

## Information Technology Resource Management Council (ITRMC)

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

**Category: S3550 – NETWORK CONNECTIVITY AND TRANSPORT – STRUCTURED CABLING**

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#### **I. DEFINITION**

Structured cabling is a standards-based approach to cable plant installation (inside wiring) within a facility or group of buildings.

#### **II. RATIONALE**

Idaho State Agencies utilize a broad diversity of devices that need to be connected via a common physical infrastructure. An industry recognized standards-based installation and management approach results in uniform wiring at different locations, improved management of building space resources and reduced costs for wiring installation, support and management

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

1. ANSI/TIA/EIA 568, Commercial Building Telecommunications Cabling Standard (most current version);
2. ANSI/TIA/EIA 569, Commercial Building Standard for Telecommunication Pathways and Spaces (most current version); and
3. ANSI/TIA/EIA 606, Administration Standard for the Telecommunication Infrastructure of Commercial Buildings (most current version).

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

Standards-based

#### **V. JUSTIFICATION**

The Electronics Industry Association (EIA) and Telecommunications Industry Association (TIA) standards are the primary international standard for structured cabling systems. These standards have also been fully or partially included in the National Electrical Code (NEC), American National Standards Institute (ANSI), the National Electrical Manufacturers Association (NEMA), and Underwriters Laboratories (UL).

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

Increased network data traffic and application demands continue to drive the need for adequate and reliable wiring in state facilities. Agencies should require electrical, telecommunications or wiring contractors to adhere to these standards for cable plant installation. Agencies should also ensure that premises wiring installations conform to any applicable electrical, fire, or safety code. It is also important to carefully consider the physical, logical, and network security implications of the deployment and maintenance of structured cabling.

This policy does not require recabling existing installations to conform to newer standards, but supports recabling to the latest standards when dictated by safety, operational or business considerations.

#### **VII. REVIEW CYCLE**

Twelve (12) Months

#### **VIII. TIME LINE**

Last Reviewed: September 13, 2006

Last Revised: September 13, 2006

Effective Date: April 24, 2002

#### **IX. REVISION HISTORY**

9/13/06 – Section VIII, Review Cycle, updated to reflect 12-month review rather than 6-month review. Warranted due to well established industry standard with language in the state standard that allows automatic accommodation to updates to the industry standard.

7/20/05 – Revised to remove references to outdated revisions, allowing the State to automatically remain current with the industry.