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## Feasibility Comparison and Analysis of the UNIX Network Environment and the Windows NT Environment for Integration with the Defense Information Infrastructure.

**Accession Number :** ADA320168

**Title :** Feasibility Comparison and Analysis of the UNIX Network Environment and the Windows NT Environment for Integration with the Defense Information Infrastructure (DII).

**Descriptive Note :** Master's thesis,

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**Full Text :** <http://www.dtic.mil/dtic/tr/fulltext/u2/a320168.pdf>

**Report Date :** SEP 1996

**Pagination or Media Count :** 226

**Abstract :** The history of the Department of Defense (DOD) information system technical infrastructure includes a collection of stovepipe, single purpose systems. Recently, the DOD has developed initiatives to help promote the development of common target architectures to which DOD information systems can migrate, evolve, and interoperate. The DOD's Technical Architecture Framework for Information Managers (TAFIM) provides system developers guidance and methodologies for developing standard architectures. The Defense Information Infrastructure (DII) Common Operating Environment (COE) is a development architecture based on the ideas of TAFIM, and provides a framework for designing and building military information systems. This thesis applies the objectives presented in TAFIM in order to develop an approach for determining which network operating system (NOS) would best facilitate implementations of the DII COE. By first examining the evolution of Navy information systems, and the development of the DII COE, this thesis provides a detailed description of requirements placed on a NOS by a DOD DII COE based information system. These requirements are then used to help understand how TAFIM's objectives apply to NOSs. Two prevalent NOSs, Unix and Windows NT, are evaluated structured on TAFIM's guidance and the requirements of the DII COE. A determination is made based on these guidelines that both NOSs belong in future information systems, for appropriate tasks, based on the DII COE.

**Descriptors :** \*MANAGEMENT INFORMATION SYSTEMS , \*COMPUTER ARCHITECTURE , \*OPERATING SYSTEMS(COMPUTERS) , DEPARTMENT OF DEFENSE , SYSTEMS ENGINEERING , DATA MANAGEMENT , INFORMATION EXCHANGE , DISTRIBUTED DATA PROCESSING , DATA PROCESSING SECURITY , COMPUTER COMMUNICATIONS , LOCAL AREA NETWORKS , THESES , WIDE AREA NETWORKS , INFORMATION CENTERS , SYSTEMS ANALYSIS , MICROCOMPUTERS , MAN COMPUTER INTERFACE , BUFFER STORAGE , COMPACT DISKS , GLOBAL COMMUNICATIONS.

**Subject Categories :** COMPUTER PROGRAMMING AND SOFTWARE  
COMPUTER SYSTEMS

**Distribution Statement :** APPROVED FOR PUBLIC RELEASE

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