



PRODUCT BULLETIN NO. 2558

CISCO IOS EARLY DEPLOYMENT RELEASE 12.2(23)SW1

PRODUCT OVERVIEW

Operating in a pure TDM mode, the Cisco IP Transfer Point (ITP) provides compelling cost efficiencies and investment protection as an alternative to adding SS7 capacity via the legacy STP approach. Another option enabled by the ITP is the use of IETF protocols for transporting SS7 over IP. In this case, SS7oIP frees up link capacity on legacy equipment 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 a 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.

Table 1. Features Table

Feature	Description
HSL BITS clocking	BITS clocking for high speed links (HSL).

NEW FEATURES

The new feature released with this version of IOS includes:

- HSL BITS clocking – Adds support for BITS clocking of SS7 high speed links (HSL). HSL is supported on the 7301, 7200VXR and 7500 series ITP hardware platforms. Reference the ITP datasheet for additional details.

ORDERING INFORMATION

Table 2. Ordering Information for Cisco ITP using this IOS release

Part Number	Description
S26ITP-12223SW1	SS7 transport for 2600XM series
S26SG-12223SW1	Signaling Gateway for 2600XM series
S72ITP-12223SW1	SS7 transport for 7200VXR series
S72SG-12223SW1	Signaling Gateway for 7200VXR series
S72MG-12223SW1	MAP Gateway for 7200VXR series
S73ITP-12223SW1	SS7 transport for 7301
S73SG-12223SW1	Signaling Gateway for 7301
S73MG-12223SW1	MAP Gateway for 7301
S75ITP-12223SW1	SS7 transport for 7500 series
S75SG-12223SW1	Signaling Gateway for 7500 series
S75MG-12223SW1	MAP Gateway for 7500 series

FOR MORE INFORMATION

For more information about the Cisco ITP, visit <http://www.cisco.com/en/US/products/sw/wirelssw/ps1862/index.html> or contact your local account representative.

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