



Alcatel 5735 Service Management Center Port Wholesaling Solution

Highlights

- ▼ **Enables service providers to manage multivendor remote access servers as a single entity**
- ▼ **Functions as a full RADIUS authentication server or proxy server**
- ▼ **Supports hundreds of simultaneous connections per second and over 250,000 ports per node in clustered configurations**
- ▼ **Supports H.323 VoIP gatekeeper functionality**
- ▼ **Simple graphical user interface (GUI) for subscriber registration and new services**

The Alcatel 5735 Service Management Center (SMC) is a powerful, carrier class management platform that enables network service providers (NSPs) to establish a port wholesaling service. Using the 5735 SMC, an NSP can transform an entire physical network of multivendor access servers into various virtual networks that can be managed by each individual customer. The 5735 SMC is a complete software solution that includes RADIUS-based authentication, authorization and accounting (AAA), real time monitoring, and subscriber self-registration. Designed for optimal performance, scalability and reliability, the SMC supports hundreds of simultaneous connections and over 250,000 ports per node in clustered configurations.

Fully Managed, Self-contained Port Wholesaling Solution

The port wholesaling business is a cost-effective model for both NSPs and their customers. Internet service providers (ISPs) and enterprises can get widespread geographical coverage at a fraction of what it would cost to build their own infrastructures. Additionally, through port wholesaling, an NSP can achieve economies of scale by maximizing its existing infrastructure. The Alcatel 5735 SMC is the key enabling technology for a fully managed, self-contained port wholesaling solution. Alcatel's solution provides the flexibility to create, implement and track a broad range of network technologies and services.



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Provisioning and Virtual Network Management

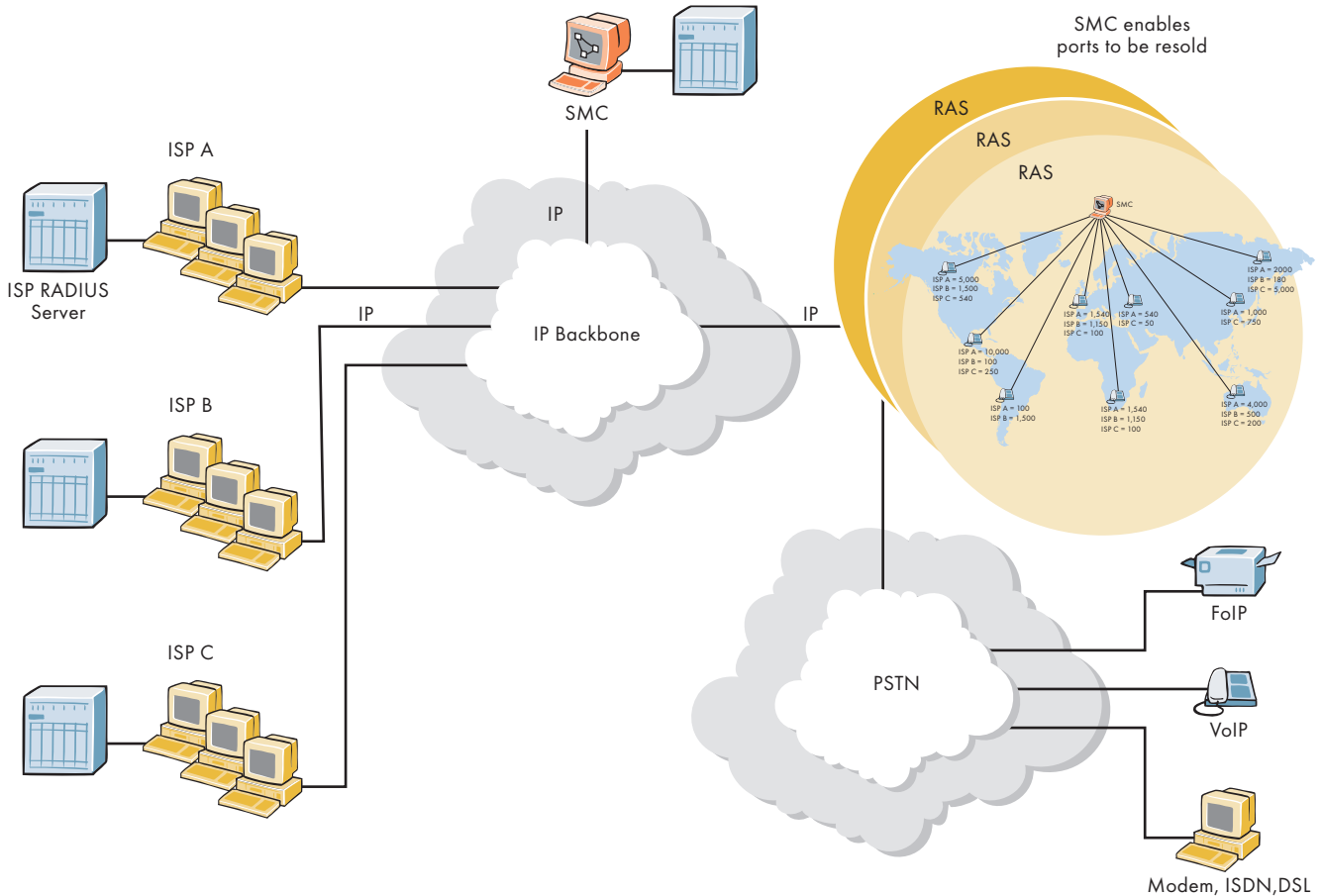
Through a simple GUI, the SMC allows NSPs to establish customized service levels and port availability for each virtual network customer. NSPs can also configure such parameters as the number of fixed ports available, minimum and maximum ports, overflow ports, access times, and the number of simultaneous accesses. The SMC solution allows dial ports to be sold in a number of different ways based on the needs of the customer, and also allows DSL and VoIP to be resold. Through a remote SMC interface,

