

## Idaho Technology Authority (ITA)

### **ENTERPRISE STANDARDS – S3000 NETWORK AND TELECOMMUNICATIONS**

**Category: S3510 – NETWORK CONNECTIVITY AND TRANSPORT – TRANSPORT**

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#### **I. DEFINITION**

Transport provides for the transparent transfer of data between different hosts and systems. The two (2) primary transport protocols in the Transmission Control Protocol/Internet Protocol (TCP/IP) suite are the Transmission Control Protocol (TCP) and the User Datagram Protocol (UDP).

#### **II. RATIONALE**

Idaho State government must be able to easily, reliably, and economically communicate data and information to conduct State business. TCP/IP is the protocol standard used throughout the global Internet and endorsed by ITA [Policy 3020 – Connectivity and Transport Protocols](#), for use in State government networks (LAN and WAN).

#### **III. APPROVED STANDARD(S)**

TCP/IP Transport:

1. Transmission Control Protocol (TCP); and
2. User Datagram Protocol (UDP).

#### **IV. APPROVED PRODUCT(S)**

Standards-based products and architecture

## **V. JUSTIFICATION**

TCP and UDP are the transport standards for critical State applications like electronic mail and World Wide Web services.

## **VI. TECHNICAL AND IMPLEMENTATION CONSIDERATIONS**

It is also important to carefully consider the security implications of the deployment, administration, and operation of a TCP/IP network.

## **VII. EMERGING TRENDS AND ARCHITECTURAL DIRECTIONS**

The use of TCP/IP (Internet) protocols and applications continues to increase. Agencies purchasing new systems may want to consider compatibility with the emerging Internet Protocol Version 6 (IPv6), which was designed by the Internet Engineering Task Force to replace IPv4 and will dramatically expand available IP addresses.

## **VIII. PROCEDURE REFERENCE**

Network Connectivity and Transport – Transport used on the State of Idaho’s Wide Area Network must comply with the Department of Administration’s “[P3020 – Connectivity and Transport Protocols](#).”

## **IX. REVIEW CYCLE**

Twelve (12) Months

## **X. CONTACT INFORMATION**

For more information, contact the ITA Staff at (208) 605-4064.

## **REVISION HISTORY**

07/01/13 – Changed “ITRMC” to “ITA”.

6/16/09 – Added Procedure Reference and deleted Timeline.

9/13/06 – Section VIII, Review Cycle, updated to reflect 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.

8/25/04 – Revised to recommend considering compatibility with Internet Protocol Version 6 (IPv6) when purchasing new systems. IPv6 was designed by the Internet Engineering Task Force to replace IPv4 and will dramatically expand available IP addresses.

Effective Date: April 24, 2002