

Codima Toolbox All In One
Codima IT Inventory & Mapping Toolbox
Codima IT Engineer Toolbox
Codima VoIP Readiness Toolbox
Codima VoIP Monitoring & Troubleshooting Toolbox

fully automated
fully integrated
network management solution

managing data and VoIP networks from end-to-end

with network visualization in Visio®



A Fully Automated and Integrated Network Management Toolbox

All in one offering

Codima Toolbox offers a complete toolbox for Data and IP Telephony networks. Flexible and scalable, the Codima Toolbox is supplied as All in One, or as task focused toolboxes.

Codima Toolbox All In One - delivers an end-to-end solution enabling users to manage data and IP Telephony networks

Codima IT Inventory & Mapping Toolbox – delivers extensive network inventory reports and automatically generates Microsoft® Office Visio® views showing the network topology

Codima IT Engineer Toolbox - delivers real time performance information, automatically isolating bottlenecks on the network, automatically producing trend reports, inventory reports and Microsoft® Office Visio® views showing the network topology

Codima VoIP Readiness Toolbox - delivers pre deployment VoIP assessment for an existing enterprise network or for network expansion

Codima VoIP Monitoring & Troubleshooting - delivers real time dashboard displays that highlight phone status, and automatically isolate error conditions and unacceptable Quality of Service (QoS) levels. Also incorporates automatic in depth call logging, call analysis, server analysis, alarm reporting facilities and trend reports.

The power of integration

Targeting the challenges IT Professionals face managing today's complex data and VoIP networks, Codima Toolbox goes beyond traditional network management. Built from ground up, Codima Toolbox embraces a fully automated and fully integrated design.

Empowered by integration the design delivers fully integrated expert, alarm and report systems. Additionally, Visio® maps display entire enterprise networks and show ping and SNMP Monitoring status, as well as VoIP phone status and QoS live in the Visio® map. The unique methodology simplifies running today's business critical networks while keeping IT costs contained.

Using the integrated solution Codima Toolbox as a centralized platform, results in a cost effective, stable and consolidated network empowered with automated network documentation and improved network performance.

Redefining network management

Codima Toolbox is the only offering in the market with fully integrated tools. Focusing on creating truly easy-to-use and highly visual solutions to manage complex network infrastructures cost effectively, the Codima team has created a front runner, redefining network management.

Automate manual tasks, add simplicity and get fast results

With its fully automated processes, Codima Toolbox contributes to real time savings hence lowering IT costs by automating network discovery as well as speeding up time to fault detection.

Codima's One Click Management brings simplicity and, means that users are just a few clicks away from discovering the network, solving complicated problems and managing call quality.

Armed with Codima Toolbox users can quickly gain control of their network and improve performance, access indispensable information for compliance and legal requirements and use current information for decision making, all with a minimum of effort.

Key features and benefits

- 100% Integration - Reduce IT costs utilizing integrated processes and get maximum out of the network infrastructure with minimum effort
- Automated Network Inventory and Documentation - Save time by automatically obtaining current information directly from network devices to improve IT budgeting, equipment rationalization and network auditing
- Intuitive Maps in Visio® - Make it easy to track historical changes, identify vendors, view network problems live as well as view, share and present complex asset information, with maps created directly in Microsoft® Office Visio®
- One Stop for Network Monitoring Visualized - Optimize network performance to minimize network downtime and increase cost efficiency using integrated processes and powerful reports system
- Seamless VoIP Readiness Testing, Monitoring and QoS Measurement - Reduce customer dissatisfaction, lower installation costs and ensure call quality for end user satisfaction to ramp up IP telephony acceptance
- Centralized Report System - Track valuable IT assets, and traffic patterns, speed up troubleshooting and increase information flow proactively managing the network using customizable trend reports
- One Click Management - Easy to use clickable maps, drill downs and dashboards enable IT Professionals to focus on their task
- A Complete Solution Built From Ground Up - Ensure that IT expertise are spending time on important cost reducing strategic projects rather than managing and maintaining a patchwork of third party software



Audit IT networks, manage security risks and meet compliance

Automated **asset inventory** eliminates time consuming tasks and brings accuracy to network auditing. With today's flexible work force and increasing IT usage, administrating IT infrastructures is a demanding task, requiring up-to-date and precise IT asset information.

