Introduction to BICSI

Garies Chong
RCDD DCDC DCCP DCPD
Managing Director – EMS Wiring Systems
BICSI SEA District - Chair
BICSI Global

Garies Chong, RCDD, DCDC
BICSI Southeast ASIA – Chair
Managing Director – EMS Wiring Systems Pte., Ltd.
What is BICSI?


BICSI is a non-profit association serving professionals in the Information & Communications Technology (ICT) community

Core Purpose: Advancing the ICT Community

BICSI’s Vision: BICSI will be the preeminent global resource for developing standards, providing credentials, accreditation and knowledge transfer for the ICT community
BICSI Provides ICT Community Professionals with . . .

**Technical Knowledge**
- Internationally Adopted Industry Standards
- Technical Publications & Periodicals

**Professional Development**
- Globally Recognized Credentials
- Training in ICT Design, Installation and Project Management

**Access to Local & Global ICT Communities**
- Educational Conferences & Exhibitions
- Professional Networking
In the Following ICT Community Segments

• Commercial & Residential Infrastructure
• Datacenters
  – Design
  – Operations
• Outside Plant Cabling Distribution
• Electronic Safety & Security
• Building Automation

• Wireless Systems
• Network Infrastructure
• Telecommunications Project Management
• Installation & Verification of Technology Systems
BICSI Serves more than 23,000 ICT community professionals in 100 countries around the world

BICSI Office Locations
• Tampa, FL - HQ
• Dubai, UAE
• Melbourne, Australia
• Tokyo, Japan
Southeast Asia (SEA)

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www.bicsi.org/sea
BICSI Products & Services
Registered Communications Distribution Designer

UNIFIED FACILITIES CRITERIA (UFC)

CHAPTER 2 BUILDING TELECOMMUNICATIONS CABLEING SYSTEM SPECIFICATIONS

The BCS is designed to satisfy Army Installation Information Infrastructure Architecture (IIA) policy, UFC 3-580-10 Design: Navy and Marine Corps Intranet (NMCI) Standard Construction Practices Information System (IS), and Engineering Technical Letter (ETL) 02-12: Communications and Information System Criteria for Air Force Facilities requirements within a facility. The BCS must be installed in accordance with the Telecommunications Industry Association (TIA) and Electronics Industry Alliance (EIA) Building Telecommunications Wiring Standards general guidelines with modifications and clarifications provided below. TIA/EIA specifications can be purchased at http://www.tiaonline.org/standards/. Telecommunications design must be performed and stamped by a Registered Communications Distribution Designer (RCDD) for all projects. For projects that involve the Navy Marine Corp Intranet (NMCI), coordinate infrastructure design with UFC 3-580-10 Design: Navy and Marine Corps Intranet (NMCI) Standard Construction Practices. For projects that involve the US Air Force coordinate infrastructure design with ETL 02-12.

www.bicsi.org/rcdd
Other BICSI Credentials

www.bicsi.org/credentialing
BICSI ICT Training

BICSI CONNECT
Web-based training

BICSI Webinars
Instructor-led courses online

On-Site Classes
BICS Training Delivery Specialists (TDS) come to you

Open Enrollment Courses
Open to general public; check schedule online

Authorized Training Facilities and Authorized Design Training Providers (ATF/ADTP)
BICSI courses offered at approved locations by licensed instructors

www.bicsi.org/train
Electronic Credentialing Exams

• Test for BICSI credentials

• Visit www.pearsonvue.com/bicsi to schedule a computer-based exam

• Email credentialing@bicsi.org for exam specifics
Technical Publications

- Information Technology Systems Installation Methods Manual (ITSIMM)
- Telecommunications Distribution Methods Manual (TDMM)
- Outside Plant Design Reference Manual (OSPDRM)
- Telecommunications Project Management (TPM) Manual

www.bicsi.org/publications
BICSI International Standards Program

Develop standards within all facets of Information & Communications Technology (ICT) infrastructure design and installation

Details:

- Over 450 members worldwide
- Accredited by ANSI
- Develops international standards and best practices

www.bicsi.org/standards
Information on ANSI
(American National Standards Institute)

Promotes the use of standards in the US
Accreditation body for:
 Standards Development
 Credentials (ISO 17024)
 Testing Labs (ISO 17025)
Ensures open and impartial processes
Doesn’t develop standards!
Standards Development Cycle

Industry Needs
Technology Trends
Designers
Suppliers
Clients

Idea to Consensus Body

Use

Draft
Consensus Ballot
Review of Results
BICSI Standards Within ICT

IEEE
Defines the message and transmission characteristics

ISO/IEC & TIA
Defines the transmission media and system specifications

BICSI
Defines how to design solutions using transmission media and systems
BICSI Published Standards

