

Welcome

BICSI And BICSI Standards, An Overview

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Greg Sherry, Qualitas Ltd

- 1976 - Started in the IT industry
- Various roles from field engineering to software support (Novell!)
- 1990's - Infrastructure design installation
- 2000 - Started to focus on Data Centres
- Today - 75% of time on Data Centre audit and design review

Brief History of BICSI

Formed 1974

Started in the University of South Florida

Grew out of the US Telcom Companies

Represented in 103 Countries

18,000 members worldwide



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How is BICSI run

Made up off 5 US Regions, Canada & Europe

Other areas of the world run as Districts

Governed by Elected Board of Directors

Volunteer committees carry out the work

50 staff at HQ Tampa FL, 8 worldwide staff



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What does BICSI do

Develop Manuals and Training courses

Provide credentialing through RCDD program

Specialities in NTS, WD and OSP

Installation and Technician level courses

Approved as a standards body



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BICSI Standards

BICSI currently has four standards either published or in progress:

ANSI/NECA/BICSI-568 2nd edition

ANSI/BICSI -001 installation standard for K-12 educational institutions

ANSI/BICSI -002 Data Centre Design

ANSI/BICSI -003 Grounding and bonding



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TIA 942

- Standards started development in 2002
- First attempt to combine all DC disciplines
- Input from IT, ASHRAE, architects & users
- Ratified in April 2005
- 139 pages of technical information
- Developed Tier strategy for DC's from Tier 1 to Tier 4



Intended Audience

The ANSI/BICSI-002 Data Centre Design & Implementation Best Practices Standard (BICSI 002) is intended for use by the following Groups:

IT & Telecom Designers
IT & Telecom Management
IT Operations Management
Facilities Management
Security & Loss Prevention
Architects & Engineers
Construction Companies



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Scope of the Standard

The scope of the BICSI-002 standard is to:

Develop a *best practices* and implementation document

Compliment the TIA and CENELEC DCD standards

Where possible, avoid duplication of content already available

Provide references to other applicable standards and guidelines such as ISO, CENELEC, TIA, ASHRAE, IEEE, etc.

ANSI/BICSI-002

Data Centre Design Standard

Expansion of TIA 942 Standard

Designed as 'How to do' manual

Expected to be in excess of 550 pages

Up for 2nd Draft review in September 2007

Possible release early 2008



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BICSI Data Centre Design Standard

Key Topics:

Design Process

Space Planning

Reliability

Site Selection

Architectural

Structural

Electrical

Mechanical

Fire Protection

Security

Telecommunications

Information Technology

Commissioning

Data Centre Maintenance



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BICSI Data Centre Design Standard

Space planning

Power Systems

Cooling Capacity

DC Supporting Space Adjacencies

Site Selection

Natural Environment

Regulations

Location Environment

Reliability

Risk Analysis

Reliability Planning

Architectural

Design Concepts

Construction Components



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BICSI Data Centre Design Standard

Electrical

Distribution

UPS

Standby Power Systems

Grounding

Fire Protection

Basic Design Elements

Fire Detection

Mechanical

Environmental Conditions

Thermal Management

Mechanical Equipment

Security

Risk & Threat Assessment

Access Control

Surveillance

Alarms



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Telecommunications

Telecom Spaces

Cabinets and Racks

Cabling Pathways

Cabling

Administration

Information Technology

DR

Mirroring

Computer Room Layout

Communications



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European Events for 2007/2008

Breakfast/Pub Club events across Europe

Next London event Docklands 19th July

Spanish One Day Conference, Oct 2007

Italian One Day Conference, March 2008

Three Day European Conference 2008



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Thank you for your attention

Greg Sherry RCDD/NTS/WD

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For more information:

www.bicsi.org



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