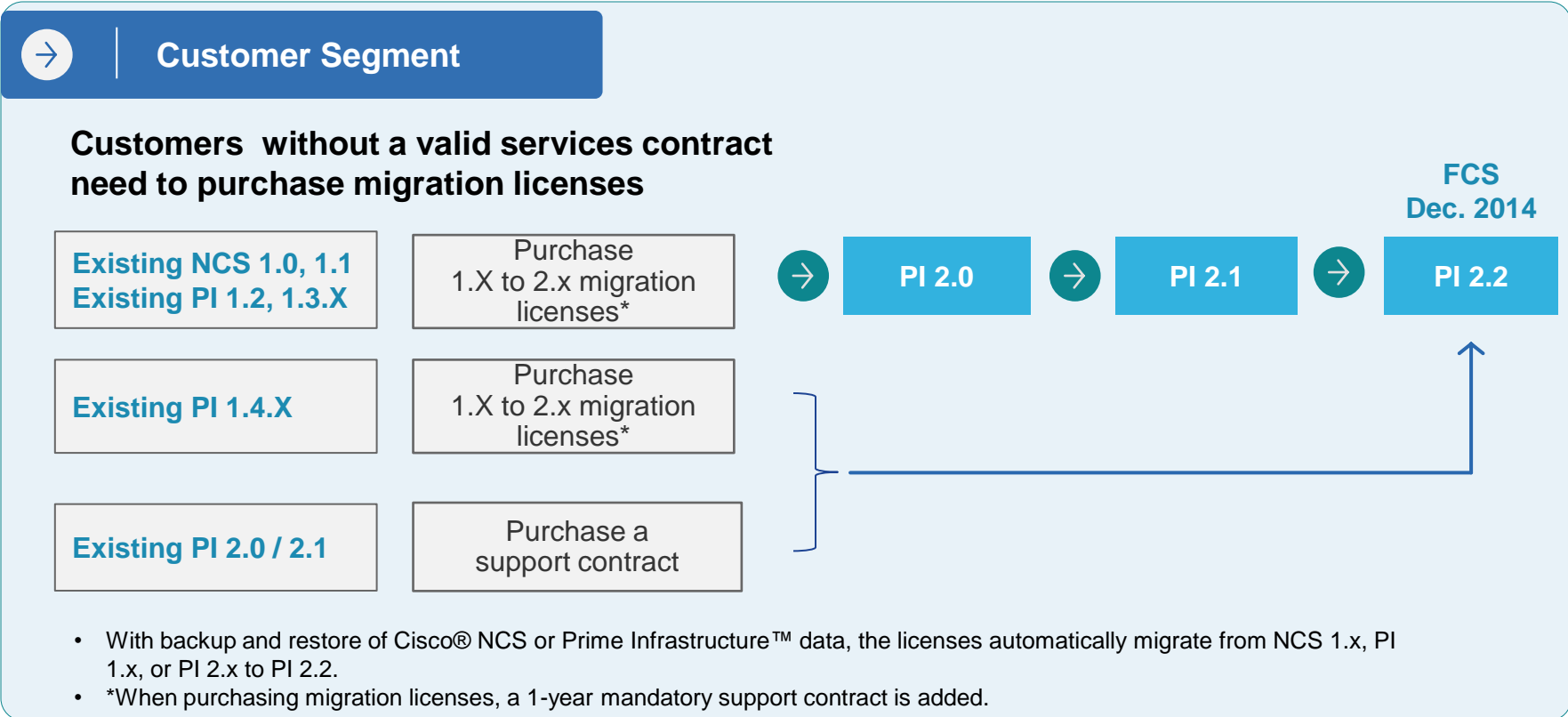
Upgrading from NCS 1.x, PI 1.x, PI 2.0, PI 2.1 (1 of 2)

For Customers **with** a Valid Support Contract*



Upgrading from NCS 1.x, PI 1.x, PI 2.0, PI 2.1 (2 of 2)

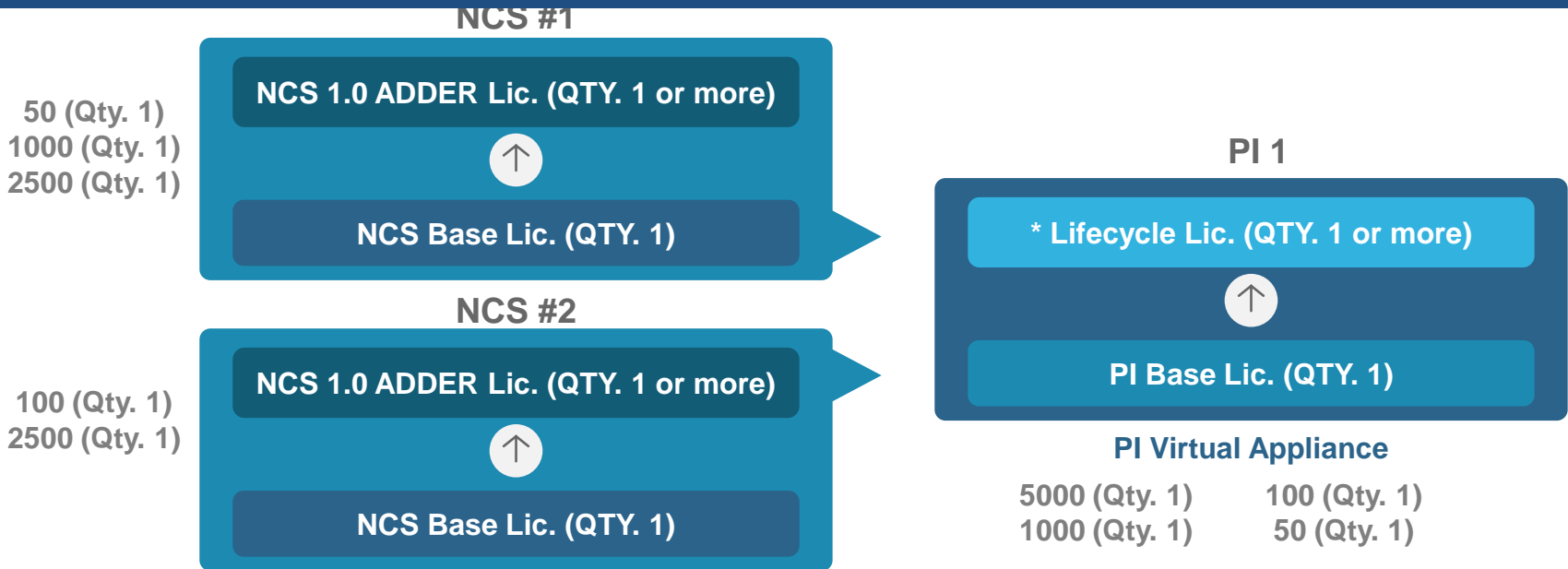
(For Customers **Without** a Valid Support Contract*)



Upgrading from NCS 1.0 to PI 2.x (1 of 3)

Inventory Licenses on NCS 1.0

Use case: Customer has two Cisco® NCS 1.0 servers with a total of 6150 (1 x 50, 1 x 100, 1 x 1000, 2 x 2500) device licenses and wants to consolidate and migrate to Cisco Prime™ Infrastructure 2.x. The customer plans to deploy a virtual appliance and does not need high availability.



Upgrading from NCS 1.0 to PI 2.x (2 of 3)

Licenses to Order

Use case: Customer has two Cisco® NCS 1.0 servers with a total of 6150 (1 x 50, 1 x 100, 1 x 1000, 2 x 2500) device licenses and wants to consolidate and migrate to Cisco Prime™ Infrastructure 2.X. The customer plans to deploy a virtual appliance and does not need high availability.

REQUIRED

1. Start with a TOP-LEVEL NCS 1.0 to PI 2.x migration part number: R-N-PI2X-U-K9 (QTY. = 1)
2. Select the BASE LICENSE part number: L-PI2X-BASE (QTY. = 1)
3. Select the SOFTWARE part number: R-PI22-SW-K9 (QTY. = 1)

Then purchase migration licenses totaling 3600 devices

1. Select NCS 1.0 TO PI 2.X UPGRADE LICENSE part number(s): L-N-PI2X-xxx-U
 - a. L-N-PI2X-5K-U (QTY. = 1)
 - b. L-N-PI2X-1K-U (QTY. = 1)
 - c. L-N-PI2X-100 -U (QTY. = 1)
 - d. L-N-PI2X-50 -U (QTY. = 1)

Lifecycle License
(QTY. 1 or more)



PI Base License
(QTY. 1)

Prime Infrastructure Virtual

Upgrading from NCS 1.0 to PI 2.x (3 of 3)

Example Bill of Materials (BoM)

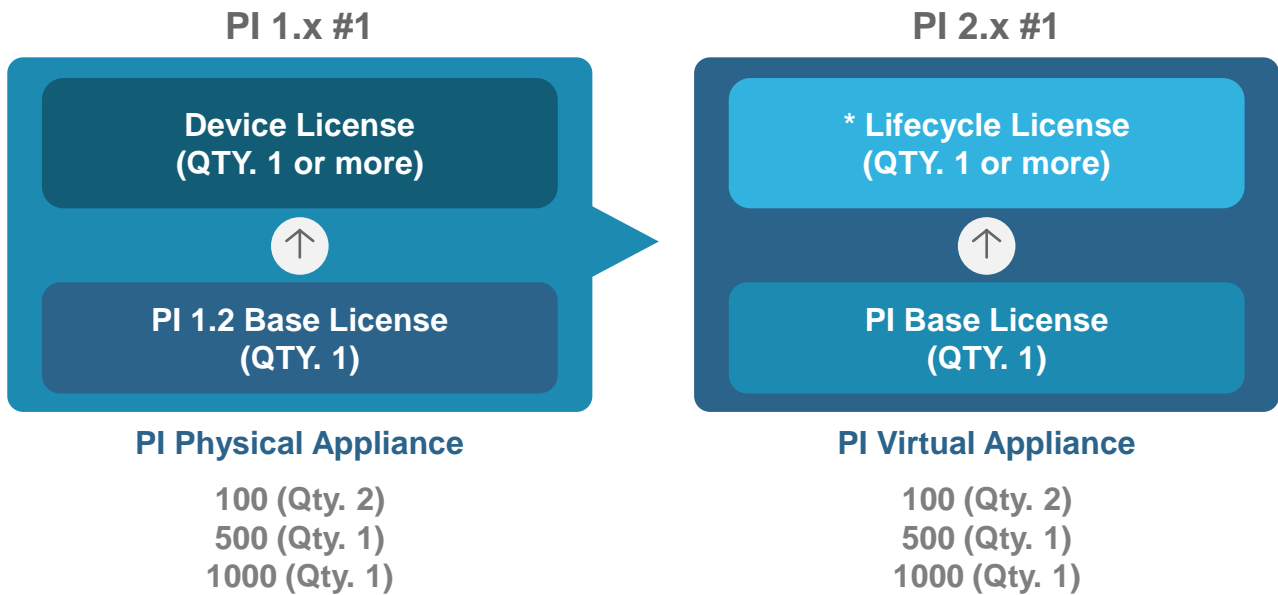
Example BoM #8: Customer has two Cisco® NCS 1.0 servers with a total of 6150 (1 x 50, 1 x 100, 1 x 1000, 2 x 2500) device licenses and wants to consolidate and migrate to Cisco Prime™ Infrastructure 2.x. The customer plans to deploy a virtual appliance and does not need high availability.

Product Part Number	Description	QTY	Services Part Number	Description	QTY
Top-Level Part Number: Upgrade Part Numbers for Existing Cisco NCS 1.0 Customers					
R-N-PI2X-U-K9	NCS 1.0 to Cisco Prime Infrastructure 2.x Upgrade	1			1
Base License					
L-PI2X-BASE	Prime Infrastructure 2.x Base License	1	CON-ECMU-PI2XBASE	SWSS UPGRADES Prime Infrastructure 2.x Base License	1
Prime Infrastructure 2.x Software Options					
R-PI22-SW-K9*	Cisco Prime Infrastructure 2.2 Software	1	CON-ECMU-PI22SW	SWSS UPGRADES Prime Infrastructure 2.2 Software	1
Lifecycle Device Licenses					
L-N-PI2X-50-U	NCS 1.0 to Prime Infrastructure 2.x Upgrade 50 Devices	1	CON-ECMU-PI2XLF50	SWSS UPGRADES PI 2.x - Lifecycle - 50 Device License	1
L-N-PI2X-100-U	NCS 1.0 to Prime Infrastructure 2.x Upgrade 100 Devices	1	CON-ECMU-PI2XLF1H	SWSS UPGRADES PI 2.x - Lifecycle - 100 Device License	1
L-N-PI2X-1K-U	NCS 1.0 to Prime Infrastructure 2.x Upgrade 1000 Devices	1	CON-ECMU-PI2XLF1K	SWSS UPGRADES PI 2.x - Lifecycle - 1000 Device License	1
L-N-PI2X-5K-U	NCS 1.0 to Prime Infrastructure 2.x Upgrade 5000 Devices	1	CON-ECMU-PI2XLF5K	SWSS UPGRADES PI 2.x - Lifecycle - 5000 Device License	1

Upgrading from PI 1.x to PI 2.x (1 or 3)

Inventory Licenses on Prime Infrastructure 1.x

Use case : Customer has Cisco Prime™ Infrastructure 1.3 or 1.4 servers with a total of 1700 (2 x 100, 1 x 500, 1 x 1000) device licenses and wants to migrate to Cisco® Prime Infrastructure 2.X. Currently, a PI 1.3 server is on a physical appliance. The customer plans to deploy a virtual appliance and does not need high availability.



Upgrading from PI 1.x to PI 2.x (2 of 3)

Order PI 1.x to PI 2.x Migration Licenses

Use case : Customer has Cisco Prime™ Infrastructure 1.3 or 1.4 servers with 1700 (2 x 100, 1 x 500, 1 x 1000) device licenses and wants to migrate to Cisco® Prime Infrastructure 2.X. Currently, the PI 1.3 server is on a physical appliance. The customer plans to deploy a virtual appliance and does not need high availability.

REQUIRED

1. Start with the TOP-LEVEL PI 1.x to PI2.x migration part number: R-N-PI2X-U-K9 (QTY. = 1)
2. Select the BASE LICENSE part number: L-PI2X-BASE (QTY. = 1)
3. Select SOFTWARE part number: R-PI22-SW-K9 (QTY. = 1)

Then purchase migration licenses totaling a 1700 devices license

1. Select PI 1.x to PI 2.x Upgrade LICENSE part number(s): L-PI2X-LF-xxx-U
 - a. L-PI2X-LF-100-U (QTY. = 2)
 - b. L-PI2X-LF-500-U (QTY. = 1)
 - c. L-PI2X-LF-1K-U (QTY. = 1)

Upgrading from PI 1.x to PI 2.x (3 or 3)

Example Bill of Materials (BoM)

Example BoM #9: Customer has Cisco Prime™ Infrastructure 1.3 or 1.4 servers with a total of 1700 (2 x 100, 1 x 500, 1 x 1000) device licenses and wants to migrate to Cisco® Prime Infrastructure 2.X. Currently the PI 1.3 server is on a physical appliance. The customer plans to deploy a virtual appliance and does not need high availability.

Product Part Number	Description	QTY	Services Part Number	Description	QTY
Top Level Part Number: Upgrade Part Numbers for Existing Cisco PI 1.x, NCS 1.x Customer					
R-P-PI2X-U-K9	PI 1.x to Cisco Prime Infrastructure 2.x Upgrade	1			1
Base License					
L-PI2X-BASE	Prime Infrastructure 2.x Base License	1	CON-ECMU-PI2XBASE	SWSS UPGRADES Prime Infrastructure 2.x Base License	1
Prime Infrastructure 2.x Software Options					
R-PI22-SW-K9*	Cisco Prime Infrastructure 2.2 Software	1	CON-ECMU-PI22SW	SWSS UPGRADES Prime Infrastructure 2.2 Software	1
Device Licenses					
L-PI2X-LF-100-U	PI 1.x to Prime Infrastructure 2.x Lifecycle Upgrade 100 Devices	2	CON-ECMU-PI2XLF1H	SWSS UPGRADES PI 2.x - Lifecycle – 100 Device License	2
L-PI2X-LF-500-U	PI 1.x to Prime Infrastructure 2.x Lifecycle Upgrade 500 Devices	1	CON-ECMU-PI2XLF5H	SWSS UPGRADES PI 2.x - Lifecycle – 500 Device License	1
L-PI2X-LF-1K-U	PI 1.x to Prime Infrastructure 2.x Lifecycle Upgrade 1000 Devices	2	CON-ECMU-PI2XLF1K	SWSS UPGRADES PI 2.x - Lifecycle – 1000 Device License	2



Upgrading from a Generation 1 to Generation 2 Cisco Prime Infrastructure Physical Appliance

Upgrading from Generation 1 to Generation 2 Prime Infrastructure Physical Appliance (1 of 2)

Use case: A customer with a Cisco® NCS generation-1 physical appliance (PRIME-NCS-APL-K9) wants to upgrade to a generation-2 physical appliance. Customers running earlier NCS or PI versions can upgrade to Gen 2 Phy Appliance.

REQUIRED

1. Start with the **TOP-LEVEL UPG** part number: **PI-UCS-APL-U-K9 (QTY. = N)**
(N = Number of Cisco Prime® Infrastructure server instances that you plan to deploy)
If you are deploying high availability (HA), then order one pair of appliances for each instance.

2. Select the appliance **SOFTWARE** part number: **PI-UCS-APL-IMG-2.2 (QTY. = 1)**

If this selection is not available, please go to CCO Download site to download image and follow the instructions to install this image on the appliance.

An example bill of materials (BoM) is shown in the next slide.

For a full list of SKUs refer to [Appendix B-E](#)

***Note: The generation-2 physical appliance is expected to be available in Q1CY2015.**

If you want to use a generation-1 physical appliance, start with top-level part number PRIME-NCS-APL-K9.

Licenses from gen 1 will be accepted in gen 2 appliance. Please contact TAC if you have problems.

Upgrading from Generation 1 to Generation 2 Prime Infrastructure Physical Appliance (2 of 2)

Example BoM #10: A customer with a Cisco® NCS generation-1 physical appliance (PRIME-NCS-APL-K9) wants to upgrade to a generation-2 physical appliance.

Product Part Number	Description	QTY	Services Part Number	Description	QTY
Top-Level Part Number: Physical Appliance Upgrade (Gen 1 to Gen 2)					
PI-UCS-APL-U-K9	Cisco Prime Physical Appliance Upgrade (Gen 1 to Gen 2)	1	CON-SNT-UCSAPL9	SMARTnet® 8X5XNBD Cisco Prime UCS HW	1
Prime™ Infrastructure 2.x Gen 2 Appliance Software Options					
PI-UCS-IMAGE-2.2	Cisco Prime Infrastructure 2.2 Appliance Software (Gen 2)	1	N/A	N/A	1

*Generation-2 physical appliances are expected to be available in Q1CY2015. If you want to use a generation 1 physical appliance, start with top-level part number PRIME-NCS-APL-K9.

**If you are deploying Cisco Prime Infrastructure in high availability, you will need to purchase two servers (QTY. = 2)/



Upgrading from Cisco WCS Navigator to Cisco Prime Infrastructure Operations Center

Upgrading from WCS Navigator to PI Operations Center* (1 of 2)

Use case: Customer had purchased a WCS Navigator License. Customer has deployed multiple instances of Prime™ Infrastructure 2.1 or 2.2 and wants to deploy a PI Operations Center to manage those PI instances centrally.

