

WORLD



TELECOM LABS



WTL/Audiocodes 'India' Project

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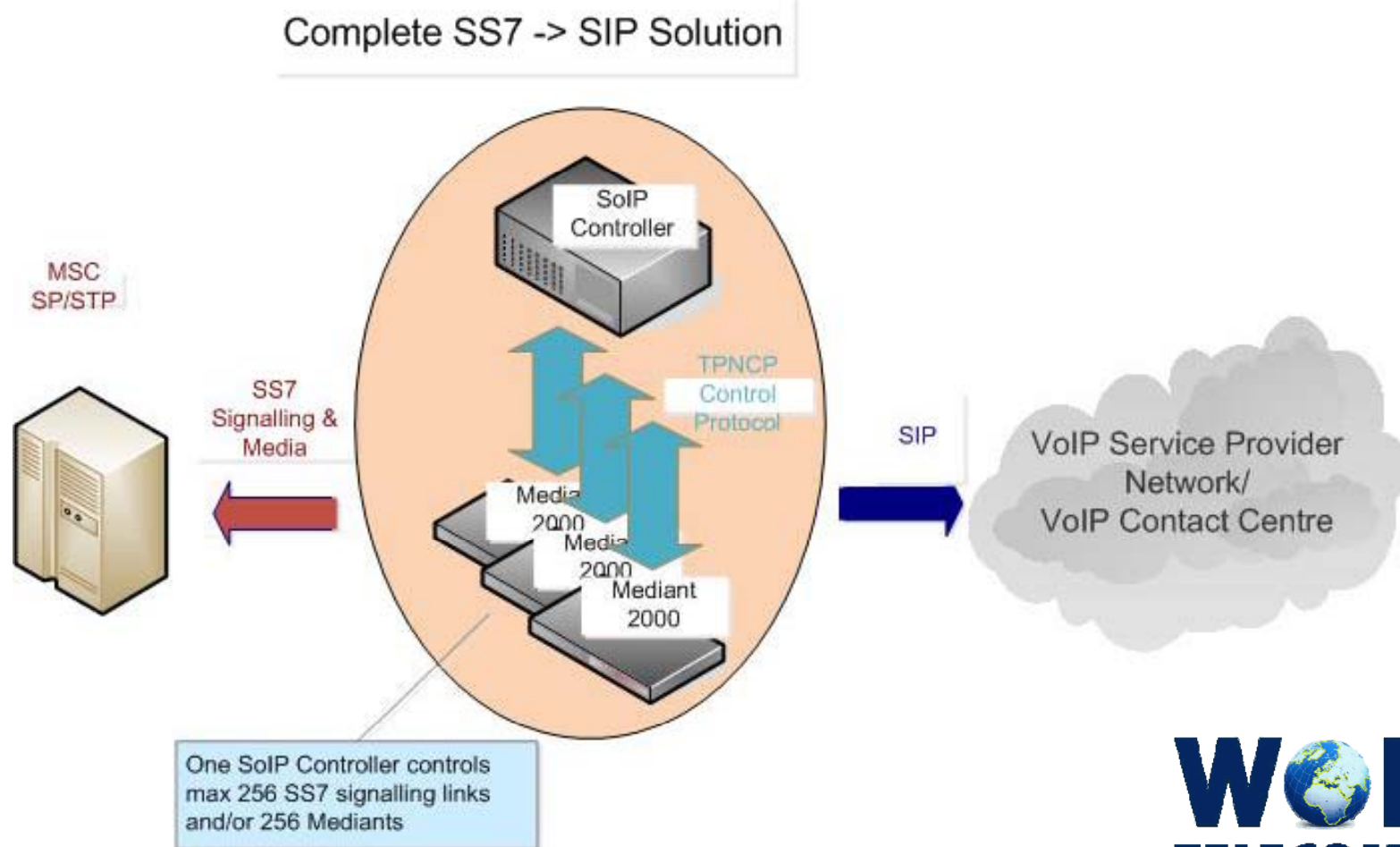
Indian Project Overview

- Linking SS7 MSCs of mobile network (Ericsson & Siemens)
- to Lucent SoftSwitch
- and then SIP to Avaya Customer Care / IVR
- In & Outbound calls
- Lots of tricky call forwarding/transfers etc. (use SIP Refer)

Indian Project Overview 2

- SoIP Controller is Signalling Gateway [SS7 ISUP to SIP]
- Controls PCM and RTP media on one or more Mediant 2000s (M2K)
- M2K links to legacy TDM over E1s & passes SS7 signalling messages SoIP
- SoIP Controller is 1U server running Solaris
- Set up by very easy-to-use web based EMS

