



# The **Telecommunications Industry Association (TIA)**

**ADVANCING GLOBAL COMMUNICATIONS**

## **GSC M2M Standardization Task Force (GSC MSTF)**

*Update: Current Discussions and Plans*

ITU JCA-IoT Special Session – August 22-23, 2011, ITU Headquarters, Geneva, Switzerland

Jeffrey O. Smith, Ph.D.

Chief Technology Officer of Numerex

Chair of TIA TR-50 on Smart Device Communications

Convener of the GSC M2M Standardization Task Force (GSC MSTF)

[JSmith@numerex.com](mailto:JSmith@numerex.com)

## Lack of or Insufficient Cooperation in M2M Standardization Is Risky



**The Fall of the Tower of Babel**, Engraving by Cornelis Anthonisz (circa. 1505–1553)  
Bibliothèque royale de Belgique Brussels, Belgium, 1547

# What is Global Standards Collaboration (GSC)?



<http://www.itu.int/en/ITU-T/gsc/Pages/default.aspx>

- The goal of GSC is to promote innovation and collaboration in the area of global telecommunication and radiocommunication standards development between the world's leading telecommunications and radio standards organizations.
- Some hundred participants from Participating Standards Organizations (PSOs) and the International Telecommunication Union (ITU) meet approximately once a year, along with observers from additional groups. ITU is the repository of GSC documents from past meetings ([www.itu.int/ITU-T/gsc/meetings.html](http://www.itu.int/ITU-T/gsc/meetings.html)).
- GSC was born in 1990 in Fredericksburg, Virginia, U.S.A. at the Inter-regional Telecommunications Standards Conference (ITSC). Most recent GSC meeting (GSC-15) was in Beijing, China (8/30 – 9/2010).

# Global Standards Collaboration (GSC) Members



ICT Standards Advisory Council of Canada (ISACC)



European Telecommunications Standards Institute (ETSI)

Telecommunications Technology Association (TTA) of Korea



Alliance for Telecommunications Industry Solutions (ATIS)

Sponsored by:



Telecommunications Industry Association (TIA)



中国通信标准化协会  
China Communications Standards Association

China Communications Standards Association (CCSA) of China



Association of Radio Industries and Businesses (ARIB) of Japan



Telecommunications Technology Committee (TTC) of Japan



ITU Telecommunication Standardization Sector (ITU-T)  
ITU Radiocommunication Sector (ITU-R)



# GSC MSTF Purpose

*Created at GSC-15, in Beijing, China, Sept. 2, 2010 – Resolution GSC-15/30*

## **Considered:**

- a) That standards are most conducive to economies of scale if they are compatible worldwide.
- b) That many organizations around the world, including PSOs, are working on M2M standardization; thereby increasing the possibility of redundant or conflicting standards.
- c) That global coordination and collaboration will reduce the risk of standards duplication and will increase standardization effectiveness.
- d) That coherent global standards should be developed whenever feasible.
- e) That M2M introduces new components that are distinct from user communications and need to be made coherent with the work of existing communication networks including NGN.
- f) That GSC's mission is to reduce duplication, foster synergy, and encourage coherence

## **Resolved:**

1. To facilitate global coordination and harmonization.
2. To openly share relevant M2M material through liaisons, meeting invitations, etc.
3. To outline the worldwide M2M activity map and make recommendations on current and future activities
4. To encourage broad participation in the MSTF by GSC members and beyond
5. MSTF to report on its activities and recommendations to GSC-16 (to be held at the end of October 2011 in Halifax, Canada, and hosted by the ICT Standards Advisory Council of Canada - ISACC).
6. That Jeff Smith ([jsmith@numerex.com](mailto:jsmith@numerex.com)) will be the convenor of MSTF until GSC-16



## What The GSC MSTF Is About...

*“The GSC MSTF aims at strengthening the work of international bodies focusing on M2M standards by providing very valuable information from an eclectic range of sources and offering a venue where ideas on M2M can be debated and exchanged outside a formal standardization process framework.”*

Cheryl Blum, TIA Vice President of Technology and Business Development and Head of the TIA delegation at GSC-16

<http://m2mworldnews.com/2011/06/28/58762-the-rise-of-m2m-means-standards-are-critical-by-jeffrey-o-smith/>



**First GSC MSTF meeting was held on  
May 18<sup>th</sup> 2011  
(only open to SDOs and similar group  
delegations)  
during TIA 2011 in Dallas, TX**



A task force of the  
**Global Standards  
Collaboration (GSC)**



Presentations can be found here: [http://www.tiaonline.org/standards/mstf/past\\_events.cfm](http://www.tiaonline.org/standards/mstf/past_events.cfm)



**Global Standards  
Collaboration (GSC) Machine-  
to-Machine Standardization  
Task Force (MSTF) Meeting  
May 18, 2011, Dallas, TX,  
U.S.A.**

*At:*

Gaylord Texan Hotel  
& Convention Center  
1501 Gaylord Trail,  
Grapevine, Texas  
76051  
U.S.A.