REQUIRED

1. Start with TOP-LEVEL part number: R-PI2X-N-K9 (QTY. = 1)
2. Select SOFTWARE part number R-PI22-SW-K9 (QTY. = 1)
3. If deploying an operations center with the physical appliance select SOFTWARE part number: PI-UCS-IMAGE-2.2 (QTY. = 1)
4. Select the OPER CNTR BASE LICENSE part number: L-PI2X-OC-BASE (QTY. = 1)
5. Select the OPER CNTR SERVER UPGRADE LICENSE part number: L-PI2X-OPRCTR-U-1 (QTY. = n)
(QTY. and type depend on the number of Cisco® Prime Infrastructure instances)

OPTIONAL

1. Select HIGH-AVAILABILITY part number: L-PI2X-HA (QTY. = 1)
2. Order **additional services** (a 1-year mandatory services contract is attached)

PI Operations Center (Upg)
Device License
(QTY. 1 or more)



PI Oper Cntr
Base Lic (QTY 1)

PI Virtual or Physical Appliance

[Example BoM 1](#)

For a full list of SKUs refer to
[Appendix B-E](#)

Note: There is no Migration of data from WCS Navigator to PI Oper Center since WCS navigators manage WCS instances and PI Oper Center manages PI instances

Upgrading from WCS Navigator to PI Operations Center (2 of 2)

Example BoM #11: Customer had purchased a WCS Navigator License. Customer has deployed multiple instances of Prime™ Infrastructure 2.1 or 2.2 and wants to deploy a PI Operations Center to manage those PI instances centrally.

Product Part Number	Description	QTY	Services Part Number	Description	QTY
Top-Level Part Number					
R-PI2X-N-K9	Cisco® Prime Infrastructure 2.x - Not Node Locked	1			
Base License					
L-PI2X-OC-BASE-K9	Prime Infrastructure 2.x Oper Cntr Base	1	CON-ECMU-PI2XOBASE	SWSS UPGRADES Prime Infrastructure 2.x OC Base License	1
Operations Center Server Upgrade License Options					
L-PI2X-OPRCTR-U-1	Prime Infrastructure 2.x - Oper Cntr Upg From WCS Nav-1 Srv	n	CON-ECMU-PI2XOC-U	SWSS UPGRADES for PI 2.x - Oper Cntr Upg From WCS Nav - 1 Srv	n

If deploying Operations Center in a virtual appliance:

Prime Infrastructure 2.x Software Options					
R-PI22-SW-K9*	Cisco Prime Infrastructure 2.2 Software	1	CON-ECMU-PI22SW	SWSS UPGRADES Prime Infrastructure 2.2 Software	1

If deploying Operations Center in a physical appliance:

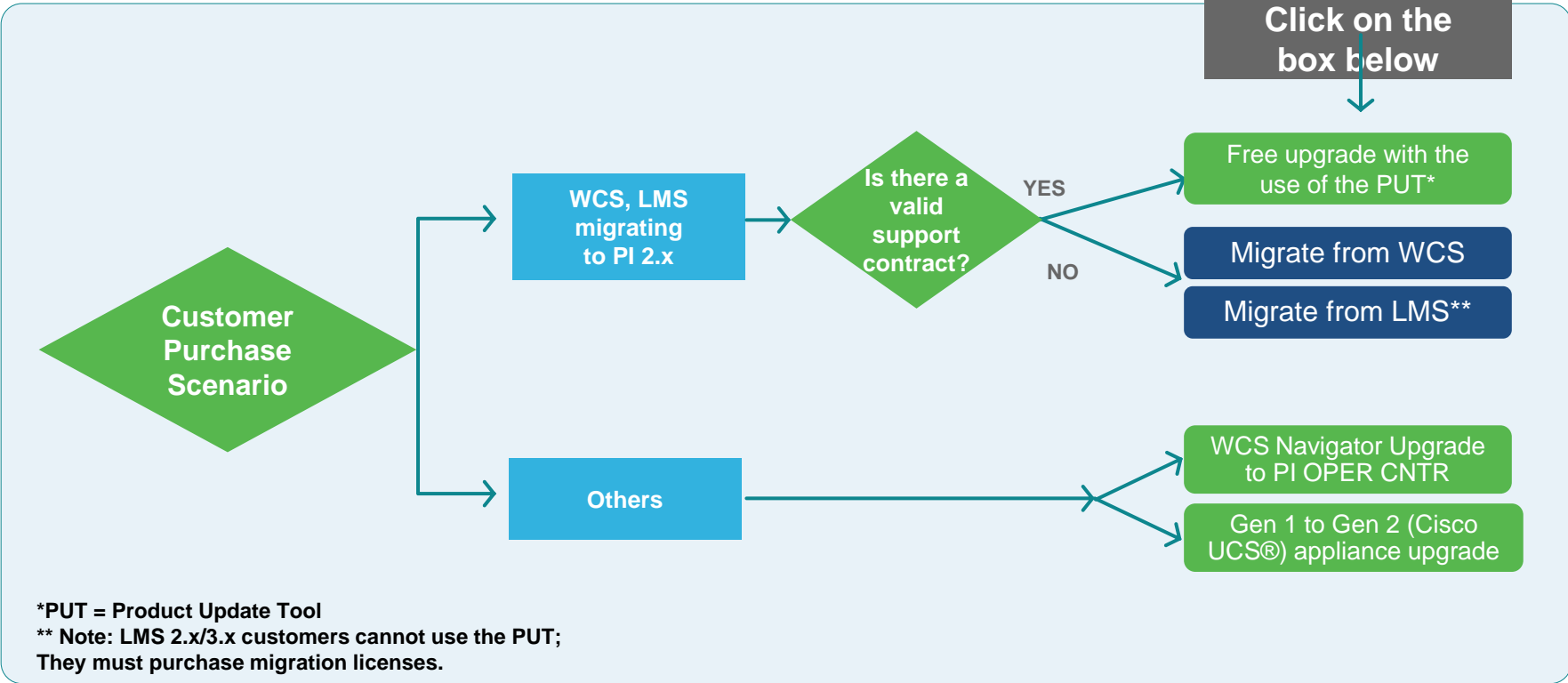
Product Part Number	Description	QTY	Services Part Number	Description	QTY
Top-Level Part Number: Physical Appliance (Gen 2)					
PI-UCS-APL-K9	Prime Infrastructure UCS® Hardware Appliance (Gen 2)	1	CON-SNT-UCSAPL9	SMARTnet® 8X5XNBD Cisco Prime UCS HW	1
Prime Infrastructure 2.x Gen 2 Appliance Software Options					
PI-UCS-IMAGE-2.2	Cisco Prime Infrastructure 2.2 Appliance Software (Gen 2)	1	N/A	N/A	1

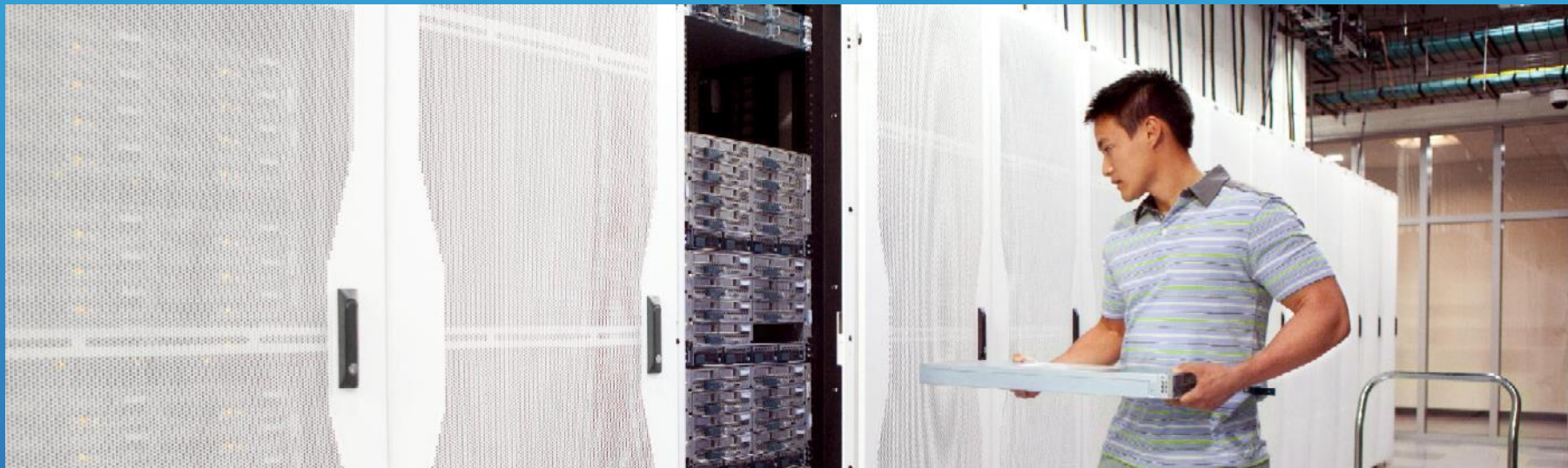


Part 2

Migrating from Legacy Products (WCS, LMS) to Cisco Prime Infrastructure 2.x

Migration to Prime Infrastructure 2.x





Migrating from WCS to Cisco Prime Infrastructure 2.x

Migrating from WCS to PI 2.x

Eligible and Non-eligible WCS Device Part Numbers

WCS Part Numbers **ARE** Eligible for Migration to PI 2.x

WCS-ENT-PLUS-K9 (Enterprise Plus Licenses for large-scale deployments)	
Part Number	SAU Part Number
WCS-ENT-PLUS-1000	CON-SAU-WENTP1K
WCS-ENT-PLUS-2500	CON-SAU-WENTP2K
WCS-ENT-PLUS-10000	CON-SAU-WENTP10K
WCS-ENT-PLUS-50000	CON-SAU-WENTP50K

WCS-STANDARD-K9 (Cisco WCS Base License for <NNN> APs, Windows/Linux)	
Cisco WCS Base License for <NNN> APs, Windows/Linux	
Part Number	SAU Part Number
WCS-APBASE-50	CON-SAU-WCSAB50
WCS-APBASE-100	CON-SAU-WCSAB1C
WCS-APBASE-500	CON-SAU-WCSAB5C

WCS-STANDARD-K9 (Cisco® WCS Base License for <NNN> APs, Windows/Linux)	
Cisco® WCS with Plus License for mobility services enablement and high availability for <NN>APs, Windows/Linux	
Part Number	SAU Part Number
WCS-PLUS-50	CON-SAU-WCSP50
WCS-PLUS-100	CON-SAU-WCSP100
WCS-PLUS-500	CON-SAU-WCSP500

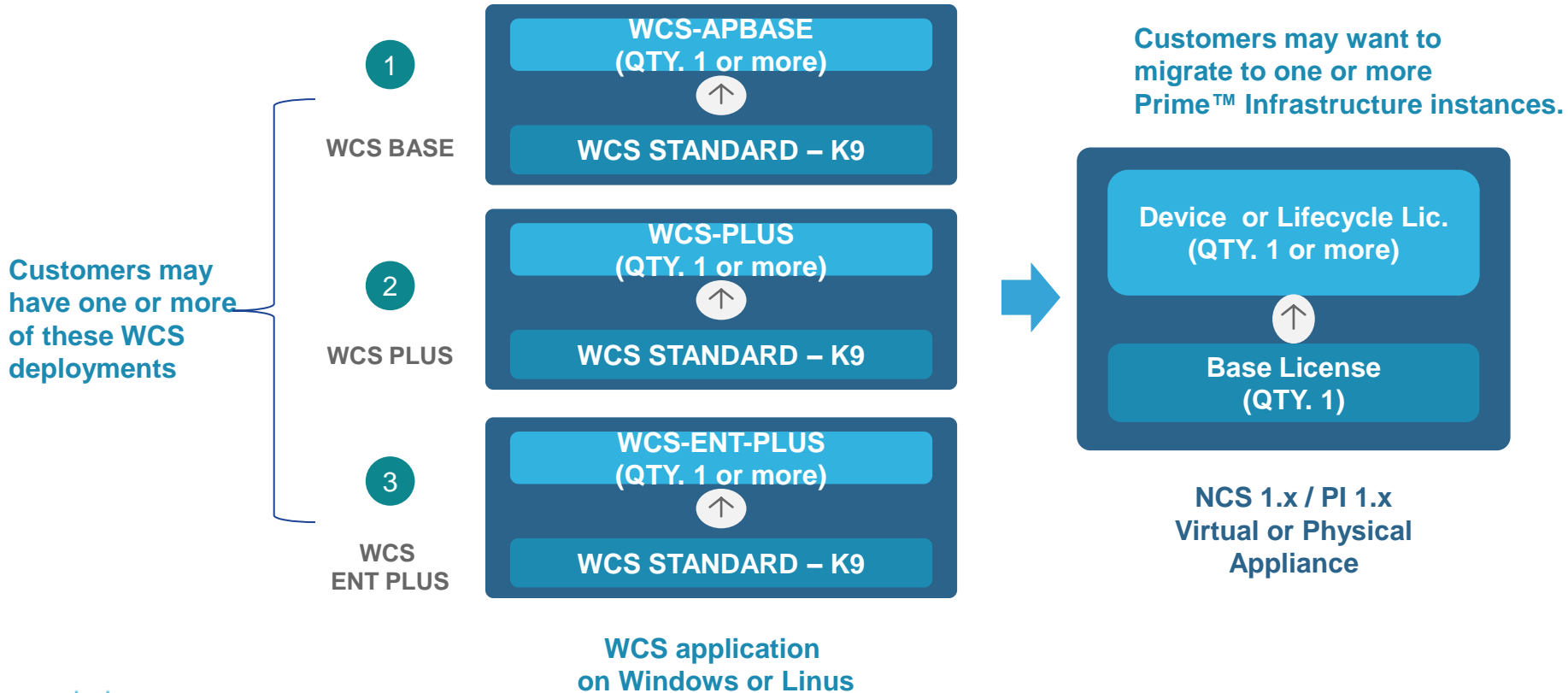
WCS-NAV-K9 (family SKU for WCS Navigator License products)	
Part Number	SAU Part Number
WCS-NAV-20 (WCS Navigator for 20 WCSs)	CON-SAU-WCSNAV20

WCS SKUs **NOT** Eligible for Migration (these part numbers have been EoS/EoL'ed)

Part Numbers	Description	EoL/EoS
WCS-APLOC-xxxx (xxxx = 50, 100, 500, 1000, 2500)	Option of WCS-Standard-K9 500 AP location. License only.	Feb. 28, 2013
AIR-WCS-LL-S-UG-K9	Cisco WCS Base to Location Site License upgrade, Linux	Feb. 28, 2013
WCS-APLOC-UPG-xxxx (xxxx = 50, 100, 500, 1000, 2500)	Upgrade WCS 100 AP to location	Feb. 28, 2013
WCS-ENT-xxxxx (xxxxx = 1000, 2500, 10000, 50000)	Enterprise License with location for xxxx APs	Feb. 28, 2013
WCS-ENT-K9	Family SKU for WCS Enterprise	Feb. 28, 2013
WCS-WLSE-APL-xxxx(xxxx = 50, 100, 500, 1000, 2500)	Option WLSE to WCS xxxx APs	Feb. 28, 2013

Licensing Models

Wireless Control System (WCS) Compared to Cisco Prime Infrastructure



Customers may have one or more of these WCS deployments

Customers may want to migrate to one or more Prime™ Infrastructure instances.

WCS application on Windows or Linus

Migrating from WCS to Prime Infrastructure 2.x

WCS to PI 2.x Migration Scenarios

→ [Click here](#)

One-to-One Migration



- Customer has a single WCS server and wants to upgrade to a single Cisco Prime™ Infrastructure server, a physical appliance, and high availability.

→ [Click here](#)

Many-to-Many Migration (no consolidation)



- Customer has two WCS servers and wants to upgrade to two Cisco® Prime Infrastructure servers, a virtual appliance, but no high availability.

→ [Click here](#)

Many-to-One Migration (with consolidation)



- Customer has two WCS servers and wants to consolidate and upgrade to a single Prime Infrastructure server, a virtual appliance, but no high availability.

One-to-One Migration of WCS to PI 2.x (1 of 4)

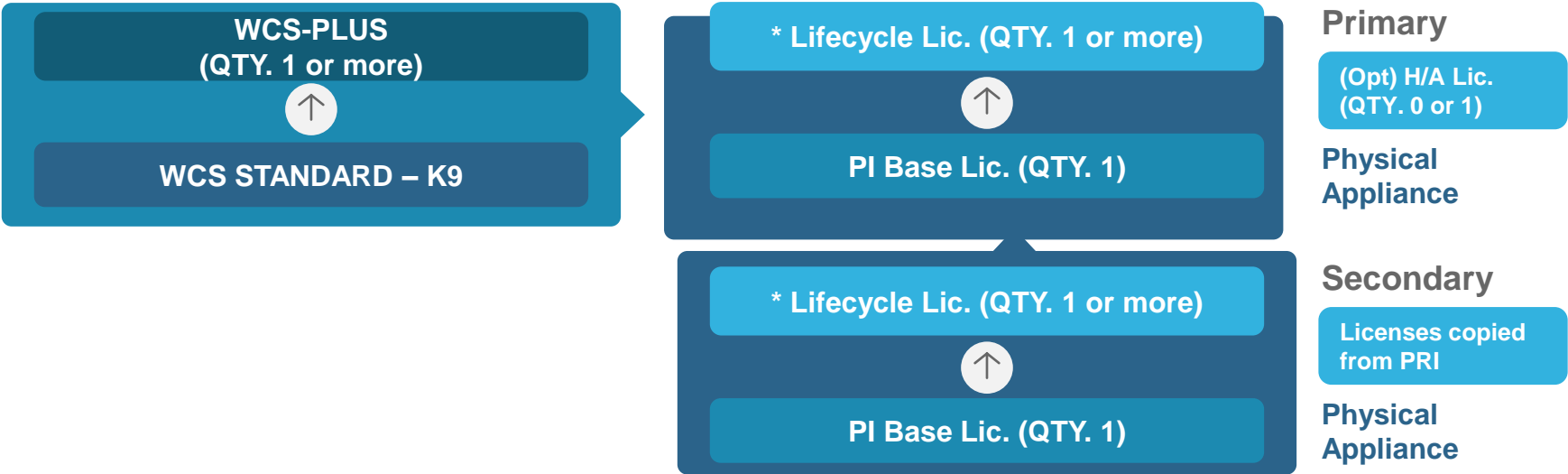
Taking License Inventory

Use case:

Customer has a single WCS server managing 2400 devices, and the following WCS licenses:

- WCS-PLUS-100 (Qty. 4) = 400 device licenses
- WCS-PLUS-500 (Qty. 4) = 2000 device licenses

Customer wants to migrate its single WCS instance to one Prime™ Infrastructure 2.x server on a physical appliance with high availability. In this case, the customer, needs to order the following licenses:



One-to-One Migration of WCS to PI 2.x (2 of 4)

Identifying Migration Part Numbers

Use case:

Customer has a single WCS server managing 2400 devices, and the following WCS licenses:

- WCS-PLUS-100 (Qty. 4) = 400 device licenses
- WCS-PLUS-500 (Qty. 4) = 2000 device licenses

Customer wants to migrate its single WCS instance to one Prime™ Infrastructure 2.x server on a physical appliance with high availability. In this case, the customer, needs to order the following licenses:

(REQUIRED)

1. Start with TOP-LEVEL WCS to PI 2.x migration part number: R-W-PI2X-U-K9 (QTY. = 1)
2. Select the BASE LICENSE part number: L-PI2X-BASE (QTY. = 1)
3. Select the SOFTWARE part number: R-PI22-SW-K9 (QTY. = 1)
4. Select the HIGH AVAILABILITY part number: L-PI2X-HA (QTY. = 1)
5. To order a physical appliance, start with and select TOP-LEVEL part number: PI-UCS-APL-K9 (QTY. = 2)
6. Select appliance SOFTWARE part number: PI-UCS-IMAGE-2.2 (QTY. = 1)

Then purchase migration licenses totaling 2400 device licenses

1. Select migration license part number(s): L-W-PI2X-xxx-U
 - a. L-W-PI2X-1K-U (QTY. = 2)
 - b. L-W-PI2X-100-U (QTY. = 4)

One-to-One Migration of WCS to PI 2.x (3 of 4)

Example BoM

Use case:

Customer has a single WCS server managing 2400 devices, and the following WCS licenses:

- WCS-PLUS-100 (Qty. 4) = 400 device licenses
- WCS-PLUS-500 (Qty. 4) = 2000 device licenses

Customer wants to migrate its single WCS instance to one Prime™ Infrastructure 2.x server on a physical appliance with high availability. In this case, the customer, needs to order the following licenses:

Product Part Number	Description	QTY	Services Part Number	Description	QTY
Top-Level Part Number: Upgrade Part Numbers for Existing Cisco WCS Customers					
R-W-PI2X-U-K9	WCS to Cisco® Prime Infrastructure 2.x Upgrade	1			1
Base License					
L-PI2X-BASE	Cisco Prime Infrastructure 2.x Base License	1	CON-ECMU-PI2XBASE	SWSS UPGRADES Prime Infrastructure 2.x Base License	1
Prime Infrastructure 2.x Software Options					
R-PI22-SW-K9*	Cisco Prime Infrastructure 2.2 Software	1	CON-ECMU-PI22SW	SWSS UPGRADES Prime Infrastructure 2.2 Software	1
Prime Infrastructure 2.x High Availability (RTU)					
L-PI2X-HA	Prime Infrastructure 2.x – High Availability RTU	1	CON-ECMU-PI2XHA	SWSS UPGRADES PI 2.x - High Availability RTU	1
Lifecycle Device Licenses					
L-W-PI2X-100-U	WCS to Prime Infrastructure 2.x Upgrade 100 Devices	4	CON-ECMU-PI2XLF1H	SWSS UPGRADES PI 2.x - Lifecycle - 100 Device License	4
L-W-PI2X-1K-U	WCS to Prime Infrastructure 2.x Upgrade 1000 Devices	1	CON-ECMU-PI2XLF1K	SWSS UPGRADES PI 2.x - Lifecycle - 1000 Device License	1

Continued

One-to-One Migration of WCS to PI 2.x (4 of 4)

Example BoM

Example BoM 12b: (Optional; only necessary when deploying Prime™ Infrastructure on a physical appliance)
 For ordering a physical appliance (Generation 2)*:

Product Part Number	Description	QTY	Services Part Number	Description	QTY
Top-Level Part Number: Physical Appliance (Generation 2)					
PI-UCS-APL-K9*	Prime Infrastructure UCS® Hardware Appliance (Gen 2)	1*	CON-SNT-UCSAPL9	SMARTnet® 8X5XNBD Cisco Prime UCS HW	2
Prime Infrastructure 2.x Generation 2 Appliance Software Options					
PI-UCS-IMAGE-2.2	Cisco® Prime Infrastructure 2.2 Appliance Software (Gen 2)	1	N/A	N/A	

*Note: Generation-2 physical appliances are expected to be available in Q1CY2015.
 If you want to use a generation-1 physical appliance start with the top-level part number, PRIME-NCS-APL-K9.

