



Cisco IOS Packaging

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Agenda

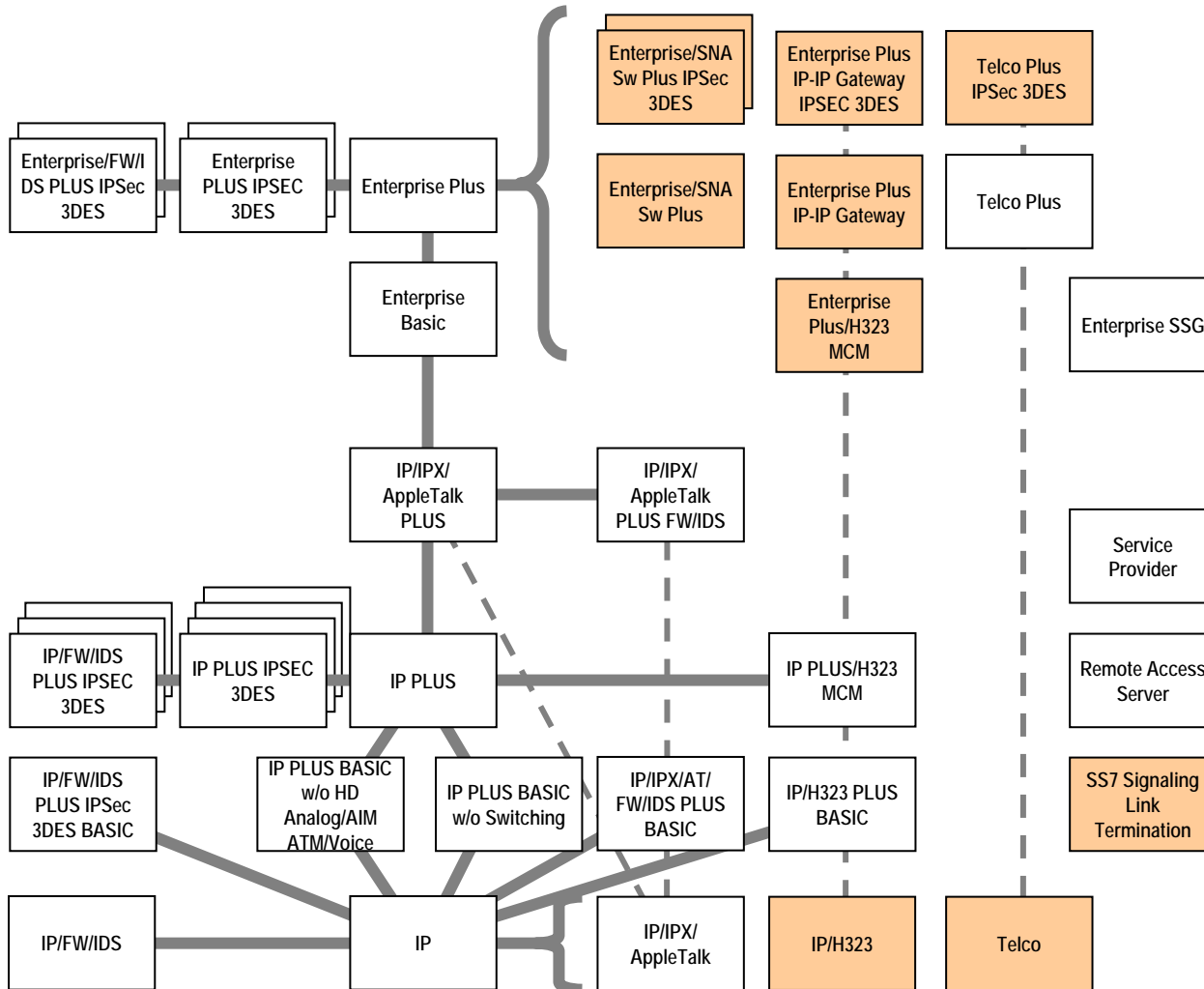
- **Goals and objectives**
- **Cisco IOS® Packaging history**
- **Cisco IOS Packaging for Cisco Routers and Switches**
- **Benefits**
- **References**

Cisco IOS Packaging Objectives

- **Streamline Cisco IOS Packaging for Cisco IOS Software platforms**
- **Facilitate Cisco IOS Software feature parity across hardware products**
- **Provide consistency in image names**
- **Offer consistent software pricing**
- **Minimizes changes and disruptions for customers**

