

Information Technology Resource Management Council (ITRMC)

ENTERPRISE STANDARDS – S3000 NETWORK AND TELECOMMUNICATIONS

Category: S3520 – NETWORK CONNECTIVITY AND TRANSPORT – LOCAL AREA NETWORK

CONTENTS:

- I. [Definition](#)
- II. [Rationale](#)
- III. [Approved Standard\(s\)](#)
- IV. [Approved Product\(s\)](#)
- V. [Justification](#)
- VI. [Technical and Implementation Considerations](#)
- VII. [Emerging Trends and Architectural Directions](#)
- VIII. [Review Cycle](#)
- IX. [Time Line](#)
- X. [Revision History](#)

I. DEFINITION

A Local Area Network (LAN) is used to link computers and/or peripherals in a limited area, usually less than two (2) miles. A LAN allows users to communicate and share information, data, and applications.

II. RATIONALE

Idaho State government must be able to easily, reliably, and economically communicate data and information to conduct State business. Ethernet is widely used and is endorsed by ITRMC for use in State government local area networks. The standards recommended by the Institute of Electrical and Electronics Engineers (IEEE) are recognized as the primary standards for Local Area Networks.

III. APPROVED STANDARD(S)

IEEE 802.3 (Ethernet)

IV. APPROVED PRODUCTS(S)

Standards-based products and architecture

V. JUSTIFICATION

Products and LAN implementations must conform to approved standards.

VI. TECHNICAL AND IMPLEMENTATION CONSIDERATIONS

The deployment of a Local Area Network is a complex task that requires skilled resources. It is also important to carefully consider the security implications of the deployment, administration, and operation of a Local Area Network.

VII. EMERGING TRENDS AND ARCHITECTURAL DIRECTIONS

Recent trends indicate increasing use of Ethernet as both a Wide Area Network (WAN) and Local Area Network solution.

VIII. REVIEW CYCLE

Twelve (12) Months

IX. TIME LINE

Last Reviewed: September 13, 2006

Last Revised: September 13, 2006

Effective Date: April 24, 2002

X. REVISION HISTORY

9/13/06 – Section VIII, Review Cycle, updated to reflect a 12-month, rather than 6-month, review cycle. Warranted due to well established industry standard that is not likely to change in the near future.