HP X.500 Distributed Directory

Technical Data

**Product Numbers
J2152A, J2153A**

HP X.500 Distributed Directory is a full X.500 directory based on the 1988 CCITT X.500 standard. HP X.500 can be used for accessing names and electronic mail addresses for multivendor messaging backbone networks. HP X.500 can also be used for the development of networked applications requiring distributed directory functionality.

Features

Integrated with HP OpenMail:
HP OpenMail terminal interface users will be able to access the enterprise-wide HP X.500 distributed directory directly from the user interface. X.500 addresses can be selected and automatically returned to OpenMail, simplifying the process of mailing multivendor electronic mail.

Integrated with HP-UX Mailers:
HP-UX Sendmail users can access electronic mail addresses from an X.500 server over a TCP/IP network.

End-User Address Look-up:
Easy-to-use X.500 interface allows users of non-HP e-mail systems to access data stored in the X.500 Directory. Phonetic searches allow users to find names when they are uncertain of the spelling.

X.500 APIs:
X/Open X.500 APIs (XDS and XOM) are included with the product and allow developers to write their own X.500-based applications. HP X.500 also supports high-level APIs on top of XDS, which simplify and speed application development.

Messaging Backbone Foundation:
HP X.500 works together with HP X.400 to form the foundation for a multi-vendor messaging backbone. Common user interfaces and troubleshooting tools simplify the integration of multivendor environments.

Menu Driven Administration:
Full screen, menu driven administration tools simplify configuration and data retrieval.

Replication:
Data Shadowing, the ability to automatically replicate data among groups of DSAs, allows higher performance and easier management of the database in a global environment.

Security:
Access control prevents unauthorized users from obtaining and manipulating secured directory data.

### Interoperability and Troubleshooting Tools:
HP provides a full set of tools to help simplify the interoperability and troubleshooting process. HP's OSI tools allow the network administrator to check the

interoper-ability of the network at various layers of the OSI stack, isolating problems quickly and easily.

Complete DUA and DSA:
HP X.500 includes a complete multi-threaded Directory User Agent (DUA) and Directory Server Agent (DSA). The X.500 Directory Information Base (DIB) is built on a database that has been optimized for X.500 performance. HP X.500 contains full support for Directory Access Protocol (DAP) and Directory Server Protocol (DSP).
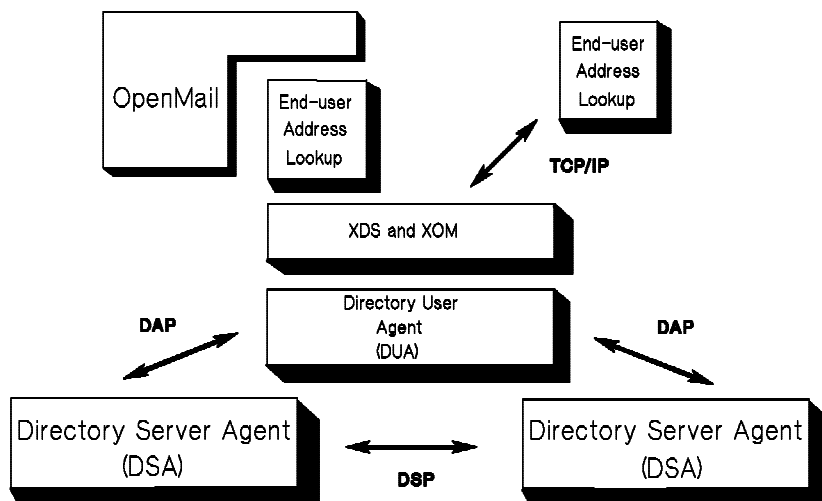
Object Classes:
All X.500 and 1988-X.400 object classes and attributes are supported. User defined object classes and attributes are fully supported.

Configurable Schema:
HP X.500 supports the creation and modification of subclasses and DIT hierarchy.

Functional Description

HP X.500 is a distributed database that is based on the client server model. The Directory User Agent (DUA) acts as the client while the Directory Server Agent (DSA) is the server. The DUA can reside on the same computer as the DSA or can access a DSA remotely.

The DSA is the place where data is held. Because X.500 is a distributed directory, data can be partitioned and shared between multiple DSAs. Each DSA can contain a portion of the directory or the entire directory.

HP X.500 supports distributed directory operations, which include chaining, multicasting, and referral.

Applications can be developed on top of the DUA using industry-standard (X/OPEN) XOM and XDS APIs. Administration screens allow configuration and data manipulation through the DUA.

The end-user address look-up facility allows X.500 data to be accessed from a TCP/IP network. This facility is also integrated with the HP OpenMail Electronic Mail software.

Conformance

HP X.500 complies with the following standards: CCITT Directory Recommendation X.500 to X.521; ISO/IEC 9504-1, 9594-2, 9594-3, 9594-4, 9594-5, 9594-6, 9594-7, 9594-8; HP will be conformant to NIST and EWOS directory functional profiles.

Installation and Support Policy

HP X.500 Distributed Directory Software is customer installable and configurable. Installation and configuration can also be performed by HP through the purchase of consulting services. Interoperability testing can also be purchased from Hewlett-Packard on a time and material basis.

Ordering Information

P/N J2152A
HP X.500 Distributed Directory/9000 for the HP Series 800 (Product contains DSA server and DUA client).

P/N J2153A
HP X.500 DUA/9000 for the HP Series 800 (DUA client only).

Required Products

HP X.500 Distributed Directory products (J2152A and J2153A) also require the use of:
• 32070A HP OSI Transport/9000 for the HP Series 800
• HP X.25 or HP LAN link products.