	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES **Policy and Procedure**	POLICY AND PROCEDURE NUMBER DPDR **02.03.030**	PAGE 1 of 3
		EFFECTIVE DATE September 10, 1993	
SUBJECT **Computer Networking LAN Approval Procedure and Standards**		SUPERSEDES	DATED
TITLE **Administration**	CHAPTER **Information Systems**	APPROVED BY Signature on File	

PURPOSE AND SCOPE

In accordance with Policy Number 02.03.030, this procedure establishes the department-wide standards for computer networking and the approval process for implementing a Local Area Network (LAN).

In order for the Information Systems Division (ISD) to provide an effective Wide Area Network (WAN) for department wide applications, the number of LAN operating systems/versions/releases must be kept to a minimum and changes/upgrades made in a coordinated manner.

Network standards are found in Attachment A of this document.

DISTRIBUTION

All holders of the Department of Transportation & Public Facilities Procedures Manual.

PROCEDURE

A. Responsibility

1. Information Systems Division

    The Information Systems Division (ISD) is responsible for maintaining a focused department-wide approach to computer systems. Within the scope of network standards this responsibility translates to approving new LAN installations and significant upgrades to existing LANs (new rings, legs, servers or segments), providing interface testing between a region/system LAN and the department-wide WAN, assisting regions/systems with defining their requirements for LAN and WAN use, and installation support as appropriate.

    NOTE: Attachment A will be reviewed and revised as necessary to stay current with technology changes.

2. Regions/Systems

Regions/Systems are required to submit to ISD a plan when installing a new LAN or significantly upgrading a current LAN (new rings, legs, servers, or segments) for review and approval. The ISD review/approval process will be five or less working days.

Region/System network standards must fall within the department wide standards defined in Attachment A.

B. Installation/Upgrade Plan Content

A local Area Network Installation/Upgrade Plan is to be submitted to ISD for review with enough lead time to permit a coordinated review including, at a minimum, the following:

1. wiring diagrams with wire specifications
2. operating system vendor and version
3. server hardware configuration
4. gateway software and hardware configuration
5. application software and version
6. implementation plan
7. training plan
8. system administrator name and responsibilities

Attachments

A. Network Standards

Network Operating Systems

The following operating systems and topologies comprise the universe of LANs supported by ISD for connection to the department's WAN. The version numbers of the operating system will be kept current or within one or two updates of the current version.

IBM OS/2 LAN Server
Novell Netware
Apple System
CTOS
Unix (Vendors and versions to be determined)

- IBM AIX
- SUN SOLARIS
- HP UX
- SCO
- DEC ULTRIX

NOTE: dedicated peer-peer networks, such as Novel Lite and Windows for Work Groups, are not supported.

LAP Topology

    Ethernet - IEEE 2802.3
    Token Ring - IEEE 802.5

LAN Communication Protocols

    IPX / SPX
    NETBIOS
    EtherTalk
    AppleTalk
    TCP/IP

WAN Communication Protocol

    TCP/IP

Wiring

Before any wiring for use with computer systems is installed, the project must be reviewed and approved by IS~~D~~. IS~~D~~ adheres to published industry standards in reviewing wiring projects. Contact IS~~D~~ for additional information.

Network Devices

All network devices must be Simple Network Monitoring Protocol compliant. Network devices include at a minimum the following:

    Wiring Hubs
    Multiple Access Units
    Repeaters
    Gateways
    Concentrators
    Fiber Hubs

Routers

    cicso - software version X.X