customers can manage their own virtual networks—from monitoring their databases and AAA servers to configuring their service levels and access parameters.

Management Solution for Access Servers of Any Technology

Network elements and services are continuously evolving, and Alcatel's 5735 Service Management Center provides the flexibility required to accommodate these new technologies while preserving the existing infrastructure. Management capabilities range from a high level view of the

▼ Figure 1: Overview of a wholesale network



network to information on a specific port. The SMC allows the use of policies to manage the entire access network, to allocate dial ports to customers, and to manage IP pools and user databases. With its standards-based architecture, the SMC can manage hundreds of multivendor access servers of any technology. By tightly integrating with Alcatel's high density 7410 Access Server (AS), the SMC completes an outstanding end-to-end, carrier class solution.

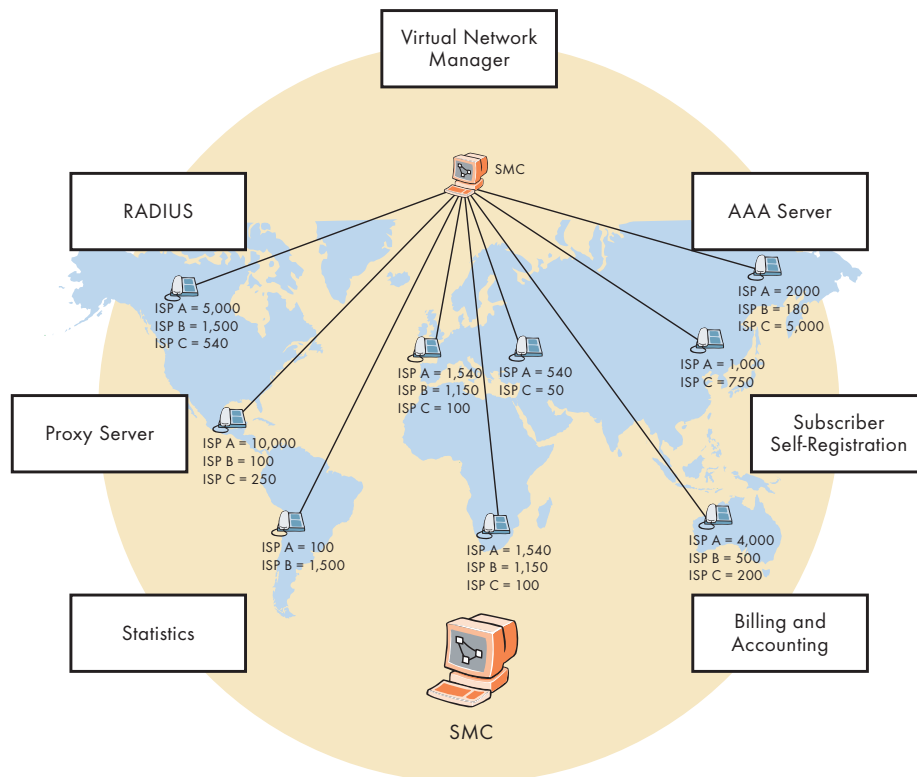
Central RADIUS or Proxy RADIUS Server

With its inherent flexibility, the Alcatel 5735 SMC can act as a full-featured proxy RADIUS or RADIUS server that controls the AAA of any

subscriber. The SMC supports proxy configurations where an ISP or enterprise wants to maintain its own user databases and AAA servers. Using RADIUS or TACACS, the proxy SMC server forwards the authentication and accounting requests to the appropriate AAA server. As a full-featured RADIUS server, the SMC collects access authentication requests, checks the user access rights and stores the accounting information. All information is stored in a central database for the efficient management of remote access servers. The SMC is based on a real time Oracle database that allows the authentication of more than 100 users per second – substantially faster than solutions based on flat file RADIUS database implementations.

The Alcatel 5735 SMC provides the flexibility required to accommodate changing network elements and services.

▼ **Figure 2: Dial and wholesale access solutions**



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Voice Integration

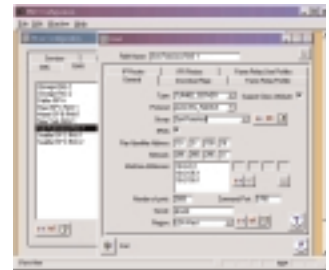
The 5735 SMC also acts as an H.323 gatekeeper to manage VoIP services from the same platform. The SMC offers integration with SS7 networks and intelligent networking (IN) platforms to extend value-added service offerings. In conjunction with the Alcatel 5424 Call Signaling Gateway (CSG) and the Alcatel 7410 AS, the Alcatel 5735 SMC allows VoIP providers to offer such classical telephony features as call forwarding, call waiting and toll-free numbers, as well as innovative IP telephony services such as click-to-call and virtual second line.

A Complete Solution

The Alcatel 5735 Service Management Center is an advanced service management solution that allows an NSP to operate its existing installed infrastructure while increasing its

service offerings. The SMC's features are multifaceted—ranging from its ability to act as a RADIUS or proxy server to its enhanced statistics module, which tracks specific details about the use of network resources. Ideal as a port wholesaling solution, the 5735 SMC allows a service provider to manage multiple access servers and provision virtual networks. When combined with Alcatel's 7410 Access Platform, the SMC provides a highly integrated and fully scalable access network. The SMC also has the flexibility to manage multivendor access servers. Today, more than ten million subscribers worldwide are supported by the Alcatel 5735 SMC solution.

Alcatel's 5735 SMC is the first comprehensive management solution with the flexibility to integrate evolving technologies and services, allowing service providers to make a cost-effective investment today and repeated profits in the future.



**More than 10 million users
worldwide are managed
by the 5735 SMC.**



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