Generated by Codima Discovery Engine™, Codima Toolbox uses current network asset information obtained from network devices to provide an accurate IT asset inventory and produce a wide range of advanced assets reports available in HTML, CSV, TSV and XLS format. The discovery can run across multiple networks helping to control IT assets at remote locations

The Change Control function improves network security by tracking topology changes between discovery runs documenting what devices have left and joined the network.

Utilizing accurate data helps auditors and executives in auditing and budgeting as well as in equipment and software rationalization. Organizations can also review and control their maintenance costs.

Codima Toolbox ensures that corporate policy and legal requirements are met, tracking software installations, checking licenses and identifying illegal software to enhance compliance and network control.

Map IT networks, increase visibility and gain control

Mapping and visualizing the network topology empowers organizations looking to run their IT infrastructure efficiently. Codima Toolbox brings visibility into any IT network providing a clear understanding of the network infrastructure. The Codima world class algorithm enables users to map even large networks without getting into a tangle.

Using the discovery information generated by Codima Discovery Engine™, the web-based topology drawings are created directly in Microsoft® Office Visio®, which provides the advantage of automation. Users only need to access relevant Visio® functions. Focusing on ease of use, Codima Toolbox let users easily drill down into the Visio® maps which show live pinger status and SNMP monitor status, as well as VoIP phone status and QoS. The map discovery also takes information from passive VoIP phone discovery.

The intuitive maps show device connection and include vital information such as the line speed and port descriptions. The maps also cover Spanning Tree, Subnet and VLAN topologies. Performing a VLAN Analysis is critical for analyzing modern Layer 2/3 networks which are highly dependent on VLANs.

Vendors can also be uniquely colored and WM Ware systems highlighted in the Visio® maps to provide clearer topology views.

Codima Toolbox Device Support

Supports over 8,300 device types, over 13,700 NIC vendors and 35,500 vendor codes - the list is constantly updated

Check key devices, use sound effects and speed up failure detection

Leveraging the technically simple, but immensely useful **pinging** technique, Codima Toolbox brings innovative sound effects eliminating the need to watch a pinger console. The pinger also has the ability to provide visual indicators covering status in the live Visio® maps and can create alarm reports which can be issued as notification emails, SMS/text messages and SNMP Traps.

The pinger list can be automatically created using information from the network discovery. Pinger responses are analyzed for delay, jitter and response percentage.

Analyze traffic to simplify management of today's business critical IT networks

Codima's comprehensive real time **protocol analysis** tool analyzes the frames it passively monitors, to produce easy to read Protocol decode displays.

There is an advanced interface to control frame filters. A layer 2 segment map that rapidly gives a real time picture of network node activity and protocol patterns. The protocol analysis and the Intelligent Filtering system use discovered names instead of raw addresses and the protocol analysis tool also decodes SNMP using SNMP MIB definitions.

The **passive analysis** tool provides real time views covering loading, priority, protocols, frame size and ICMP trends. Extending the domain being monitored and analyzed, probes are used to enable passive analysis to be undertaken on remote sites. The Remote Manager tool provides a secure link with minimal Bandwidth overheads and allows remote retrieval of frame files.

Monitor IT networks in real time, run health checks and minimize downtime

Codima's approach brings **network performance monitoring** to the next level.

By clicking on selected monitored points in the Visio® Maps users can access monitored service levels as well as information on overloaded ports and problem devices. Device operation and root cause of failure can also be visualized.

An intelligent and automated polling strategy is used to show how the key links are performing. Devices and ports can be added to the Poll List directly from the Visio® maps.

The fully integrated technology that discovers, maps, monitors and automatically looks for trouble spots provides easy to use network performance monitoring. Users can drill down to investigate, and troubleshoot with a simple click from one place using the Device Console. Additionally, the Path Analyzer shows in graphical detail the critical failure points in a path between for example a VoIP Server and a WAN Gateway.

Health checks can be performed with ease, downtime can be minimized and above all the end user experience in business critical IT networks can be improved, driving productivity.

Test VoIP Readiness, prevent project delays and lower installation costs

Will the existing IT infrastructure be able to support IP telephony? The crucial question arises when planning an implementation of VoIP technology.