Many-to-Many Migration of WCS to PI 2.x (1 of 3)

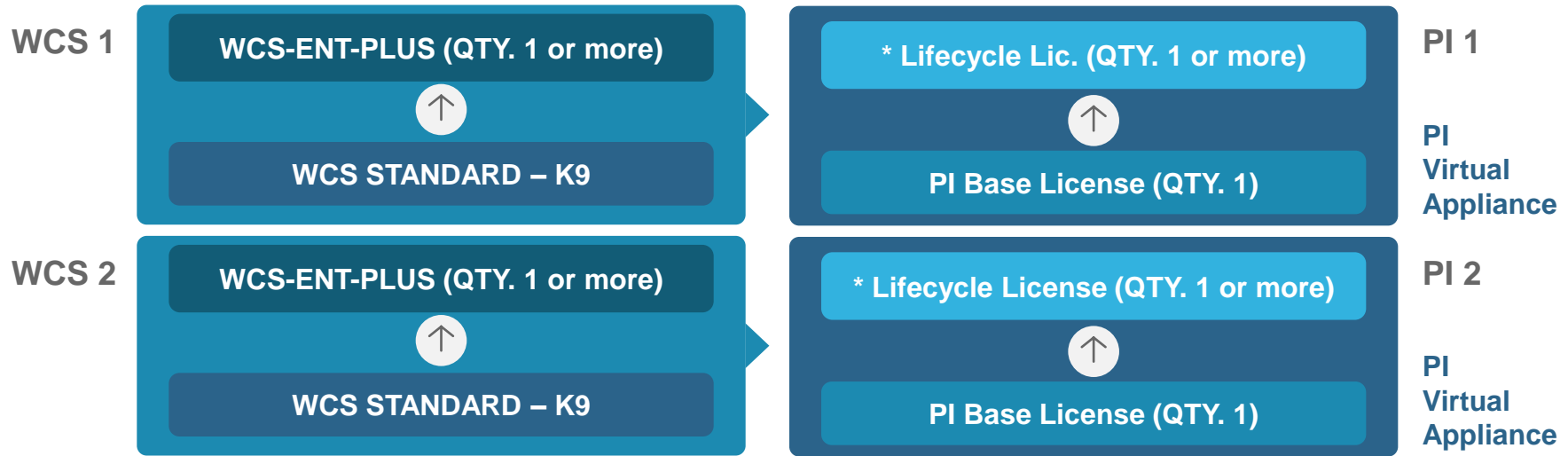
Inventory of Existing WCS Licenses

Use case:

Customer has two WCS servers managing 4500 devices.

- WCS 1: WCS-ENT-PLUS-1000 (qty 2): A total of 2000 devices license for managing a network in the AMERICAS region
- WCS 2: WCS-ENT-PLUS-2500 (qty 1): A total of 2500 devices license for managing a network in ASIA, EUROPE, etc.

Customer wants to purchase two Prime™ Infrastructure servers and migrate the WCS instances to these two separate instances. Customers wants to deploy this in virtual appliances without high availability.



Many-to-Many Migration of WCS to PI 2.x (2 of 3)

Identify Migration Part Numbers

Use case:

Customer has two WCS servers managing 4500 devices.

- WCS 1: WCS-ENT-PLUS-1000 (qty 2): A total of 2000 devices license for managing a network in the AMERICAS region
- WCS 2: WCS-ENT-PLUS-2500 (qty 1): A total of 2500 devices license for managing a network in ASIA

Customer wants to purchase two Prime™ Infrastructure servers and migrate the WCS instances to these two separate instances. Customers wants to deploy this in virtual appliances without high availability.

For PI Instance #1



REQUIRED

1. Start with TOP-LEVEL WCS to PI 2.x migration part number: R-W-PI2X-U-K9 (QTY. = 1)
2. Select the BASE LICENSE part number: L-PI2X-BASE (QTY. = 1)
3. Select the SOFTWARE part number R-PI22-SW-K9 (QTY. = 1)

Then purchase migration licenses totaling a 2000 devices license

1. Select Migration License part number(s):
L-W-PI2X-xxx-U
 - a. L-W-PI2X-1K-U (QTY. = 2)

For PI Instance #2



REQUIRED

1. Start with TOP-LEVEL WCS to PI 2.x migration part number: R-W-PI2X-U-K9 (QTY. = 1)
2. Select the BASE LICENSE part number: L-PI2X-BASE (QTY. = 1)
3. Select the SOFTWARE part number: R-PI22-SW-K9 (QTY. = 1)

Then purchase migration licenses totaling a 2500 devices license

1. Select Migration License part number(s):
L-W-PI2X-xxx-U
 - a. L-W-PI2X-2.5K-U (QTY. = 1)

Many-to-One Migration of WCS to PI 2.x (1 of 3)

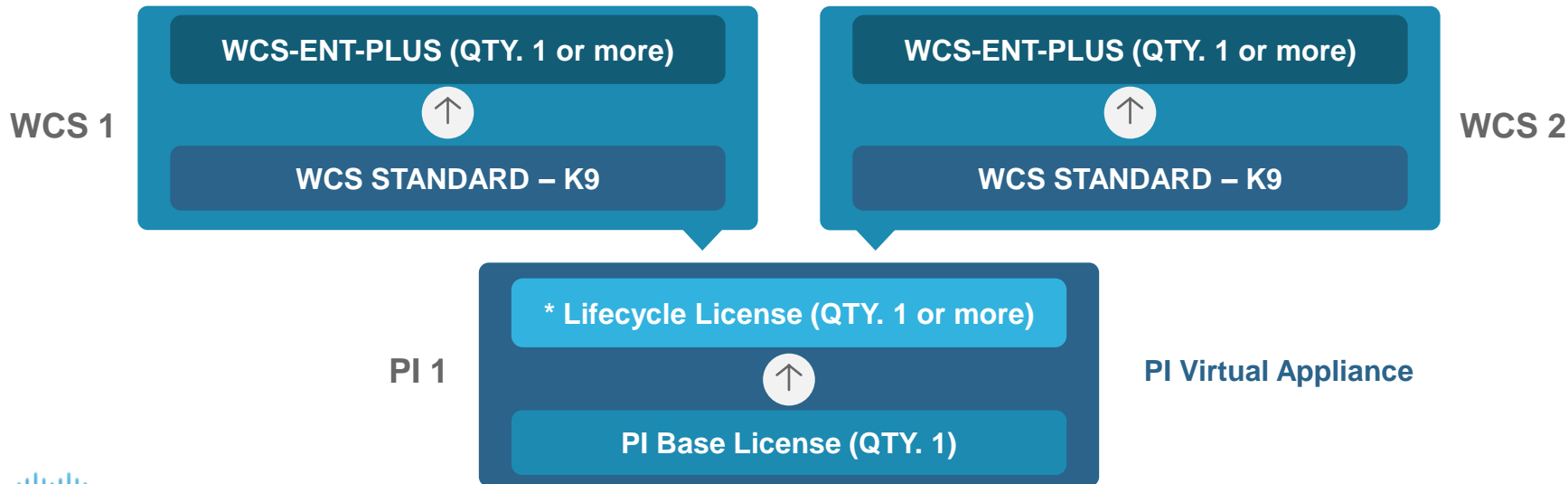
Inventory of Existing WCS Licenses

Example:

Customer has two WCS servers managing 4500 devices.

- WCS 1: WCS-ENT-PLUS-1000 (qty 2): A total of 2000 devices license for managing a network in the Americas Eastern Region
- WCS 2: WCS-ENT-PLUS-2500 (qty 1): At total of 2500 devices license for managing a network in the Americas Western Region

Customer wants to consolidate and deploy only one instance of Prime™ Infrastructure, and migrate the WCS instances to this server. Customer wants to deploy this in virtual appliances without high availability.



Many-to-One Migration of WCS to PI 2.x (2 of 3)

Identify Migration Part Numbers

Example:

Customer has two WCS servers managing 4500 devices.

- WCS 1: WCS-ENT-PLUS-1000 (qty 2): A total of 2000 devices license for managing a network in Americas Eastern region
 - WCS 2: WCS-ENT-PLUS-2500 (qty 1): At total of 2500 devices license for managing a network in Americas Western region
- Customer wants to consolidate and deploy only one instance of Prime™ Infrastructure, and migrate the WCS instances to this server. Customer wants to deploy this in virtual appliances without high availability.

PI 1 →

REQUIRED

1. Start with TOP-LEVEL WCS to PI 2.x migration part number: R-W-PI2X-U-K9 (QTY. = 1)
2. Select the BASE LICENSE part number: L-PI2X-BASE (QTY. = 1)
3. Select the SOFTWARE part number R-PI22-SW-K9 (QTY. = 1)

Then purchase migration licenses totaling 4500 device licenses.

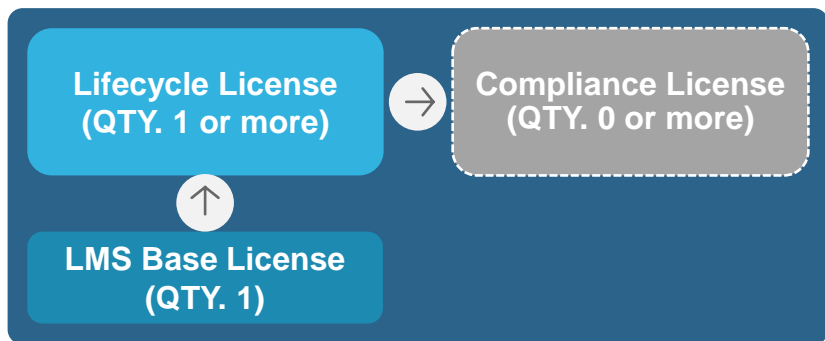
1. Select Migration License part number(s): L-W-PI2X-xxx-U
 - a. L-W-PI2X-1K-U (QTY. = 2)
 - b. L-W-PI2X-2.5K-U (QTY. = 1)



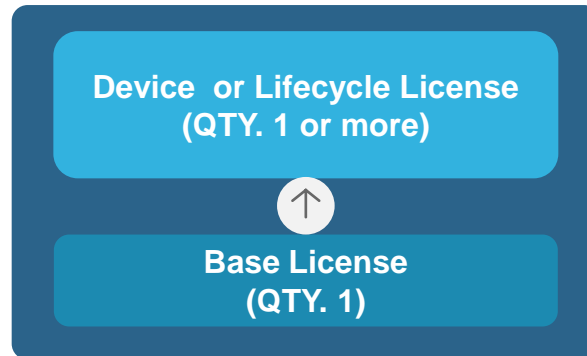
Migrating from LMS to Cisco Prime Infrastructure 2.x

Licensing Models

LAN Management System (LMS) Comparison with Prime Infrastructure



LMS
Virtual or Physical Appliance



NCS 1.x / PI 1.x
Virtual or Physical Appliance

Optional
Part Numbers

Customers Migrating from LMS to PI 2.x (1 or 2)

Inventory Existing LMS Licenses and Identify Migration Part Numbers

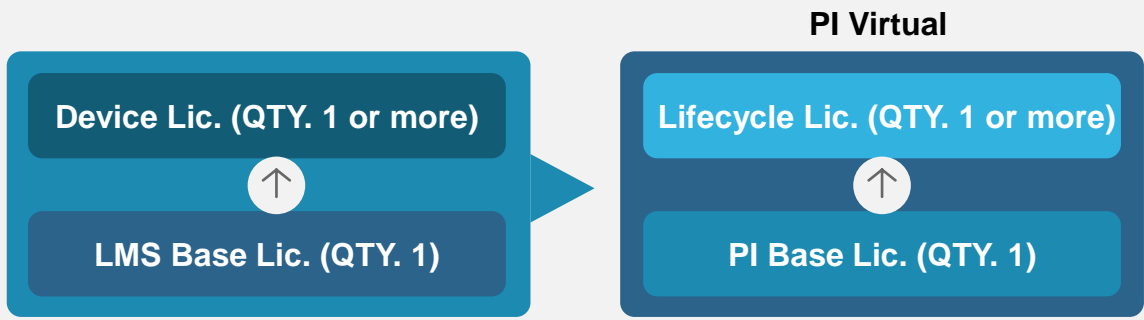
Use case: Customer has a single LMS server with a total of 3600 (1 x 100, 3 x 500, 3 x 1000 device licenses and wants deploy and migrate to a single Cisco Prime™ Infrastructure Release 2.x. Customer plans to deploy a virtual appliance and does not need high availability.

REQUIRED

1. Start with the TOP-LEVEL LMS to PI migration part number: R-L-PI2X-U-K9 (QTY. = 1)
2. Select the BASE LICENSE part number: L-PI2X-BASE (QTY. = 1)
3. Select the SOFTWARE part number R-PI22-SW-K9 (QTY. = 1)

Then purchase migration licenses totaling 3600 device licenses.

1. Select LMS to PI MIGRATION LICENSE part number(s): L-L-PI2X-xxx-U
 - a. L-L-PI2X-100-U (QTY. = 1)
 - b. L-L-PI2X-500-U (QTY. = 1)
 - c. L-L-PI2X-1K-U (QTY. = 3)



Customers Migrating from LMS to PI 2.x (1 or 2)

Example BoM

Example BoM #13: Customer has one or more LMS servers with a total of 6600 (1 x 100, 3 x 500, 3 x 1000 device licenses) and wants to consolidate and migrate to Cisco Prime™ Infrastructure 2.x. Customer plans to deploy a virtual appliance and does not need high availability.

Product Part Number	Description	QTY	Services Part Number	Description	QTY
Top-Level Part Number: Upgrade Part Numbers for Existing Cisco® LMS Customers					
R-L-PI2X-U-K9	LMS to Cisco Prime Infrastructure 2.x Upgrade	1			1
Base License					
L-PI2X-BASE	Prime Infrastructure 2.x Base License	1	CON-ECMU-PI2XBASE	SWSS UPGRADES Prime Infrastructure 2.x Base License	1
Prime Infrastructure 2.x Software Options					
R-PI22-SW-K9*	Cisco Prime Infrastructure 2.2 Software	1	CON-ECMU-PI22SW	SWSS UPGRADES Prime Infrastructure 2.2 Software	1
Device Licenses					
L-L-PI2X-100-U	LMS to Prime Infrastructure 2.x Upgrade 100 Device	1	CON-ECMU-PI2XLF1H	SWSS UPGRADES PI 2.x - Lifecycle - 100 Device License	1
L-L-PI2X-500-U	LMS to Prime Infrastructure 2.x Upgrade 500 Device	3	CON-ECMU-PI2XLF5H	SWSS UPGRADES PI 2.x - Lifecycle - 500 Device License	3
L-L-PI2X-1K-U	LMS to Prime Infrastructure 2.x Upgrade 1000 Device	5	CON-ECMU-PI2XLF1K	SWSS UPGRADES PI 2.x - Lifecycle - 1000 Device License	5



Appendix A

Cisco Prime Infrastructure 2.x

Scale and Sizing Guidelines

Prime Infrastructure 2.x

Scale and Sizing Guidelines (1 of 2)

		Virtual Appliance Options				Physical Appliance Options	
Appliance image format		OVA	OVA	OVA	OVA	Bare Metal/ISO	Bare Metal/ISO
VM ESXi version*		5.0/5.1/5.5	5.0/5.1/5.5	5.0/5.1/5.5	5.0/5.1/5.5		
Equivalent PI 1.x		Small	Medium	Large	Extra Large	Phys Appl	Phys Appl
PI 2.x =>		EXP	EXP-PLUS	STD	PRO	Gen 1	Gen 2**
System Requirements	CPU (cores, vCPUs)	4 vCPU	8 vCPU	16 vCPU	16 vCPU	8 C/16 T	10 C/20 T
	Memory	12 GB	16 GB	16 GB	24 GB	16 GB	64 GB
	Disk capacity and RAID level	300 GB	600 GB	900 GB	1,200 GB	4 * 300 GB RAID 5	8 * 900 GB RAID 10
	Disk I/O speed	200 MBps	200 MBps	200 MBps	200 MBps	200 MBps	200 MBps
Devices	Maximum unified AP	300	2500	5000	20,000	5000	20,000
	Maximum autonomous AP	300	500	3000	3000	3000	3000
	Maximum WLAN controllers	5	50	500	1000	500	1000
	Maximum wired (switches, routers)	300	1000	6000	13,000	6000	13,000
	Maximum MSE	10	10	10	25	10	25
	NAMs	5	5	500	1,000	500	1000
	Maximum number of devices	1000	3000	10,000	20,000	10,000	20,000

*ESXi 4.x is no longer supported

**Gen 2 Cisco UCS®-based physical appliance will be available in Q1CY2015

***Max groups: user-defined plus out of the box plus device groups plus port groups)

Continued

Prime Infrastructure 2.x

Scale and Sizing Guidelines (2 of 2)

		Virtual Appliance Options				Physical Appliance Options	
Appliance image format		OVA	OVA	OVA	OVA	Bare Metal/ISO	Bare Metal/ISO
VM ESXi version*		5.0/5.1/5.5	5.0/5.1/5.5	5.0/5.1/5.5	5.0/5.1/5.5		
Equivalent PI 1.x		Small	Medium	Large	Extra Large	Phys Appl	Phys Appl
PI 2.x =>		EXP	EXP-PLUS	STD	PRO	Gen 1	Gen 2**
Clients	Wired clients	5,000	50,000	50,000	50,000	50,000	50,000
	Wireless clients	5,000	30,000	75,000	200,000	75,000	200,000
	Changing clients (every 5 min.)	1000	5000	25,000	40,000	25,000	40,000
Monitoring	Events sustained rate (events/sec)	100	100	300	1000	300	1000
	NetFlow rate (flows/sec)	3000	3000	16,000	80,000	16,000	80,000
	Max interfaces	12,000	50,000	250,000	350,000	250,000	350,000
	Max NAM data polling enabled	5	5	20	40	20	40
System	Max number sites/campus	200	500	2500	2500	2500	2500
	Max groups***	50	100	150	150	150	150
	Max virtual domains	100	500	1200	1200	1200	1200
System Users	Concurrent GUI clients	5	10	25	50	25	50
	Concurrent API clients	2	2	5	5	5	5

*ESXi 4.x is no longer supported.