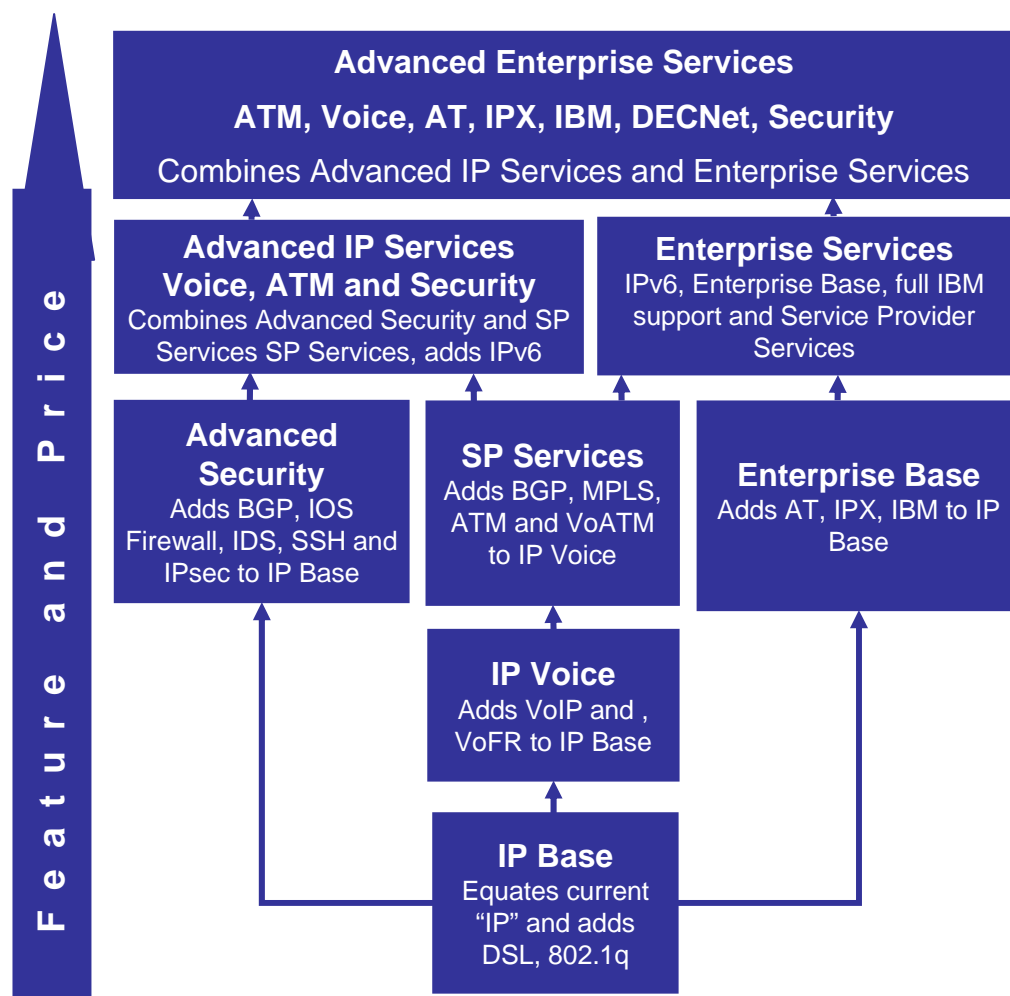
The Legacy – Early 2003

Unparalleled flexibility ...
... but at a price of complexity. Finding the optimal feature set can be difficult.



