



Verso I-Master[®] Application Server

A call control service management engine with embedded IVR support that seamlessly integrates into any softswitch platform via the SIP or H.323 protocols and communicates to any AAA application via RADIUS protocol.

The I-Master Application Server provides interoperability, full carrier-class scalability and full fail-over support to any 3rd party next generation network (NGN) softswitch platform on the market today. Specifically, it interfaces with SIP or H.323 and provides the foundation for carriers to leverage RADIUS protocol for Authorization, Authentication and Administration (AAA) functions without displacing existing billing and authentication applications. The solution is also ideal for providers currently offering data services who want enhance their offerings by adding VoBB services but, need to maintain existing billing systems.

Call control and interoperability

By functioning as a central call control and supplementary service management engine regardless of softswitch technology, the I-Master Application Server offers standards-based interface using SIP as well as H.323 to 3rd party softswitches and RADIUS servers for upstream AAA functions. Additionally, it can provide call control and IVR functionality for prepaid platforms. The I-Master Application Server manages all calls from set up to tear down and interoperates with the softswitch via SIP or H.323 protocol. Additional functionality includes an embedded software based media server for network announcements, PIN collection, recharge, and balance transfer. In addition, the Application Server includes a robust RADIUS stack for real time authentication functionality with an external billing system and can support call flows from multiple softswitches simultaneously.

With this interoperability and functionality, Verso brings to market the critical features and functions demanded by operators to increase revenues as well as strengthen market share while preserving prior investments in existing network infrastructure. Incumbents and competitive carriers can offer new and advanced enterprise and residential communication services that provide a superior return on investment and provide a competitive advantage.

The I-Master Application Server provides:

- SIP or H.323 interface to any 3rd party softswitch platform.
- RADIUS interface to AAA applications (including Verso I-Master Prepaid Application).
- Embedded IVR support for single or two stage dialing as well as account recharge, balance transfer and CallBack.
- When deployed with the I-Master Prepaid Application, concurrent usage on a single prepaid account is supported using a preauthorization process against the account balance.

Scalability and flexibility

The I-Master Application Server grows seamlessly, supporting as many or as few calls as needed, and it easily scales when additional capacity is required. A single I-Master Application Server can also provide support for multiple applications within a single network design.

Service creation, configuration and management

The I-Master Application Server includes a Graphical User Interface (GUI) management tool for the creation and administration of Call Flows, which are event-based and include an extensive library of tools. Additionally, service providers may create XML-based events to support unique actions within a call flow that may not be available via the default events. Multiple call flows may be supported simultaneously based on incoming IP address, trunk group or domain. Unique prompts may also be played based on the user's identity or personal preferences.

The I-Master Application Server can be deployed, configured, and managed remotely using the Verso Clarent Element Management System (CEMS), the web-based tool used for provisioning and managing all components of the Verso network. At a component level, the I-Master Application Server supports SNMP with a comprehensive management information base (MIB). This allows for setting configuration parameters, poll devices for performance statistics, check status information, and receive alarms, if faults occur.

The I-Master Application Server operates on the Solaris operating system on highly reliable SUN hardware and may be deployed in N+1 configuration for fault tolerant environments.

Enhanced features and services with Verso's prepaid platform

For carriers looking to increase revenue and customer loyalty, Verso's I-Master Prepaid application, a real-time authentication and rating engine, enables service providers to compete effectively in the fast-growing markets for prepaid and postpaid limited credit services. Verso's offering combines the separate functions of order processing, service configuration, activation, provisioning, and customer support onto a single system, enabling carriers to provide a combination of services via voice and IP. Combined with the I-Master Application Server, Verso provides a turn-key AAA solution to service providers including: VoBB, Fixed Line TDM, Calling Cards, Call Back, ADSL and WiFi.

It's easy to learn more

For more information about the I-Master Application Server and what it can do for your next generation network, just call, email, or visit us online.

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Key Features

IVR & Call Control for the following services:

- Single Stage Calling (ANI authentication)
- 2 Stage Dialing (Calling Card)
- Single Stage Calling with Pass code verification
- Speed Dial
- Call Back
- Combined authentication methods
- Caller authentication
- Interactive Voice Response (IVR) menus
- Personal Preferences
- Accounting codes
- Restricted calls based on origination, such as cellular or pay phones
- Account Recharge
 - Credit Card
 - Balance Transfer
- Speed dialing
- Multiple languages

Protocols supported:

- SIP
- RADIUS
- MGCP
- H.323

I-Master Application Server features:

- H.323 and SIP interconnect to remote softswitch
- High Availability, N+1 sparing
- Multiple protocol (H.323, SIP & MGCP) support with a single I-Master Application Server
- DTMF transport type negotiation (Out-of-Band, Transparent, RFC-2833)
- T.38 fax relay, fax bypass, modem bypass
- Interactive Voice Response (IVR) supporting applications such as credit card and prepaid services
- Flexible configuration for ingress and egress ANI/DNIS normalization
- Call limiting to control bandwidth utilization
- Service creation environment for defining IVR and call control
- Private IP addressing support
- SNMP management and monitoring
- Sun UNIX platforms: runs on a Solaris 8 or Solaris 10 operating system



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