

2.5-5.1.2.2 Communications system equipment locations shall be permitted to house both communications system equipment and electronic safety and security equipment. See Section 2.5-6.2.2 (Locations for Safety and Security Equipment).

2.5-5.1.2.3 Locations for terminating telecommunication and information system devices shall be provided unless wireless systems are used.

2.5-5.2 Call System

See common element and facility chapters in Parts 3 through 5 for requirements.

2.5-5.3 Technology Equipment and Teledata Room(s)

2.5-5.3.1 General

*2.5-5.3.1.1 Purpose

- (1) The technology equipment room shall house the main networking equipment, servers, and data storage devices that serve the building.
- (2) Telephone equipment shall be permitted to be included in the main technology equipment room.

2.5-5.3.1.2 Number. Each residential health, care, or support facility shall have at least one main technology equipment room and additional teledata rooms or closets as necessary to accommodate the systems used in the facility or setting.

*2.5-5.3.2 Size

2.5-5.3.2.1 The technology equipment room shall be sized to accommodate the number of racks needed for anticipated servers, networking, and storage.

2.5-5.3.2.2 The technology equipment room shall be sized to provide clearances to meet service requirements for the equipment that will be housed there.

*2.5-5.3.3 Location and Access

2.5-5.3.3.1 The technology equipment room shall be located above any floodplains and, in multi-story buildings, below the top level of the facility to deter water damage to the equipment from outside sources (e.g., leaks from the roof or flood damage).

2.5-5.3.3.2 In areas prone to hurricanes or tornados, the technology equipment room shall be located away from exterior curtain walls to prevent wind and water damage.

2.5-5.3.3.3 The technology equipment room shall be located a minimum of 12 feet (3.66 meters) from any transformer, motors, induction heaters, radio and radar systems, and other sources of electromagnetic interference.

2.5-5.3.4 Technology Equipment Room Facilities

2.5-5.3.4.1 Mechanical and electrical equipment or fixtures that are not directly related to the support of the technology equipment room shall not be installed in, pass through, or enter the room.

Industry Association (TIA) should be factored into the size of the room.

A2.5-5.3.3 Technology equipment room location and access

- a. The technology equipment room should be located or designed to avoid vibration from mechanical equipment or other sources.
- b. Locations that are restricted by building components that limit future expansion (e.g., elevators, building structural elements, kitchens, central energy plants, outside walls, or other fixed building walls) should be avoided.
- c. Accessibility should be provided for the delivery of supplies and equipment to the space.

APPENDIX

A2.5-5.3.1.1 Technology equipment room. This room is the core of the information and technology system and of the communications system for a residential health, care, or support facility. The room should be environmentally controlled, have a power-conditioned electrical supply, and be fire-protected. It must be a locked space with limited access.

A2.5-5.3.2 Technology equipment room size. The actual size requirements for a technology equipment and teledata room should be clearly defined. A growth factor appropriate to the needs of the facility as recommended by industry organizations such as BICSI (Building Industry Consulting Services International) or the Telecommunications