

Elite System Gateways Data Sheet

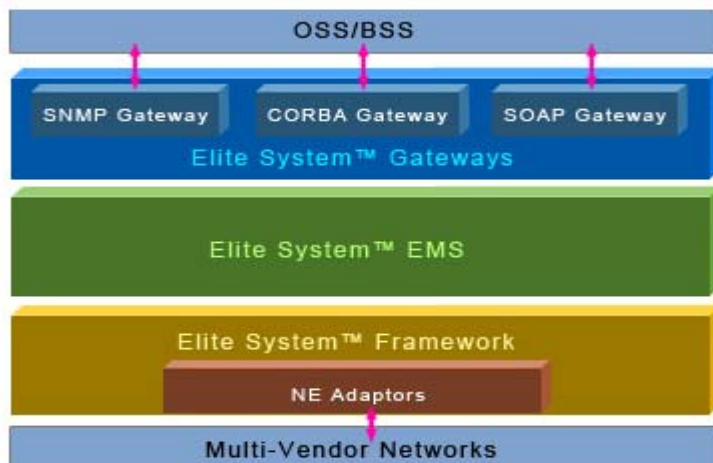
Introduction

Elite System™ is an industry leading network management framework that enables easy and rapid development of Element and Network Management System (EMS/NMS), Operational Support System (OSS), and other management applications. Network equipment vendors, service providers and system integrators can rely on Elite System™ for rapid development and deployment of any networking management applications with cost effective mode.

The industry leading Elite System™ management platform was developed using the patented XML Metadata technologies and based on over 15 years of providing management software to the world wide network equipment vendors and service providers. The unique architecture and XML Metadata based code generation enables Elitecom to significantly save the development time and cost to deliver the carrier grade EMS and NMS solutions.

Elite System™ product set contains the following three major products:

- ▣ Elite System Framework
- ▣ Elite System EMS
- ▣ Elite System Northbound Gateways



Elite System Gateways Overview

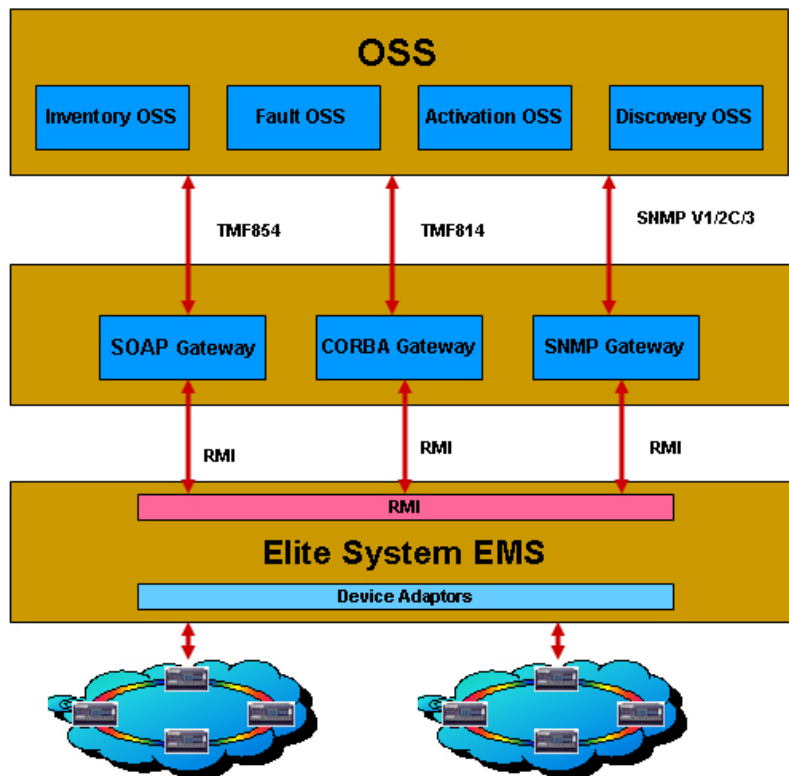
Operational Support System (OSS) infrastructure is the most costly component of a network and a critical financial barrier to service provider to introduce new network elements due to the time and expense of integrating services into the back office infrastructure. The integration work involves with integration of business system to management system for network inventory, system activation, automated operation support, reliable billing, order tracking, service level agreement (SLA) and more.

Elite System Gateways contains a family of standard based Northbound Interface products that enable service providers to address the complexity and challenges of integrating new network deployment and services into the existing OSS applications.

Elite System Gateways provides the critical links between service provider's OSS and management system based on Elite System EMS or EMS from other vendors.

Elite System Northbound Gateways contains following products:

- ❑ SNMP Gateway
- ❑ CORBA Gateway (TMF-814)
- ❑ SOAP Gateway (TMF-854)



SNMP Gateway

SNMP is the most commonly used management protocol for data communication equipment and also frequently used for telecom equipments.

Elite System SNMP Gateway is a SNMP standard based, scalable and powerful northbound interface on top of Elite System EMS to communicate with any standard SNMP based OSS or BSS systems such as HP Open View, Micromuse Netcool or Solarwinds IpMonitor.

Elite System SNMP Gateway supports following features:

- ▣ Support all SNMP versions: V1, V2C and V3
- ▣ Support SNMP V3 USM and VACM
- ▣ All SNMP operations (GET, SET, GETNEXT, GETBULK and TRAP)
- ▣ Third Party NE Trap Support

CORBA Gateway

Elite System CORBA Gateway provides CORBA northbound interface that complies with the TeleManagement Forum (TMF) CORBA specification for Network Management Layer/Element Management Layer (NML/EML) interfaces. It allows a service provider to implement a programmatic interface between the Elite System EMS and various OSS product in the back office. Such interfaces enable next-generation flow-through equipment and circuit management—including inventory, provisioning, performance data collection, and assurance functions. Elite System CORBA Gateway brings a big step forward to service provider for full OSS automaton.