*During:*



[www.tia2011.org](http://www.tia2011.org)

## MORNING BRIEFINGS

8:00 a.m. – 8:05 a.m.	Welcome Grant Seiffert, President, Telecommunications Industry Association (TIA)
8:05 a.m. – 8:15 a.m.	GSC MSTF Meeting Objectives Jeff Smith, Numerex CTO, Chair of TIA TR-50, Convener of the GSC MSTF
8:15 a.m. – 8:30 a.m.	Introduction to International Telecommunication Union (ITU) Telecommunication Standardization Sector (ITU-T) Arthur Webster, Chairman ITU-T, Study Group (SG) 9
8:30 a.m. – 8:45 a.m.	Introduction to Global Standards Collaboration (GSC) Jim MacFie, Chairman, ICT Standards Advisory Council of Canada (ISACC)
8:45 a.m. – 9:00 a.m.	General Trends and Critical Issues in M2M Standardization Eric Barnhart, Division Chief, Georgia Tech Research Institute (GTRI)
9:00 a.m. – 9:20 a.m.	Telecommunications Technology Association (TTA, Korea) Daejung Kim, Director of Radio and Broadcasting Team, Standardization Department, TTA
9:20 a.m. – 9:30 a.m.	Q&A
9:30 a.m. – 9:50 a.m.	Joint Coordination Activity (JCA) of the Internet of Things (IoT) of the International Telecommunication Union's ITU-T Hyoung-Jun Kim, Convener of JCA IoT
9:50 a.m. – 10:00 a.m.	Q&A
<b>10:00 a.m. – 10:30 a.m.</b>	<b>COFFEE BREAK</b>
10:30 a.m. – 10:50 a.m.	Telecommunication Technology Committee (TTC, Japan) Fumihiko Tomika, Director General, Inter-Industry Innovation Center (I3C), TTC
10:50 a.m. – 11:00 a.m.	Q&A
11:00 a.m. – 11:20 a.m.	Wavenis Open Standard Alliance Catherine Hammond, Director of Standards, Orange Labs, Wavenis Sponsor
11:20 a.m. – 11:30 p.m.	Q&A
11:30 a.m. – 11:50 a.m.	OCARI (Optimization of Communication for Ad hoc Reliable Industrial Network) Eric Perrier de la Bâthie, Électricité de France
11:50 a.m. – 12:00 p.m.	Q&A
<b>12:00 p.m. – 1:00 p.m.</b>	<b>LUNCH</b>



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## AFTERNOON BRIEFINGS

1:00 p.m. – 1:20 p.m.

TIA (USA)

Peter Nurse, Principal, Sigma Delta, Chair of TIA TR-50.1

1:20 p.m. – 1:30 p.m.

Q&A

1:30 p.m. – 1:50 p.m.

Alliance for Telecommunications Industry Solutions (ATIS, USA)

Harish Viswanathan, Director, CTO Advisory Group, Alcatel-Lucent

1:50 p.m. – 2:00 p.m.

Q&A

2:00 p.m. – 2:10 p.m.

National Institute of Standards and Technology (NIST) (USA)

David Su, Chief, Advanced Network Technologies Division, NIST

2:10 p.m. – 2:20 p.m.

Q&A

2:20 p.m. – 2:40 p.m.

Open Mobile Alliance (OMA)

Gary Jones, Treasurer and Board Officer of OMA

2:40 p.m. – 2:50 p.m.

Q&A

**2:50 p.m. – 3:10 p.m.**

### COFFEE BREAK

3:10 p.m. – 3:30 p.m.

European Telecommunications Standards Institute (ETSI, Europe)

Joachim Koss, Cinterion, ETSI Board of Directors and Vice-Chair TC M2

3:30 p.m. – 3:40 p.m.

Q&A

3:40 p.m. – 4:00 p.m.

Global ICT Standardization Forum for *India (GISFI)*

Asok Chatterjee, Governing Body of GISFI

4:00 p.m. – 4:10 p.m.

Q&A

4:10 p.m. – 4:30 p.m.