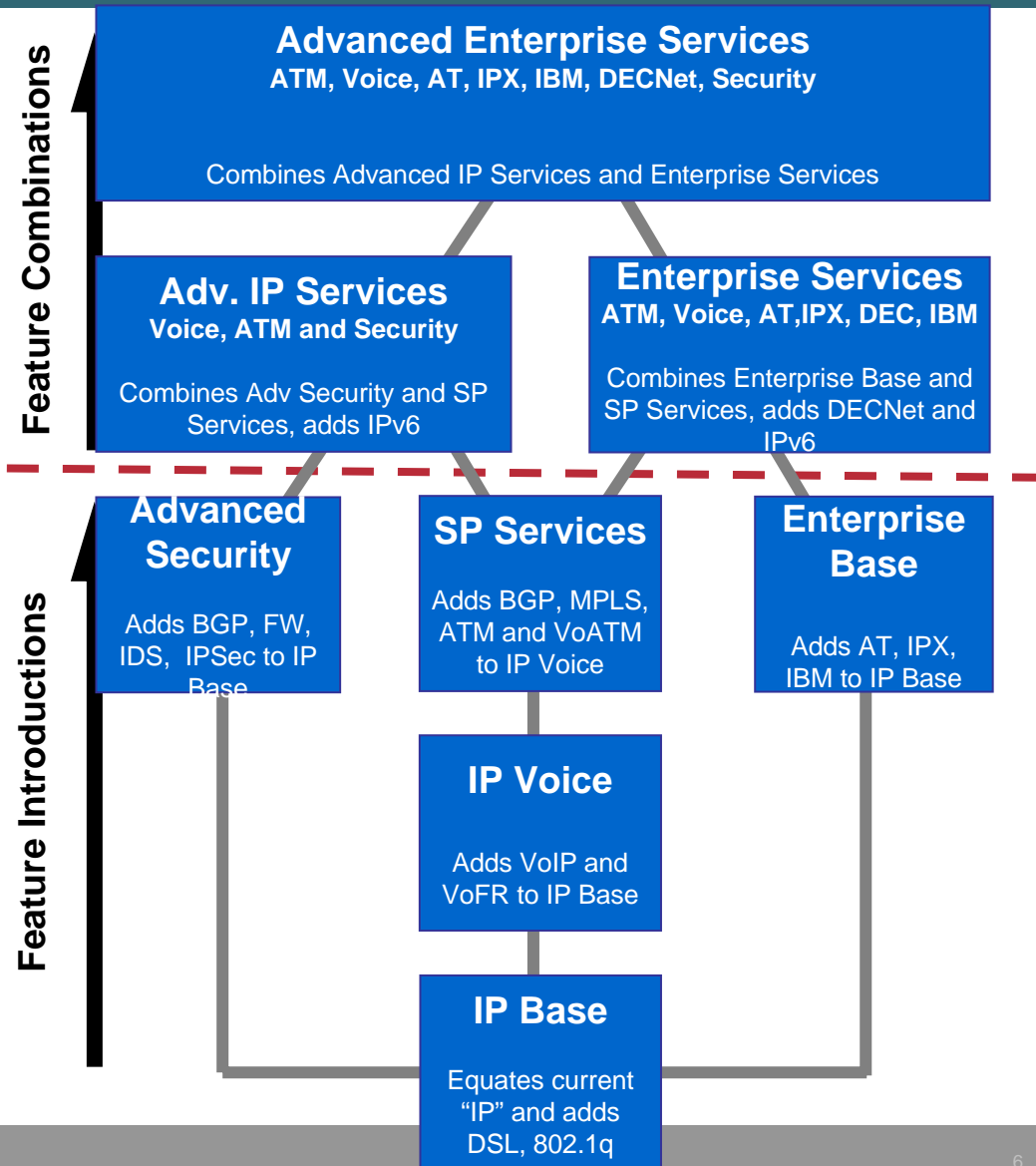
Cisco IOS Packaging For Access Routers

- Supported on Cisco 1700, 2600XM, 2691, and 3700 Series and their next-generation series, beginning in Release 12.3
- Optional in Release 12.3; required in Release 12.3T and all future releases
- All new images include SSH
- There will be one non-SSH images based on IP Base for customers with import/export limitations
- “Special Purpose” feature sets will continue to be available on a per platform basis



Benefit: Predictable Functionality

- **Feature inheritance ensures purposeful relationships between feature sets**
- **Common Feature sets for 1800, 2800, and 3800 Series routers.**
- **Hardware limitations still apply for services like ATM and MPLS.**



Benefit: Intuitive Naming Conventions

Before

File name:	c2691-ik9o3s-mz.122-8.T.bin
Product ID:	S269CHK9-12208T
Product Descr.:	Cisco 2691 Series IP/FW/IDS Plus IPSEC 3DES
File name:	c1700-bk9no3r2sv8y7-mz.122-8.T.bin
Product ID:	S17Q7V8K9-12208T
Product Descr.:	CISCO 1700 IOS IP ADSL IPX AT IBM VOX FW IDS PLUS IPSEC 3DES

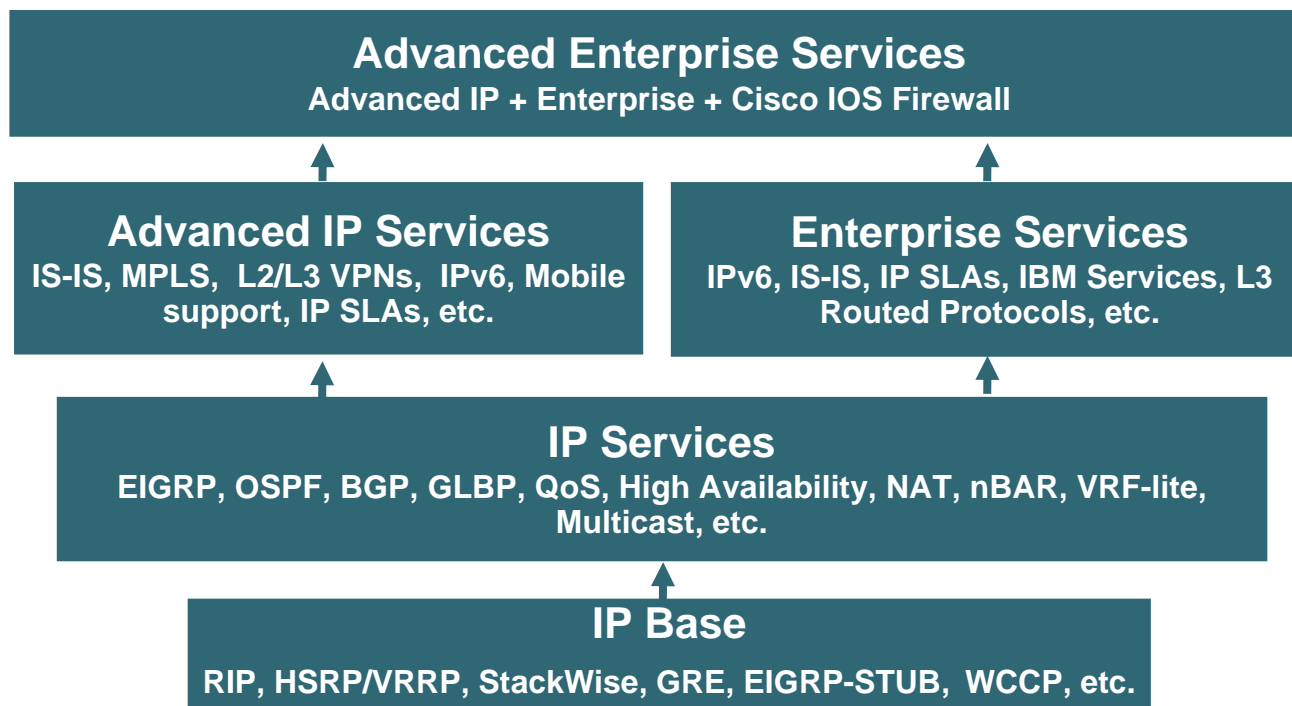
After

File name:	c2691- entbase -mz.123-1.T.bin
Product ID:	S269 EB -12301T
Product Descr.:	Cisco 2691 Series Enterprise Base
File name:	c1700- entbase -mz.123-1.T.bin
Product ID:	S17 EB -12301T
Product Descr.:	Cisco 1700 Series Enterprise Base

