



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 - Building Industry Consulting Service International, Inc.

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





Southeast Asia (SEA)

Southeast Asia District Chair

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Ralf Yeo

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Bicsi[®]
SOUTHEAST ASIA

www.bicsi.org/sea

Bicsi



BICSI Products & Services



Registered Communications Distribution Designer



www.bicsi.org/rcdd





Registered Communications Distribution Designer

UFC-3-580-01
22 June 2007

UFC-3-580-01
22 June 2007

UNIFIED FACILITIES CRITERIA (UFC)

TELECOMMUNICATIONS
BUILDING CABLING SYSTEMS
PLANNING AND DESIGN



APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

CHAPTER 2 BUILDING TELECOMMUNICATIONS CABLING SYSTEM SPECIFICATIONS

The BCS is designed to satisfy Army Installation Information Infrastructure Architecture (I3A) 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

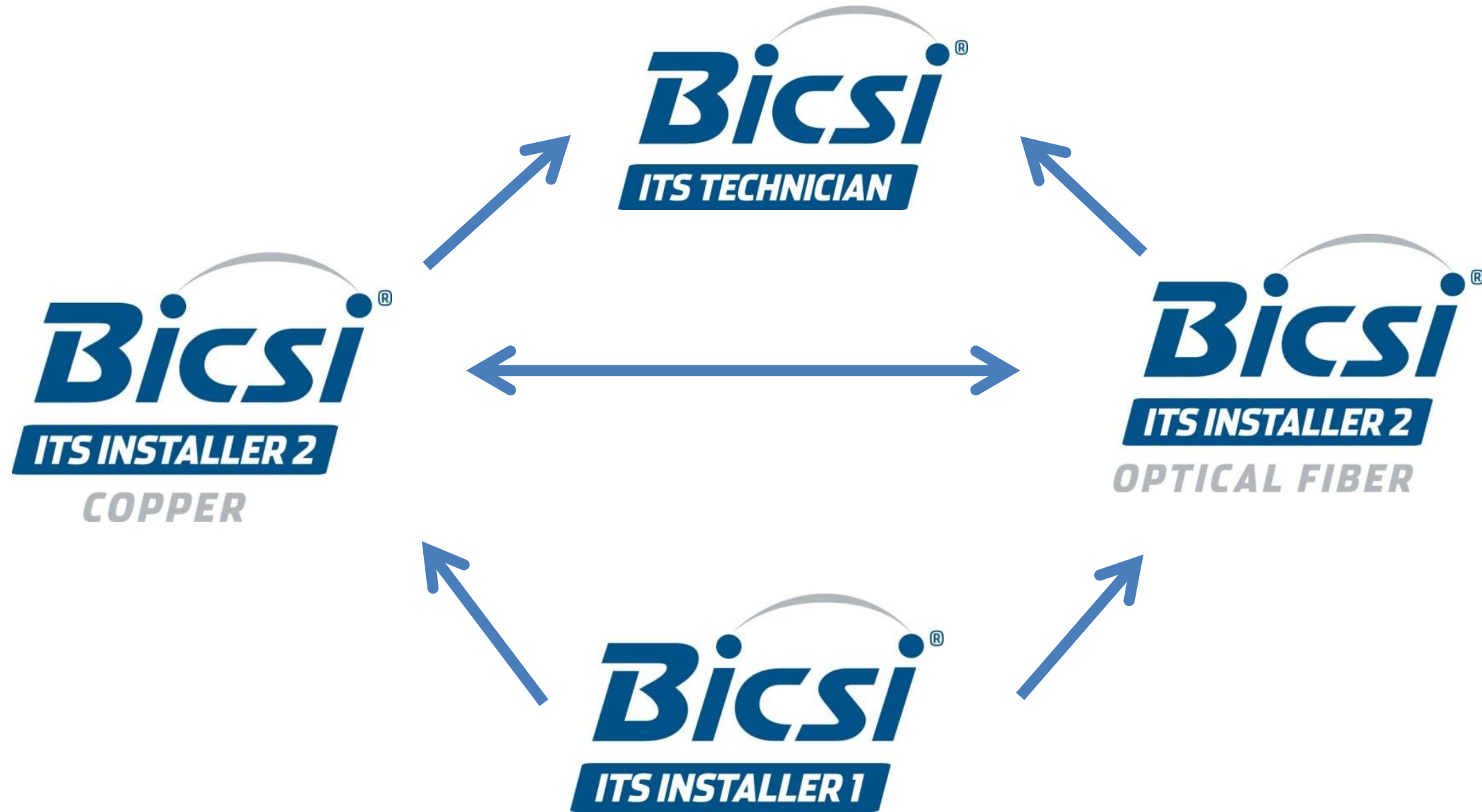


www.bicsi.org/credentialing





BICSI Installation Program



www.bicsi.org/installation





BICSI ICT Training

BICSI CONNECT

Web-based training

BICSI Webinars

Instructor-led courses online

On-Site Classes

BICSI 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/training

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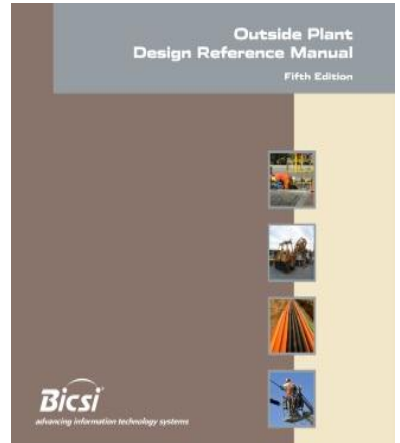
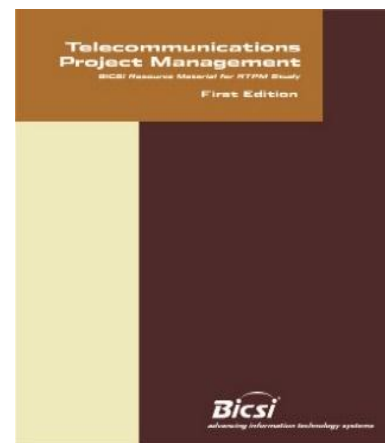
Electronic Credentialing Exams

- 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)

