

NOVELL Olivetti Computing Platform Network Servers and Workstations



olivetti

OLIVETTI AND NOVELL: COMPLETE LAN SOLUTIONS

The 1990 agreement between Olivetti, the leading European producer of professional Personal Computers and Systems, and Novell Inc. (Uiah, U.S.A.), a leading producer of Local Area Network operating systems, offers the perfect solution for your high performance and cost-effective LAN requirements. Integration of Olivetti hardware with Novell network software guarantees Independent Manufacturer Support Agreement Level II certification of network configurations comprising file/application Servers and workstations - all ideally suited for operating in LANs.

THE NOVELL NETWORK OFFER

Novell has a high reputation for technological sophistication, quality and reliability, and Novell NetWare is a world-wide standard for PC-based local area networks. The NetWare family includes a range of operating systems and communications services for all requirements. The NetWare offer has been designed to satisfy the needs of three main types of user: small businesses, workgroup computing and network computing, each solution offers exceptional price-performance. Four types of NetWare operating systems are available:

- NetWare 386
- SFT NetWare
- Advanced NetWare
- ELS NetWare Level I and Level II

As well as operating systems, Novell also provides a range of communications products and services specially designed for use in network applications.



NETWARE 386: THE BEST INTEGRATED LAN SYSTEM

The NetWare 386 operating system is designed for handling large LANs having hundreds of users on a single Server, and for configurations requiring an application Server.

NetWare 386 is the ideal solution for mixed configurations such as minicomputer, PC-based Servers and MS-DOS, MS OS/2, and UNIX environments.

NetWare 386 exploits the high speed and capacity of the Olivetti Computing Platform, and offers a number

of functions which are ideally suited to Olivetti high-performance hardware.

NetWare 386 supports up to 250 users, and provides all the usual mainframe and minicomputer services at an extremely competitive price.

NetWare 386 will easily solve such problems as network management, application execution, large database maintenance, access to network resources, etc.

NetWare 386 also includes a set of data security functions:

- Hot Fix, for data protection in the event of hard disk failure.
- TTS (Transaction Tracking System), which guarantees the congruence of data on the database.
- Disk duplexing and disk mirroring, which ensure availability of data if the hard disk fails.
- SPS (Stand-by Power Supply): if the line goes down, a command is sent to the system in order to ensure that the various activities are shut down correctly.

DISTRIBUTED NETWORK SERVICES

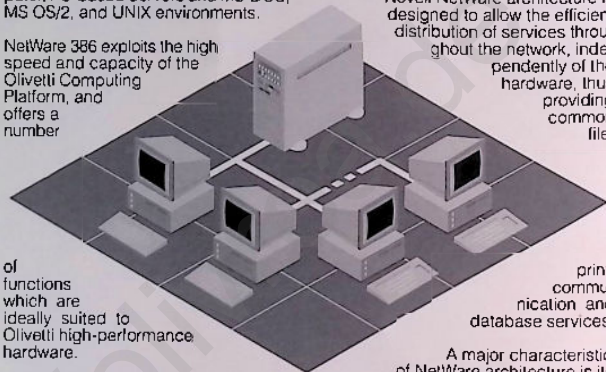
NetWare is based on multi-user, multi-tasking architecture, which enables a large number of operations and users to be handled simultaneously, thus allowing each user's jobs to be completed quickly, and providing users with access to many standard services.

Novell NetWare architecture is designed to allow the efficient distribution of services throughout the network, independently of the hardware, thus providing common file,

print, communication and database services.

A major characteristic of NetWare architecture is its expandability; if necessary, additional services can be added without interrupting normal network functioning.

As well as the Novell NetWare services available off-the-shelf, special customized Network Loadable Modules (NLMs) can be written for use on NetWare 386.







SFT NETWORK: THE FAULT-TOLERANT SOLUTION

The SFT NetWare (System Fault Tolerant) operating system addresses those network applications where data integrity, continuity of service and high system reliability are essential.

SFT NetWare is ideal for network computing environments of up to 100 users and enables most system problems to be handled on-site. Thanks to disk mirroring and duplexing, down time due to network component faults is reduced to a minimum; in addition, NetWare TTS (Transaction Tracking System) protects data in the event of a system crash.

ADVANCED NETWORK

Advanced NetWare is a high-performance operating system designed for workgroup computing.

Advanced NetWare combines the extensive and technologically advanced characteristics of NetWare LANs with the user friendliness of PC environments, and allows network users to access powerful mainframe and mini-computer functions, thus improving all-round system productivity and performance. Advanced NetWare offers functions such as data reading/writing checks, system security, and resource accounting.

ELS NETWORK (Entry Level System)

ELS NetWare Level II is the entry level operating system of the NetWare family; it is the updated version of the Level I solution.

ELS NetWare Level I and Level II are oriented to independent workgroup applications requiring dedicated and non-dedicated Servers.

ELS NetWare, the basic LAN solution, is designed to improve the productivity of small companies and professional people working in groups. It supports from four to eight users simultaneously, using tools of the type used in the more advanced versions of NetWare.

OTHER NETWORK SERVICES

NetWare is a complete solution for all kinds of LAN integration and management problems. The family of operating systems comprises a wide range of software products and communication services, and provides:

- Industry standard workstation support: applications resident on mixed workstations (MS-DOS, MS OS/2, Windows, UNIX) can access resources on both the local network and on the remote Host.
- Complete integration between LANs, between LANs and Host environments (SNA, etc.), between LANs and minicomputers (such as IBM AS400, IBM System/3X, etc.)
- Integration of NetWare networks in multivendor TCP/IP environments.