• Building/Facilities
  - K12 / Primary Education Facilities (001)
  - Data Centers (002)
  - Healthcare Facilities (004)

• Systems
  - ESS (005)
  - DAS (006)

• Installation
  – Cable Installation (NECA/BICSI 568)
  – ICT Bonding and Grounding (NECA/BICSI 607)

• Other
  – BIM for ICT (003)

www.bicsi.org/standards
Current Activities

New Standards:

• Data Center Operations
• ICT Systems for Intelligent Buildings
• OSP Installation and Construction
  – General Principles
  – Aerial Pathway

Revision Activities:

• Revision to BICSI 005, ESS
  – IP Fire Alarm
• Revision to BICSI 001, Educational Facilities
  – Expanded scope to include secondary, graduate, post-graduate facilities
Inter-Operability

- Government Regulations
- Electrical Code
- Building Codes
- Fire Code
- Electrical Standards
- Cabling Standards
- Cabling Pathways and Spaces
- Environmental Conditions
- Building Standards
- Security Standards
Reach of BICSI Standards
**BICSI Events**

**Conferences & Exhibitions**
Technical presentations, exhibits and networking

**Breakfast Clubs**
Breakfast, technical presentations and networking

**Pub Clubs**
Refreshments, technical presentations and networking

**Seminars**
Technical presentations and networking at a sponsored site

www.bicsi.org/events
BICSI Global 2017 - 2018 Conferences & Exhibitions

- BICSI SEA Thailand Conference & Exhibition
  23 – 24 November 2017, Bankok Thailand

- BICSI South Korea Conference & Exhibition
  24 November 2017, Seoul, South Korea

- BICSI Japan Conference & Exhibition
  29 November 2017, Toyko, Japan

- BICSI MEA – Breakfast Club
  05 January 2018, Dubai, UAE

- BICSI Winter Conference & Exhibition
  04 – 08 February 2018, Orlando, Florida, USA

- BICSI India Conference & Exhibition
  012 April 2018, Mumbai, India

- BICSI Middle East & Africa Conference & Exhibition
  17 - 19 April 2018, Dubai, UAE

- BICSI CALA District Peru Congress
  23 – 24 May 2018, Lima, Peru

- BICSI CALA District Conference & Exhibition
  28 September 2018, Bangalore, India

- BICSI Fall Conference & Exhibition
  09 – 13 September 2018, San Antonio, Texas, USA

- BICSI CALA District Conference & Exhibition
  08 November 2018, Statesboro, GA, USA

www.bicsi.org/conferences
<table>
<thead>
<tr>
<th>Typical BICSI Audience Includes</th>
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<tbody>
<tr>
<td>✓ Architects and Consultants</td>
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<tr>
<td>✓ Audiovisual (AV) Professionals</td>
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<tr>
<td>✓ Authorities Having Jurisdiction (AHJs)</td>
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<tr>
<td>✓ BICSI Credential Holders</td>
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<tr>
<td>✓ Broadband Service Providers</td>
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<tr>
<td>✓ Cabling Installers and Technicians</td>
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<tr>
<td>✓ Civil Engineers</td>
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<tr>
<td>✓ Communications Managers—Corporate and Government</td>
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<tr>
<td>✓ Communications Resellers and VARs</td>
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<tr>
<td>✓ Construction Managers (CMs)</td>
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<td>✓ Data Center Designers and Engineers</td>
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<tr>
<td>✓ Electronic Safety and Security Professionals</td>
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<tr>
<td>✓ End Users</td>
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<tr>
<td>✓ Facility Owners and Managers</td>
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<tr>
<td>✓ General Contractors</td>
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<tr>
<td>✓ ITS Contractors</td>
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<tr>
<td>✓ ITS Design Consultants</td>
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<tr>
<td>✓ Management Professionals</td>
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<tr>
<td>✓ Marketers</td>
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<tr>
<td>✓ Military Personnel</td>
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<tr>
<td>✓ Network Designers and Administrators</td>
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<tr>
<td>✓ Outside Plant (OSP) Engineers</td>
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<tr>
<td>✓ Project Managers—Government, Military, Civilian and Corporate</td>
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<td>✓ Quality Controllers</td>
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<td>✓ Sales Engineers and Professionals</td>
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<td>✓ Wireless/Digital Professionals</td>
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Key Takeaways

✓ BICSI Offers Comprehensive ICT Professional Development

✓ Improve Quality of ICT Systems Deployed Worldwide via, Education, Credentialing & Standards Development

✓ World Renowned Global Association
Stay informed on BICSI through Social Media

- www.facebook.com/bicsi
- www.linkedin.com
- www.youtube.com/bicsi2008
- www.twitter.com/bicsi
Thank You!

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BICSI Southeast ASIA – Chair
Managing Director – EMS Wiring Systems Pte., Ltd.

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