If the IP telephony system operates satisfactory from day one, chances are the cost efficient VoIP technology will be widely accepted with clients and end users. Ignoring VoIP readiness testing can prove to be costly.

Codima Toolbox offers **pre deployment VoIP assessment** for all types of VoIP networks. Phone loading limits can be explored throughout a network, testing all the key paths simultaneously. The pre deployment assessment can also be controlled from an external location.

The test can run as long as desired with hourly results broken down over a rolling 7 day period, to catch loading pattern variations. The tool monitors achievable QoS in full duplex providing valuable QoS information for both downstream and upstream traffic.

By utilizing the asset inventory and visualizing functions, in-house IT teams as well as IT consultants can investigate the network preventing project delays and unexpected implementation costs.

Monitor and troubleshoot, improve call quality and reduce expensive downtime

Once a VoIP network is in operation, reducing downtime and keeping the business critical communication platform running is crucial.

Codima Toolbox solves operational difficulties by delivering easy to use core **VoIP monitoring and troubleshooting** for SIP and Cisco Skinny networks, to monitor QoS and troubleshoot in real time. IT Professionals can easily obtain an at a glance reality check on phone operation.

VoIP quality assurance requires a vast range of functions. Codima Toolbox provides call analyzing and troubleshooting functions which include for example Phone software analysis, QoS analysis (using information obtained from monitoring RTCP and RTP), in depth error code analysis, Registration Analysis, VoIP Server Analysis and an integrated expert system that operates using information gathered from a number of sources to look for correlations between key statistics in history charts. The VoIP Call Group Analysis used by the Phone Groups Manager allows the user to create up to 50 phone groups, tracking Call Counts, Codec usage and QoS information both Globally and for user defined groups of phones. The Frame Flow Analysis tool highlights individual dialogs in pre captured frame files and breaks them down by class, i.e., Media, Signaling and Reporting associated with dropped frames and sequence errors. Codima Toolbox can also playback calls and track calls long term directly to an SQL database.

Codima Toolbox is ideal to customize scalable solutions for help-desk and network operations centers (NOC's).

Measure call quality, track Quality of Service levels and maintain service levels

The IP telephony system relies on post deployment measurement and long term service level tracking to continuously deliver good call quality.

Codima's VoIP **Simulation** gives full 24/7 MoS/R' value analysis, identifying what the actual QoS is between different points on the network. Tracking the QoS continually, to allow for time specific variations in the network traffic.

Get the reports easily, save time and effort

A stellar user experience, the **Reports Manager** provides the IT professional with a highly sophisticated centralized reports system accessible from a single point to a wide range of reports and report styles. Microsoft® Word reports can be scheduled and filtered to focus on specific items in the network map or specific types of devices such as Routers and Switches.

