



**codima**  
technologies

redefining the art of network management

**Technical Bulletin  
Codima Toolbox  
autoVoIP™**

**400/1**

**SUBJECT  
DISTRIBUTED ANALYSIS  
SCALING autoVoIP™ DEPLOYMENT TO HANDLE  
MONITORING LARGER NETWORKS**

This bulletin is designed to provide you with guidance  
when selling autoVoIP™ into larger networks

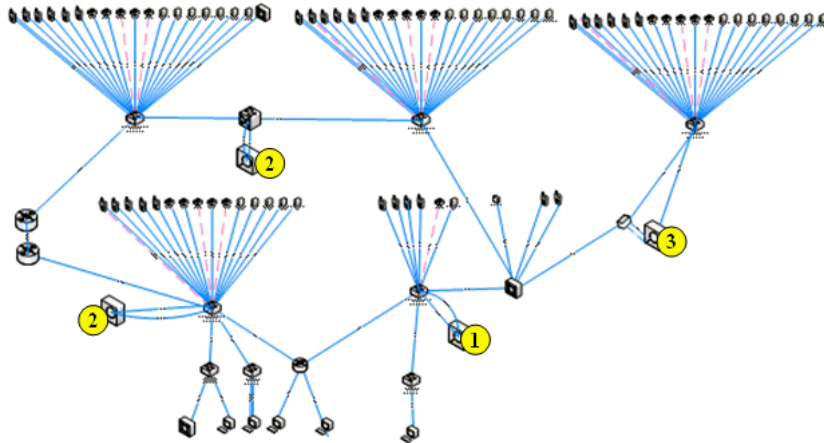
July 2007

## DISTRIBUTED ANALYSIS SCALING autoVoIP™ DEPLOYMENT TO HANDLE MONITORING LARGER NETWORKS

### Deployment Positions Required

The solution required to monitor larger networks would need to include at least one autoVoIP™ system with Remote Management and a number of autoVoIP™ Probes

Diagram showing possible deployment positions:



Deployment point examples:-

- 1 Attach Manager to a free port on Switch
- 2 Attach autoVoIP Probes to Span Port on Switches and to a free Switch Port– scope subject to port configuration
- 3 Attach autoVoIP Probe to Half/Full Duplex connection, monitor using TAP and to a free Switch Port

Note: The Probes need a connection to a free switch port to run active functions, which include communication with Manager

The autoVoIP™ deployment requirements will be subject to the available monitoring points on the network, for example it will be necessary to establish:

- How the user is going to connect each autoVoIP™ system into the network, e.g., using Switches (with Span Ports), Hubs and/or Taps - this will be based on where on the network it is possible to tap into the relevant traffic flow (i.e., SIP, SDP, RTP and RTCP frames), See Appendix A and Help entry titled :- *How to deploy autoVoIP™*
- Where the span ports are physically located.
- What the capability of the span ports is, for example does it support RSPAN or VSPAN
- How the span ports are to be configured to enable the autoVoIP™ systems to monitor the SIP and RTP/RTCP traffic flows.

### Configuration

When deciding on the monitoring points/span port configuration the following has to be taken into account:

- The number of Phones/Call a single autoVoIP™ system can process, see FAQ:-*How many Phones/Calls can a single autoVoIP™ system process?*
- Mirror/Span ports limits on the volume of traffic they can mirror, so that limit combined with the autoVoIP™ phone/call limits for a single probe will enable you to judge where you can locate probes
- The type of Mirror/Span port, for example if the switch supports VSPAN you can potentially have a single probe monitoring traffic from multiple VLANs
- The traffic flows on your network (see Appendix A)

## APPENDIX A – TYPICAL TRAFFIC FLOW INFORMATION

Diagram - SIP phones only

### Flow information

Signalling  
Media  
Reporting

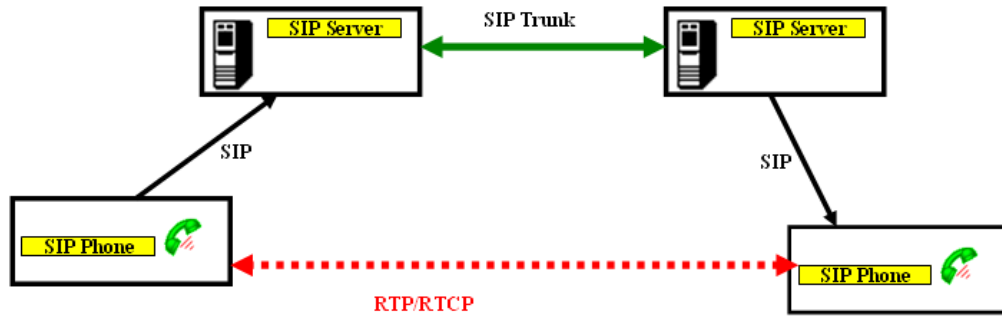
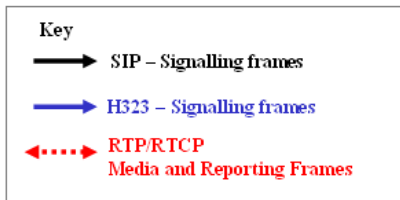
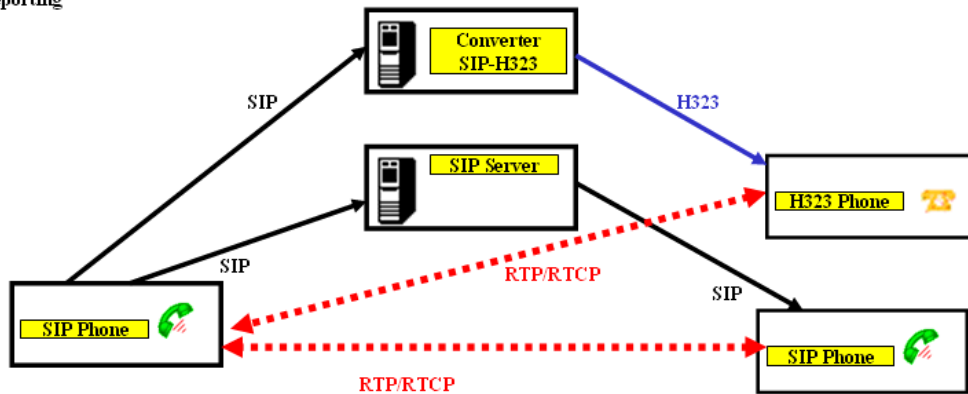


Diagram - SIP and H323 phones

### Flow information

Signalling  
Media  
Reporting



## Codima Technical Support Library

Where do you find Codima Technical Information?

### HELP

Included in the tool is an extensive 'Help Function' documentation that we suggest as a starting point for obtaining information. It is both generic and product specific.








### FAQ's

The [FAQ's](#) covers frequently asked questions in respect of Codima Toolbox, a widely used source, available for both Codima Partners and Codima End users.

[http://www.codimatech.com/dl/extranet/TechnicalSupportFAQ/Technical\\_Support\\_FAQ.htm](http://www.codimatech.com/dl/extranet/TechnicalSupportFAQ/Technical_Support_FAQ.htm)

### DATA SHEETS

Codima has made available a set of data sheets for Codima Toolbox and for each separate tool. It contains information on key features, benefits, functions and requirements.

-  **Codima Toolbox**
-  **autoVoIP™**
-  **autoVoIP™ Consultancy Kit**
-  **autoVoIP™ Traffic Simulator**
-  **autoMap™**
-  **autoAsset™**
-  **autoAnalyzer™ Consultancy Kit**