NETWORK ON THE OLIVETTI COMPUTING PLATFORM

Close technical collaboration between Olivetti and Novell guarantees full certification of all Olivetti Computing Platform products for use with Novell NetWare according to **IMSP Level II** (Independent Manufacturer Support Agreement Level II) standards. This is achieved by:

- Novell technical support.
- Novell certification of NetWare on the Olivetti Computing Platform.

Complete and efficient management of local networks requires a technologically advanced Server.

The Olivetti Computing Platform is based on state-of-the-art industry standard components: i386 processors (SX, DX)/486, high-speed EISA SCSI I/O interfaces, a wide variety of magnetic storage units and network boards with either Ethernet or Token-Ring wiring (either on ISA or EISA bus).

To ensure that the high performance of the Server machines and the NetWare software are fully exploited, Olivetti and Novell work together throughout the project in order to achieve perfect integration of hardware and network software.

The Olivetti Computing Platform offers a wide choice of both Server and Client models, and a solution appropriate to the type of user and particular requirements. The following Server/Client products provide different functional, power and configurability levels.

• SERVERS:

— **Super Servers:** Olivetti NetFRAME, the network Server mainframe, couples unprecedented networking throughput with mini/mainframe-like fault resistance and security features, taking full advantage of the power of NetWare 386.

— **High level Servers:** LSX 5020 and LSX 5010, state-of-the-art, highly-configurable, top-performance solutions for large networks with NetWare 386. M380/XP9 can be used with NetWare Advanced/SFT.

— **Medium level Servers:** M386/25 and M380-40; guarantee excellent integration in medium-sized networks with either NetWare 386 or Advanced/SFT, at a very competitive price.

— **Entry level Servers:** M300-10; ideal for small networks with NetWare ELS I/ELS II, providing good performance at low-cost.

• CLIENTS:

— **LAN workstations:** M300-01 (diskless); the ideal workstation for use as a LAN network Client. All the security functions required by a LAN workstation at a highly-competitive price.

— **LAN general-purpose workstations:** M300-05 and M300-10; perfect for general use with MS-DOS and MS OS/2.

— **LAN high-performance workstations:** M486, M380-40 and M386/25; the best solutions for networks requiring sophisticated and powerful workstations.



CHARACTERISTICS OF SERVER AND CLIENT MODELS

The following table describes the main characteristics (processor, bus, HDU, RAM) of the Olivetti Server and Client models:

	Olivetti NetFRAME 100/200	LSX 5020 200/400	LSX 5010	M486	M386-XP9	M386-40	M386-25	M300-10	M300-05	M300-01
CPU	1386/1486	1386/1486	1486	486	386/DX	386/DX	386/DX	386/SX	386/SX	386/SX
BUS	multiple	multiple	EISA	EISA	ISA	ISA	ISA	ISA	ISA	ISA
Max RAM	32 MB	64 MB	64 MB	64 MB	56 MB	52 MB	13 MB	16 MB	16 MB	16 MB
Max HDU	15 GB	42 GB	5.3 GB	660 MB	1.3 GB	1.3 GB	420 MB	420 MB	200 MB	(200 MB)
HDU type	SCSI	SCSI	SCSI	SCSI	ESDI	ESDI	ST 506	ST 506	ST 506	ST 506
HDUs:										
- 40 MB								*	*	*
- 100 MB				*		*	*	*	*	*
- 150 MB		*			*					
- 200 MB			*		*	*	*	*		
- 320 MB			*	*	*	*				
- 380 MB	*	*								
- 550 MB			*	*	*					
- 760 MB	*	*								
- 2x210 MB			*							

NETWORK BOARDS

Olivetti offers a wide range of Network boards for supporting the main types of network wiring: Ethernet/Cheapermet, Twisted pair, Token-Ring.

	Server NetWare 386	Server AdvSFT/ELS II	Server ELS I	Client MS-DOS	Client MS OS/2
NCU 9142 - Ethernet/Cheapermet	*	*		*	*
NCU 9141 - Ethernet/Cheapermet	*	*	*	*	*
NCU 9143 - Twisted pair	*	*	*	*	*
NPU 9180 - Ethernet/Cheapermet	*	*			
NPU 9181 - Twisted pair	*	*			
NCU 9162 - 4 Mbps Token Ring	*	*	*	*	*
NCU 9172 - 4/16 Mbps Token Ring	*	*	*	*	*

EASE OF CHOICE

Each model of the Olivetti Computing Platform can support a number of operating systems, and the Olivetti-Novell range is such that you can configure a balanced solution. A solution that reflects not only the hardware (existing and planned) concerned, but the particular features and functions you require.

Olivetti-Novell cooperation: your guarantee of freedom of choice in LAN solutions and maximum investment protection.

	Olivetti NetFRAME	LSX 5020 LSX 5010	M486	M386-XP9	M386-40	M386-25	M300-10	M300-05	M300-01
NW 386	*	*		*	*	*	*	*	*
SFT		*		*	*	*	*	*	*
Advanced		*		*	*	*	*	*	*
ELS II				*	*	*	*	*	*
ELS I					*	*	*	*	*
DOS WS			*	*	*	*	*	*	*
MS OS/2 WS			*	*	*	*	*	*	*
Access Server			*	*	*	*	*	*	*

- * Highly recommended
- Good solution
- Alternative Solution

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