Asset Inventory & Reports	Codima Discovery Engine™ discovers software and devices on any IT network .Valuable asset inventory reports are produced in HTML. The Change Control Facility highlights changes that have occurred on the network between discovery runs. Protocols in use include SNMP, SIP, NetBIOS, ICMP and rDNS, as well as proprietary vendor protocols such as WMI, CDP or EDP
Mapping	Maps managed and unmanaged devices - an agent less solution utilizing information already available from devices and processes on the network. Makes use of information monitored by the passive analysis tool.
Visualizing in Visio®	Generates topology drawings directly with Microsoft® Office Visio®, visualizing any IT network. Visio® maps show pinger and SNMP monitoring status, VoIP phones status and QoS. Vendors can be uniquely colored and WM Ware systems highlighted in the Visio® maps to provide clearer topology views.
IP Pinging	Tracks device status and pinger response times. Reports device failure via emails, SMS text messages and SNMP Traps and shows the pinger failure results directly in the Visio® maps for easy identification of root causes. Provides innovative sound alarms giving instant warnings - no need to watch a pinger console or read alarm reports. Direct access from History charts to the Automated Correlation Engine a statistic based Expert System that identifies the root cause of problems and highlights danger areas.
Global Alarm System	Provides a sophisticated failure detection system with flood control. Sends alarms reports as Emails or SMS text messages using an independent email client. Issues SNMP Traps.
SNMP Monitoring	Uses mapping results to provide a controlled and focused polling policy tailored to suit the network. Scans network devices continuously and collects critical information on performance data that matters - automatically uses SNMP in an expert mode, to look for the most relevant data. Targets and analyzes critical links like Server links, WAN links and major uplinks - molds that into useful information for real time network performance monitoring. Polling can also be set from the Visio® maps. Includes the statistic based Expert System Automated Correlation Engine.
Bottleneck Analysis	Identifies the cause of bottlenecks - for example establishes if they are due to overloaded interfaces, too high CPU utilization or insufficient memory and disk space Includes the statistic based Expert System Automated Correlation Engine.
Path Analysis	Analyzes the key devices in the path and automatically finds the weakest links - finds bottlenecks on selected paths for example in the path used by VoIP traffic.
Protocol Analysis	Provides a real time protocol decode of monitored traffic. The protocol analyzer and the filters system uses discovered names instead of raw addresses.
Passive Analysis	Provides passive monitoring of network traffic. Analyzes covers protocols, priority settings and node traffic patterns. For example you can see per node and per protocol diff serv usage. Displays live views of traffic trends, covering loading, priority, protocols, frame size and ICMP reports. Includes direct access from History charts to the statistic based Expert System Automated Correlation Engine.
VoIP Pre Deployment Assessment	Stress tests network limits to measure the effect of installing a VoIP System and/or adding more phones to an existing VoIP system
VoIP Monitoring	Monitors SIP and Cisco Skinny VoIP networks in real time - delivers One Click access to dashboards that display real time status of VoIP Servers and Phones. Calls are automatically logged and phone/server dialogs are provided, both for past calls and real time using the Call Analyzer. Includes the statistic based Expert System Automated Correlation Engine. The VoIP Call Group Analysis measures QoS and provides Call Counts and Codec usage both globally and for user defined groups of phones.
VoIP Troubleshooting	Correlates and filters phone information, identifies error patterns that will show for example how many phones are affected, and identify what they have in common, e.g., same manufacturer, same software level. Includes the statistic based Expert System Automated Correlation Engine.
Frame Flow Analysis	Analyzes the frame flow - separating the dialogs, breaking them down into Media, Signalling and Reporting Protocol components. SIP only.
VoIP Simulation	Tracks the QoS 24/7 - identifies time-based variations in the VoIP QoS as well as ensuring that suitable Codec are utilized - essentially a post deployment tool, the tool can be used on all types of VoIP networks to simulate continuous calls on the paths used by the VoIP Traffic. Includes the statistic based Expert System Automated Correlation Engine.
Reports Manager	Creates reports in Microsoft® Word on a daily, weekly and monthly basis and on demand in HTML, using the common centralized reports system available across Codima Toolbox. Reports can be tailored to focus on selected devices or types of devices, e.g., Router or Servers. The Report display can be filtered by function and style.
Remote Manager	Enables remote management of tools
Multi Site Scheduler	Sets up discovery scheduling operation from a central point and automates discovery runs across multiple sites
SQL Call Logging	Provides long term call logging - stores the information directly to SQL databases for use on SIP and Cisco Skinny (SCCP) networks
Remote probes	Monitors and analyzes traffic at remote locations - install local probes

Codima's team has a long track record of bringing highly advanced network management technology to the market.

Today Codima is recognized for tools that help organizations to reduce costs, save time and successfully manage their Data and VoIP networks.

Codima is a Microsoft® Certified Partner and a provider to Microsoft® Visio® Toolbox.

Codima is an Avaya DevConnect Gold Partner and the asset inventory, mapping, visualization and VoIP monitoring tools are tested and accepted as Avaya Compliant.



DEVELOPER CONNECTION
GOLD



Microsoft Visio Toolbox



Headquartered in Philadelphia with 11 local offices worldwide, Codima Toolbox resells through our partners globally.

North America
Philadelphia
ussales@codimatech.com

Asia
Tokyo
asiasales@codimatech.com

Australia
Sydney
australiasales@codimatech.com

EMEA
Brussels
Copenhagen
Dublin
London
Munich
Paris
Stockholm
emeasales@codimatech.com

Latin America
Buenos Aires
sasales@codimatech.com

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