**Gen 2 Cisco UCS®-based physical appliance will be available in Q1CY2015

***Max groups: user-defined + out of the box + device groups + port groups)



Appendix B

Cisco Prime Infrastructure 2.x

Licensing Overview

Cisco Prime Infrastructure 2.x (2.0, 2.1, 2.2)

Licensing Overview



Cisco Prime™ Infrastructure (PI) provides a single, integrated solution for complete lifecycle management of Cisco® routers, switches, and wireless devices, along with deep visibility into the end-user experience and application performance.



PI 2.2 release will be available in December 2014. Customers should deploy this version to get the latest enhancements and continued quality improvements.

Greenfield Customers



Customer Segment

Customers purchasing Cisco Prime™ Infrastructure for the first time

Greenfield Deployment



PI 2.2*

- *Cisco® Prime Infrastructure 2.1 and 2.2 also include the software and licenses to use Cisco Prime LMS 4.2.

Upgrading from NCS 1.x, PI 1.x, PI 2.0, PI 2.1 (1 of 2)

(For Customers with a Valid Support Contract*)



Customer Segment

Customers with valid services contracts (no additional license is required**)

Existing NCS 1.0, 1.1
Existing Prime™ Infrastructure 1.2,
1.3.X



PI 2.0



PI 2.1



FCS
Dec. 2014

PI 2.2

Existing PI 1.4.X
Existing PI 2.1.X

- *The support contract could be SASU or UCSS/ESW.
- **With backup and restore of the NCS or PI data, the licenses automatically migrate from NCS 1.x / PI 1.x / PI 2.x to PI 2.2.

Upgrading from NCS 1.x, PI 1.x, PI 2.0, PI 2.1 (2 of 2)

(For Customers Without a Valid Support Contract*)

→ Customer Segment

Customers without a valid services contract need to purchase migration licenses.

Existing NCS 1.0, 1.1
Existing PI 1.2, 1.3.X

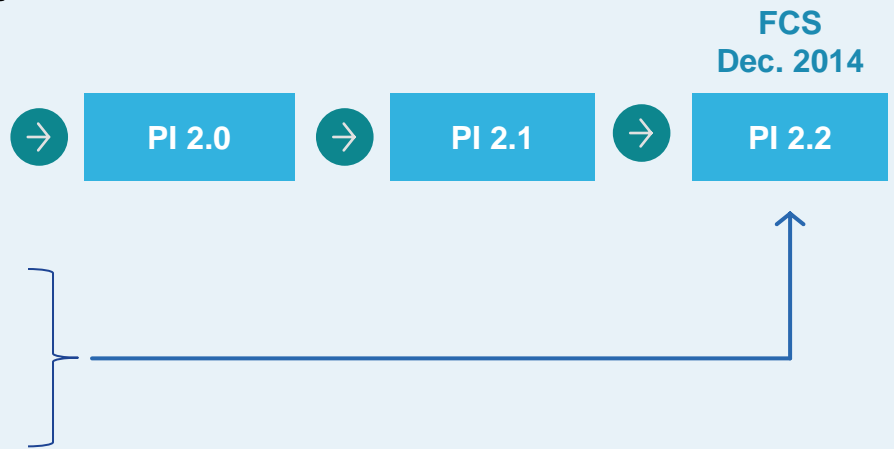
Purchase 1.X to 2.x migration licenses*

Existing PI 1.4.X

Purchase 1.X to 2.x migration licenses*

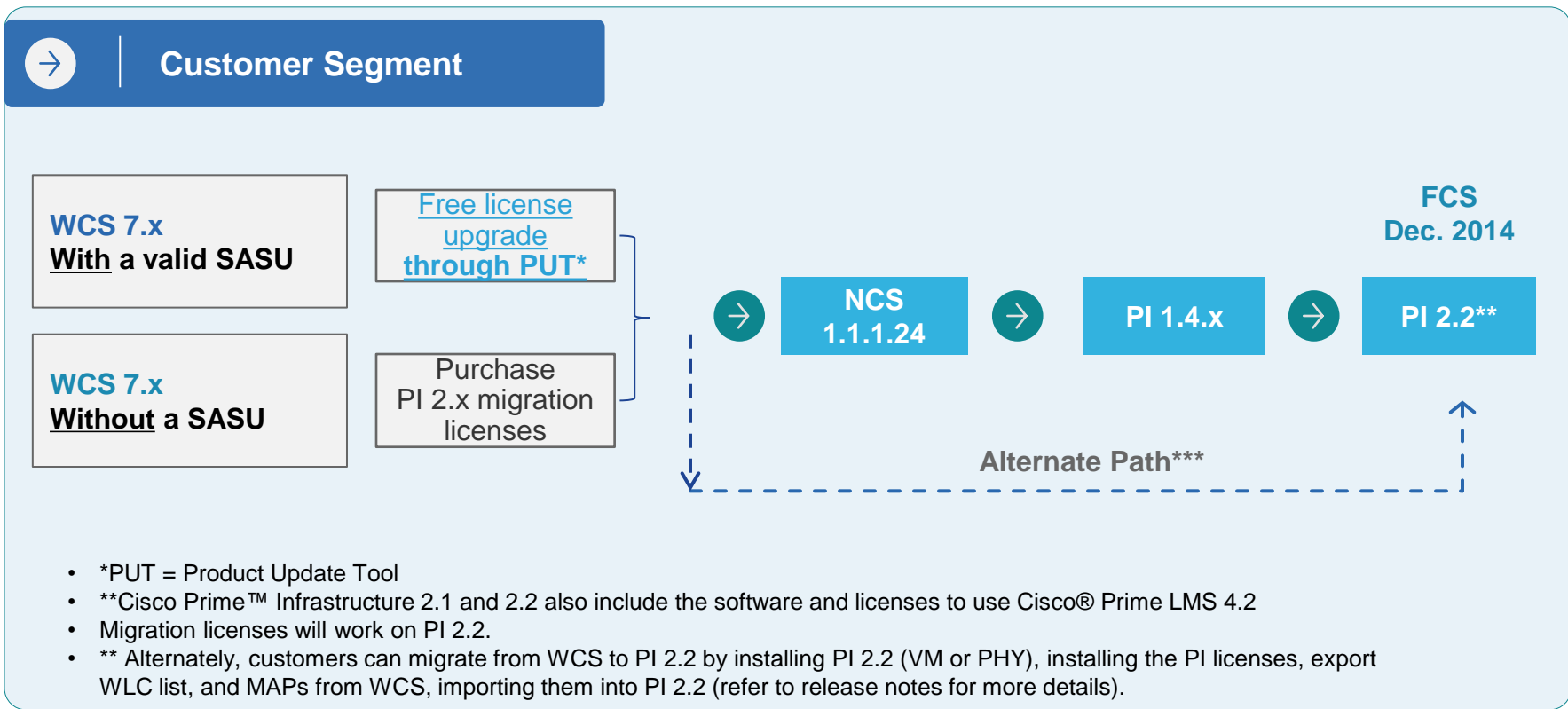
Existing PI 2.0 / 2.1

Purchase a support contract



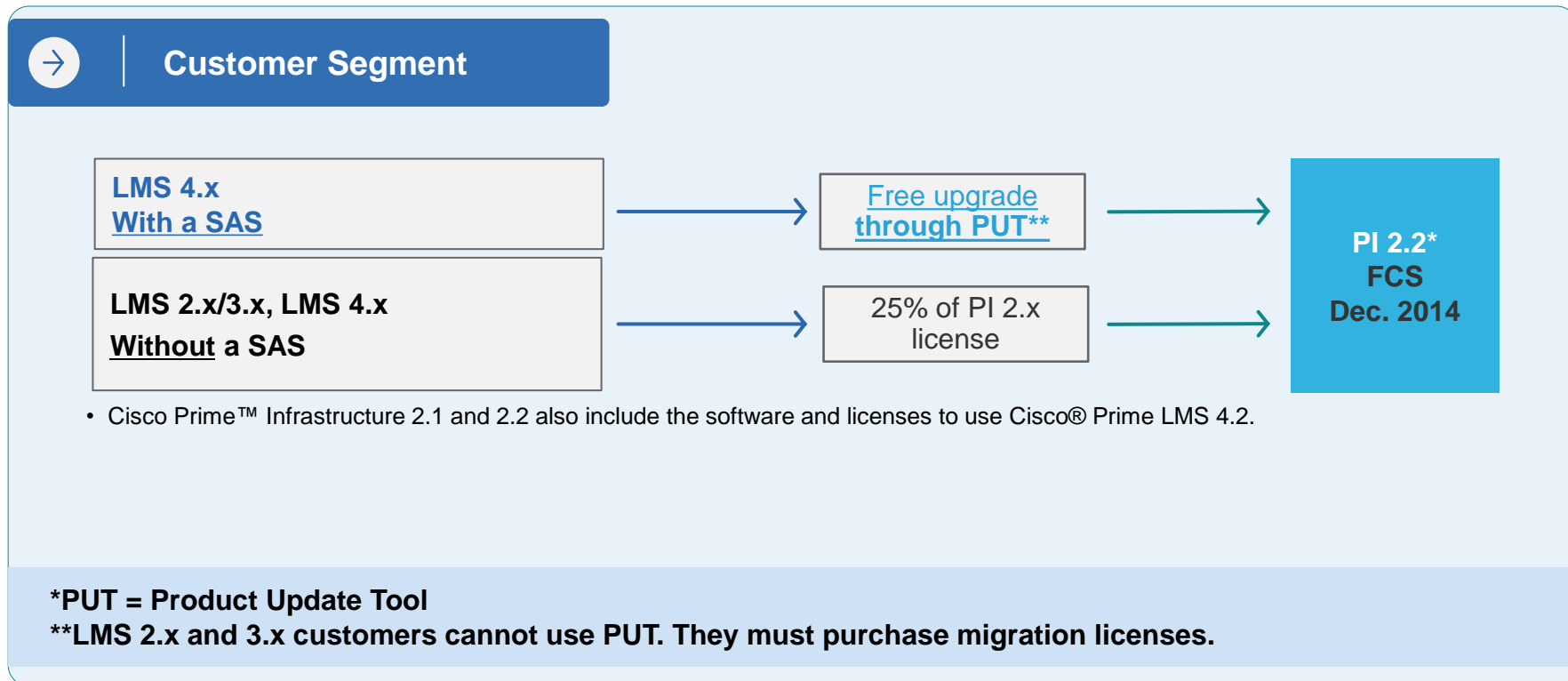
- With backup and restore of the NCS or PI data, the licenses automatically migrate from NCS 1.x / PI 1.x / PI 2.x to PI 2.2.
- *While purchasing migration licenses, a 1-year mandatory support contract is added.

Migrating from Legacy WCS



- *PUT = Product Update Tool
- **Cisco Prime™ Infrastructure 2.1 and 2.2 also include the software and licenses to use Cisco® Prime LMS 4.2
- Migration licenses will work on PI 2.2.
- ** Alternately, customers can migrate from WCS to PI 2.2 by installing PI 2.2 (VM or PHY), installing the PI licenses, export WLC list, and MAPs from WCS, importing them into PI 2.2 (refer to release notes for more details).

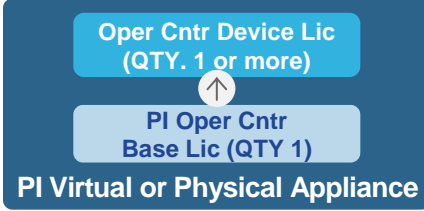
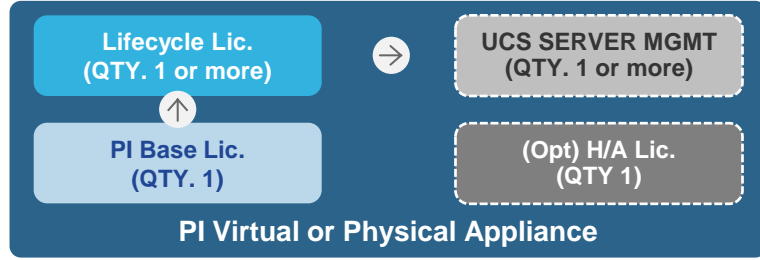
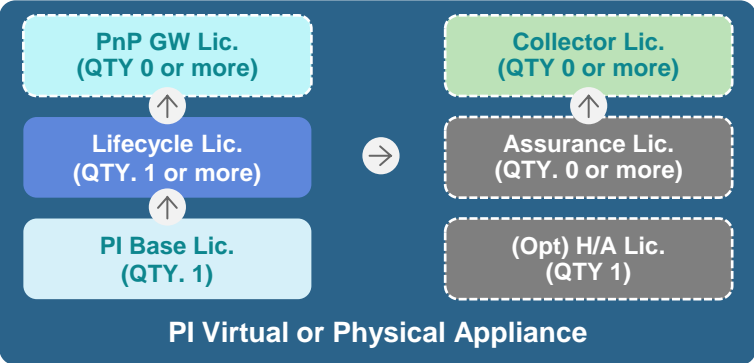
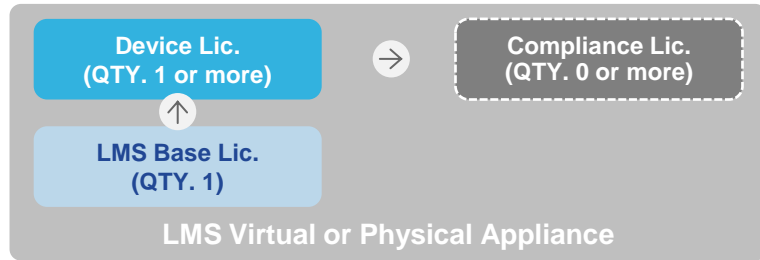
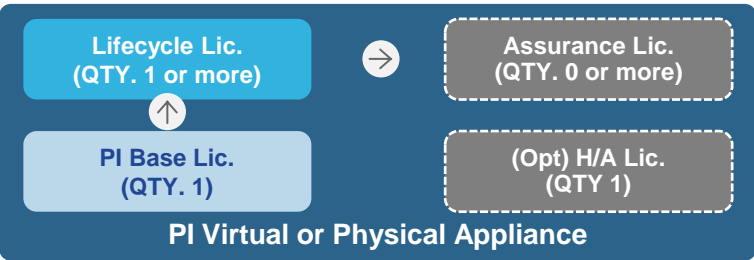
Migrating from Legacy LMS



*PUT = Product Update Tool

**LMS 2.x and 3.x customers cannot use PUT. They must purchase migration licenses.

Cisco Prime Infrastructure 2.x - Licensing Model Overview



Notes:

- One and only one base license is required for each PI management node (physical or virtual appliance)
- Collector license increases PI node from 20,000 to 80,000 flows per second
- Compliance license pertains only to LMS 4.2
- Per-device licenses are available in bundle sizes of 25, 50, 100, 500, 1000, 2500, 5000, 10,000, and 15,000 devices

Important Licensing Change in PI 2.2

→ Starting with Prime™ Infrastructure 2.2, Node Lock Is Removed from PI Licenses

→ Implications of Node Lock Removal

→ Removes the need for re-hosting

- If and when customers upgrade from Cisco® Prime Infrastructure 2.1 or PI 1.4 to PI 2.2, there is no need to request a re-host of these licenses
- The existing node locked licenses will continue to work in PI 2.2

→ Node lock-removed licenses will still retain:

- Device count
- Expiration dates (for evaluation or demonstration or NFR)

→ Two kinds of licenses will be issued:

- Customers running 2.1 or 2.x
 - Purchase licenses **with node lock**
- Customers starting with a new PI server with PI 2.2 (with no 2.1 or 2.0)
 - Purchase licenses **without node lock**



**Servers running PI 2.2
and higher will work
with both licenses**

Cisco Prime Infrastructure 2.x License Types Explained

2.X = 2.0, 2.1, 2.2

License Type	Description	Dependencies/Requirements
Base	The Base license supports using a Cisco Prime™ Infrastructure management node (physical or virtual appliance).	One and only one base license is required for each management node
Lifecycle	Supports the Prime Infrastructure device lifecycle management feature set, including device configuration management and archiving, software image management, basic health and performance monitoring, event management, and troubleshooting. This license type is based on the number of managed devices.	Requires a Base license
Assurance	Supports the Cisco® Prime Infrastructure assurance management feature set, which includes end-to-end application, network, and end-user experience visibility, multi-NAM management, and monitoring of WAN optimization. This license type is based on the number of devices where NetFlow has been enabled.	Requires a Base license and Associated Lifecycle License (Number of Lifecycle licenses can be greater than the number of Assurance Licenses but not the other way around) We suggest that you match the quantities of Assurance and Lifecycle licenses (for all devices in which assurance is supported).
Collector License	This license increases the NetFlow processing limit from 20,000 to 80,000 flows per second on the main Prime Infrastructure management node.	Requires an Assurance license
Plug-and-Play Gateway	This license supports the deployment of a separate gateway for use with the Plug-and-Play feature, where new devices can call in to the gateway to receive their configuration and software image. A paper RTU license will be shipped.	Requires a Lifecycle license

Cisco Prime Infrastructure 2.x License Types Explained

2.X = 2.0, 2.1, 2.2

License Type	Description	Dependencies/Requirements
Base – Service Provider	A Service Provider Base license required for each Prime™ Infrastructure management node deployed (does not include any feature licenses). A paper RTU license will be shipped. Actual license files are manually fulfilled.	One and only one base license is required for each management node.
Lifecycle – Service Provider	Ability to purchase lifecycle licenses on a per device basis for Service Providers. A paper RTU license will be shipped. Actual license files are manually fulfilled.	Requires a Service Provider Base license.
Multi-customer	If Cisco® Prime Infrastructure is deployed to manage multiple customers, then one of these license types is required for each managed customer. A paper RTU license will be shipped.	
Compliance*	Enables access to the regulatory compliance management policies and reports in LMS. This license type is based on the number of managed devices. Note: This license type is currently only used with Cisco Prime LMS 4.2 included in the Prime Infrastructure 2.x bundle.	Requires a Lifecycle license. The number of devices you can run regulatory compliance reports on is limited based on the number of compliance licenses.
High Availability	If Prime Infrastructure is deployed in a high-availability configuration with one primary and one secondary instance in a high-availability pair (active/standby), then a high-availability license is required. A paper RTU license will be shipped.	Note: If you want to deploy two independent instances of PI where both are active at the same time, then this license does not apply. You need to order two copies of PI, each with their own license files.

* Compliance (LMS) must match device license (Lifecycle) as deployed in LMS or they will receive an error. Please note that this feature is “not” supported in PI, but only LMS.

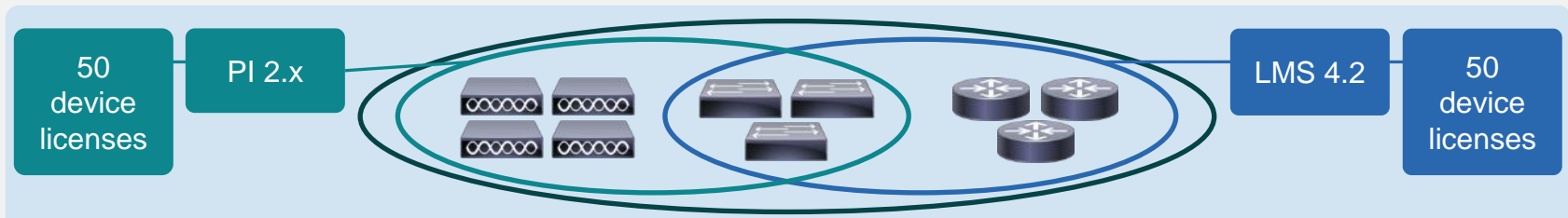
Understanding Cisco Prime Infrastructure Device Licensing Entitlement

→ You are entitled to use any combination of the products included with Cisco Prime™ Infrastructure 2.x (2.0, 2.1, 2.2) to manage up to the number of devices you have purchased licenses

→ Each product receives a full device count license; the entitlement is still as described, even though this could potentially be exceeded, since no common license pool is being used.