- **Cross-platform common naming nomenclature**
- **Tighter naming conventions for each platform**
- **Image file name - Product ID - Product Description**

Cisco IOS Packaging for Cisco Switches

Cross-Platform Images, FCS: April 2005



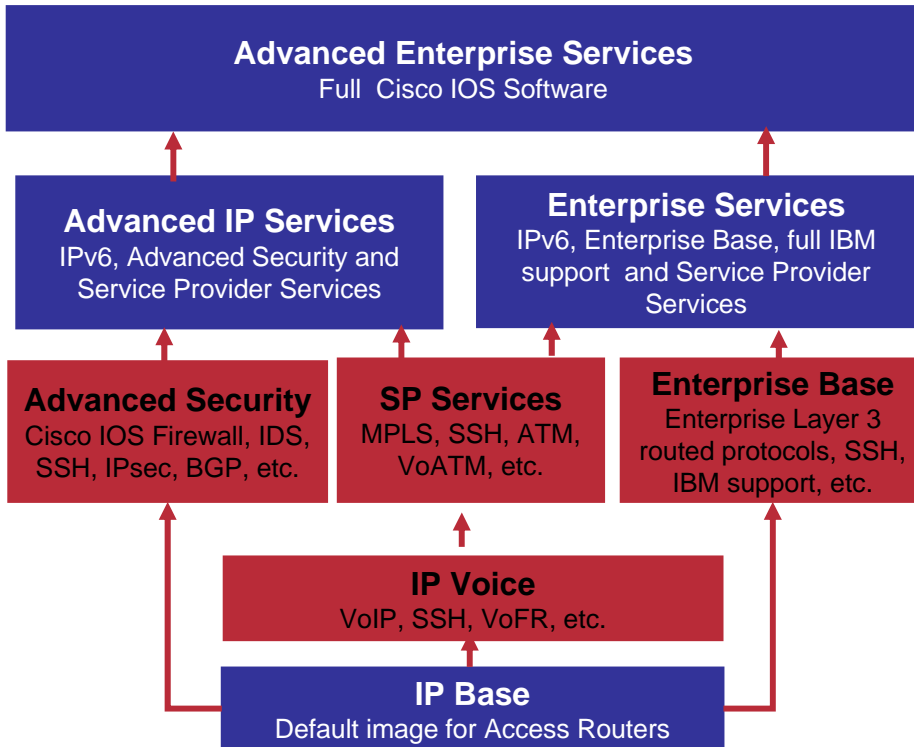
Cisco IOS Packaging for LAN Switches

Cross-Platform Images, FCS: April 2005

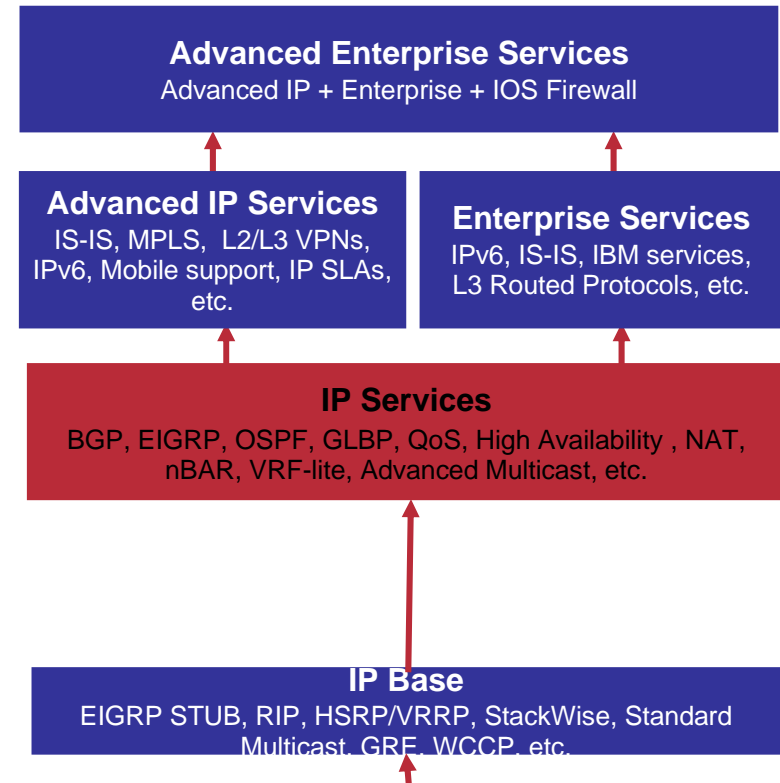


Cross-Platform Packages for Routers & Switches

Cisco Access Routers



Cisco LAN Switches

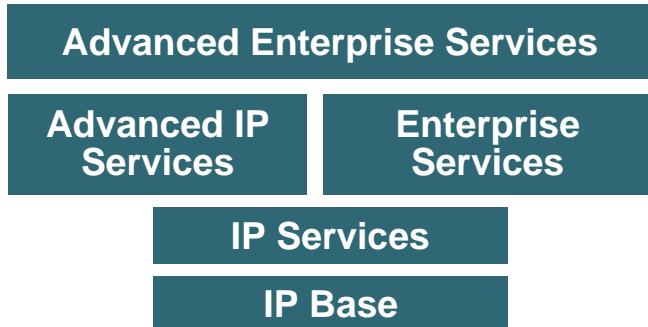


BLUE - Same for Routers and Switches

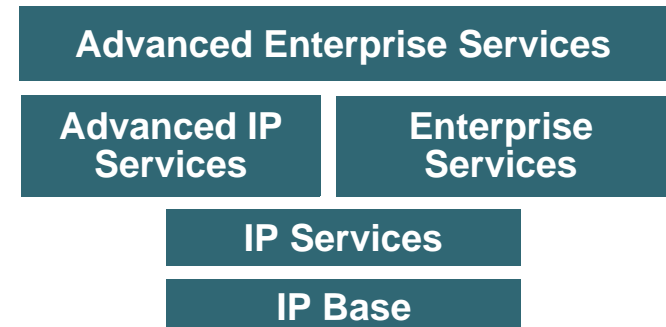
Cisco IOS Packaging for Cisco Switches

