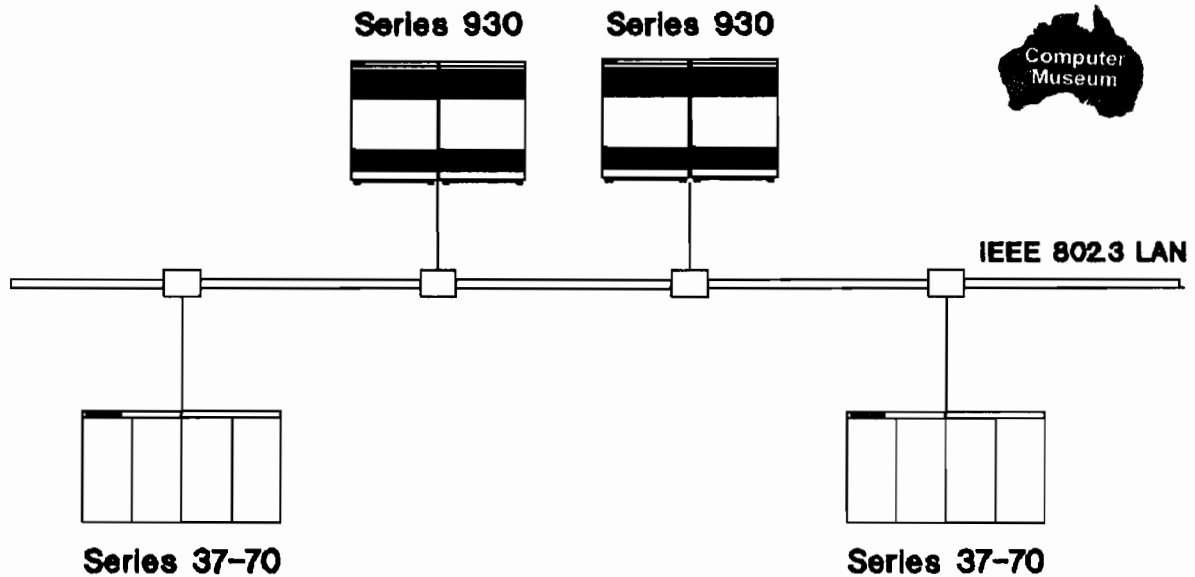


NS3000/XL and LAN/XL Link for the 900 Series of HP 3000 Systems



Sales Brief



NS3000/XL

NS3000/XL & LAN/XL Link

Do you need to transmit data between HP 3000s? Do you need communication among several HP 3000s in a single building? Do you have distributed applications that use separate HP 3000s for individual applications and specialized departmental processing? Do you download programs and data to dispersed systems from a centralized development system? Do your users occasionally need to access applications or data on different HP 3000s? Do you want to use IEEE 802.3 industry standard networking as a foundation for future multi-vendor communication? NS3000/XL and LAN/XL Link provide the solution to all these needs for the 900 Series of HP 3000 Systems.

Local Communication with:

- A variety of capabilities for communication with HP 3000 Series 930 or Series 37-70 systems running NS/3000 and LAN/3000 Link or OfficeShare LAN/3000 Link.
- Network File Transfer (NFT), with both interactive and programmatic access.
- Remote File and Peripheral Access through extensions of the MPE file intrinsics.
- Remote Database Access to TurboIMAGE databases.
- Virtual Terminal Access to sessions, applications and data.
- Support for IEEE 802.3 standard Local Area Network, thick (Type 10 Base 5) or thin (Type 10 Base 2) cable options, with a 10 megabits per second signalling rate on the cable.

NS3000/XL and LAN/XL Link

NS3000/XL is networking software that extends the domain of many MPE XL capabilities beyond the boundaries of a single computer. NS3000/XL provides high-level services to both interactive users and to application programs. LAN/XL Link includes networking hardware and software to connect an HP 3000 Series 930 system to an industry standard IEEE 802.3 Local Area Network.

Typical Applications

NS3000/XL and LAN/XL Link together provide powerful system-to-system communication capabilities between an HP 3000 Series 930 and other HP 3000s. Typical applications include:

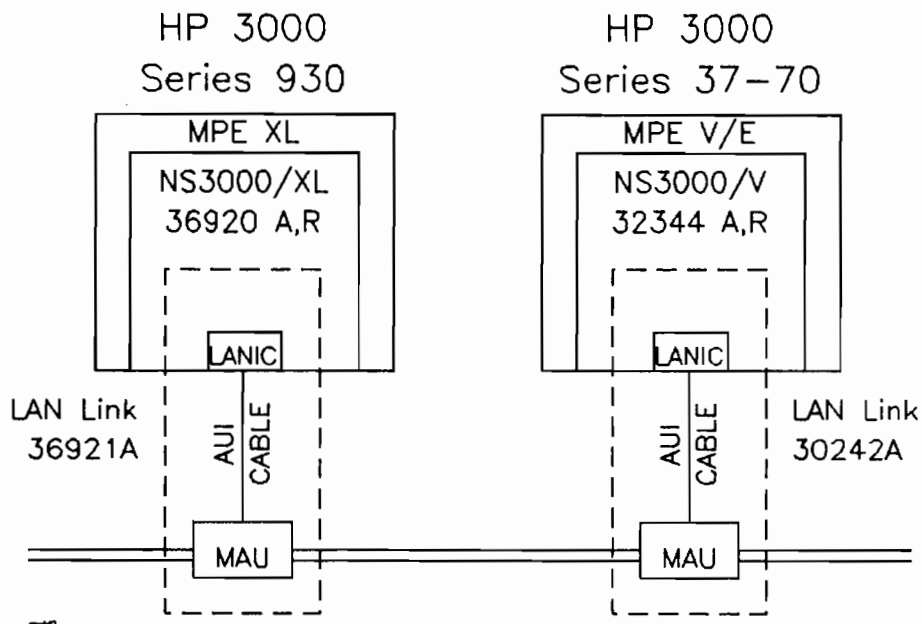
- **Centralized program development with distributed production systems.** With NS3000/XL, program files can regularly and rapidly be distributed to local production systems.
- **Consolidation of data from specialized application systems.** NS3000/XL allows periodic transfer of files and databases between HP 3000s. For example, an Accounts Payable system and an Accounts Receivable system can regularly send summary data to a General Ledger system.
- **Distributed applications among several specialized HP 3000s.** Using the Remote File Access and Remote Database Access capabilities of NS3000/XL, distributed applications can share data.
- **Ad hoc user access to many applications.** NS3000/XL's Virtual Terminal Access allows users to run applications, issue commands, and access data on any system in the network (under the security restrictions of MPE).