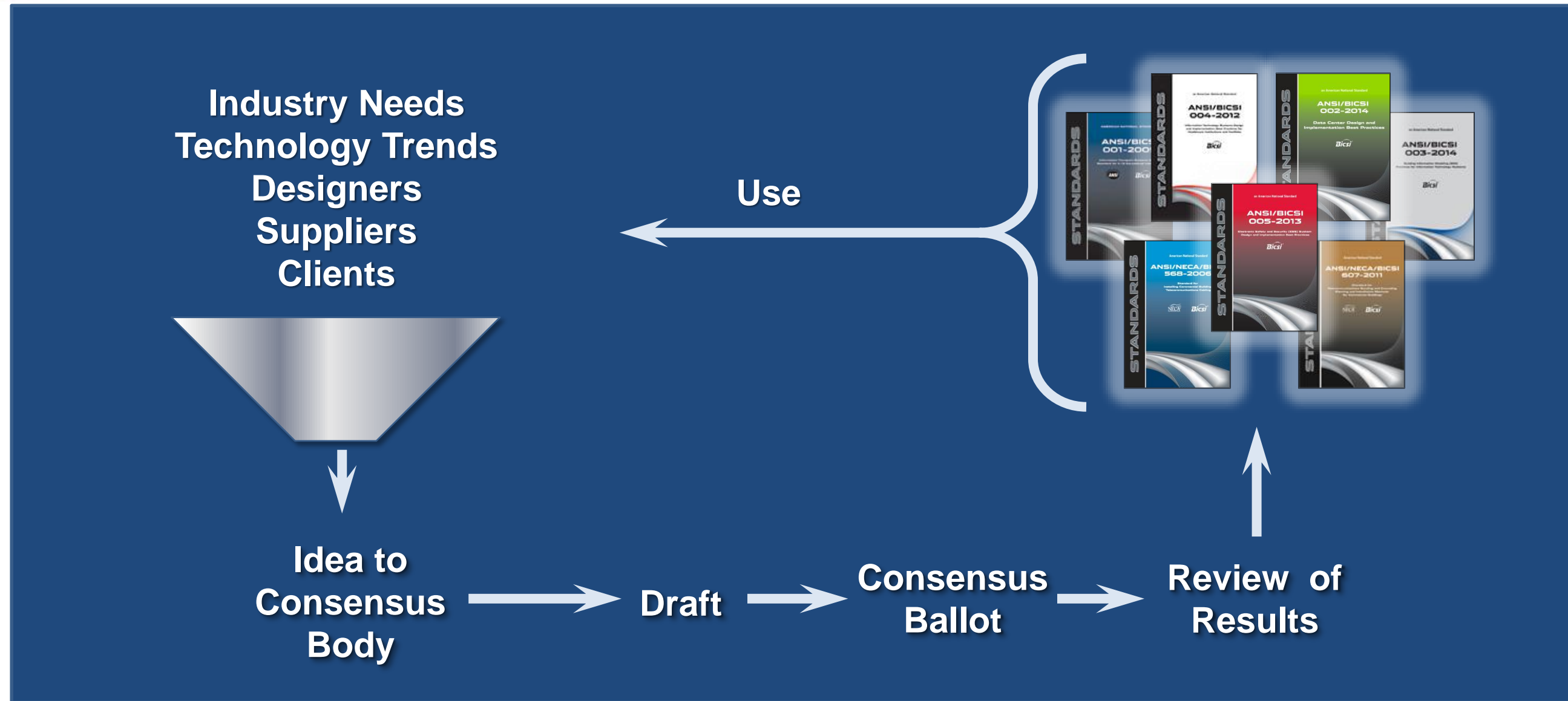
Ensures open and impartial processes

Doesn't develop standards!





Standards Development Cycle





BICSI Standards Within ICT

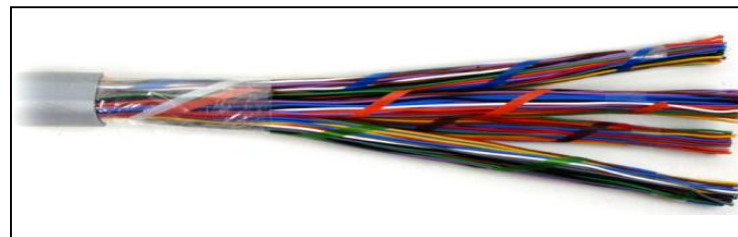
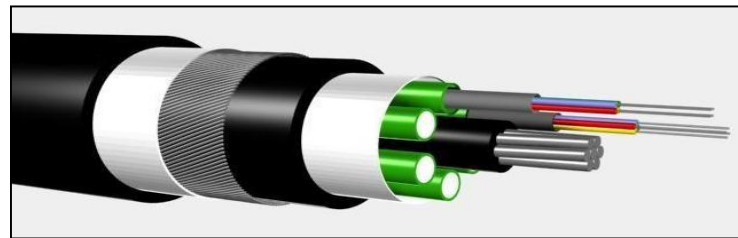
IEEE

Defines the message and transmission characteristics

7	Application
6	Presentation
5	Session
4	Transport
3	Network
2	Data Link
1	Physical

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)



Current Activities

New Standards:

