

## **APPENDIX D DATA AND COMMUNICATIONS STANDARDS OVERVIEW**

Following this overview is a comprehensive specification for data and communication standards. The standards include all aspects of wiring, devices, equipment and space requirements necessary for new buildings and major renovations and additions. It may not be necessary for smaller renovation projects to include the entire data/communication specification. Input from the University departments of Educational & Information Technology and Rocket Telecom (telecommunications) shall be solicited early in the planning stages of the project, via the Design and Construction Project Manager, to determine the scope necessary. In general, the following activities will be required for any project that includes new data/communications service or modifications to existing.

### **Data networking**

- Project Manager notifies EIT's University Network Department (UND) director of project requiring service.
- Depending upon the size and scope of the project, the UND director will determine the need for, and specify the following:
  - Primary building connectivity to campus backbone
  - Need for network closets and locations
  - Need for closet switches and other network components
- With the exception of switches, all network wiring, equipment and devices shall be installed by the contractor. In most cases, switches will be ordered by EIT through the University Purchasing Department and funded via the equipment portion of the project budget. However, even if the switches are purchased as part of the construction, they will be configured and installed by UND. This shall be coordinated through the Project Manager.
- It is important that all data equipment, furnished by contractor or owner, be ordered far enough in advance to accommodate the project occupancy date. Consideration should also be given for the amount of time UND will need to install and test.

### **Wireless Data Network**

- Wireless networking should be planned for any major project.
- In the case of a partial renovation of an existing facility, a site survey should be made for the entire facility.
- UND director shall be consulted regarding appropriateness of coverage, number of Access Points and placement.
- In general, contractor shall be responsible for all equipment and construction as directed by the UND director via the Project Manager.
- UND will configure the Access Points and test.

### **Telecommunications**

- Project Manager notifies Rocket Telecom manager of project.

- Telecom manager, or his designee, shall be involved early in the programming stage, and be consulted throughout the design of major renovations or new buildings.
- For smaller renovations, telecom manager shall be consulted early in the project to determine if upgrades are needed to existing wiring or equipment in order to satisfy the communication needs of the user.
- In general, all equipment, wiring, installation and testing will be the responsibility of the contractor. On small projects that include local funding, Rocket Telecom, or their contractor, may provide these services. In this event, they will be reimbursed from the project budget.
- As the case with data networking, equipment shall be ordered far enough in advance to be installed and tested prior to occupancy.

### **Data and Communication Standards Index**

- Preface: UT Data/Telecommunication Specification Directory
- Section 16453: Data/Telecommunication Grounding
- Section 16731: Interbuilding Data/Communication Cable Systems
- Section 16741: Telephone/Data Raceway Systems
- Section 16751: Intrabuilding Data/Communication Cable Systems
- Annex A: UT Standard Cable Identification & Numbering Procedure
- Annex B: Furniture Partition – Data/Communication Cabling Compliance
- Annex C: Rocket Card Wiring Standard
- Annex D: Wireless Network Wiring Standard
- Annex E: Data/Telecommunications Spaces & Services (Design Criteria for Associates)
- Annex F: Contractor Qualifications & Responsibilities
- Annex G: Submittals