

## **SRC Demonstration Applications**

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The SRC software provides the following unsupported demonstration applications that you can use as a basis to create your own applications to extend the SRC software:

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### ***Enterprise Audit Plug-In***

The Enterprise Service Portal audit plug-in, also referred to as the enterprise service portal IT Manager Audit Plug-In, defines a callback interface, which receives events when IT managers complete specified operations, such as subscribing to a service or changing the parameter substitutions of a subscription. The events report the type of operation, the identity of the IT manager, and other attributes.

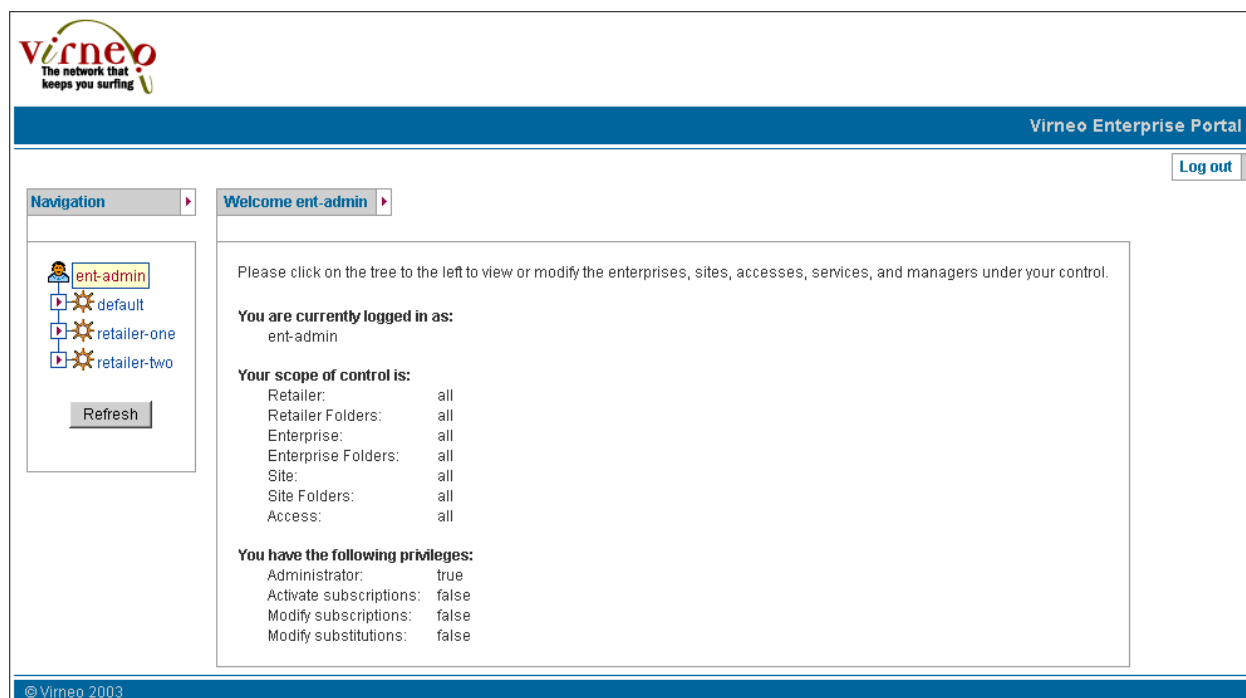
You can write audit plug-in event listeners by implementing the callback interface. A listener performs tasks such as processing received events and then publishing the events to one or more event handlers, such as a log file, system log, or database. Events are sent after the corresponding operations have been completed.

### ***Enterprise Manager Portal***

Enterprise Manager Portal is an application that allows service providers to provision services for enterprise subscribers on JUNOS routers and JUNOS routing platforms and that allows IT managers to manage services. This Enterprise manager Portal is a complete application that requires little customization.

Figure 1 on page 2 shows a sample page in the Enterprise Manager Portal.