Only a single device license is consumed, even if you choose to manage a given device with more than one of the included products.

The figure below shows a hypothetical example where Cisco® Prime Infrastructure has been licensed for 50 devices. Two products are being used. Prime Infrastructure is managing four APs and three switches. LMS is managing three routers plus the three switches also managed by Prime Infrastructure. In this example, 10 device licenses of the entitlement are being used, with 40 remaining.



Prime Infrastructure (licensed for 50 devices: 10 in use, 40 remaining)

What Constitutes a Device from a Licensing Perspective?



→ Lifecycle

A device is uniquely identified through the assigned IP address and system object ID (SysOid) combination. Routers, switches, lightweight and unified access points, and NAMs are counted against the license count. If a switch stack is managed through a single IP address, then it counts as only one device. A single chassis will, however, be counted as multiple devices if the chassis is configured with multiple IP addresses. For example, a switch with multiple service cards, such as a firewall, and so on, or a stackable switch that has an IP address assigned to each switch that participates in the stack will be treated as multiple devices within Cisco Prime™ Infrastructure. Cisco® wireless LAN controllers (WLCs), autonomous access points, and third-party devices are not counted against the license count.

→ Assurance

A router or switch with NetFlow enabled consumes an assurance license. An access point associated with a WLC where Application Visibility and Control (AVC) functionality has been enabled consumes an assurance license. If data collection is enabled for a NAM, then the NAM consumes an assurance license.

Cisco Prime Infrastructure 2.x

Upgrade of 1.x Assurance Licenses

- Cisco Prime™ Assurance Manager and Cisco® Prime Infrastructure 1.x Assurance licenses are based on NetFlow-enabled interfaces.
- Cisco will convert these interface-based Assurance licenses to Prime Infrastructure 2.x (beginning with 2.1) device-based Assurance licenses at no charge.
 - The licenses are replaced one for one, meaning one interface-based Assurance license is replaced with one device-based Assurance license.
- Customers who have more than 100 1.x Assurance licenses are also provided with the Collector license.
- Please send requests to ask-prime-infrastructure@cisco.com
 - Include SO number and PAKs of interface-based assurance licenses.
 - Specify the VUDI if different than what was previously used.



Appendix C

Upgrading Through the Product Update Tool (PUT)

Product Update Tool (PUT)

- If you have a valid services contract for Cisco® WCS, LMS, NCS 1.x or Cisco Prime™ Infrastructure 1.x you can use the PUT to procure licenses. Access the PUT at <http://tools.cisco.com/gct/Upgrade/jsp/index.jsp>.
- You need to be a registered user with a Cisco.com account and contract entitlement to use this tool.
- If you are unable to access the Product Upgrade Tool, send an email message to cs-support@cisco.com with the keyword PUT-ACCESS in the subject line of the message. Include your cisco.com user ID and applicable contract number.
- Once logged in to the tool, and you enter your contract number(s), navigate through the tool to get your PAKs.

Using the Product Upgrade Tool

- After the customer submits the order on the PUT they will receive an email message with the online order ID (UGxxxxxx), which is a confirmation that the order was successfully submitted.
 - If the customer does not receive an online order ID, then the order was not successfully submitted.
 - The email would also include all of the order information (upgrade, QTY, ship-to info., ship-to contact).
- Once the order is booked another email message will be sent with the applicable SO number and applicable ship-out dates.
- If it is an e-delivery order, then the typical turnaround time is within that same day for the e-delivery email with a download link and license key included. This will happen if there were no other issues with the order (NPH, other types of holds, etc).

Using the Product Upgrade Tool

For Customers with a Valid Service Contract on LMS 4.x, NCS 1.0, or Prime Infrastructure 1.1

How to Buy
Product Upgrade Tool

HOME
HOW TO BUY
Product Upgrade Tool
News and Enhancements
User Guides
Questions and Answers
Glossary

Start Product Upgrade

Enter Contract number and select method to upgrade

Contract Number:

Guided
This method provides with step-by-step process to upgrade.

Advanced
Use this method if you know exactly which upgrade product to order.

Help | Feedback

Related Tools
[Customer Service Case Management Tool](#)
[Status Tool](#)

Related Links
[How to Buy](#)
[Contact Cisco Customer Service](#)
[Customer Service Contacts](#)

Browse [All Upgradable Products](#)

Go to [PUT Support - Contact Info](#) page to contact our Customer Service Team about:

- Issues with Contract Upgrade Entitlements.
- Support for issues with PUT Tool.
- Follow up on Existing Upgrade Orders.



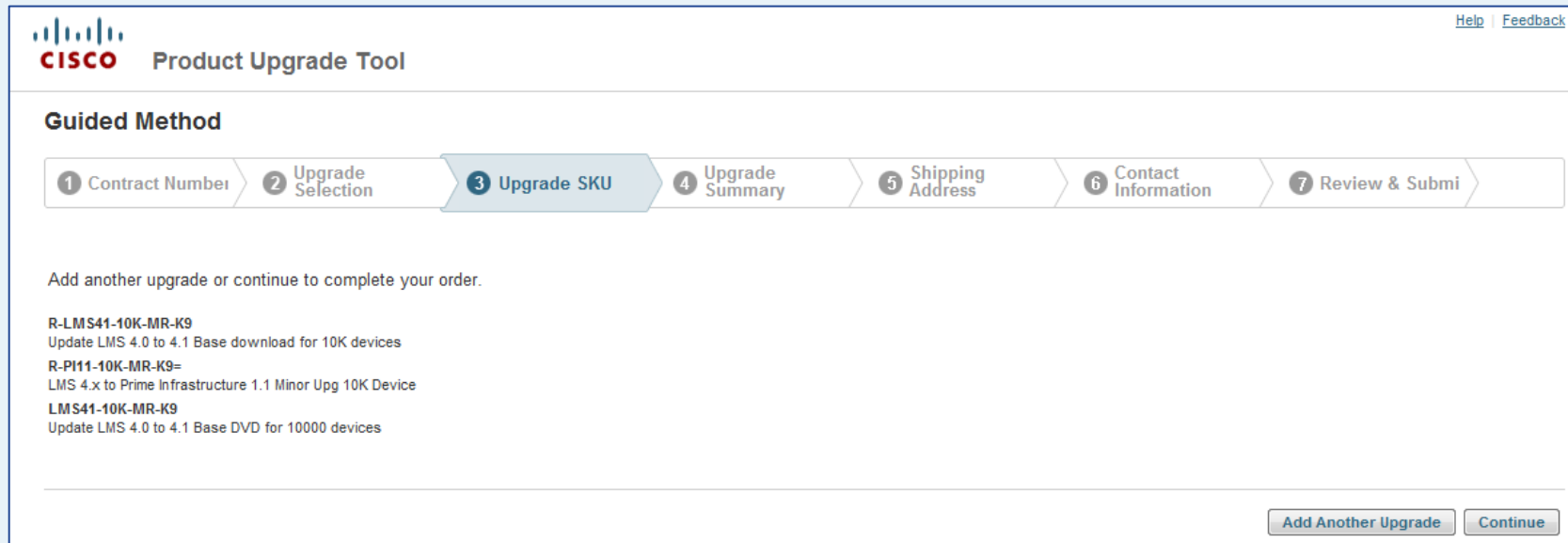
Go to <http://www.cisco.com/upgrade>

Using the Product Upgrade Tool

The screenshot displays the Cisco Product Upgrade Tool interface. At the top left is the Cisco logo and the text "Product Upgrade Tool". On the top right, there are links for "Help" and "Feedback". Below this is a "Guided Method" section with a progress bar containing seven steps: 1 Contract Number, 2 Upgrade Selection (highlighted), 3 Upgrade SKU, 4 Upgrade Summary, 5 Shipping Address, 6 Contact Information, and 7 Review & Submit. The main content area is titled "Select Product Group" and contains three dropdown menus: "Product Group" with "CISCO PRIME LMS" selected, "Current Version" with "Version 4.X" selected, and "Upgrade Version" with "Version4.X" selected. At the bottom right of the form are "Back" and "Continue" buttons. At the bottom left, there are links for "Terms & Conditions", "Privacy Statement", "Cookie Policy", and "Trademarks".

→ Upgrade Selection

Using the Product Upgrade Tool



CISCO Product Upgrade Tool [Help](#) | [Feedback](#)

Guided Method

- 1 Contract Number
- 2 Upgrade Selection
- 3 Upgrade SKU**
- 4 Upgrade Summary
- 5 Shipping Address
- 6 Contact Information
- 7 Review & Submi

Add another upgrade or continue to complete your order.

- R-LMS41-10K-MR-K9**
Update LMS 4.0 to 4.1 Base download for 10K devices
- R-PI11-10K-MR-K9=**
LMS 4.x to Prime Infrastructure 1.1 Minor Upg 10K Device
- LMS41-10K-MR-K9**
Update LMS 4.0 to 4.1 Base DVD for 10000 devices

[Add Another Upgrade](#) [Continue](#)

→ Upgrade SKU

Using the Product Upgrade Tool

→ Specify the quantity, then complete shipping address, contact information. Click review, then submit.

Product Upgrade Tool
[Help](#) [Feedback](#)

Guided Method

1 Contract Number
2 Upgrade Selection
3 Upgrade SKU
4 Upgrade Summary
5 Shipping Address
6 Contact Information
7 Review & Submit

Select Delivery Option and enter quantity of product upgrades. Some products are not available for eDelivery.

Product Number	Special Ordering Note	License Key Requested	Delivery Option	Quantity
LMS41-10K-MR-K9 Update LMS 4.0 to 4.1 Base DVD for 10000 devices more..		<input type="radio"/> Single <input type="radio"/> Multiple	<input checked="" type="radio"/> Physical <input type="radio"/> eDelivery	<input type="text"/>
R-LMS41-10K-MR-K9 Update LMS 4.0 to 4.1 Base download for 10K devices more..		<input type="radio"/> Single <input type="radio"/> Multiple	<input type="radio"/> Physical <input checked="" type="radio"/> eDelivery	<input type="text"/>
R-PI11-10K-MR-K9= LMS 4.x to Prime Infrastructure 1.1 Minor Upg 10K Device		<input type="radio"/> Single <input type="radio"/> Multiple	<input type="radio"/> Physical <input checked="" type="radio"/> eDelivery	<input type="text" value="1"/>

Back
Continue

Note that the above is an example. The actual part numbers that the customer is entitled to will appear in the window above.



Appendix D

Complete List of Prime Infrastructure 2.x Product and Services Part Numbers

Cisco Prime Infrastructure 2.x

Top-Level Part Numbers (1 of 3)

Product Part Number	Description	Services Part Number
Top-Level Part Number		
R-PI2X-K9	Cisco Prime™ Infrastructure 2.x	N/A

Product Part Number	Description	Services Part Number
Top-Level Part Number		
R-PI2X-N-K9	Cisco® Prime Infrastructure 2.x - Not Node Locked	N/A

Product Part Number	Description	Services Part Number
Top-Level Part Number		
R-PI2X-SP-K9	Cisco Prime Infrastructure 2.x Service Provider	N/A

Product Part Number	Description	Services Part Number
Top-Level Part Number		
R-PI2X-SP-N-K9	Cisco Prime Infrastructure 2.x Service Provider - Not Node Locked	N/A

Note: Starting with PI 2.2 we have removed the node locking for new SKUs. If you are deploying PI 2.2 or higher (when available) use the SKUs that say “Not Node Locked.” The software SKUs do not have a license associated with them and hence node locking is not applicable.

Cisco Prime Infrastructure 2.x

Top-Level Part Numbers (2 of 3)

Product Part Number	Description	Services Part Number
Top-Level Part Number: Upgrade Part Numbers for Existing Cisco LMS Customers		
R-L-PI2X-U-K9	LMS to Cisco Prime™ Infrastructure 2.x Upgrade	N/A

Product Part Number	Description	Services Part Number
Top-Level Part Number: Upgrade Part Numbers for Existing Cisco WCS Customers		
R-W-PI2X-U-K9	WCS to Cisco® Prime Infrastructure 2.x Upgrade	N/A

Product Part Number	Description	Services Part Number
Top-Level Part Number: Upgrade Part Numbers for Existing Cisco NCS 1.0 Customers		
R-N-PI2X-U-K9	NCS 1.0 to Cisco Prime Infrastructure 2.x Upgrade	N/A

Product Part Number	Description	Services Part Number
Top-Level Part Number: Upgrade Part Numbers for Existing Cisco PI 1.x, NCS 1.x Customers		
R-P-PI2X-U-K9	PI 1.x to Cisco Prime Infrastructure 2.x Upgrade	N/A

Cisco Prime Infrastructure 2.x

Top-Level Part Numbers (3 of 3)

Product Part Number	Description	Services Part Number	Description
Top-Level Part Number: Physical Appliance (Gen 1)			
PRIME-NCS-APL-K9	Cisco Prime™ Appliance (Gen 1)	CON-SNT-NCSAPL9	SMARTnet® 8X5XNBD Cisco® Prime Network Control System HW

Product Part Number	Description	Services Part Number	Description
Top-Level Part Number: Physical Appliance (Gen 2)			
PI-UCS-APL-K9	Prime Infrastructure UCS® Hardware Appliance (Gen 2)	CON-SNT-UCSAPL9	SMARTnet 8X5XNBD Cisco Prime UCS HW
Top-Level Part Number: Physical Appliance Upgrade (Gen 1 to Gen2)			
PI-UCS-APL-U-K9	Cisco® Prime Physical Appliance Upgrade (Generation 1 to Generation 2)	CON-SNT-UCSAPL9	SMARTnet 8X5XNBD Cisco Prime UCS HW



Cisco Prime Infrastructure 2.x

Base License Part Numbers (1 of 1)

Product Part Number	Description	Services Part Number	Description
Base License			
L-PI2X-BASE	Prime™ Infrastructure 2.x Base License	CON-ECMU-PI2XBASE	SWSS UPGRADES Prime Infrastructure 2.x Base License

Product Part Number	Description	Services Part Number	Description
Base License			
L-PI2X-N-BASE	Prime Infrastructure 2.x Base License - Not Node Lock	CON-ECMU-PI2XBASE	SWSS UPGRADES Prime Infrastructure 2.x Base License

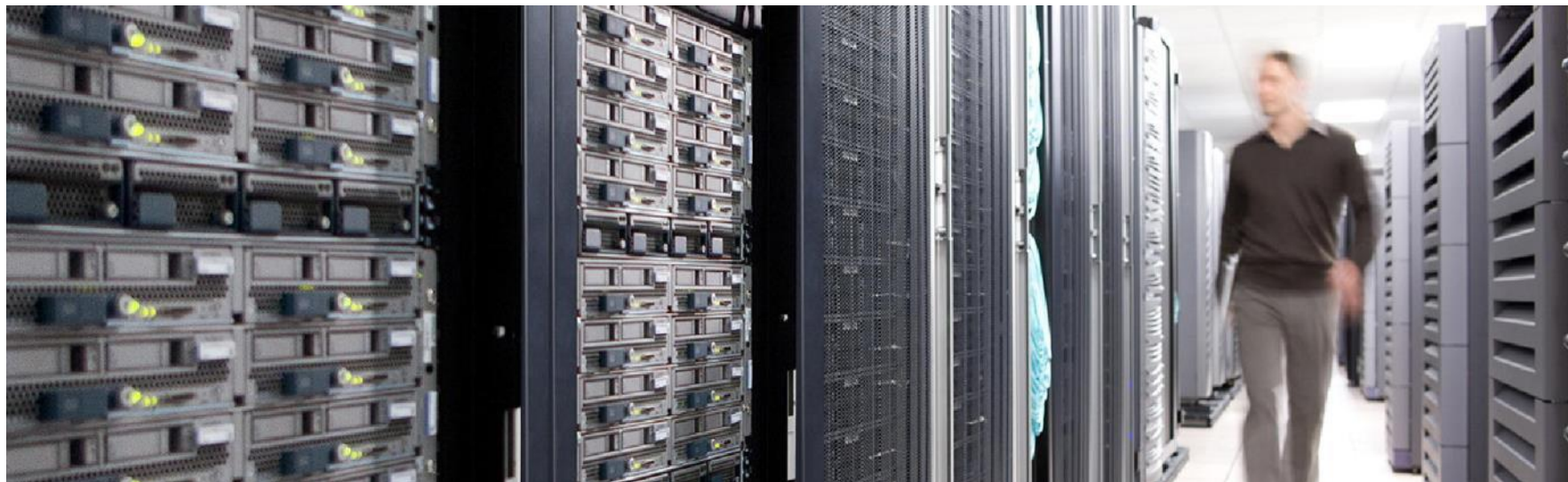
Product Part Number	Description	Services Part Number	Description
Base License			
L-PI2X-BASE-SP-K9	Cisco® Prime Infrastructure 2.x Base RTU and Software Service Provider	CON-ECMU-PI2XBASE	SWSS UPGRADES Prime Infrastructure 2.x SP Base License

Product Part Number	Description	Services Part Number	Description
Base License			
L-PI2X-OC-BASE-K9	Prime Infrastructure 2.x Oper Cntr Base	CON-ECMU-PI2XOBASE	SWSS UPGRADES Prime Infrastructure 2.x OC Base License

Cisco Prime Infrastructure 2.x

High-Availability Part Numbers (1 of 1)

Product Part Number	Description	Services Part #	Description
Prime™ Infrastructure 2.x High-Availability License (RTU)			
L-PI2X-HA	Cisco® Prime Infrastructure 2.x – High Availability RTU	CON-ECMU-PI2XHA	SWSS UPGRADES PI 2.x - High Availability RTU



Cisco Prime Infrastructure 2.x

Software Part Numbers (1 of 1)

Product Part Number	Description	Services Part Number	Description
Prime Infrastructure 2.x Software Options			
R-PI22-SW-K9*	Cisco Prime™ Infrastructure 2.2 Software	CON-ECMU-PI22SW	SWSS UPGRADES Prime Infrastructure 2.2 Software
R-PI21-SW-K9*	Cisco® Prime Infrastructure 2.1 Software	CON-ECMU-PI21SW	SWSS UPGRADES Prime Infrastructure 2.1 Software
R-PI20-SW-K9*	Cisco Prime Infrastructure 2.0 Software	CON-ECMU-PI20SW	SWSS UPGRADES Prime Infrastructure 2.0 Software

Product Part Number	Description	Services Part Number	Description
Prime Infrastructure 2.x Generation 1 Appliance Software Options			
PI-APL-IMAGE-2.2	Cisco Prime Infrastructure 2.2 Appliance Software (Gen 1)	N/A	N/A
PI-APL-IMAGE-2.1	Cisco Prime Infrastructure 2.1 Appliance Software (Gen 1)	N/A	N/A
PI-APL-IMAGE-2.0	Cisco Prime Infrastructure 2.0 Appliance Software (Gen 1)	N/A	N/A

Product Part Number	Description	Services Part Number	Description
Prime Infrastructure 2.x Generation 2 Appliance Software Options			
PI-UCS-IMAGE-2.2	Cisco Prime Infrastructure 2.2 Appliance Software (Gen 2)	N/A	N/A

Cisco Prime Infrastructure 2.x

Media Kit Part Numbers (1 of 1)

Product Part Number	Description	Services Part Number
Prime™ Infrastructure 2.x Physical Media Kit Options		
PI22-MEDIA-K9=	Cisco® Prime Infrastructure 2.2 Physical Media Kit	N/A
PI21-MEDIA-K9=	Cisco Prime Infrastructure 2.1 Physical Media Kit	N/A
PI20-MEDIA-K9=	Cisco Prime Infrastructure 2.2 Physical Media Kit	N/A



