



Newsbrief WORLD TELECOM LABS

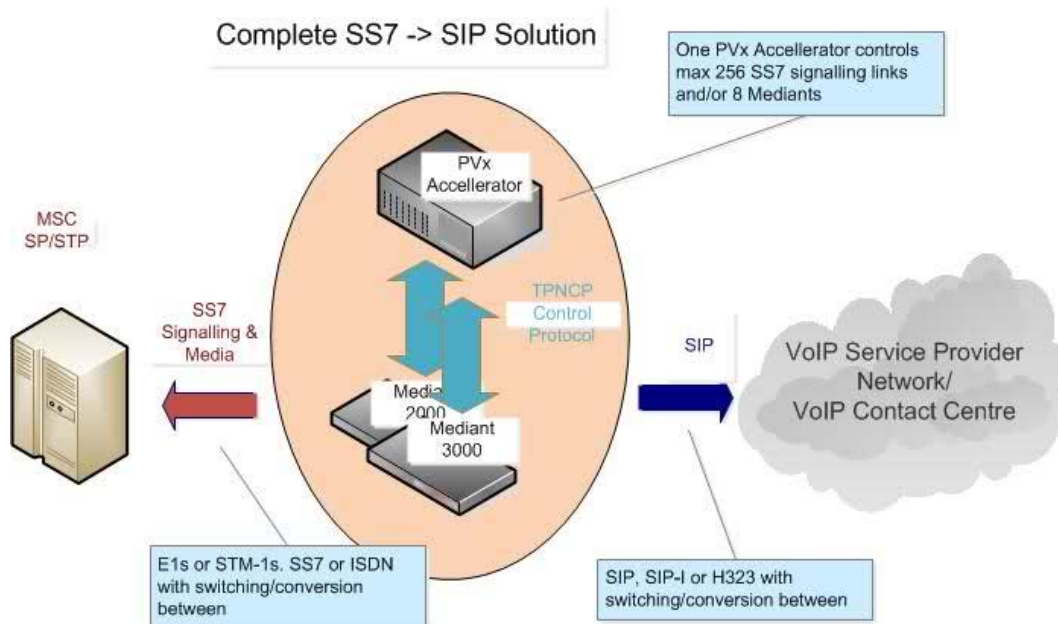
Edition April 2012

## True Carrier-Grade SS7 Signalling Support for E1 & STM-1 Mediants

WTL have been working with AudioCodes for many years to offer carrier-grade SS7 signalling for the Mediant<sup>1</sup> family. With 1000s of E1s installed in 100s of operators around the world this is the stable, reliable, high performance solution that leading carriers expect. There are times when SS7 is essential for a project – for regulatory or functionality reasons or perhaps because that is the only connectivity available. WTL's PVx Accelerator adds this to the Mediant, from a small PoP of a few E1s up to a major signaling gateway with multiple STM-1s.

Bridging the legacy and VoIP worlds:

- Connectivity to fixed & mobile networks
- Link SIP application servers to legacy switches
- Extends the life of installed TDM switches
- Connect to incumbent operators
- Create small SS7 PoPs
- SS7 and ISDN support on the same Mediant



### Benefits

- Mediant & Signalling gateway set up & managed via WTL single GUI
- Makes Mediant a true multi-protocol switch
- Vast experience, many SS7 signaling variants supported
- Up to 1000 VoIP calls per chassis (and stackable beyond this)
- Good for migration toward all-VoIP world
- HA (High Availability) version for carrier-grade applications
- High performance: multiple Signalling links on multiple gateways
- Up to 200 CPS under sustained load
- One PVx Accelerator gives protocol conversion for multiple Mediants
- Works with E1 or STM-1 Mediants

## How does it work?

The PVx Accelerator is a high performance, multi-protocol SoftSwitch & Signalling Gateway which can convert between SS7 and VoIP traffic in a highly transparent manner. The PVx makes the Mediant a true multi-protocol switch with total freedom to route calls between ISDN, SS7, SIP, SIP-I and H323. TDM-to-TDM, VoIP-to-VoIP and TDM-to-VoIP switching can all be managed using the PVx and Mediant. One PVx can support up to 256 SS7 signalling links and these links can be on one, or many, Mediants. The PVx acts as a MGC (Media Gateway Controller) for the Mediants and controls them locally or remotely via a reliable IP connection. The high performance of the PVx (handling 200 call set ups per second) means that large scale networks can be created using E1s or STM-1s across the whole Mediant 2000, 3000 and 8000 range signalling and for higher capacities, units can be stacked. A single PVx will perform this service for many Mediants if required.

As traffic patterns change over time the PVx allows an easy migration to an all-VoIP world, the Mediants can be removed as the E1 usage decreases and the PVx can be used in a stand-alone mode without any Mediant. This makes the solution also very competitive for the enterprise market.

The product is also available in a HA (High Availability) mode where 2 or more PVxs in Active/Standby failover mode will automatically manage the Mediants.

## WTL & The PVx Range

World Telecom Labs is a Belgium-based company which has long been a leader in the provision of VoIP switches, Pre-Paid applications and signaling gateways for emerging carriers and telecom service operators. WTL has an installed base of 100,000s of voice ports with service providers worldwide switching billions of minutes of VoIP traffic using WTL equipment.

The WTL PVx family has been designed and perfected over many years to give a range of added-value services to Mediant gateways. WTL is a long term technology partner of AudioCodes since becoming one of the company's first customers in Europe more than 10 years ago.

Please [contact us](#) to learn more details about this solution.

We will be in touch soon with news of other Signalling, Protocol Conversion, Bandwidth Saving and Ease of Use products which can enhance the Mediant gateway.

<sup>1</sup> Mediant is a trademark of AudioCodes Inc.