CUBE SIP Trunk Features

Three important SIP Trunk Features

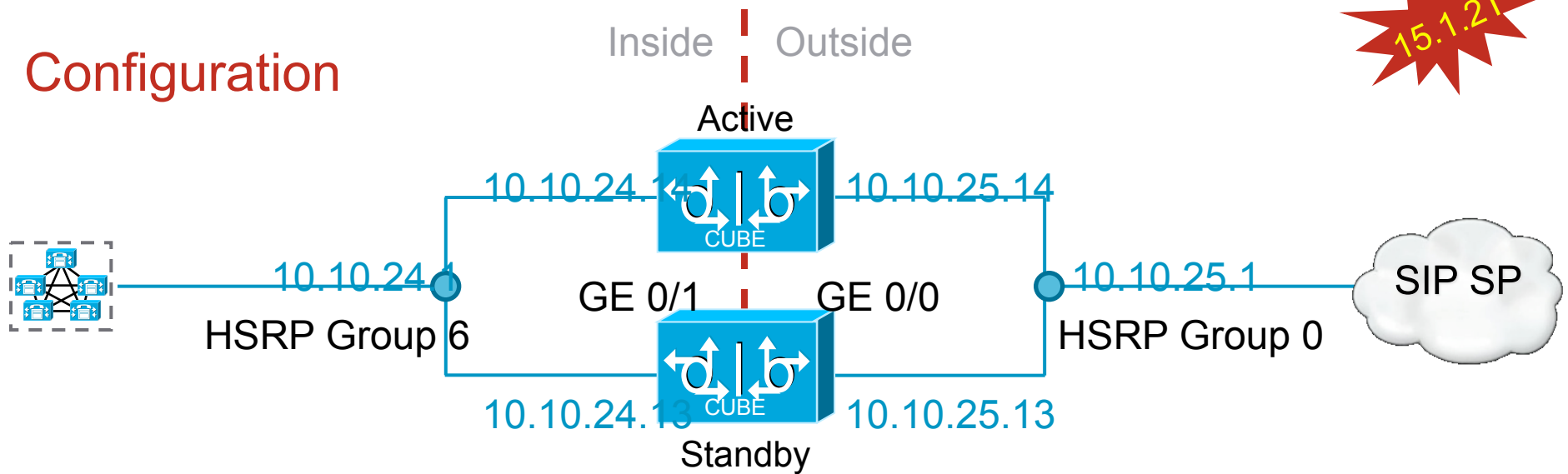| Feature	When Available	Comments
Packet Capture for SIP to create Ladder Diagrams via Ethereal	Now, Shipping in IOS 12.4(20)T and later	Helpful in Troubleshooting and DEMARCATION
Box to Box Redundancy: Box to Box redundancy via HSRP on ISR G2	Expected to be shipping in 15.1(2)T available in July/August 2010. Contact you account team for BETA image today.	Media and call is preserved on box to box failover
Background Noise Cancellation: Noise Cancellation on SIP Trunks	Expected to be shipping within 1 year.	Cancels noise from CALLER in loud area such as SUBWAY.

SIP Ladder Diagram Method– SHIPPING NOW / MAY 2010

- Uses ACL to capture packets to Trace File

- Trace File stored on router

- Trace File moved from router to PC

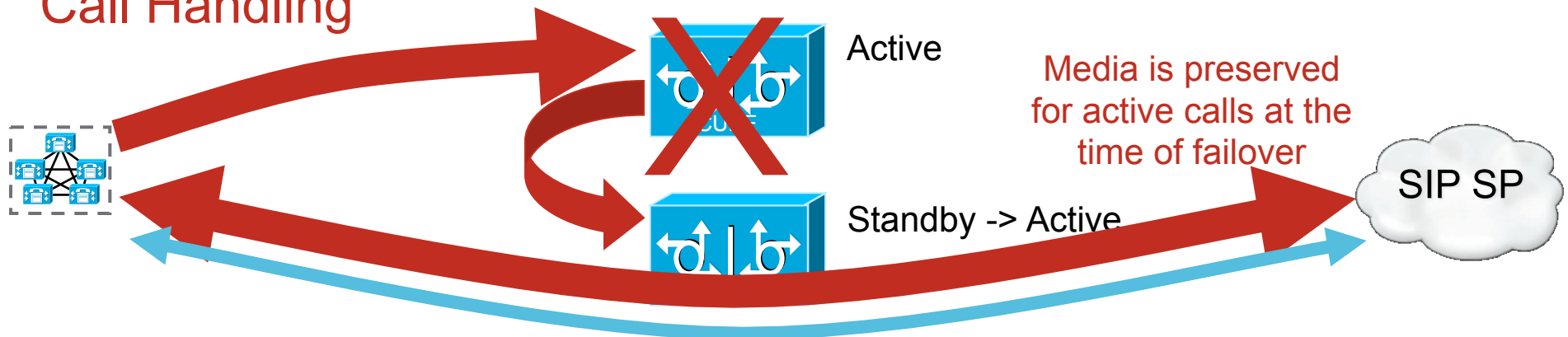- File loaded into Ethereal and Ladder diagram created.