The telemanagement community has adopted CORBA as the preferred distribution technology with which to integrate the various components of an OSS. The Multi-Technology Network Management Working Group of the TeleManagement Forum has been working to create a specification for an NML/EML interface. Release 2.0 of this specification is described by the TMF documents listed below.

- ▣ TMF 513, Business Agreement (BA),
- ▣ TMF 608, Information Agreement (IA),
- ▣ TMF 814, Interface Definition Language (IDL) Solution Set, and
- ▣ TMF 814A, Implementation Agreement.

The TMF.608 document is a protocol-independent (that is, generic) information model for the network resources being managed. The TMF.814 document is the CORBA IDL component of the specification; it consists of a set of definitions for specific objects and methods that are available for use at the NML/EML interface for passing information or accomplishing specific actions. However, TMF.814 is a specific interface implementation based on a TMF high-level business agreement described by the TMF.513 document. To complete the document set, TMF.814A recognizes that different parties may provide varying degrees of compliance in their implementations. The TMF 814A document is called the Implementation Agreement, and is simply a form to be filled out by those parties implementing to TMF.814 to further describe their specific implementations to those who would use them.

Elite System CORBA Gateway is a northbound interface component that has been developed and documented in accordance with the TeleManagement Forum EML/NML Release 2.0 documentation set

Elite System CORBA Gateway supports following features:

- ▣ Fully comply with TMF EML/NML Release 2.0
- ▣ Includes the bundled CORBA Notification Service based on PrismTech OpenFusion Notification Server. Supports Persistence model in Notification Service.
- ▣ Includes the bundled CORBA Naming Service based on Borland VisiBroker Naming Service product.

- ❑ Both Naming and Notification Services can be installed in different hosts. In addition, users can have the option to use their own Naming and Notification Servers in various configurations.
- ❑ Support redundancy and fail over.

SOAP Gateway

Elite System SOAP Gateway enables service provider to integrate their OSS with management system for Web Based services through XML/SOAP.

Elite System SOAP Gateway fully complies with the TeleManagement Forum TMF 854 Release 1.3 XML/SOAP interface, which is a loosely coupled internet-based framework managed by large service providers. In addition to fully support TMF 854 XML definition, Elite System SOAP Gateway also follows two other TMF documents:

- ❑ TMF 517 Business Agreement
- ❑ TMF 608 Information Agreement

Elite System SOAP Gateway supports following features:

- ❑ Fully comply with standard TMF 854 XML interface
- ❑ Easily extended to support other vendor specific XML/SOAP based services
- ❑ Highly reliable and capable of handling large scale of EMS deployment.

Elite System Gateways Software Specifications

Following table lists the Elite System SNMP Gateway software features and specifications:

Software Feature	Support
OS	Window XP Window 2000 Window 2003 Linux Redhat 4.0 and 5.0 Solaris 8, 9 and 10
JRE (Java Runtime Environment)	JRE 1.4 (All Editions) JRE 1.5 (All Editions)
Database	No DB needed
GUI Client	GUI or Console support
SNMP	SNMP V1, V2C and V3 SNMP V3 USM and VACM
XML Parser	Any JAXP compliant parser
Installation	InstallAnywhere Install as Service or Daemon option
Upgrade	Step-by-step GUI support Backward Compatible with DB Migration

Following table lists the Elite System CORBA Gateway software features and specifications:

Software Feature	Support
OS	Window XP Window 2000 Window 2003 Linux Redhat 4.0 and 5.0 Solaris 8, 9 and 10
JRE (Java Runtime Environment)	JRE 1.4 (All Editions) JRE 1.5 (All Editions)
Database	No DB needed
GUI Client	GUI or Console support
Naming Service	Standard CORBA Naming Service
Notification Service	Standard CORBA Notification Service based on PrismTech OpenFusion Notification Server. Support Persistence mode.
ITU/TMF Standard	TMF 513 TMF 608 TMF 814
XML Parser	Any JAXP compliant parser
Installation	InstallAnywhere Install as Service or Daemon option
Upgrade	Step-by-step GUI support Backward Compatible with DB Migration

Following table lists the Elite System SOAP Gateway software features and specifications:

Software Feature	Support
OS	Window XP Window 2000 Window 2003 Linux Redhat 4.0 and 5.0 Solaris 8, 9 and 10
JRE (Java Runtime Environment)	JRE 1.4 (All Editions) JRE 1.5 (All Editions)
Database	No DB needed
GUI Client	GUI or Console support
ITU/TMF Standard	TMF 517 TMF 608 TMF 854
XML Parser	Any JAXP compliant parser
Installation	InstallAnywhere Install as Service or Daemon option
Upgrade	Step-by-step GUI support Backward Compatible with DB Migration

Elite System Gateways Hardware Specifications

Following table lists the Elite System Gateways hardware specifications (applies to all Gateway products):

Option 1: Running in the same host with Elite System EMS Server

Hardware Requirement	Support
CPU	1GHz or above
Memory	1G or above with 512M Swap
Disk	80G or above

Option 2: Running in a separate host:

Hardware Requirement	Support
CPU	800 MHz or above
Memory	512M or above
Disk	10G or above

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