**Figure 1: Sample Page in Enterprise Manager Portal**



You can use the Enterprise Manager Portal with the NAT Address Management Portal to allow service providers to manage public IP addresses for use with NAT services on JUNOS routing platforms and to allow IT managers to make requests about public IP addresses through the Enterprise Manager Portal. The NAT Address Management Portal is a complete application that requires little customization.

## **IDP Integration Applications**

The IDP integration applications allow you to use IDP to monitor subscriber traffic for detecting malicious network traffic sent to or received by subscribers. In addition to the actions that IDP can take in response to detected incidents, you can configure the SRC software to respond to these incidents by taking one or more of the following actions for subscribers associated with malicious traffic:

- Applying policies, such as policies that limit subscriber bandwidth, to subscriber interfaces
- Sending e-mail messages that describe the nature of an incident
- Redirecting Web requests to an IDP captive portal where a page provides the source or destination of the problem traffic and a description of the incident

The SRC application library provides robust sample data for IDP integration, a sample e-mail gateway application, and a sample IDP captive portal. You can customize the implementation provided, or create a new one based on the samples.

## ***IVE Host Checker Integration Application***

The IVE Host Checker integration application allows you to verify that the subscriber systems used to connect to a service provider comply with the service provider's policies. You can deploy IVE Host Checker in a network so that it is activated according to the service provider's requirements. Based on the host-checking results, the subscriber may be allowed full, limited, or no access to the Internet.

The SRC application library provides sample data for IVE Host Checker integration, a sample Host Check Result portal, and a sample SRC-VTA application for scheduling host checking. You can customize the implementation provided, or create a new one based on the samples.

## ***Monitoring Agent Application***

The Monitoring Agent application integrates IP address managers into an SRC-managed PCMM environment and provides event notification for the SAE from subscribers who log into CMTS devices.

You can use the Monitoring Agent application to allow IP address managers, such as a DHCP server or a RADIUS server, to notify the SAE about subscriber events. You can use the SRC software to notify the SAE when:

- A subscriber logs in
- An address assignment is terminated

## ***Prepaid Account Administration Application***

You can use the Prepaid Account Administration application to manage prepaid accounts. From Prepaid Account Administration, you can:

- View or update information about current accounts
- Create new accounts
- Clear expired accounts

## ***Prepaid Service Application***

The prepaid service application is a demonstration application that illustrates how to integrate prepaid service applications with the SRC software.

The demonstration application consists of two components:

- Prepaid account server—Provides the central data repository for the prepaid services demonstration application. It maintains the different accounts and provides access for the other SRC components.
- Prepaid Account Administration application—Allows you to manage prepaid accounts.

The demonstration supports two types of prepaid service applications, time based and volume based.

## **Sample Enterprise Service Portal**

An enterprise service portal is a Web application that lets service providers supply a management interface to its customers for managing and provisioning services. The sample enterprise service portal provides is an application that illustrates how service providers can make their services available to IT managers in an enterprise and that provides developers with a starting point from which they can create their own enterprise service portals.