Cisco Prime Infrastructure 2.x

Operations Center Part Numbers (1 of 1)

Product Part Number	Description	Services Part Number	Description
Top-Level Part Number			
R-PI2X-N-K9	Cisco Prime™ Infrastructure 2.x - Not Node Locked		
Base License			
L-PI2X-OC-BASE-K9	Cisco® Prime Infrastructure 2.x Oper Cntr Base	CON-ECMU-PI2XOBASE	SWSS UPGRADES Prime Infrastructure 2.x OC Base License
Prime Infrastructure 2.x Software Options			
R-PI22-SW-K9*	Cisco Prime Infrastructure 2.2 Software	CON-ECMU-PI22SW	SWSS UPGRADES Prime Infrastructure 2.2 Software
Appliance Software Options (Generation 2)			
PI-UCS-IMAGE-2.2	Cisco Prime Infrastructure 2.2 Appliance Software (Generation 2)	N/A	
Operations Center Server License Options			
L-PI2X-OPRCTR-1	Prime Infrastructure 2.x - Oper Cntr 1 Srv	CON-ECMU-PI2XOC	SWSS UPGRADES for PI 2.x - Oper Cntr 1 Srv
Operations Center Server Upgrade License Options			
L-PI2X-OPRCTR-U-1	Prime Infrastructure 2.x - Oper Cntr Upg From WCS Nav-1 Srv	CON-ECMU-PI2XOC-U	SWSS UPGRADES for PI 2.x - Oper Cntr Upg From WCS Nav - 1 Srv

Cisco Prime Infrastructure 2.x

Lifecycle License Part Numbers (1 of 2) – NODE LOCKED

Product Part Number	Description	Services Part Number	Description
Lifecycle License Options			
L-PI2X-LF-25	Cisco Prime™ Infrastructure 2.x Lifecycle 25 Device License	CON-ECMU-PI2XLF25	SWSS UPGRADES PI 2.x - Lifecycle - 25 Device Lic
L-PI2X-LF-50	Cisco® Prime Infrastructure 2.x Lifecycle 50 Device License	CON-ECMU-PI2XLF50	SWSS UPGRADES PI 2.x - Lifecycle - 50 Device Lic
L-PI2X-LF-100	Cisco Prime Infrastructure 2.x Lifecycle 100 Device License	CON-ECMU-PI2XLF1H	SWSS UPGRADES PI 2.x - Lifecycle - 100 Device Lic
L-PI2X-LF-500	Cisco Prime Infrastructure 2.x Lifecycle 500 Device License	CON-ECMU-PI2XLF5H	SWSS UPGRADES PI 2.x - Lifecycle - 500 Device Lic
L-PI2X-LF-1K	Cisco Prime Infrastructure 2.x Lifecycle 1000 Device License	CON-ECMU-PI2XLF1K	SWSS UPGRADES PI 2.x - Lifecycle - 1000 Device Lic
L-PI2X-LF-2.5K	Cisco Prime Infrastructure 2.x Lifecycle 2500 Device License	CON-ECMU-PI2XLF2K	SWSS UPGRADES PI 2.x - Lifecycle - 2500 Device Lic
L-PI2X-LF-5K	Cisco Prime Infrastructure 2.x Lifecycle 5000 Device License	CON-ECMU-PI2XLF5K	SWSS UPGRADES PI 2.x - Lifecycle - 5000 Device Lic
L-PI2X-LF-10K	Cisco Prime Infrastructure 2.x Lifecycle 10,000 Device License	CON-ECMU-PI2XL10K	SWSS UPGRADES PI 2.x - Lifecycle – 10,000 Device Lic
L-PI2X-LF-15K	Cisco Prime Infrastructure 2.x Lifecycle 15,000 Device License	CON-ECMU-PI2XL15K	SWSS UPGRADES PI 2.x - Lifecycle -15,000 Device Lic

Cisco Prime Infrastructure 2.x

Lifecycle License Part Numbers (2 of 2) – NODE LOCK REMOVED

Product Part Number	Description	Services Part Number	Description
Lifecycle License Options			
L-PI2X-LF-N-25	Cisco Prime™ Infrastructure 2.x Lifecycle 25 Devices License - Not Node Locked	CON-ECMU-PI2XLF25	SWSS UPGRADES PI 2.x - Lifecycle - 25 Device Lic
L-PI2X-LF-N-50	Cisco® Prime Infrastructure 2.x Lifecycle 50 Devices License - Not Node Locked	CON-ECMU-PI2XLF50	SWSS UPGRADES PI 2.x - Lifecycle - 50 Device Lic
L-PI2X-LF-N-100	Cisco Prime Infrastructure 2.x Lifecycle 100 Devices License - Not Node Locked	CON-ECMU-PI2XLF1H	SWSS UPGRADES PI 2.x - Lifecycle - 100 Device Lic
L-PI2X-LF-N-500	Cisco Prime Infrastructure 2.x Lifecycle 500 Devices License - Not Node Locked	CON-ECMU-PI2XLF5H	SWSS UPGRADES PI 2.x - Lifecycle - 500 Device Lic
L-PI2X-LF-N-1K	Cisco Prime Infrastructure 2.x Lifecycle 1000 Devices License - Not Node Locked	CON-ECMU-PI2XLF1K	SWSS UPGRADES PI 2.x - Lifecycle - 1000 Device Lic
L-PI2X-LF-N-2.5K	Cisco Prime Infrastructure 2.x Lifecycle 2500 Devices License - Not Node Locked	CON-ECMU-PI2XLF2K	SWSS UPGRADES PI 2.x - Lifecycle - 2500 Device Lic
L-PI2X-LF-N-5K	Cisco Prime Infrastructure 2.x Lifecycle 5000 Devices License - Not Node Locked	CON-ECMU-PI2XLF5K	SWSS UPGRADES PI 2.x - Lifecycle - 5000 Device Lic
L-PI2X-LF-N-10K	Cisco Prime Infrastructure 2.x Lifecycle 10,000 Devices License - Not Node Locked	CON-ECMU-PI2XL10K	SWSS UPGRADES PI 2.x - Lifecycle – 10,000 Device Lic
L-PI2X-LF-N-15K	Cisco Prime Infrastructure 2.x Lifecycle 15,000 Devices License - Not Node Locked	CON-ECMU-PI2XL15K	SWSS UPGRADES PI 2.x - Lifecycle -15,000 Device Lic

Cisco Prime Infrastructure 2.x

Assurance License Part Numbers (1 of 2) – NODE LOCKED

Product Part Number	Description	Services Part Number	Description
Assurance License Options			
L-PI2X-AS-25	Cisco Prime™ Infrastructure 2.x Assurance 25 Devices License	CON-ECMU-PI2XAS25	SWSS UPGRADES PI 2.x - Assurance - 25 Device Lic
L-PI2X-AS-50	Cisco® Prime Infrastructure 2.x Assurance 50 Devices License	CON-ECMU-PI2XAS50	SWSS UPGRADES PI 2.x - Assurance - 50 Device Lic
L-PI2X-AS-100	Cisco Prime Infrastructure 2.x Assurance 100 Devices License	CON-ECMU-PI2XAS1H	SWSS UPGRADES PI 2.x - Assurance - 100 Device Lic
L-PI2X-AS-500	Cisco Prime Infrastructure 2.x Assurance 500 Devices License	CON-ECMU-PI2XAS5H	SWSS UPGRADES PI 2.x - Assurance - 500 Device Lic
L-PI2X-AS-1K	Cisco Prime Infrastructure 2.x Assurance 1000 Devices License	CON-ECMU-PI2XAS1K	SWSS UPGRADES PI 2.x - Assurance - 1000 Device Lic
L-PI2X-AS-2.5K	Cisco Prime Infrastructure 2.x Assurance 2500 Devices License	CON-ECMU-PI2XAS2K	SWSS UPGRADES PI 2.x - Assurance - 2500 Device Lic
L-PI2X-AS-5K	Cisco Prime Infrastructure 2.x Assurance 5000 Devices License	CON-ECMU-PI2XAS5K	SWSS UPGRADES PI 2.x Promo - Assurance - 5000 Device Lic
L-PI2X-AS-10K	Cisco Prime Infrastructure 2.x Assurance 10,000 Devices License	CON-ECMU-PI2XA10K	SWSS UPGRADES PI 2.x - Assurance – 10,000 Device Lic
L-PI2X-AS-15K	Cisco Prime Infrastructure 2.x Assurance 15,000 Devices License	CON-ECMU-PI2XA15K	SWSS UPGRADES PI 2.x - Assurance – 15,000 Device Lic
Collector License Options			
L-PI2X-CL	Prime Infrastructure 2.x - Collector License	CON-ECMU-PI2XCL	SWSS UPGRADES PI 2.x - Collector License

Cisco Prime Infrastructure 2.x

Assurance License Part Numbers (2 of 2) – NODE LOCK REMOVED

Product Part Number	Description	Services Part Number	Description
Assurance License Options			
L-PI2X-AS-N-25	Cisco Prime™ Infrastructure 2.x Assurance 25 Device License - Not Node Locked	CON-ECMU-PI2XAS25	SWSS UPGRADES PI 2.x - Assurance - 25 Device Lic
L-PI2X-AS-N-50	Cisco® Prime Infrastructure 2.x Assurance 50 Device License - Not Node Locked	CON-ECMU-PI2XAS50	SWSS UPGRADES PI 2.x - Assurance - 50 Device Lic
L-PI2X-AS-N-100	Cisco Prime Infrastructure 2.x Assurance 100 Device License - Not Node Locked	CON-ECMU-PI2XAS1H	SWSS UPGRADES PI 2.x - Assurance - 100 Device Lic
L-PI2X-AS-N-500	Cisco Prime Infrastructure 2.x Assurance 500 Device License - Not Node Locked	CON-ECMU-PI2XAS5H	SWSS UPGRADES PI 2.x - Assurance - 500 Device Lic
L-PI2X-AS-N-1K	Cisco Prime Infrastructure 2.x Assurance 1000 Device License - Not Node Locked	CON-ECMU-PI2XAS1K	SWSS UPGRADES PI 2.x - Assurance - 1000 Device Lic
L-PI2X-AS-N-2.5K	Cisco Prime Infrastructure 2.x Assurance 2500 Device License - Not Node Locked	CON-ECMU-PI2XAS2K	SWSS UPGRADES PI 2.x - Assurance - 2500 Device Lic
L-PI2X-AS-N-5K	Cisco Prime Infrastructure 2.x Assurance 5000 Device License - Not Node Locked	CON-ECMU-PI2XAS5K	SWSS UPGRADES PI 2.x Assurance - 5000 Device Lic
L-PI2X-AS-N-10K	Cisco Prime Infrastructure 2.x Assurance 10,000 Device License - Not Node Locked	CON-ECMU-PI2XA10K	SWSS UPGRADES PI 2.x - Assurance – 10,000 Device Lic
L-PI2X-AS-N-15K	Cisco Prime Infrastructure 2.x Assurance 15,000 Device License - Not Node Locked	CON-ECMU-PI2XA15K	SWSS UPGRADES PI 2.x - Assurance – 15,000 Device Lic

Cisco Prime Infrastructure 2.x Plug-n-Play Gateway Part Numbers (1 of 1)

Product Part Number	Description	Services Part Number	Description
PnP Gateway License Options			
L-PI2X-GW	Cisco Prime™ Infrastructure 2.x Plug-and-Play Gateway RTU	CON-ECMU-PI2XGW	SWSS UPGRADES PI 2.x - Plug-and-Play Gateway RTU



Cisco Prime Infrastructure 2.x

Compliance Part Numbers (1 of 1) – with LMS Only

Product Part Number	Description	Services Part Number	Description
Compliance License Options			
L-PI2X-CM-25	Prime™ Infrastructure 2.x - Compliance - 25 Device Lic	CON-ECMU-PI2XCM25	SWSS UPGRADES PI 2.x - Compliance - 25 Device Lic
L-PI2X-CM-50	Cisco® Prime Infrastructure 2.x - Compliance - 50 Device Lic	CON-ECMU-PI2XCM50	SWSS UPGRADES PI 2.x - Compliance - 50 Device Lic
L-PI2X-CM-100	Prime Infrastructure 2.x - Compliance - 100 Device Lic	CON-ECMU-PI2XCM1H	SWSS UPGRADES PI 2.x - Compliance - 100 Device Lic
L-PI2X-CM-500	Prime Infrastructure 2.x - Compliance - 500 Device Lic	CON-ECMU-PI2XCM5H	SWSS UPGRADES PI 2.x - Compliance - 500 Device Lic
L-PI2X-CM-1K	Prime Infrastructure 2.x - Compliance - 1000 Device Lic	CON-ECMU-PI2XCM1K	SWSS UPGRADES PI 2.x - Compliance - 1000 Device Lic
L-PI2X-CM-2.5K	Prime Infrastructure 2.x - Compliance – 2500 Device Lic	CON-ECMU-PI2XCM2K	SWSS UPGRADES PI 2.x - Compliance – 2500 Device Lic
L-PI2X-CM-5K	Prime Infrastructure 2.x - Compliance - 5000 Device Lic	CON-ECMU-PI2XCM5K	SWSS UPGRADES PI 2.x - Compliance - 5000 Device Lic
L-PI2X-CM-10K	Prime Infrastructure 2.x - Compliance – 10,000 Device Lic	CON-ECMU-PI2XC10K	SWSS UPGRADES PI 2.x - Compliance – 10,000 Device Lic



Appendix E

Complete List of Upgrade and Part Numbers For Customers Upgrading from Cisco PI 1.x, LMS, NCS, or WCS

Cisco Prime Infrastructure 2.x

Upgrade Options for PI 1.x (1 of 3)

Product Part Number	Description	Services Part Number	Description
Top-Level Part Number Upgrade Part Numbers for Existing Cisco Prime Infrastructure 1.x, NCS 1.x Customers			
R-P-PI2X-U-K9	PI 1.x to Cisco Prime™ Infrastructure 2.x Upgrade		
Base License			
L-PI2X-BASE	Cisco® Prime Infrastructure 2.x Base License	CON-ECMU-PI2XBASE	SWSS UPGRADES Prime Infrastructure 2.x Base License
Prime Infrastructure 2.x Software Options			
R-PI22-SW-K9*	Cisco Prime Infrastructure 2.2 Software	CON-ECMU-PI22SW	SWSS UPGRADES Prime Infrastructure 2.2 Software
R-PI21-SW-K9*	Cisco Prime Infrastructure 2.1 Software	CON-ECMU-PI21SW	SWSS UPGRADES Prime Infrastructure 2.1 Software
R-PI20-SW-K9*	Cisco Prime Infrastructure 2.0 Software	CON-ECMU-PI20SW	SWSS UPGRADES Prime Infrastructure 2.0 Software
High-Availability License (RTU)			
L-PI2X-HA	Prime Infrastructure 2.x – High Availability RTU	CON-ECMU-PI2XHA	SWSS UPGRADES PI 2.x - High Availability RTU

Note: These part numbers are for customers who don't have an active SASU contract on Cisco Prime Infrastructure. Customers with an active SASU contract on PI 1.x can simply download PI 2.0 from Cisco.com to upgrade. If SASU is being renewed, you will receive SWSS instead. SWSS is similar to SASU. The Services SKU price is based on the full product list price.

Cisco Prime Infrastructure 2.x

Upgrade Options for PI 1.x (2 of 3)

Product Part Number	Description	Services Part Number	Description
Device Licenses			
L-PI2X-LF-25-U	PI 1.x to Prime™ Infrastructure 2.x Lifecycle Upgrade 25 Devices	CON-ECMU-PI2XLF25	SWSS UPGRADES PI 2.x - Lifecycle - 25 Device Lic
L-PI2X-LF-50-U	PI 1.x to Cisco® Prime Infrastructure 2.x Lifecycle Upgrade 50 Devices	CON-ECMU-PI2XLF50	SWSS UPGRADES PI 2.x - Lifecycle - 50 Device Lic
L-PI2X-LF-100-U	PI 1.x to Prime Infrastructure 2.x Lifecycle Upgrade 100 Devices	CON-ECMU-PI2XLF1H	SWSS UPGRADES PI 2.x - Lifecycle - 100 Device Lic
L-PI2X-LF-500-U	PI 1.x to Prime Infrastructure 2.x Lifecycle Upgrade 500 Devices	CON-ECMU-PI2XLF5H	SWSS UPGRADES PI 2.x - Lifecycle - 500 Device Lic
L-PI2X-LF-1K-U	PI 1.x to Prime Infrastructure 2.x Lifecycle Upgrade 1000 Devices	CON-ECMU-PI2XLF1K	SWSS UPGRADES PI 2.x - Lifecycle - 1000 Device Lic
L-PI2X-LF-2.5K-U	PI 1.x to Prime Infrastructure 2.x Lifecycle Upgrade 2500 Devices	CON-ECMU-PI2XLF2K	SWSS UPGRADES PI 2.x - Lifecycle - 2500 Device Lic
L-PI2X-LF-5K-U	PI 1.x to Prime Infrastructure 2.x Lifecycle Upgrade 5000 Devices	CON-ECMU-PI2XLF5K	SWSS UPGRADES PI 2.x - Lifecycle - 5000 Device Lic
L-PI2X-LF-10K-U	PI 1.x to Prime Infrastructure 2.x Lifecycle Upgrade 10,000 Devices	CON-ECMU-PI2XL10K	SWSS UPGRADES PI 2.x - Lifecycle – 10,000 Device Lic

Note: These part numbers are for customers who don't have an active SASU contract on Cisco Prime Infrastructure. Customers with an active SASU contract on PI 1.x can simply download PI 2.0 from Cisco.com to upgrade. If SASU is being renewed, you will receive SWSS instead. SWSS is similar to SASU. The Services SKU price is based on the full product list price.

Cisco Prime Infrastructure 2.x

Upgrade Options for PI 1.x Assurance License (3 of 3)

→ Add 1.x to 2.x Assurance Upgrade SKUs

Cisco Prime Infrastructure 2.x

Upgrade Options for LMS (1 of 2)*

Product Part Number	Description	Services Part Number	Description
Top-Level Part Number: Upgrade Part Numbers for Existing Cisco® LMS Customers			
R-L-PI2X-U-K9	LMS to Cisco Prime™ Infrastructure 2.x Upgrade		
Base License			
L-PI2X-BASE	Prime Infrastructure 2.x Base License	CON-ECMU-PI2XBASE	SWSS UPGRADES Prime Infrastructure 2.x Base License
Prime Infrastructure 2.x Software Options			
R-PI22-SW-K9*	Cisco Prime Infrastructure 2.2 Software	CON-ECMU-PI22SW	SWSS UPGRADES Prime Infrastructure 2.2 Software
R-PI21-SW-K9*	Cisco Prime Infrastructure 2.1 Software	CON-ECMU-PI21SW	SWSS UPGRADES Prime Infrastructure 2.1 Software
R-PI20-SW-K9*	Cisco Prime Infrastructure 2.0 Software	CON-ECMU-PI20SW	SWSS UPGRADES Prime Infrastructure 2.0 Software
High-Availability License (RTU)			
L-PI2X-HA	Prime Infrastructure 2.x – High Availability RTU	CON-ECMU-PI2XHA	SWSS UPGRADES PI 2.x - High Availability RTU

The SWSS list price for upgrade products is based on the full product list price.