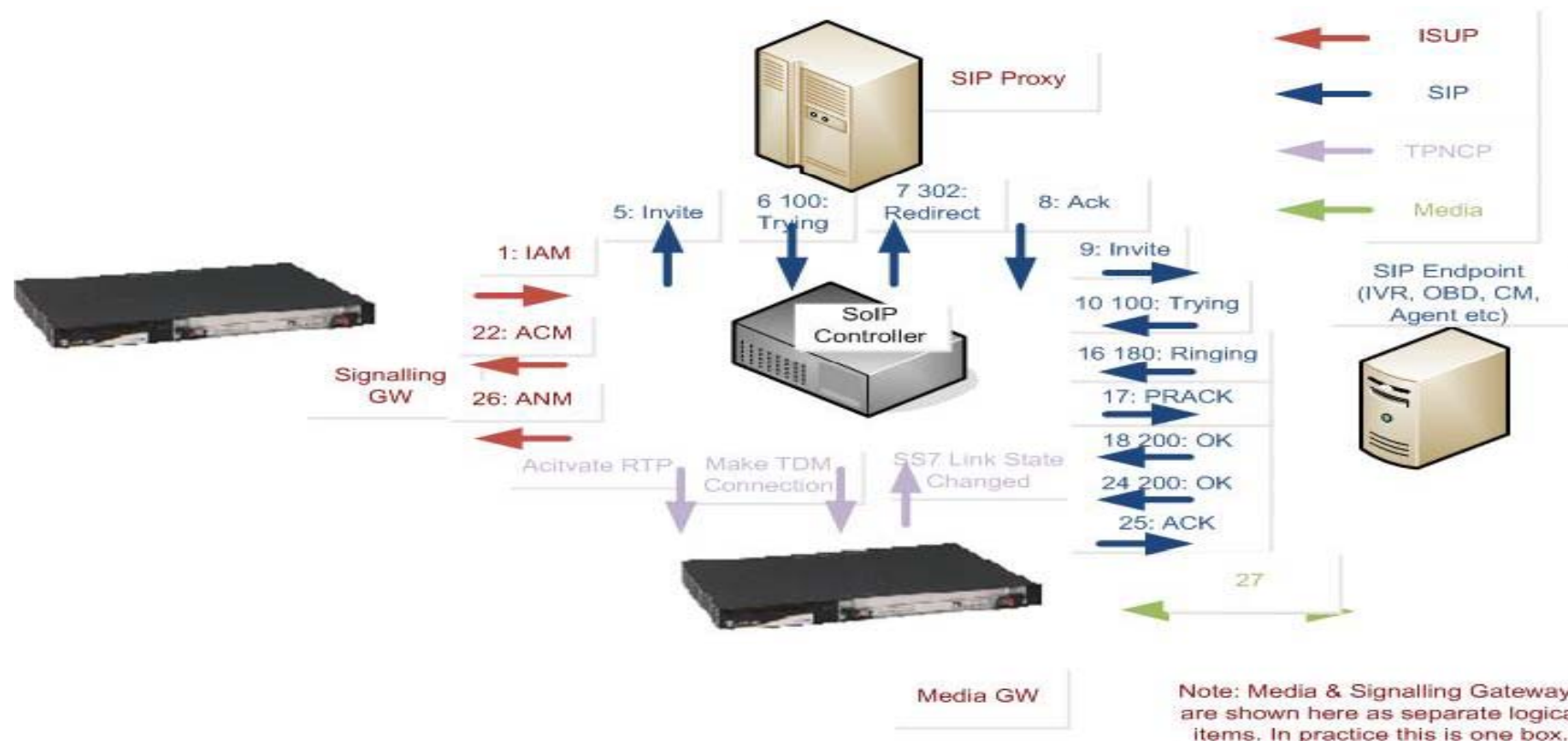
Architecture Overview



Solution Description

- SS7 up to MTP2 layer is terminated on M2K
- Sends all MTP3 payload to SoIP over the proprietary Audiocodes protocol TPNCP SoIP acts as MGC processing all MTP3 messages, converts ISUP messages to SIP call control messages
- SoIP controls media also using the TPNCP protocol.
- SoIP has extensive call routing capabilities.

Message Flow



Design Considerations

- M2K gateway is available in 4, 8, 12, 16 Spans
- SoIP Controller can control a maximum of 256 SS7 Signalling Link Sets
- Link Sets may shared over a maximum of 256 M2K gateways
- ISUP currently supported; MAP under development

Project To Date

- 6 MSC locations installed
- Extensive acceptance testing carried out by customer
- Equipment for 22 more sites shipped
- Multiple training sessions held

Total Project

- SoIP connects GSM network to Customer Care IVR system
- Nationwide coverage
- SoIP in every MSC location in India
- Year 1: approx 200 E1s controlled
- Year 2: approx 600 E1s
- Year 3: approx 800 E1s

Support Arrangements

- WTL train local partner & Audiocodes India and gives 3rd level support
- WTL's Indian partner (RB Comtec) does on site work
- Audiocodes India trains customer
- Simulated network in WTL lab for training / troubleshooting

Future ...

- Expansion of current network over next 3 years
- Trials starting with a 2nd 'major mobile operator' in India
- Plan to run SolP Controller on CPU blade inside Mediant chassis

Thank You
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