Features and Benefits

NS3000/XL and LAN/XL Link offer:

- **Easy, reliable and cost-effective access to other HP 3000 systems.** Virtual terminal makes it as easy to log onto any system in the network as the user's "home" system.
- **Rapid, easy, efficient transfer of files among HP 3000 systems.** Files can be copied interactively or programmatically using the DSCOPY subsystem.
- **Resource sharing between users of several HP 3000s.** Users can share files and peripherals between HP 3000 Series 930s and other HP 3000s.
- **Compatibility with DS/3000.** Applications using DS/3000's Network File Transfer, Remote Database Access, Remote File Access, or Virtual Terminal capabilities require no changes in most cases when moved to NS3000/XL. The software and user training investment is protected when upgrading to an HP 3000 Series 930.
- **Support for the IEEE 802.3 standard LAN.** Networking with the IEEE 802.3 bus topology is economical because every system requires only one connection to the network for system-to-system communication.
- **Ease of connection to the network cable.** A system can be connected to or disconnected from thick cable while the network is active, without interfering with other systems' communication. Flexible relocation and expansion can be accomplished without disrupting production.
- **Reliability of the IEEE 802.3 Local Area Network.** Systems physically connected to the network can be inactive, without affecting communication between active systems.
- **Thick or Thin LAN option.** An HP 3000 Series 930 can be connected to a customer's existing thick or thin cable HP 3000 network, without re-cabling.

Local Area Network Connections



Product Description

NS3000/XL and LAN/XL Link together contain the hardware and software required to connect an HP 3000 Series 930 to an IEEE 802.3 coaxial cable.

The software includes:

- Programmatic and interactive user capabilities, including **Network File Transfer**, **Remote File and Peripheral Access**, **Remote Database Access**, and **Virtual Terminal Access** to other HP 3000s on the Local Area Network (LAN).
- **Transport and internet protocols**, based on the DARPA TCP/IP (Transmission Control Protocol/Internet Protocol).
- **Node management software** (commands and utilities) for ease of configuration, tracing, logging, and product activation, termination, and control.
- **Link level software** that implements the IEEE 802.2 and 802.3 specifications.
- **On-line diagnostics** for testing network hardware and software.

The hardware includes:

- **Local Area Network Interface Controller (LANIC)** board, providing the signaling layer and medium access control sublayer protocols, as defined in the IEEE 802.3 standard.
- **Medium Attachment Unit (MAU)**, providing physical and electrical connection to a thick (Type 10 base 5) network coaxial cable, and 6-meter **Attachment Unit Interface (AUI) Cable** for connecting the LANIC to the MAU. (Other lengths of AUI cables are available, to permit location of the computer system up to 48 meters from the coaxial cable.)
- Optionally, the thick cable connection can be replaced with a ThinLAN (Type 10 base 2) MAU with 1-meter integrated AUI Cable and BNC "T" connector.

Ordering Information

For the first Series 930 system, order:

36920A NS3000/XL Right to Use
and
36921A LAN/XL Link

For each additional Series 930 system, order:

36920R NS3000/XL Right to Copy
and
36921A LAN/XL Link

The processor option must be specified with each product.

For more detailed ordering information on NS3000/XL and LAN3000/XL Link, see the data sheets in the 900 Series Networking Specification Guide Supplement, P/N 5954-6341.

A complete line of LAN accessories, including extension AUI cable, is available through HP's Computer Users Catalog.

Network Configuration Checkout

Network Configuration Checkout is a service provided by HP's Network Marketing Center to ensure that each customer's network is properly designed and that the planned configuration can be supported by HP.

Documentation

The following documentation is available to describe NS3000/XL and LAN/XL Link:

36920-90001 NS3000/XL User/Programmer
Reference Manual
36920-90002 NS3000/XL Network Manager
Reference Manual
36920-90003 NS3000/XL Communications
Handbook Section
36920-90004 NS3000/XL Error Messages and
Recovery Manual
36921-90001 LANIC Installation and Service
Manual
5955-7680 LAN Cable and Accessories
Installation Manual
5955-7681 LAN Link Diagnostic and
Troubleshooting Guide