** Note: Customers with LMS version 4.x with SAS can simply download the latest LMS 4.x software.

Cisco Prime Infrastructure 2.x

Upgrade Options for LMS * (2 of 2)

Product Part Number	Description	Services Part Number	Description
Device Licenses			
L-L-PI2X-50-U	LMS to Prime™ Infrastructure 2.x Upgrade 50 Device	CON-ECMU-PI2XLF50	SWSS UPGRADES PI 2.x - Lifecycle - 50 Device Lic
L-L-PI2X-100-U	LMS to Prime Infrastructure 2.x Upgrade 100 Device	CON-ECMU-PI2XLF1H	SWSS UPGRADES PI 2.x - Lifecycle - 100 Device Lic
L-L-PI2X-300-U	LMS to Prime Infrastructure 2.x Upgrade 300 Device	CON-ECMU-PI2XLF3H	SWSS UPGRADES PI 2.x - Lifecycle - 300 Device Lic
L-L-PI2X-500-U	LMS to Prime Infrastructure 2.x Upgrade 500 Device	CON-ECMU-PI2XLF5H	SWSS UPGRADES PI 2.x - Lifecycle - 500 Device Lic
L-L-PI2X-750-U	LMS to Prime Infrastructure 2.x Upgrade 750 Device	CON-ECMU-PI2XLF7H	SWSS UPGRADES PI 2.x - Lifecycle - 750 Device Lic
L-L-PI2X-1K-U	LMS to Prime Infrastructure 2.x Upgrade 1000 Device	CON-ECMU-PI2XLF1K	SWSS UPGRADES PI 2.x - Lifecycle - 1000 Device Lic
L-L-PI2X-1.5K-U	LMS to Prime Infrastructure 2.x Upgrade 1500 Device	CON-ECMU-PI2XLF15	SWSS UPGRADES PI 2.x - Lifecycle - 1500 Device Lic
L-L-PI2X-2.5K-U	LMS to Prime Infrastructure 2.x Upgrade 2500 Device	CON-ECMU-PI2XLF2K	SWSS UPGRADES PI 2.x - Lifecycle - 2500 Device Lic
L-L-PI2X-5K-U	LMS to Prime Infrastructure 2.x Upgrade 5000 Device	CON-ECMU-PI2XLF5K	SWSS UPGRADES PI 2.x - Lifecycle - 5000 Device Lic
L-L-PI2X-10K-U	LMS to Prime Infrastructure 2.x Upgrade 10,000 Device	CON-ECMU-PI2XL10K	SWSS UPGRADES PI 2.x - Lifecycle – 10,000 Device Lic

* Note: Customers with Cisco® LMS version 4.x with SAS can simply download the latest LMS 4.x software.

Cisco Prime Infrastructure 2.x

Upgrade Options for Cisco NCS 1.0 (1 of 2)

Product Part Number	Description	Services Part Number	Description
Top-Level Part Number: Upgrade Part Numbers for Existing Cisco® NCS 1.0 Customers			
R-N-PI2X-U-K9	NCS 1.0 to Cisco Prime™ Infrastructure 2.x Upgrade		
Base License			
L-PI2X-BASE	Prime Infrastructure 2.x Base License	CON-ECMU-PI2XBASE	SWSS UPGRADES Prime Infrastructure 2.x Base License
Prime Infrastructure 2.x Software Options			
R-PI22-SW-K9*	Cisco Prime Infrastructure 2.2 Software	CON-ECMU-PI22SW	SWSS UPGRADES Prime Infrastructure 2.2 Software
R-PI21-SW-K9*	Cisco Prime Infrastructure 2.1 Software	CON-ECMU-PI21SW	SWSS UPGRADES Prime Infrastructure 2.1 Software
R-PI20-SW-K9*	Cisco Prime Infrastructure 2.0 Software	CON-ECMU-PI20SW	SWSS UPGRADES Prime Infrastructure 2.0 Software
High-Availability License (RTU)			
L-PI2X-HA	Prime Infrastructure 2.x – High Availability RTU	CON-ECMU-PI2XHA	SWSS UPGRADES PI 2.x - High Availability RTU

Note: These part numbers are for customers who don't have an active SASU contract on Cisco Prime Infrastructure. Customers with an active SASU contract on PI 1.x can simply download PI 2.0 from Cisco.com to upgrade. If SASU is being renewed, you will receive SWSS instead. SWSS is similar to SASU. The Services SKU price is based on the full product list price.

Cisco Prime Infrastructure 2.x

Upgrade Options for NCS 1.0 (2 of 2)

Product Part Number	Description	Services Part Number	Description
Device Licenses			
L-N-PI2X-50-U	NCS 1.0 to Prime™ Infrastructure 2.x Upg 50 Device	CON-ECMU-PI2XLF50	SWSS UPGRADES PI 2.x - Lifecycle - 50 Device Lic
L-N-PI2X-100-U	NCS 1.0 to Prime Infrastructure 2.x Upg 100 Device	CON-ECMU-PI2XLF1H	SWSS UPGRADES PI 2.x - Lifecycle - 100 Device Lic
L-N-PI2X-500-U	NCS 1.0 to Prime Infrastructure 2.x Upg 500 Device	CON-ECMU-PI2XLF5H	SWSS UPGRADES PI 2.x - Lifecycle - 500 Device Lic
L-N-PI2X-1K-U	NCS 1.0 to Prime Infrastructure 2.x Upg 1000 Device	CON-ECMU-PI2XLF1K	SWSS UPGRADES PI 2.x - Lifecycle - 1000 Device Lic
L-N-PI2X-2.5K-U	NCS 1.0 to Prime Infrastructure 2.x Upg 2500 Device	CON-ECMU-PI2XLF2K	SWSS UPGRADES PI 2.x - Lifecycle - 2500 Device Lic
L-N-PI2X-5K-U	NCS 1.0 to Prime Infrastructure 2.x Upg 5000 Device	CON-ECMU-PI2XLF5K	SWSS UPGRADES PI 2.x - Lifecycle - 5000 Device Lic
L-N-PI2X-10K-U	NCS 1.0 to Prime Infrastructure 2.x Upg 10,000 Device	CON-ECMU-PI2XL10K	SWSS UPGRADES PI 2.x - Lifecycle – 10,000 Device Lic

Note: In this upgrade you will use your existing NCS licenses with Cisco® Prime Infrastructure 2x. Only new LMS 4.2 licenses are provided. These part numbers are for customers who don't have an active SASU contract on NCS. Customers with an active SASU contract can use the Product Upgrade Tool to upgrade to PI 2.x at no charge.

Cisco Prime Infrastructure 2.x

Upgrade Options for WCS (1 of 2)

Product Part Number	Description	Services Part Number	Description
Top-Level Part Number: Upgrade Part Numbers for Existing Cisco WCS Customers			
R-W-PI2X-U-K9	WCS to Cisco Prime™ Infrastructure 2.x Upgrade		
Base License			
L-PI2X-BASE	Cisco® Prime Infrastructure 2.x Base License	CON-ECMU-PI2XBASE	SWSS UPGRADES Prime Infrastructure 2.x Base License
Prime Infrastructure 2.x Software Options			
R-PI22-SW-K9*	Cisco Prime Infrastructure 2.2 Software	CON-ECMU-PI22SW	SWSS UPGRADES Prime Infrastructure 2.2 Software
R-PI21-SW-K9*	Cisco Prime Infrastructure 2.1 Software	CON-ECMU-PI21SW	SWSS UPGRADES Prime Infrastructure 2.1 Software
R-PI20-SW-K9*	Cisco Prime Infrastructure 2.0 Software	CON-ECMU-PI20SW	SWSS UPGRADES Prime Infrastructure 2.0 Software
High-Availability License (RTU)			
L-PI2X-HA	Prime Infrastructure 2.x – High-Availability RTU	CON-ECMU-PI2XHA	SWSS UPGRADES PI 2.x – High-Availability RTU

Note: Customers with an active SASU contract on WCS can use the Product Upgrade Tool to upgrade to PI 2.x at no charge. WCS-Base and WCS-Plus licenses are replaced with Prime Infrastructure lifecycle licenses.

All SWSS Licenses are for a 1-year duration; All purchases and renewals are attached with a 1-year mandatory SWSS license.

*PI 2.1 is the latest release available (as of October 2014). Customers should deploy this version to get the latest enhancements and quality improvements.

Cisco Prime Infrastructure 2.x

Upgrade Options for WCS (2 of 2)

Product Part Number	Description	Services Part Number	Description
Device Licenses			
L-W-PI2X-50-U	WCS to Prime™ Infrastructure 2.x Upg 50 Devices	CON-ECMU-PI2XLF50	SWSS UPGRADES PI 2.x - Lifecycle - 50 Device Lic
L-W-PI2X-100-U	WCS to Prime Infrastructure 2.x Upg 100 Devices	CON-ECMU-PI2XLF1H	SWSS UPGRADES PI 2.x - Lifecycle - 100 Device Lic
L-W-PI2X-500-U	WCS to Prime Infrastructure 2.x Upg 500 Devices	CON-ECMU-PI2XLF5H	SWSS UPGRADES PI 2.x - Lifecycle - 500 Device Lic
L-W-PI2X-1K-U	WCS to Prime Infrastructure 2.x Upg 1000 Devices	CON-ECMU-PI2XLF1K	SWSS UPGRADES PI 2.x - Lifecycle - 1000 Device Lic
L-W-PI2X-2.5K-U	WCS to Prime Infrastructure 2.x Upg 2500 Devices	CON-ECMU-PI2XLF2K	SWSS UPGRADES PI 2.x - Lifecycle - 2500 Device Lic
L-W-PI2X-5K-U	WCS to Prime Infrastructure 2.x Upg 5000 Devices	CON-ECMU-PI2XLF5K	SWSS UPGRADES PI 2.x - Lifecycle - 5000 Device Lic
L-W-PI2X-10K-U	WCS to Prime Infrastructure 2.x Upg 10,000 Devices	CON-ECMU-PI2XL10K	SWSS UPGRADES PI 2.x - Lifecycle – 10,000 Device Lic

Note: Customers with an active SASU contract on WCS can use the Product Upgrade Tool to upgrade to PI 2.x at no charge. WCS-Base and WCS-Plus licenses are replaced with Prime Infrastructure lifecycle licenses.

All SWSS Licenses are for a 1-year duration; All purchases and renewals are attached with a 1-year mandatory SWSS license.

*PI 2.1 is the latest release available (as of October 2014). Customers should deploy this version to get the latest enhancements and quality improvements.



Appendix F

Cisco Prime Infrastructure 2.x Services Update

Cisco Prime Infrastructure 2.x Services Licensing and Ordering Update

→ As of September 2014:

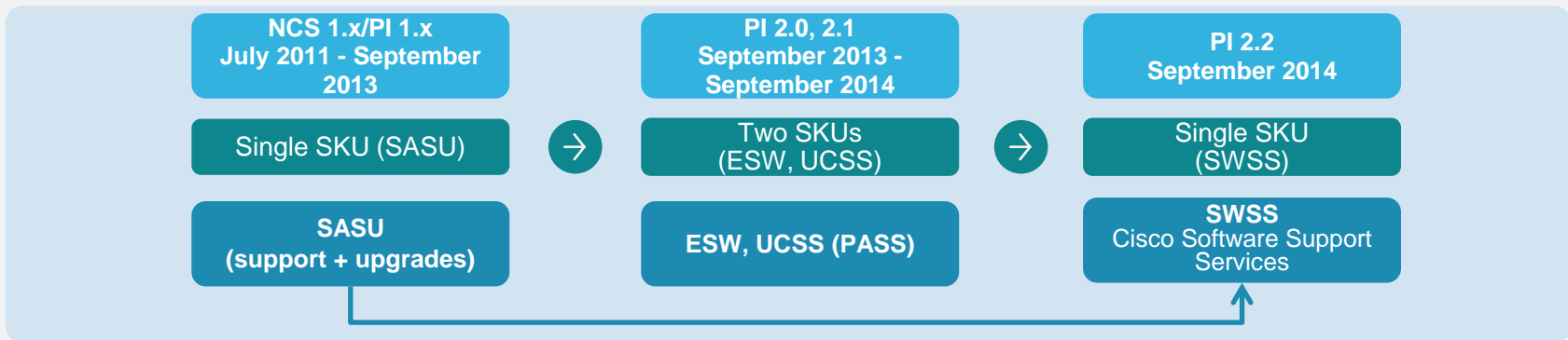
- Services licensing for Cisco Prime™ Infrastructure has been simplified
- ESW/UCSS SKUs for Cisco® Prime Infrastructure have EoS/EoL'ed
- Each pair of ESW/UCSS SKUs is replaced by a corresponding single SKU, namely Cisco Software Support and Services (SWSS)
- SWSS is similar to SASU

Transition to SWSS

Cisco Software Support Services

→ What is covered by SWSS?

- SWSS will combine the items found in UCSS and ESW in one offering.
- SWSS includes access to cisco.com, the Cisco® TAC, software support and maintenance, minor updates, as well as major upgrades.
- With the transition to SWSS, all Cisco Collaboration and Prime™ software products, and video software products, will be quoted and sold with a minimum of one year of software support. This is required on all products that use the UCSS and ESW service level today.



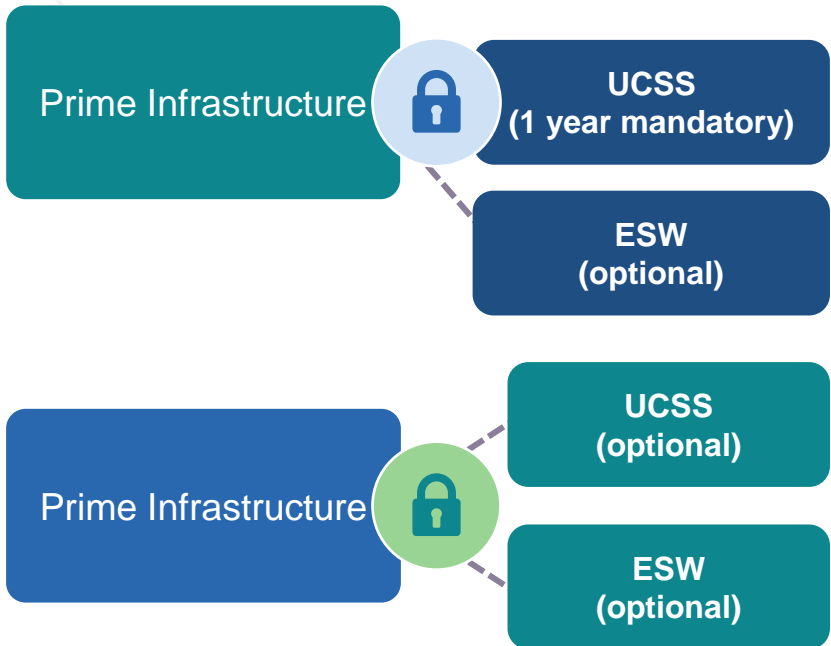
What Is Included in SWSS

Cisco® Software Support Service includes all of the items previously found in UCSS and ESW, in one offering.

	Registered Access to Cisco.com	TAC Technical Support 24x7x365	Maintenance Releases and Patches x.x.X	Minor Update Releases x.X.x	Major Upgrade Releases X.x.x
Essential Operate Services (ESW)	✓	✓	✓	✓	
Unified Communications Software Subscription (UCSS)					✓
Cisco Software Support Service (SWSS)	✓	✓	✓	✓	✓

Required Service Support

→ AS-IS



→ TO-BE with SWSS



Software Support Service will be required at the point of sale

- A minimum one year of support will become mandatory on all collaboration and network management software products.
- Products that require three years of support today will be lowered to one year.
- Service SKUs will be automatically attached to the product during the order process.

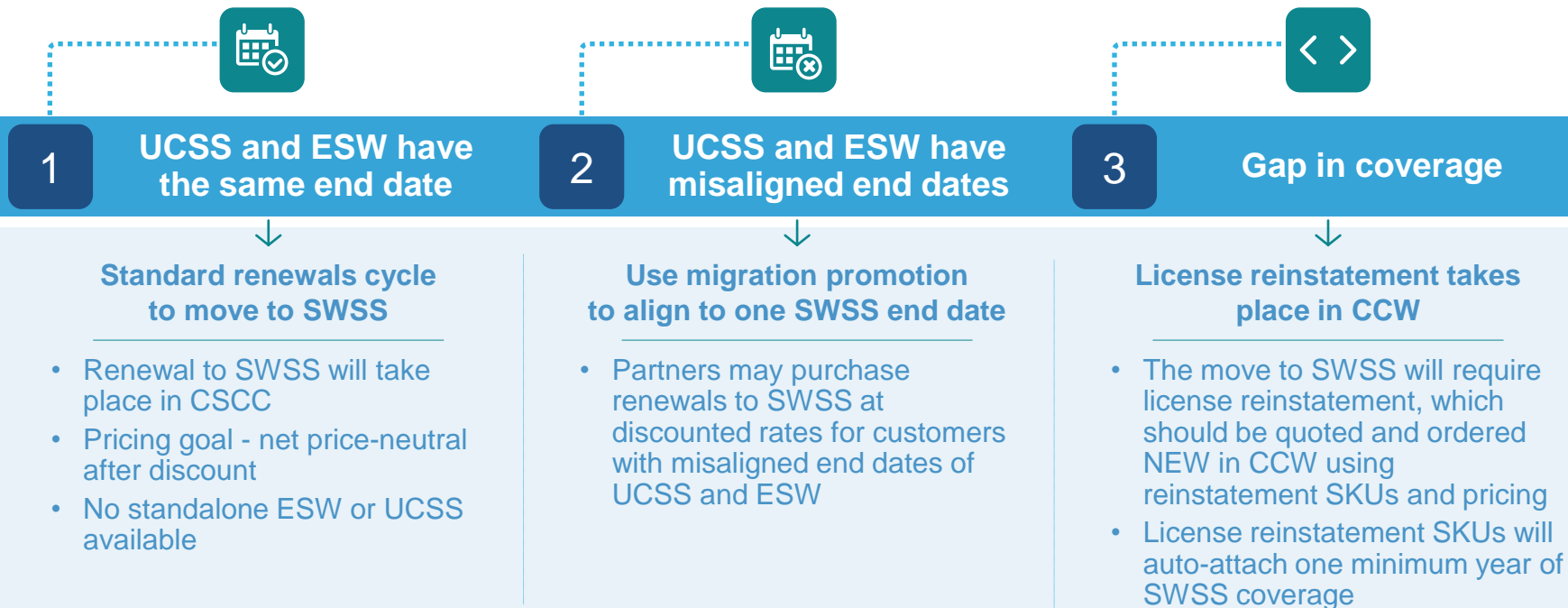
Competitive Landscape

How does Cisco compare to the competition?

	Cisco	Microsoft	Avaya	Mitel	ShoreTel	Genesys
Platform	Software Support Service	Lync 2013	Aura CM	MCD 5.0	Enterprise Edition	Customer Interaction Center
Required Support Policy	Required	Required for EA and Open Value	Required	Required	Required	Required
Entitlements	TAC Updates Upgrades	TAC (limited) Updates Upgrades	TAC Updates Upgrades (optional)	TAC Updates Upgrades	TAC Updates Upgrades Parts	TAC Updates Upgrades
List as Percentage of License	12-20%	Open License: 25% Enterprise Licensing: effectively 13%	SW Support: 6-9% Upgrade: 6%	8x5 TAC: 5-7% 24x7 TAC: 9-12%	Resale: 11.5% of license list on entire solution	15% of license net selling price
Effective Street Price as Percentage of License (Renewal)	8.8%	13.7%	Combined SW Support + Upgrade: 11.6%	8x5 TAC: 9.5% 24x7 TAC: 10%	HW/SW Support/ Upgrade: 11.5%	15%

Contract Renewal Scenarios

Existing UCSS and ESW contracts will need to be renewed to SWSS at the earliest renewal date.



