

The **CVA** delivers *connectivity*, end-to-end unbiased *wireless system diagnostics* and *optimization* for all mobile deployments.

Connectivity and Security	Diagnostics	Optimization
<p>100% centralized, device OS and application agnostic connectivity solution.</p>	<p>Root cause analysis of latency and wireless system shut-downs.</p>	<p>Delivers the fastest mobile response times.</p>
<p>WebTE</p> <p>WebTE is a “no-client” software solution that enables mobile “stock” browsers to connect to, and interface with telnet-based applications.</p>	<p>Holistic Transactional Analytics</p> <p>Quickly identifies causes of performance defects including latency, disconnects, and host delays by spanning the application, network, and mobile device.</p>	<p>CHOP (Connect Hypertext Optimization Protocol) and HTTP Compression</p> <p>Reliably stabilizes and speeds mobile response times for web transactions without changes to applications, networks, or mobile devices.</p>
<ul style="list-style-type: none"> Centrally configured and managed A single user interface across multiple device models and operating systems (Windows CE 5.0 and above, Windows Mobile 6.1 and above and Android, iOS, Linux) Does not require device software or application customization Provides full network security (SSL/SSH) 	<ul style="list-style-type: none"> Distinguishes between application, network, device and end-user performance Proprietary learning algorithms synchronize transactional details Analyze system wide behaviors or individual sessions No changes to application or network, and no additional device software is required Stores transaction data to analyze issues that occurred hours, days, months in the past 	<ul style="list-style-type: none"> Speeds browser page loading to under 1 second Stabilizes and accelerates wireless networks and mobile sessions Reduces data to mobile devices by up to 99% without compression Reduces processing overhead on devices for longer battery life Best for applications with repetitive screen forms
<p>Vendor Agnostic Session Persistence</p> <p>Prevents time-consuming logins when connectivity is temporarily lost.</p>	<p>Built-in Data Analytics and Support</p> <p>Use transaction data and statistics for performance benchmarking and metrics.</p>	<p>CRRC (Content Rewrite and Response Control) and Data Reduction for web-based and Telnet transactions</p>
<ul style="list-style-type: none"> Transparently restores mobile sessions Supports roaming between dissimilar wireless networks (e.g. WiFi to Cellular) 	<ul style="list-style-type: none"> Upload transaction profile snapshots directly to Connect, Inc. for analysis Stress testing Trace clean-up function One-step support ticket creation 	<ul style="list-style-type: none"> Reduces data sent over the network by 75-99% Mitigates application inefficiencies in real-time without changes to application Intercepts and eliminates unnecessary network chatter

CVA

Connect Virtual Appliance

Virtual appliances are becoming the preferred method for software delivery and deployment. Key highlights of software packaged as a virtual appliance are:

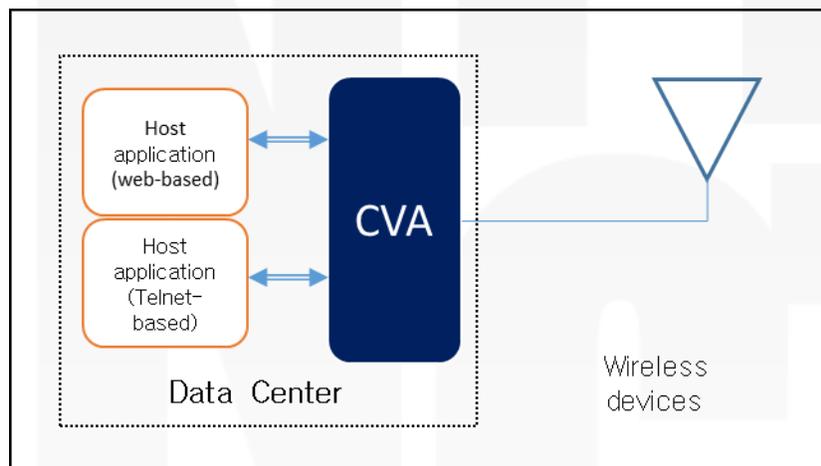
- Fault tolerance via High Availability and redundancy
- Compatibility: Virtual appliances use a self-contained OS
- Ease and low cost of maintenance, patches or updates are preconfigured, pre-tested software that do not require testing

Implementation – Designed for high performance and low resource needs.

- Delivered as a virtual appliance compatible with all Hypervisors
- Patented, event-driven design
- Built-in load balancer for multiple instance deployments
- Licenses are authorized per device
- Each CVA instance supports 1000+ concurrent users

System Requirements

- Type 1 (bare metal – OVA format) or Type 2 (hosted – VMDK format) hypervisor
- 2 CPU's
- 1 GB RAM
- 12 GB Hard-disk space



CVA architecture diagram

Useful resources such as manuals, white papers and brochures can be found at: www.connectrf.com

Frequently Asked Questions

Q: Are there causes of mobile downtime and latency that CVA Diagnostics will not detect?

