The Alcatel 5620 Network Manager (NM) is the cornerstone of the Alcatel family of network and service management products for data and access networks. The 5620 NM’s purpose in life is to make managing networks easier while enabling rapid deployment of services.

An integrated part of the Alcatel family of products, the Alcatel 5620 NM manages wireline and wireless broadband technologies such as IP, DSL, and ATM on access, edge, and core network elements. The Alcatel 5620 NM is a proven platform, currently installed in more than 1,000 networks worldwide, including more than 350 service providers. The scope of the Alcatel 5620 NM is exemplified in that it supports the broadest range of services offered on one platform in the industry.

What’s New in Release 6.1?

**Continued evolution of the 5620 DSL Management solution**

> Alcatel 7300 ASAM path management available for selected trials
> Support service provider needs to service small remote areas and reduce capital expenditures through support of the Conklin FastMux

**Enhanced IP/MPLS features**

> Improved IP maintenance and diagnostics for troubleshooting faults through ping and route trace feature
> Operator defined configuration templates to perform similar configurations on multiple devices
> IP VPN support in conjunction with Alcatel Connected partner

**Improved operator functionality**

> PVC-SPVC conversion tool to enable bulk conversion of PVCs to SPVCs
> SVC diagnostics tool to assist with call set up features
> Enhanced diagnostics and troubleshooting, including support for path and connection trace (SPVC segments) and Route Trace (PVC segments), as well as segment-based information to the network edge

**Initial support for metro ethernet solution**

> VC-VLAN management to enable connectivity of existing FR/ATM UNIs with new metro ethernet services
Features

Carrier Class Management and Reliability

> Fault management capabilities, including real-time status reporting, trouble tickets, alarms, fault notifications, performance monitoring, diagnostics and maintenance
> Diagnostic tools for isolating network problems, including loopbacks, busy outs, centralized maintenance connections, forced errors and reroutes, and path diagnostics
> Automatic rerouting function activated on link or logical failures
> Network management redundancy ensures reliability using multiple workstations (active, standby) that can be geographically dispersed
> Centrally manages configuration changes that occur on the Alcatel 7770 Routing Core Platform (RCP), the Alcatel 7670 Routing Switch Platform (RSP)
> Complete management solution from the access to the core for DSL services such as residential high speed Internet, business services, extreme density services and voice over DSL
> Reduced operator effort through DSL bulk configuration capability to create, schedule, and execute a bulk configuration request on the Alcatel 7300 ASAM, Release 4.2 or later
> Single desktop solution for network monitoring and operation of mixed data and transport networks through flexible management of all network elements supported by the 5620 NM and the Alcatel 1353 Gem
> Scalability: Manages 10,000 core, access and edge ATM nodes, 500,000 remote devices
> Support for 1.5 million paths; a combination of up to 1 million PVCs and 1 million SPVCs
> 255 simultaneous operator sessions
> 1,000 service level partitions — virtual switched networks
> 128 physical network partitions — virtual backbone networks

Features and Optional Modules

> Manages IP, DSL, and ATM interworking from a common graphical user interface (GUI)
> Managed products include the Alcatel 7770 RCP, the Alcatel 7670 RSP, the Alcatel 7670 RSP Edge Service Extender (ESE), the Alcatel 7470 Multiservice Platform (MSP), the Alcatel 7300 Advanced Services Access Manager (ASAM), the Alcatel 7390 Local Multipoint Distribution Service (LMDSS) platform, and the Alcatel 7770 Optical Broadband Exchange (OBX)
> Multiservice core/backbone network consolidation (can manage an integrated circuit, packet and cell switched network) and multi-access network consolidation (providing comprehensive control of the network from a single location)
> Multivendor management: IP management through support of Juniper and Cisco routers and element management in combination with the Alcatel 5620 SNMP Descriptor Module (SNMP DM)
> Open application programming interfaces (APIs) provide interfaces at all levels of the Telecommunications Management Network (TMN) hierarchy to automate business processes with the Alcatel 5620 CMIP and Alcatel 5620 CORBA OSS Interface Modules. As well, the Alcatel Connected Partner program provides pre-certified interoperable operations support systems (OSS) solutions with selected best-in-class independent software vendors
> Scalable, flexible end-to-end provisioning of DSL, Frame Relay and ATM VPN services with the 5620 AXiOSS DSL and VPN Service Modules
> Scalable, automated MPLS performance optimization provided through the 5620 Traffic and Service Optimization Module (TSOM)
> Powerful network inventory, optimization, planning and failure analysis capabilities through the Alcatel 5620 Analysis and Inventory Module (AIM)
> Online user documentation for quick, customizable, context-sensitive access
> Intuitive, sophisticated GUI
> Connection provisioning and activation for multiservice provisioning of PVCs, SPVCs and LSPs
> Downloadable software upgrades to the network
> Network simulation functionality to test and model network resources

Platform

> Minimum requirement: a SunBlade 100 or Netra T1 workstation with 1 GB of RAM, 36 GB hard drive, 1 CPU at 500 MHz, CD-ROM drive, LAN or WAN Ethernet or ATM connection
> Sun Solaris 8 (2.8) support
> X11R5-compliant X-server software (for X-terminal login support only)
> HP OpenView Network Node Manager, for enhanced LAN management (optional)

Standards Compliance

> International Standards Organization (ISO) SGML
> X.Org X11R5
> International Telecommunication Union-Telecommunication Standardization Sector (ITU-T), TMN including CMIP, M.3100, X.721, X723, X.734
> TeleManagement Forum Bandwidth Management Ensemble NMF-038
> Object Management Group (OMG) common object request broker architecture (CORBA)
> Joint Inter-Domain Management CMIP-CORBA Transaction
> Internet Engineering Task Force SNMP
> Alcatel Distributed Statistics Collector standards:
  • AT&T 54016
  • ANSI T1.403
  • ITU-T G.821/G.822