Cross-Platform Images FCS: April 2005

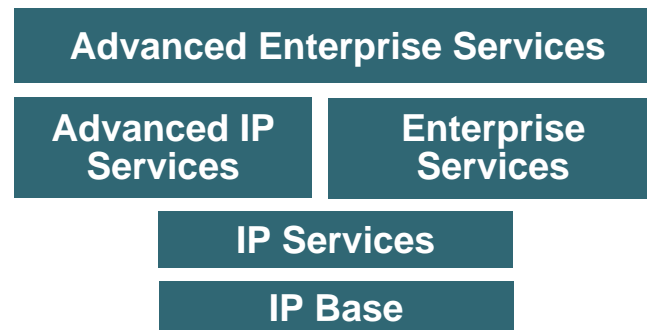
Cisco Catalyst 6500



Cisco Catalyst 4500



Cisco Catalyst 2970, 3560, 3750 & Metro



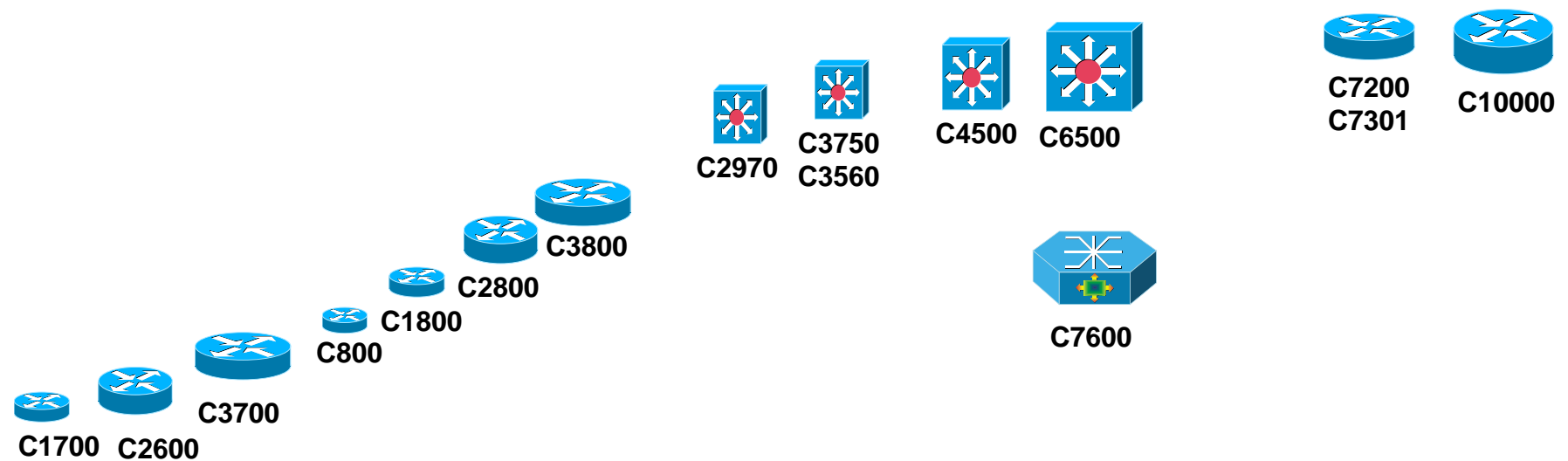
Cisco IOS Packaging Roadmap

**Release 12.3
ATG
May 2003**

**Release 12.3T
Integrated
Services
Routers
November 2004**

**Release 12.2S
Cisco Switches; Cisco
7600 Series Router
April 2005**

**Release 12.4T
Mid-Range Routers
Q3CY'05**



Cisco IOS Packaging Roadmap

Access

Enterprise & Aggregation/Edge

Core/Carrier

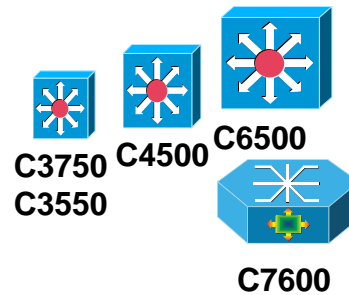
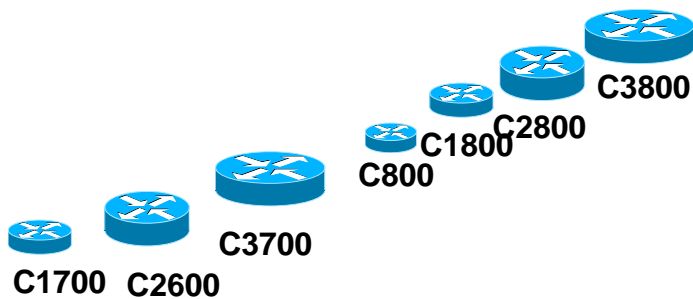
**Release
12.3
May
2003**