CUBE 8.5 ISR G2 Box-to-Box Redudancy: SHIPPING IN JULY/AUGUST 2010
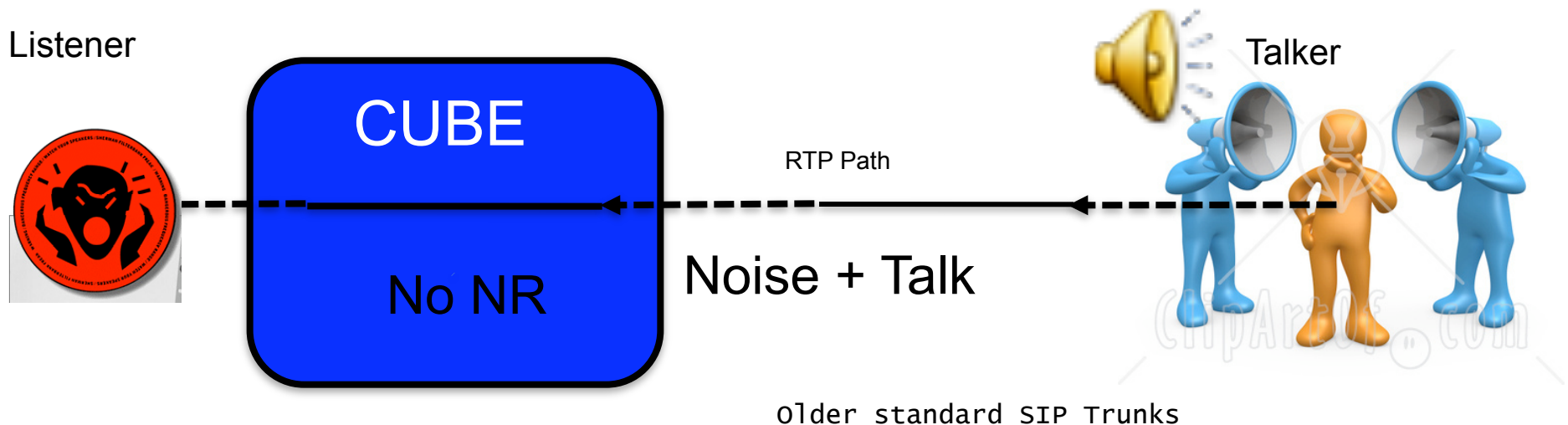
15.1.2T

Configuration

Inside | Outside

Active

10.10.24.14 — 10.10.25.14

CUBE

10.10.24.1 — 10.10.25.1 — SIP SP

HSRP Group 6 — GE 0/1 | GE 0/0 — HSRP Group 0

10.10.24.13 — CUBE — 10.10.25.13

Standby

Call Handling

Active

Media is preserved for active calls at the time of failover

SIP SP

Standby -> Active

New calls set up after the failure have signaling and media through the Standby (now Active) CUBE

Background Noise Causes Bad Experiences

Listener

CUBE

No NR

RTP Path

Noise + Talk

Older standard SIP Trunks

Talker

The next generation of SIP Trunking features will focus on media path optimization.

This is an example of what a bad call sounds like on a SIP Trunk today in a noisy environment.

Background Noise Reduction:
SHIPPING WITHIN NEXT YEAR

Listener

CUBE

RTP Path

Talker

NR

Noise + Audio

New Features on SIP
Trunks will improve
audio experience.

Listener

CUBE

RTP Path

Talker

No NR

Noise + Talk

Older standard SIP Trunks

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