A: The CVA acts as a primary diagnostic tool. It distinguishes between the application, wired and wireless networks, mobile device and mobile user as sources of latency to eliminate “shotgun” troubleshooting. When CVA data shows that a wireless network is the source of latency, vendor-specific or secondary troubleshooting tools may be required to determine the exact nature of a wireless hardware failure, for example. The CVA reduces time to problem resolution by providing specific data to support the allocation of valuable human and financial resources on investigating known source(s) of mobile downtime, Figure 1.

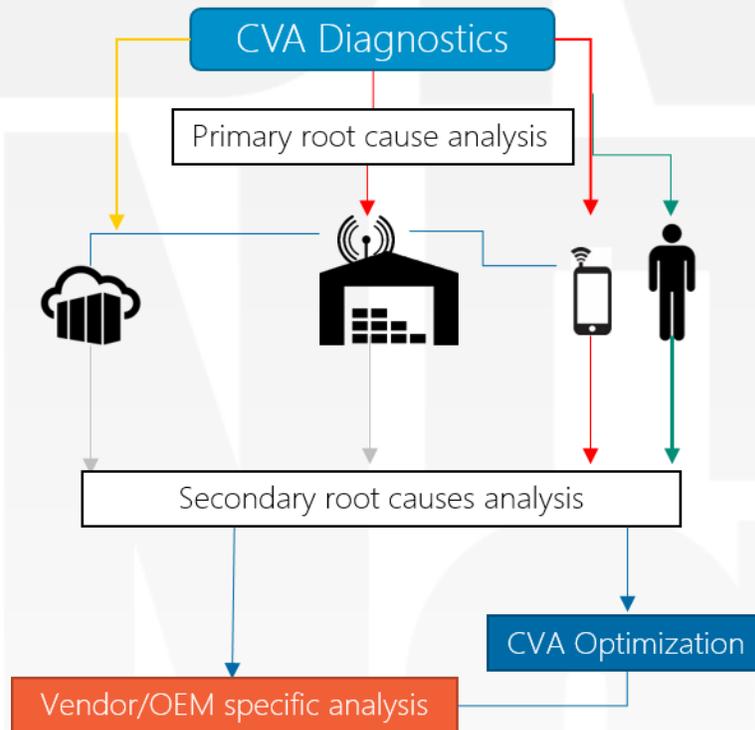


Figure 1: The CVA’s data-set provides a definitive primary root-cause determination of mobile downtime. Armed with the CVA data and analysis tools and a proven troubleshooting process, primary root-cause determination is often followed by the secondary root-cause analysis, which may require vendor-specific diagnostics, or may be resolved with CVA Optimization.



Connect Virtual Appliance

Q: How do CVA Diagnostics compare to wire sniffers?

A: Wire sniffers capture raw data as it is transmitted over the network. That data must be separated into discreet end-to-end transactions before trouble shooting can begin. The CVA automatically pairs each client request to the corresponding application response across multiple protocol changes, and provides the content of each transaction. The CVA stores data to eliminate the need for problems to be recreated, significantly speeding time to problem resolution.

Q: Is the historical data storage a maintenance issue?

A: No. The CVA automatically performs a first-in-first-out (FIFO) rollover.

Q: Will there be any visual improvements on the mobile device when CVA Optimization is on?

A: On an individual device there will be a visual improvement in the timing of screen updates, most pronounced on industrial devices utilizing web browsers to connect to the application. Across the mobile population there will be a measurable difference in the uptime experienced by users.

Q: How does the CVA differ from WAN optimizers like Bluecoat, F5, etc.?

A: The CVA is a complement to WAN optimizers by picking up where they leave off. WAN optimizers act as traffic cops for the entire TCP/IP network, which is important. However, they do not actively manage each mobile session at the transfer protocol to provide optimal RF network speed and stability, or mitigate inefficient application or browser software behavior, which is what the CVA does.

Q: I have MDM software, why do I also need CVA Diagnostics?

A: When it comes to troubleshooting, MDM software is like a car dashboard with gauges that indicate how the car is performing. But the gauges don't indicate "why" the car is performing a certain way. CVA Diagnostics provides the tools for quickly and cost-effectively isolating the "why" (i.e. the root cause) of performance problems.

Q: Can the CVA support concurrent sessions of different application types? For instance, can I run web and telnet sessions on the same CVA virtual appliance?

A: Yes, each session type (Telnet, Web, and Diagnostics) is processed within the CVA by a different engine that runs concurrently and does not affect the others.

Contact us to learn more.
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