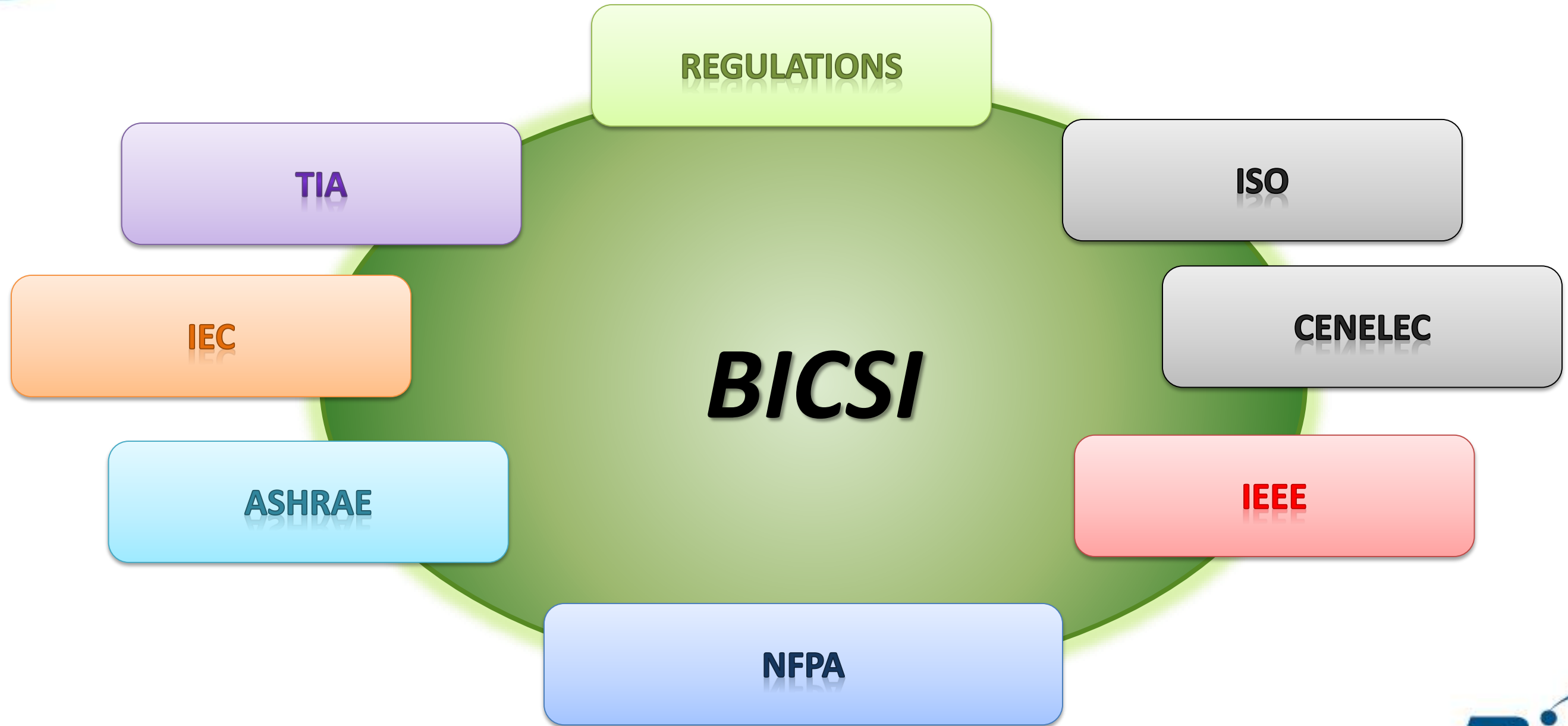
- **Data Center Operations**
- **ICT Systems for Intelligent Buildings**
- **OSP Installation and Construction**
 - **General Principles**
 - **Aerial Pathway**