**Release
12.3T
November
2004**

**Release 12.2S
April 2005**

**Release 12.4T
July 2005**

**Release
12.2S**



References

- **Cisco IOS Packaging Package Planner**
Identifies the feature content of each new package
www.cisco.com/cgi-bin/front.x/ios/package_planner/index.cgi
- **Cisco Download Software Area**
Determines memory impact of new packages
www.cisco.com/public/sw-center/index.shtml

Additional Information

- **Cisco IOS Packaging:**

www.cisco.com/go/packaging

- **Cisco IOS Packaging Council**

Addresses critical customer questions and the Cisco IOS Packaging strategic direction

ios-packaging-council@cisco.com

- **Cisco IOS Packaging Product Bulletins - Releases 12.3 and 12.3T; per product family**

www.cisco.com/en/US/products/sw/iosswrel/ps5460/prod_bulletins_list.html

- **Fariba Farniam, Cisco IOS Packaging Product Manager**

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Backup Slides



Important Tools

- **Cisco Software Advisor**

Allows user to select software based on feature requirements

www.cisco.com/pcgi-bin/Support/CompNav/Index.pl

- **Cisco IOS Upgrade Planner**

Allows users to view all major releases, platforms, and software features from a single interface

www.cisco.com/cgi-bin/Software/iosplanner/Planner-tool/iosplanner.cgi

- **Cisco IOS Feature Navigator**

Allows search by feature or by release, and compare different releases and/or feature sets

www.cisco.com/go/fn/

- **All tools can be accessed from**

www.cisco.com/kobayashi/support/tac/tools.shtml

All tools are available for registered customers and partners.

Special Purpose Images

- **Requirements may vary by platforms**
- **These images are in addition to the cross-platform images**
- **Current Special-Purpose images include:**

Cross-platform

Lawful intercept

1 image based on Advanced Enterprise Services (Cisco 2600, 2800, 3700, and 3800 Series)

