



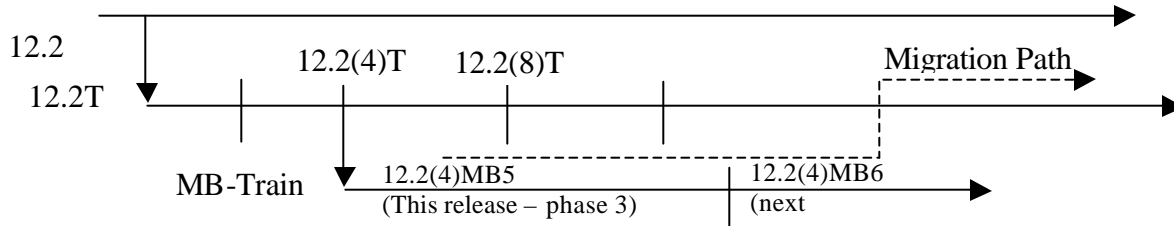
Cisco IOS Early Deployment Release 12.2(4)MB5

Introduction

Based on open industry standards, Cisco's IP Transfer Point (ITP) product is designed for transporting SS7 traffic over IP (SS7oIP) networks. Its design provides significant cost efficiencies and scalability enhancements over legacy SS7 networks. Using the IETF's M2PA and SCTP protocols, the initial release of the ITP product provided the base functionality to offload SS7 traffic to IP. Subsequent releases provided the full functionality found in typical legacy signaling transfer point (STP) nodes, such as global title translation (GTT), gateway screening and ISUP transport. In addition, support for high speed links (HSL) was added. Using the M3UA and SUA protocols, this latest release of the ITP provides signaling gateway functionality between legacy SS7 network and IP-enabled signaling end points (SEP) nodes. Please refer to the product data sheet for detailed product specifications.

Migration Guide

Diagram 1 below displays Cisco 12.2(4)MB5 release functionality relative to the 12.2T release. This diagram also identifies the recommended migration path.



Cisco IOS Release 12.2(4)MB5

12.2(4)MB5 is a maintenance release for the ITP. This release offers additional ITP functionality, including support for M3UA and SUA signaling gateway protocols as well as the China MTP/SCCP variant.



Key Benefits

SS7oIP frees up link capacity while maintaining stringent levels of reliability and stability that are characteristic of SS7 protocols. SS7oIP will relieve the signaling network from the overwhelming message volume placed on the wireless operators SS7 network in cost-efficient manner. The ITP roadmap provides a migration path to converge today's SS7 and IP networks that is comfortable for the most conservative mobile operator. Moreover, mobile data services require a fundamental shift from legacy mobile core networks to high capacity, high-speed IP networks. The transition to SS7oIP will allow for rapid deployment of emerging IP-based intelligent network applications and services.

The strategic value of ITP is to offer a migration path to an all IP-core network. This systematic approach introduces achievable milestones that utilize existing investments while eliminating further capitol expenditures in legacy equipment and facilities.

The Cisco ITP is based on Cisco's native Cisco IOS Software that resides on proven Cisco high-performance router platforms. Three critical differentiating factors include:

- The Cisco ITP offers high-performance routing with state-of-the-art routing protocols, algorithms, and features (for example, quality of service [QoS]). This performance applies to both IP and Signaling System 7 (SS7) packet throughput. This approach enables revenue-generating IP-based applications by deploying Internet Engineering Task Force (IETF) SS7oIP standards.
- The Cisco ITP is a single device that takes advantage of the economies of scale across the breath of IP platforms, a single network management perspective, space occupancy, power demands, and staffing/training.
- The standards (Signaling Transport [Sigtran])-based offering has great synergy with voice-over -IP (VoIP) solutions that require cost-efficient and high-bandwidth transport of signaling of data in mobile or Public Switched Telephone Network (PSTN) VoIP networks.

For more detailed information about the platforms and features being delivered in 12.2(4)MB5, please reference the following documents:

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122relnt/2600/rn2600mb.htm>

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios/122/122relnt/7000/rn7000mb.htm>

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122newft/122limit/122mb/122mb5/index.htm>

Support

Cisco IOS software release 12.2(4)MB5 follows the standard Cisco support policy as indicated in the following link:

<http://www.cisco.com/warp/public/437/37.html>

Product Numbers

Cisco IOS Release 12.2(4)MB5 Feature Sets, Images, and Memory Recommendations



Platform	Software Feature Set	Product Code	Image	Flash	DRAM
2650	IP Transfer Point	S26ITP-12204MB5	c2600-itp-mz	32MB	64MB
7500-RSP8	IP Transfer Point	S75ITP-12204MB5	rsp-itpv-mz	32MB	256MB
2650	IP Transfer Point	S26ITPSG-12204MB5	c2600-itp-mz	32MB	64MB
7500-RSP8	IP Transfer Point	S75ITPSG-12204MB5	rsp-itpv-mz	32MB	256MB

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