



Office of the Chief
Information Officer

PHYSICAL SECURITY TECHNICAL STANDARDS FOR SPECIAL PURPOSE BUILDINGS ETHERNET SWITCHES

Architecture, Standards and Planning Branch

Office of the CIO ● Province of BC

People ● Collaboration ● Innovation

Version 1.0

November 25, 2011

Introduction

This is a new standard to address the requirements for a secure enclosure of client Ethernet switches.

This new standard was developed to accommodate small venues where space is very limited and the updated 'Physical Security Technical Standards Client Telecom Closets, of November 25, 2011' is neither practicable nor feasible to use in the installation and protection of Client Ethernet switches.

This standard was developed to provide physical security around client Ethernet switches that reside within a building designed or used for a definitive government business purpose.

The new standard has been in pilot since January 2011 and has been through a successful peer-review.

Purpose

The purpose of the standard is to ensure Client Ethernet switches are protected and secured from any unauthorized persons or other environmental factors found within, or associated with, a special purpose building.

Definition of Special Purpose Building

Special Purpose Buildings are unique properties that are used for a very specific purpose by ministry clients. They are generally small and very limited in space. They are usually occupied by a primary ministry tenant, as opposed to being a shared space that can accommodate more than one ministry tenant.

Special purpose buildings can be trailers acting as remote forests offices in a remote region of the province, weigh stations, small community ambulance stations and employee residences acting as an office.

Scope

The document applies to Shared Services BC and its service partners whom act as implementers and installers of the Client Ethernet Switches. It specifies the physical security requirements for client Ethernet Switches.

The document does not apply to:

- The implementation and installation Building Utilities Services (BUS) Ethernet Switches. Please refer to the 'Physical Security Technical Standards for: Building Utilities Services (BUS) Ethernet switches' November 25, 2011.

Standard

1. Client Ethernet Switches, along with other IT Infrastructure, must be installed in a secure enclosure such as a cabinet.
2. Secure cabinets shall be installed in secure service room with a lockable door, within the client leased space.
3. The enclosure must meet Telcordia GR-487-CORE tamper resistance.
4. The enclosure or (cabinet) must be attached to the wall.
5. Enclosures shall have a door mounted tamper switch tied into the building's security system as an intrusion alarm zone. For sites that do not have a building security system, tamper switch must be wired into a local audible alarm.
6. The secure cabinet must be kept locked and the key shall be held by the Office Manager.
7. Client Ethernet switches must have its own secure cabinet and not housed jointly with BUS Ethernet switches.
8. Two CAT5e cabling runs installed from the SSBC Network Services router to the secure cabinet.
9. Install dedicated NEMA 5-20RA receptacle in the secure cabinet.

Normative References

International Standards

- Generic Requirements for Electronic Equipment Cabinets - [Telcordia GR-487-CORE](#)

Government Standards

- [SSBC-IWS Technical Standards for Offices Building Construction \(2010\)](#). These standards provide the technical requirements for construction of new buildings that IWS leases or builds for its clients.

Exceptions for this Standard

This standard is an acceptable exception to the existing 'Physical Security Technical Standards for Telecommunication Closets', November 25, 2011 v2.0'.

Other Exceptions

There is one exception to this standard. It is:

- Building Utilities Services for installing and securing BUS Ethernet Switches

Terms and Definitions

For the purposes of this document, the following terms, definitions and acronyms apply:

ACRONYM	TERM	DEFINITION
	Client Ethernet Switches	Client local area network switches are those installed and used specifically for a ministry business purpose.
	Telcordia	A telecommunications company that provide the view of proposed generic criteria for telecommunications equipment, systems, or services considering a wide variety of factors, including interoperability, network integrity, participating-client expressed needs, and other inputs.

Metrics and Enforcement

The intention of the OCIO is to advertise and promote this standard as being mandatory throughout government. However, in order to effectively manage the physical security around the Ethernet switches, the Shared Services BC implementer is accountable for compliance to this standard. The OCIO Information Security Branch will also monitor for compliance.