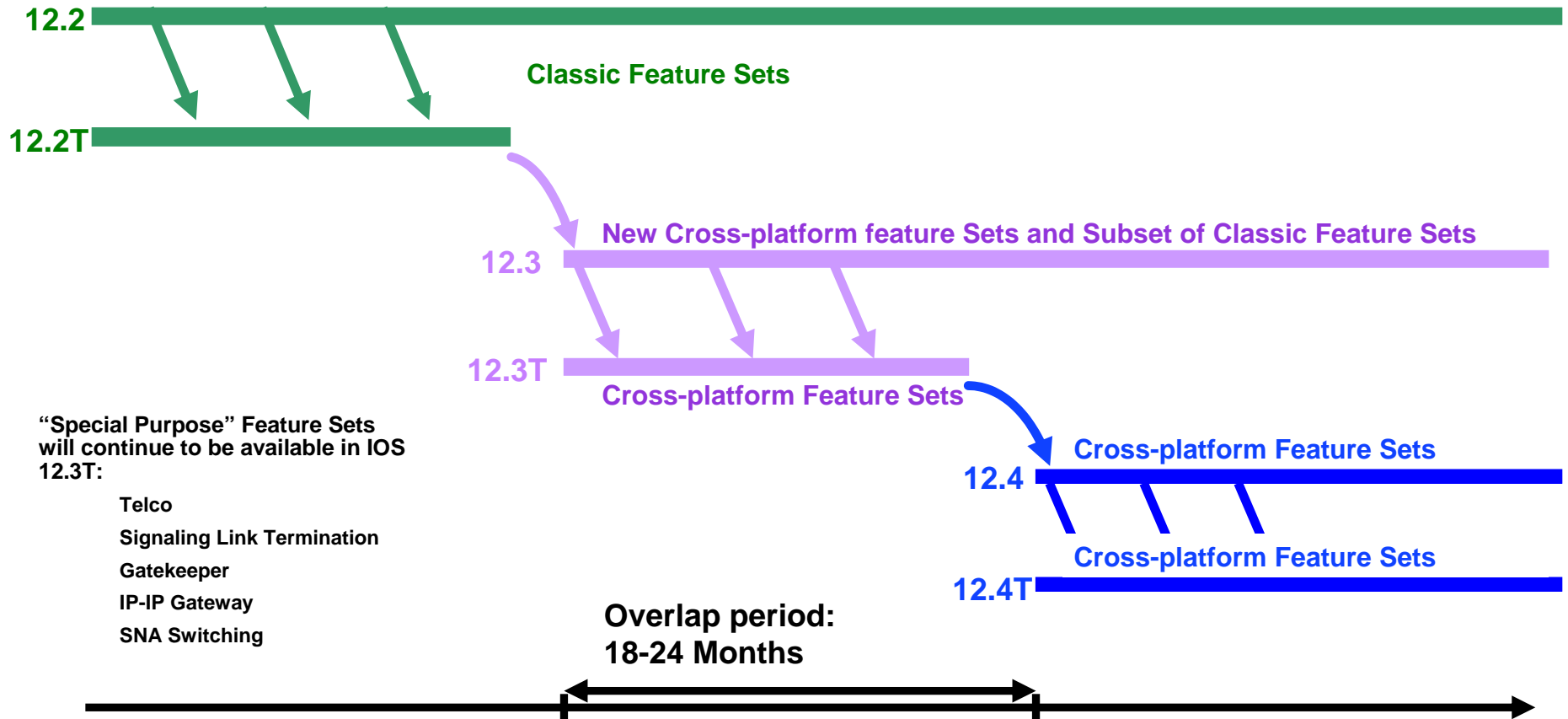
Platform-specific

H.323 Gatekeeper Basic

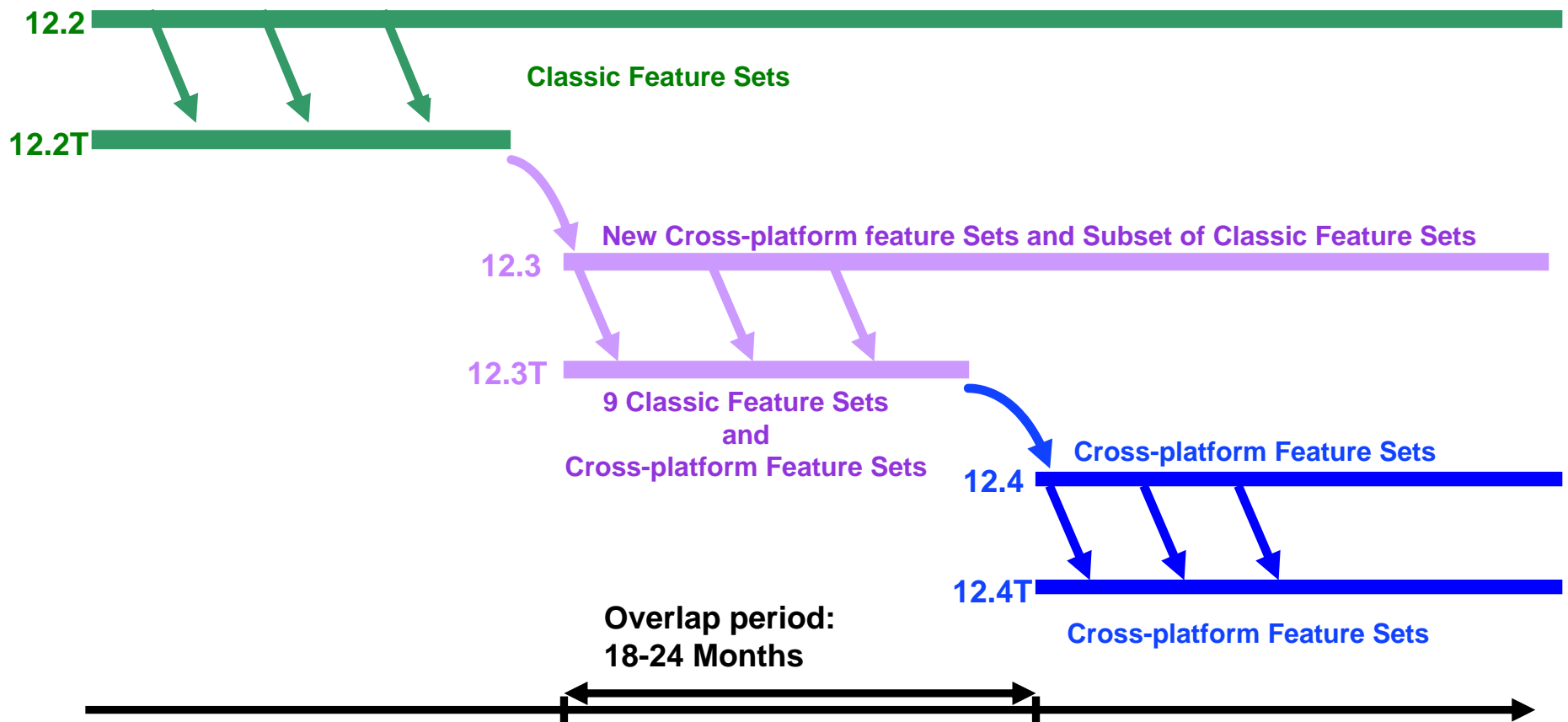
H.323 GK Premium (Cisco 2600, 2800, 3700, and 3800 Series)

SNA Switching (Cisco 2600, 2800, 3700, and 3800 Series)

Cisco 2600XM and 3700 Series Transition Plan



Cisco 1700 Series Transition Plan



New Naming Convention Feature Set, Image Names & Product Codes

- **Base:** entry-level image
- **Enterprise:** Layer 3 / Enterprise protocols
- **Services:** Cisco IOS Software premium features (ie: MPLS, Netflow)
- **Advanced:** VPN, IPsec/3DES, Firewall, Encryption, IDS

	Feature Set	Image Names	Product Codes
1.	IP Base	c2600- ipbase -mz	S2600 IPB -12301T
2.	IP Voice	c2600- ipvoicek9 -mz	S2600 IPVK9 -12301T
3.	Enterprise Base	c2600- entbasek9 -mz	S2600 EBK9 -12301T
4.	Advanced Security	c2600- advsecurityk9 -mz	S2600 ASK9 -12301T
5.	SP Services	c2600- spservicesk9 -mz	S2600 SPSK9 -12301T
6.	Advanced IP Services	c2600- advipservicesk9 -mz	S2600 AIK9 -12301T
7.	Enterprise Services	c2600- entservicesk9 -mz	S2600 ESK9 -12301T
8.	Advanced Enterprise Services	c2600- adventerprisek9 -mz	S2600 AEK9 -12301T