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**



Standards





Inter-Operability

BICSI

**Standards, Design Manuals
and Best Practices**

Government Regulations

Electrical Code

Building Codes

Fire Code

Electrical Standards

Cabling Standards

Cabling Pathways and Spaces

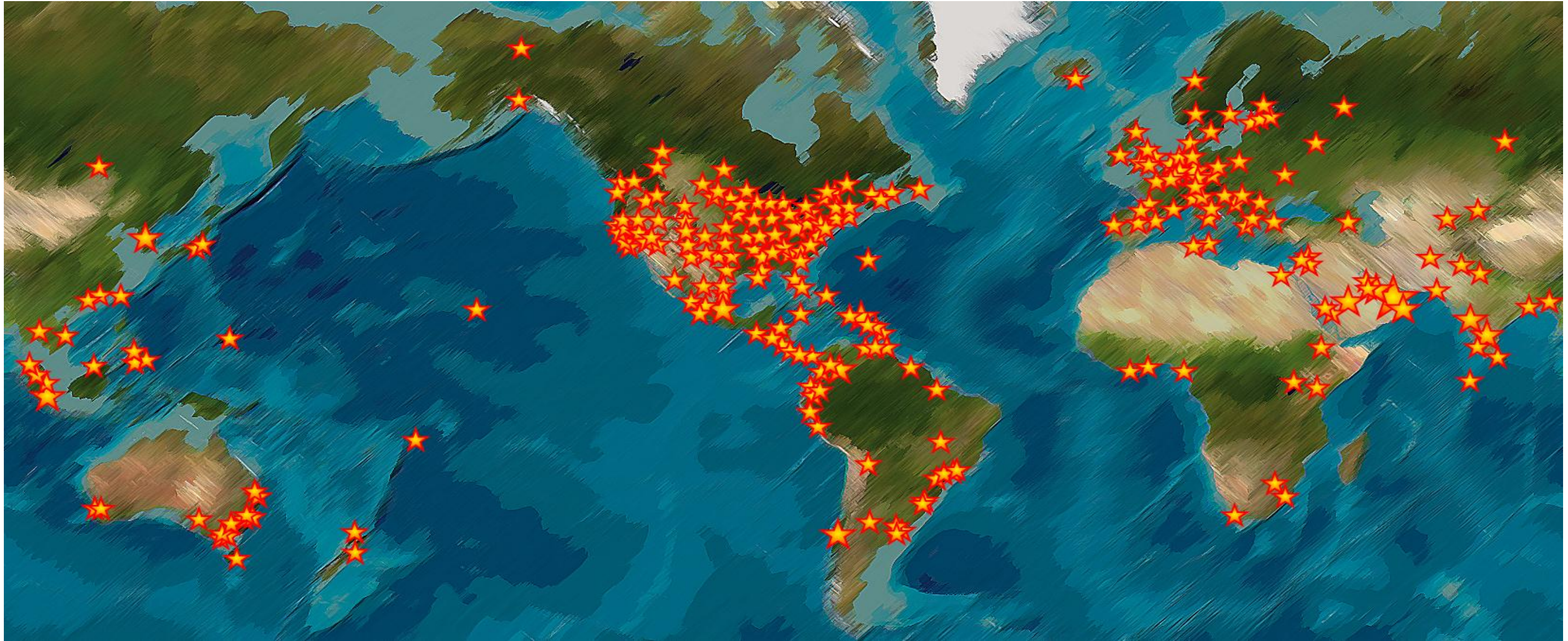
Environmental Conditions

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



BICSI Global 2017 - 2018 Conferences & Exhibitions

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





A Typical BICSI Audience Includes:

- ✓ Architects and Consultants
- ✓ Audiovisual (AV) Professionals
- ✓ Authorities Having Jurisdiction (AHJs)
- ✓ BICSI Credential Holders
- ✓ Broadband Service Providers
- ✓ Cabling Installers and Technicians
- ✓ Civil Engineers
- ✓ Communications Managers—
Corporate and Government
- ✓ Communications Resellers and VARs
- ✓ Construction Managers (CMs)
- ✓ Data Center Designers and
Engineers
- ✓ Electronic Safety and Security
Professionals
- ✓ End Users
- ✓ Facility Owners and Managers
- ✓ General Contractors
- ✓ ITS Contractors
- ✓ ITS Design Consultants
- ✓ Management Professionals
- ✓ Marketers
- ✓ Military Personnel
- ✓ Network Designers and Administrators
- ✓ Outside Plant (OSP) Engineers
- ✓ Project Managers—Government,
Military, Civilian and Corporate
- ✓ Quality Controllers
- ✓ Sales Engineers and Professionals
- ✓ Wireless/Digital Professionals



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

facebook.

www.facebook.com/bicsi

Linked in

www.linkedin.com

You Tube

www.youtube.com/bicsi2008

twitter

www.twitter.com/bicsi





Thank You!

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BICSI Southeast ASIA – Chair

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