## **Residential Service Selection Portals**

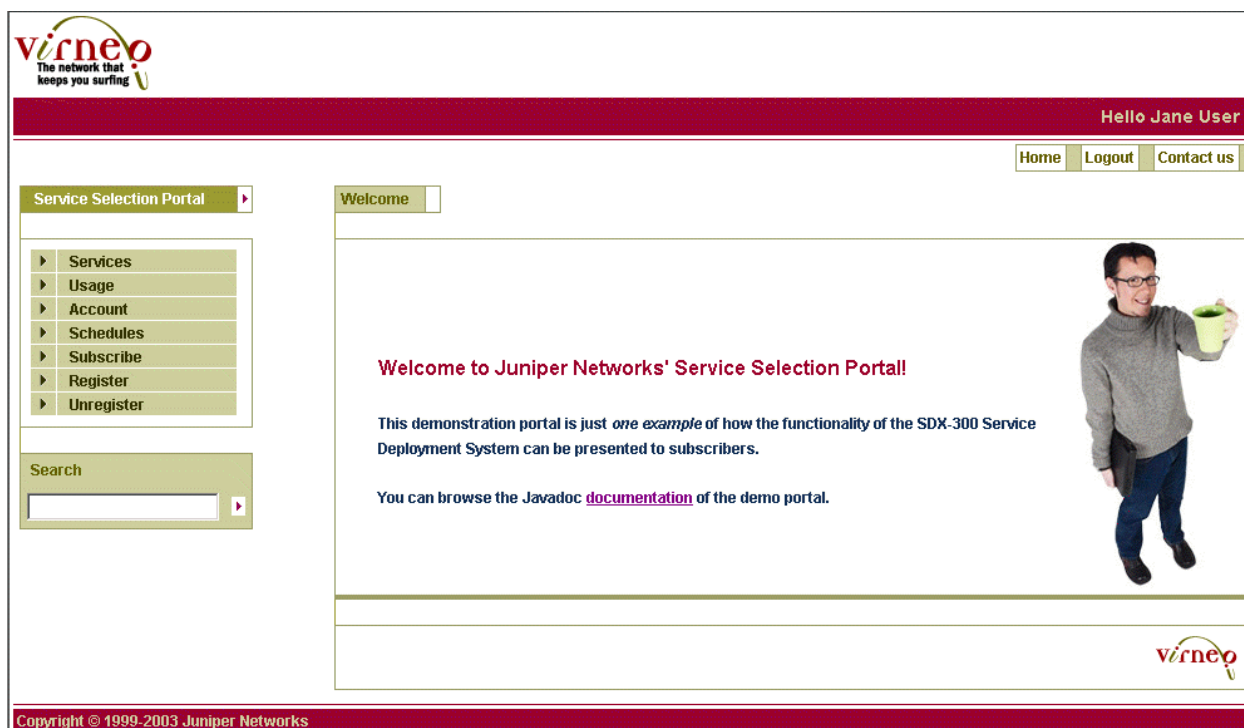
A residential portal is a Web portal application designed for use by individual subscribers to manage their subscriptions to Internet services and to log in to and out of a subscriber session. The portal pages, which are dynamically generated from information stored for subscribers, give subscribers instant access to personalized services, without the need to interact with customer representatives for a service provider. Proprietary client software is not required; subscribers can use a standard Web browser on a workstation or a personal digital assistant (PDA).

A residential portal can locate a specific SAE by using information that is dynamically obtained when subscribers connect. Because the data-processing function of the SRC software is separate from the access function, you can easily integrate the SRC software with existing portals, regardless of the technology used to deliver the portal. If your portal environment provides schemes for checking availability of Web servers and balancing loads between Web servers, you can also take advantage of these schemes for the portal.

The SRC software provides examples of residential portals.

Figure 2 on page 5 shows a residential Web portal that could be created with the SRC software.

**Figure 2: Sample Residential Web Portal**



Web-based residential portals that you develop for the SRC software are compatible with PDAs. Figure 3 on page 5 shows a login page for a sample residential portal that is being accessed from a PDA.

**Figure 3: Sample Login Page for a Residential Portal on a PDA**



## ***Traffic-Mirroring Administration Application***

You can use the Traffic-Mirroring administrative application to manage the mirroring of subscriber traffic. When traffic-mirroring services are activated in an SRC-managed environment, you can:

- Specify the subscriber whose traffic is to be mirrored and the IP addresses of the traffic to be mirrored
- Manage currently active mirroring tasks
- Manage pending actions

The Traffic-Mirroring administrative application is included with the Traffic-Mirroring application. The administrative application provides a GUI to simplify management tasks.

## ***Traffic-Mirroring Application***

The Traffic-Mirroring application allows service providers to mirror subscriber traffic on any subscriber access platform supported by the SRC software. By activating traffic-mirroring services in an SRC-managed environment, service providers can set up SRC policies to:

- Monitor subscriber traffic and intercept traffic from a particular source or to a particular destination.
- Take actions for subscribers with intercepted traffic by applying policies to the subscriber traffic.

The sample data provided with the application illustrates configurations for a network that contains JUNOS routers and JUNOS routing platforms and includes policies, services, and router definitions.