Platforms Included

		IP Base	Adv Sec	IP Voice	Ent Base	SP Services	Adv IP Services	Ent Services	Adv Ent Services
Cisco 3845	Yes	X	X	X	X	X	X	X	x
Cisco 3825	Yes	X	X	X	X	X	X	X	x
Cisco 3745	Yes	X	X	X	X	X	X	X	x
Cisco 3725	Yes	X	X	X	X	X	X	X	x
Cisco 3660-CO Series	No	Special-purpose "Telco" Feature Sets in 12.3M and 12.3T							
Cisco 3660-ENT Series	No	Classic Feature Sets in 12.3M and 12.3T							
Cisco 3640/3640A	No	Classic Feature Sets in 12.3M and 12.3T							
Cisco 3620	No	Classic Feature Sets in 12.3M only							
Cisco 2800 Series	Yes	X	X	X	X	X	X	X	x
Cisco 2691	Yes	X	X	X	X	X	X	X	x
Cisco 2600XM Models	Yes	X	X	X	X	X	X	X	x
Cisco 2600 non-XM Models	No	Classic Feature Sets in 12.3M only							
Cisco 1841	Yes	X	X		X	X	X	X	x
Cisco 1751-V, 1760	Yes	X	X	X	X	X	X	X	x
Cisco 1721, 1751	Yes	X	X		X				
Cisco 1720, 1750	No	Classic Feature Sets in 12.3M only							
Cisco 1710	No	Classic Feature Sets in 12.3M and 12.3T							

Ease of Ordering

Cisco IOS Software Feature Packs



Cisco Configuration Tool

Configure

You are logged in as

Configuration Details | **Select Options** | Enter Options | Classic Menu Option

3725-SW-SPARECD
Cisco 3725 Series Configurable Feature Pack

To add options, select item category on the left, then select options from the list displayed on the right.

Use the [Cisco IOS Software Selector](#) for software selection assistance.

STEP 1: Select Item Category | STEP 2: Choose Options and Select Desired Quantity Below

Item Category	Item Name	Price
3725 SPARE CD SOFTWARE	None Selected	
S3725AEK9 - ADVANCED ENT SERVICE S	(1) S372IPV-12302T	USD 700.00
S3725ESK9 - ENTERPRISE SERVICES SO	Cisco 3725 Ser IOS IP VOICE	
S3725AIK9 - ADVANCED IP SERVICES SO	(1) S372IPV-12304T	USD 700.00
S3725SPK9 - SP SERVICES SOFTWARE	Cisco 3725 Ser IOS IP VOICE	
S3725ASK9 - ADVANCED SECURITY SOF	(1) S372IPV-12304XD	USD 700.00
S3725EB - ENTERPRISE BASE SOFTWARE	Cisco 3725 Ser IOS IP VOICE	
S3725IPV - IP VOICE SOFTWARE	(1) S372IPV-12303	USD 700.00
S372AHK2 - ENTERPRISE/FW/IDS PLUS I	Cisco 3725 Ser IOS IP VOICE	
S372AK2 - ENTERPRISE PLUS IPSEC 3DI	(1) S372IPV-12305	USD 700.00
S372AP - ENTERPRISE PLUS SOFTWARE	Cisco 3725 Ser IOS IP VOICE	
S372BHP - IP/IPX/AT/FW/H3725		
S372BP - IP/IPX/AT PLUS		
S372CHK2 - IP/FW/IDS PLUS IPSEC 3DES		
S372CK2 - IP PLUS IPSEC 3DES SOFTWA		
S372CP - IP PLUS SOFTWARE		
S372CH - IP/FIREWALL SOFTWARE		
S372B - IP/IPX/AT		
S3725AR1K9 - ENTERPRISE/SNASwitch F		
S3725AR1P - Enterprise/SNASwitch Plus		
S372APU - ENTERPRISE PLUS/H323 MCH		

Cisco Configuration Tool

Configure

You are logged in as: IAMACDON

Configuration Details | **Select Options** | Enter Options | Classic Menu Option

CISCO2811-V/K9
2811 Voice Bundle,PVDM2-16,SP Serv,64F/256D

To add options, select item category on the left, then select options from the list displayed on the right.

Use the [Cisco IOS Software Selector](#) for software selection assistance.

STEP 1: Select Item Category | STEP 2: Choose Options and Select Desired Quantity Below

Item Category	Item Name	Price
POWER CABLES	None Selected	
SW Upgrade Options for 2800 bundles	(1) S28NUSPSK9-12308T	USD 1,700.00
Cisco 2800 IOS SPSK9-AISK9 FEAT SET F	Cisco 2800 IOS SPSK9-AESK9 FEAT SET F	
Cisco 2800 IOS SPSK9-AESK9 FEAT SET F	Cisco 2800 IOS SPSK9-AESK9 FEAT SET FACTORY	
Power Supply Options	UPG FOR BUNDLES	
2811 DRAM Upgrade Options		
2800 Compact Flash Upgrade Options		
2811 Network Module Options		
Integrated DSP Bundle Upgrade Options		
INTEGRATED DSP OPTIONS		
2800 HWIC, WIC, VWIC, VIC Options		
2800 AIM CARD OPTION CLASS		
2811 Feature License for IP Telephony		
2800 Smart Serial Cable Option		
2800 CABLE OPT		

Bundle Cisco IOS Software Upgrades

Configurable Cisco IOS Software Spare CDs

CISCO SYSTEMS