SWSS Links



<http://www.cisco.com/c/dam/en/us/services/collateral/se/SWSS-TrainingOverview.pdf>



<http://www.cisco.com/web/partners/services/sell-and-market/software-support-service.html>



<http://www.cisco.com/c/en/us/products/collateral/unified-communications/unified-communications-software-subscription/eos-eol-notice-c51-732026.html>



http://www.cisco.com/web/about/doing_business/legal/service_descriptions/docs/esw_ucss_eol_announcement.pdf



Appendix G

End-of-Sale and End-of-Life (EoS/EoL) Notices

EoS/EoL Notices

→ WCS

- [End-of-Sale and End-of-Life Announcement for the Cisco® Wireless Control System New](#) (November 5, 2014)

→ Cisco Prime NCS Physical Appliance (Gen 1)

- [End-of-Sale and End-of-Life Announcement for the Cisco Prime™ Network Control System Series Appliances](#) New (November 5, 2014)

→ Cisco Prime NCS 1.0

- [End-of-Sale and End-of-Life Announcement for the Cisco Prime Network Control System 1.0](#) (May 31, 2012)

→ Cisco Prime NCS 1.x, Cisco Prime Infrastructure 1.x

- [End-of-Sale and End-of-Life Announcement for Cisco Prime Network Control System 1.x](#) New (November 7, 2014)
- [End-of-Sale and End-of-Life Announcement for Cisco Prime Infrastructure 1.x](#) New (November 7, 2014)
- [End-of-Sale and End-of-Life Announcement for Cisco Wireless Control System Legacy Licenses](#) (Aug. 31, 2009)



Appendix H

Using the Licensing Interface

How to Get Unique ID (UDI), Virtual Unique ID (VUDI) Information

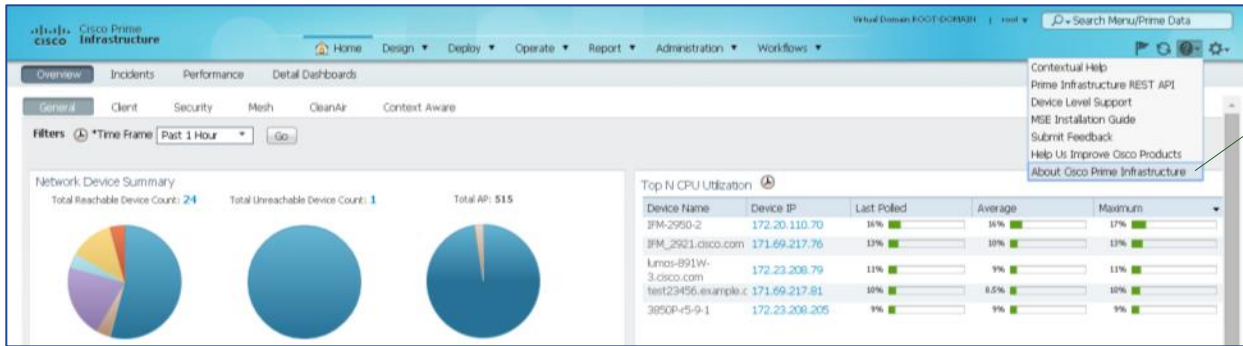
→ Prior to Cisco Prime™ Infrastructure 2.2 (PI 2.1 and earlier) versions all licenses were node-locked (Base, Lifecycle, Assurance Licenses)

- Each node (Cisco® Prime Infrastructure server) is identified by:
 - Unique Device ID (UDI) in the case of physical appliances
 - Virtual UID (VUDI) in the case of virtual appliances
- You will need to have the UDI or VUDI available when you redeem licenses.

→ Beginning with PI 2.2, all licenses come with **no node lock** (Base, Lifecycle, Assurance, UCS® Server, Operations Server licenses)

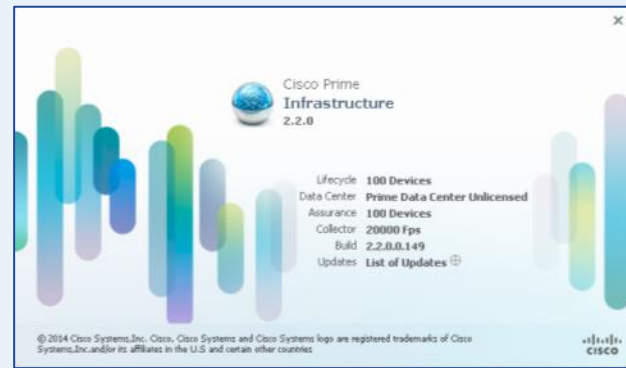
- UDI and VUDI are no longer used
- You no longer need UDI or VUDI for ordering licenses

How to Get UDI and VUDI (Virtual UDI) Information



Log in to Prime™ Infrastructure, and click on the link. Then select about Cisco® Prime Infrastructure.

You will see a pop-up. For PI 2.1 or previous versions UDI or VUDI is highlighted.



You will see a pop-up. For PI 2.2 or later versions there is **NO** UDI/VUDI displayed.

How to View the License Summary

→ Navigate using Administration > Licenses, then click on Licenses under Summary

→ Note: Administration > Interface License Manager will be seen also if valid Assurance licenses are present.

The screenshot shows the Cisco Prime Infrastructure Administration menu. The 'Licenses' option is highlighted with a red circle. The main dashboard displays network device statistics and a table of top N CPU utilization.

Network Device Summary

- Total Reachable Device Count: 99
- Total Unreachable Device Count: 16
- Operational AP: 23

Top N CPU Utilization

Device Name	Device IP	CPU Utilization	Memory Utilization	Interface Utilization
DEN-2960S-SBR	10.9.1.1	62%	63.67%	62%
switch2	10.104.240.30	62%	63.67%	62%
Router_93.Cisco.com	10.104.105.93	40%	38.67%	38%
LON-3945-RBR	10.11.1.1	26%	26%	26%
\${hostname}.cisco.c	10.126.168.138	13%	22.67%	13%

License Summary (PI 2.1 or Earlier)

Cisco Prime Infrastructure Virtual Domain ROOT-DOMAIN | root | Search Menu/Prime Data

Home Design Deploy Operate Report Administration Workflows Assurance License Manager

Licenses

- Summary
- Licenses
- Controller
- MSE
- Files

Licenses
Administration > Licenses > Summary > Licenses

▼ Licenses

Warning: Base license is missing

Type: **Licensed**

VUDI: PRIME-NCS-VAPL:standard211-78:10136740-fe51-11e3-bba9-005056820c9c

Product Id: PRIME-NCS-VAPL

Serial Number: standard211-78:10136740-fe51-11e3-bba9-005056820c9c

Lifecycle: 1% (531 of 50,000 devices used)

Assurance: 0% (0 of 50,000 devices used)

Collector: 0% (Limit: 20,000; Avg: 0 fps)

▼ Controller Licenses ⊕

Controller Count: 5

AP Limit: 642

Type: Permanent

▼ MSE Licenses ⊕

▼ CAS Elements

Permanent Limit by AP: 0

License Summary (PI 2.1 or Later)

Administration > Licenses

Licenses Assurance Licenses

- Summary
- Licenses
- Controller
- MSE
- Files

Licenses

▼ Prime Infrastructure Licenses

Type: **Licensed**

Lifecycle: ⚠ Violation: 101% (101 of 100 devices used)

Assurance: 14% (14 of 100 devices used)

Collector: 7% (Limit: 20,000; Avg: 1,470 fps)

▼ Controller Licenses ⊕

Controller Count: **12**

AP Limit: **1254**

Type: **Permanent**

▶ MSE Licenses ⊕

License Summary

The screenshot shows the Cisco Prime Infrastructure Licenses page. The left sidebar contains a navigation menu with 'Summary', 'Licenses', 'Controller', 'MSE', and 'Files'. The main content area is titled 'Licenses' and shows details for a specific license instance. Callouts are placed over various fields to explain their meaning:

- Type (License or Unlicensed):** Points to the 'Type' field, which is 'Licensed'.
- Unique serial number of this instance:** Points to the 'VUDI' field, which is 'PRIME-NCS-VAPL:ifm-vm135:8e12eff0-839f-11e1-aff6-005056856171'.
- Licensed Lifecycle device count limit:** Points to the 'Device Limit' field, which is '100'.
- Licensed Assurance interface count limit:** Points to the 'Interface Limit' field, which is '500'.
- Count of devices added to the system:** Points to the 'Device Count' field, which shows 'AP = 0, Switch = 0, Router = 0, Total = 0'.
- Provides information about features, permanent compared to evaluation (number of remaining days), and limits:** Points to the 'NAM|WAAS Count' section, which includes a table with columns 'Type', 'Limit', and 'Additional P...'. The table shows two rows: 'Evaluation (53d...)' with a limit of '100' and 'Permanent' with a limit of '500'.

Other visible fields include 'Product Id' (PRIME-NCS-VAPL), 'Serial Number' (ifm-vm1), 'Interface Count' (0), '% Used' (0%), and '% Used (PAM)' (0%).

Adding and Deleting License Files

→ Administration > Licenses > Files > License Files

→ To **add** a license file: Click on the Add button. An upload box will appear. Browse and upload a license file. Log out and log in to the system. The license will be effective.

→ To **delete** a license file: Select the file to be deleted. Click on the Delete button. A confirmation popup box will appear. Click ok. Files will be deleted. Log out and log in from the system to let deletion take effect.

→ License ID (license file name), Feature, Device Limit, Type all provide information about the license file

The screenshot shows the 'License Files' management page. On the left, there is a navigation menu with 'Summary' and 'Files' (selected). Under 'Files', there are three categories: 'License Files', 'Controller Files', and 'MSE Files'. The main content area is titled 'Licenses' and shows the breadcrumb 'Administration > Licenses > Files > License Files'. Below this is a table with the following columns: License ID, Feature, Device Limit, and Type. There is a checkbox in the first column of the table. Below the table are 'Add' and 'Delete' buttons.

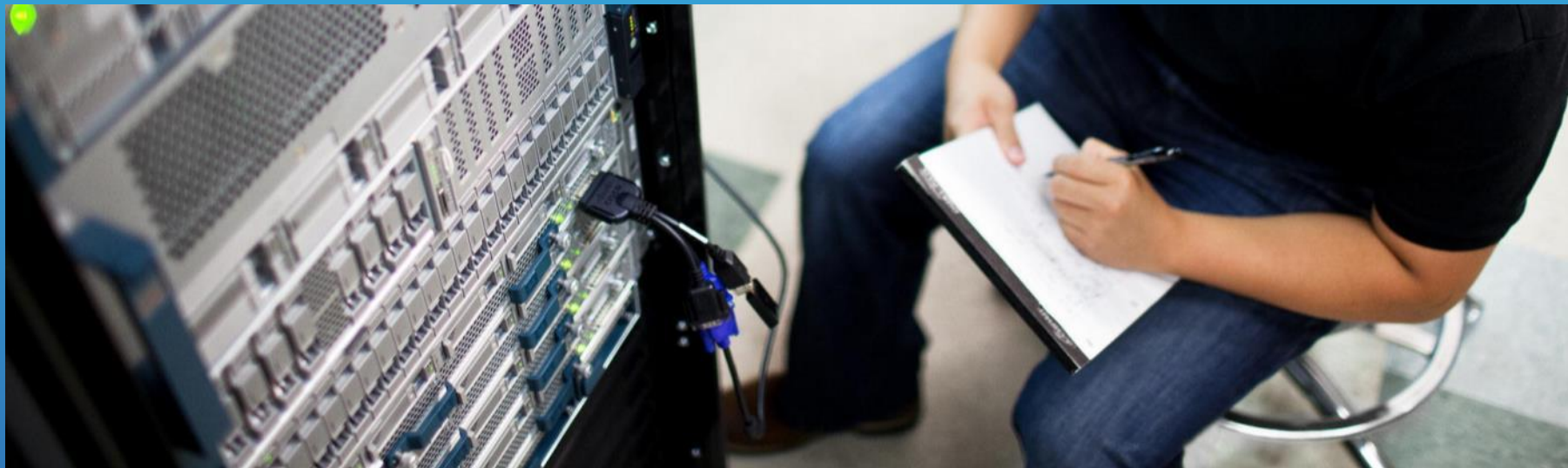
License ID	Feature	Device Limit	Type
<input type="checkbox"/> sam1-1135	Assurance	500	Permanent

Examples of Different License Files

Licenses
Administration > Licenses > Files > **License Files**

<input type="checkbox"/>	License ID	Feature	Device Limit	Type
<input type="checkbox"/>	ncs1-2135	Lifecycle	10000	Permanent
<input type="checkbox"/>	ncs1.0Count135	Lifecycle	10	Permanent
<input type="checkbox"/>	sam1.2135Incemnt	Assurance	50	Permanent
<input type="checkbox"/>	pi-base135	Base	0	Permanent
<input type="checkbox"/>	wcs8-1devcount135	Lifecycle	500	Permanent

→ NCS 1.0 + PI-BASE + PI-Lifecycle + WCS migration licenses applied



Appendix I

Obtaining a Cisco Prime Infrastructure 2.x Evaluation License and Software

Obtaining a Cisco Prime Infrastructure 2.x Evaluation License and Software

→ Evaluation Software and License

- You can download Cisco Prime™ Infrastructure 2.2 evaluation software from Cisco® Marketplace. Go to <http://www.cisco.com/go/nmsevals> (login required). Cisco Prime Infrastructure 2.2 includes a built-in evaluation license valid for 60 days and 100 devices.
- If you need a custom evaluation license, send a request to ask-prime-infrastructure@cisco.com.

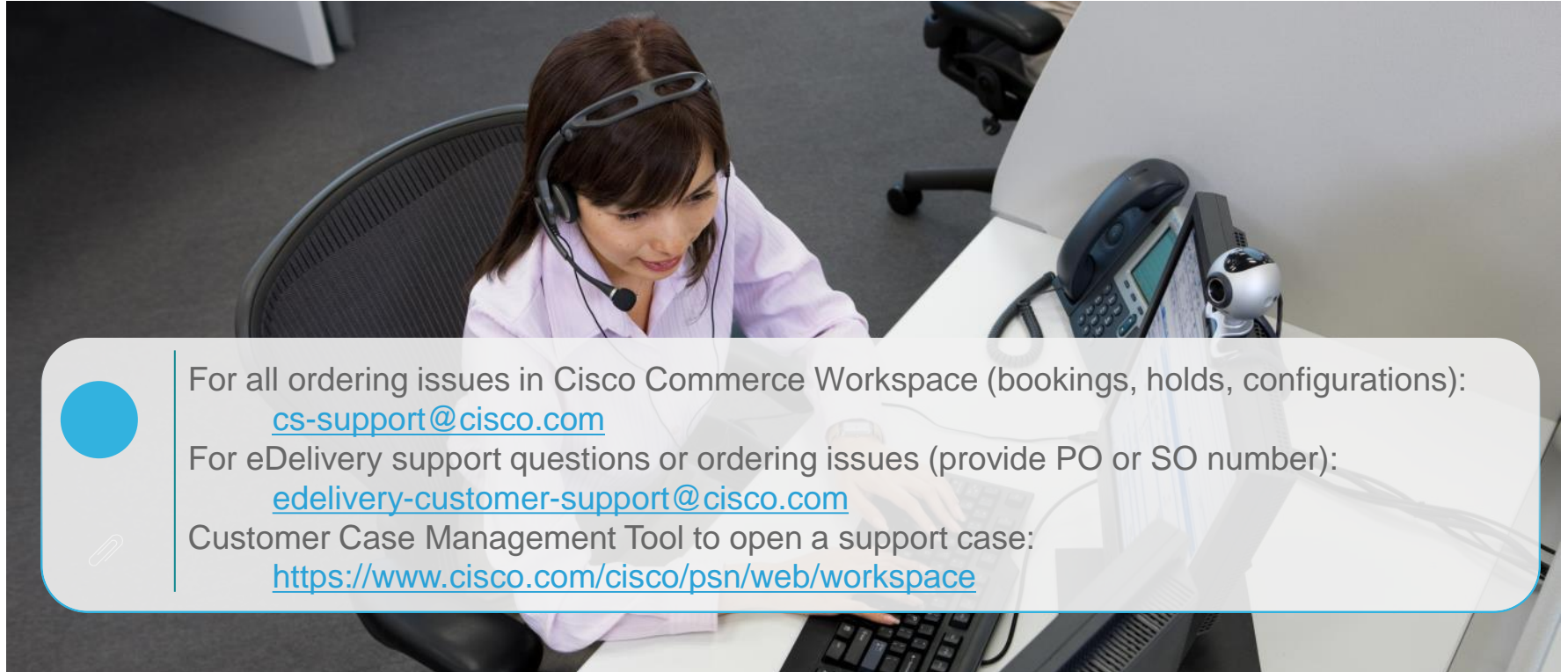
There is no Cisco Technical Assistance Center support for the Cisco Prime evaluation software.



Appendix J

Contact Information for Ordering and Licensing Assistance

Contact Information for Ordering and Licensing Assistance → ToC



For all ordering issues in Cisco Commerce Workspace (bookings, holds, configurations):

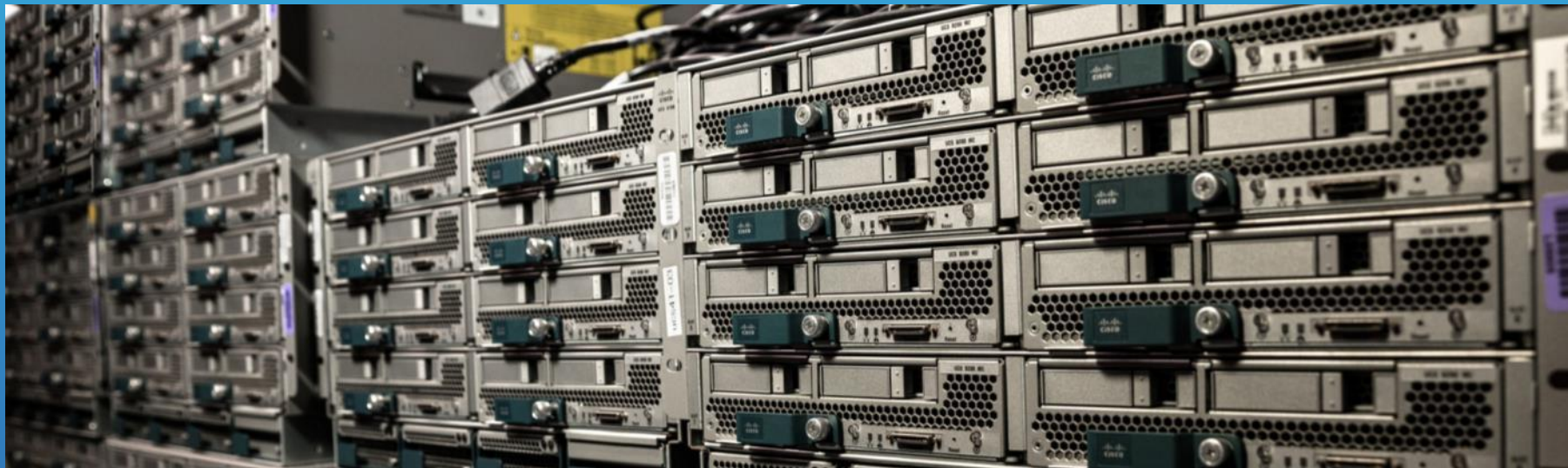
cs-support@cisco.com

For eDelivery support questions or ordering issues (provide PO or SO number):

edelivery-customer-support@cisco.com

Customer Case Management Tool to open a support case:

<https://www.cisco.com/cisco/psn/web/workspace>



Appendix K

Additional Resources

(Release Notes, Installation Guide, Deployment Guide)

Additional Resources

Note: Please use the document related to the latest release of Cisco Prime™ Infrastructure (2.2)

→ Links to Release Notes, Software Downloads, Deployment Guide

- http://www.cisco.com/c/en/us/td/docs/net_mgmt/prime/infrastructure/2-2/release/notes/cpi_rn.html
- <https://software.cisco.com/download/navigator.html?mdfid=284145020&i=rm>
- <http://www.cisco.com/c/en/us/support/cloud-systems-management/prime-infrastructure/products-installation-guides-list.html>
- <http://www.cisco.com/c/en/us/support/cloud-systems-management/prime-infrastructure/tsd-products-support-series-home.html>

→ Cisco® Prime Infrastructure 2.x Ordering and Licensing Videos on Demand (VoD)

- Licensing Basic (Module 1) - <https://www.youtube.com/watch?v=k05Thlqpp0s>
- How to Order a New Instance (Module 2) - <https://www.youtube.com/watch?v=BXnRE1rG27k>
- How to Upgrade (Module 3) - <https://www.youtube.com/watch?v=Fv1k62-3PPk>



CISCO

TOMORROW starts here.