China Communications Standards Association (CCSA)

Duo Liu, Deputy Secretary of CCSA and Mitch Tseng, Huawei, Vice-Chair of TIA-TR50.1

4:30 p.m. – 4:40 p.m.

Q&A

4:40 p.m. – 5:00 p.m.

Jeff Smith, wrap-up and next steps

*(If time permits)*

*Third Generation Partnership Project 2 (3GPP2)*

*Cheryl Blum, TIA Vice President, Chair of 3GPP2 Steering Committee*



# First GSC MSTF Meeting Main Conclusions

- Extensive work in M2M being undertaken in many SDOs and other forums
- Scope of work very similar among many organizations, i.e., developing specifications to address M2M from a horizontal perspective and supporting the various vertical applications
- Need strong relationship and cooperative liaisons among organizations to reduce duplication and avoid fragmentation of standards
- Focus of GSC MSTF is to **facilitate** cooperation and information exchange among traditional SDOs and **beyond**
- Need to have another meeting before GSC-16 (Halifax, Canada, Oct-Nov. 2011) focused on obtaining input from M2M verticals and drawing GSC MSTF activity map (in accordance with resolution creating GSC MSTF)

# GSC MSTF Next Meets in Atlanta, GA, USA

## September 20-21, 2011



[www.tiaonline.org/standards/mstf/upcoming.cfm](http://www.tiaonline.org/standards/mstf/upcoming.cfm)



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M2M Conference:  
M2M Standards as Growth Enablers

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hosted by  organized by 

at the Georgia Tech  
Research Institute

- The meeting, **open to the public**, which is hosted by TIA, is broken down in two parts:
- The first day takes the form of a **conference** at the Georgia Tech Research Institute (GTRI) auditorium where experts from a wide range of industries will present their views on the impact of M2M standards on their vertical markets.
- The second day will feature a **roundtable** at the Georgia Tech Technology Square Research building focused on summarizing the findings of the GSC MSTF meetings, and drafting suggestions and recommendations regarding the direction of global M2M standardization.

[Full Preliminary Agenda](#)



## SEPTEMBER 20TH CONFERENCE PROGRAM



A task force of the  
**Global Standards  
Collaboration (GSC)**

8:30 a.m. – 9:00 a.m. Introduction/Welcome/GSC-MSTF Meeting Objectives **Speakers:** [Grant Seiffert \(TIA\)](#), [Dr. Robert T. McGrath \(GTRI\)](#), [Dr. Jeffrey O. Smith \(Numerex\)](#)

9:00 a.m. – 10:00 a.m. Healthcare **Moderator:** [Dr. Daniel C. Russler \(Oracle\)](#), **Panelists:** [Anthony Delli Colli \(Elbrys Networks\)](#), [Rob Aaron \(Microsoft\)](#)

10:30 a.m. – 11:30 a.m. Transportation/Logistics/Supply Chain **Moderator:** [Dr. Steve Dickerson \(Georgia Tech\)](#), **Panelists:** [Steven Bayless \(ITSA\)](#), [Chuck Holland \(UPS\)](#)

11:35 a.m. – 12:35 p.m. Residential & Commercial Security/Alarm Monitoring/Home Automation **Moderator:** [Ronald J. Zimmer \(CABA\)](#), **Panelists:** [Gabriel P. Ubirajara \(Neocontrol Solutions\)](#), [Shelley Moister \(Landis+Gyr\)](#)

1:45 p.m. – 2:45 p.m. Payments (ATM/POS/Vending/Ticketing/other Financials) **Moderator:** [Cynthia Merritt \(Federal Reserve Bank of Atlanta\)](#), **Panelists:** [A. Lyle Elias \(International Payments Forum\)](#), [David M. DeMedio \(USA Technologies\)](#)

3:00 pm – 4:00 p.m. Manufacturing (Supervisory Control and Data Acquisition (SCADA)/Distributed Control Systems (DCS)/ Industrial Processes) **Moderator:** [Alexander McMillan \(Rockwell Automation\)](#), **Panelists:** [Wayne Manges \(Oak Ridge National Laboratory\)](#), [Eric Rotvold \(Emerson\)](#)

4:15 pm – 5:15 p.m. Energy/Smart Grid **Moderator:** [Erich Gunther \(EnerNex Corporation\)](#), **Panelists:** [Ken Caird \(GE Energy\)](#), [Dr. Thierry Lestable \(SAGEMCOM\)](#)



## SEPTEMBER 21st ROUNDTABLE PROGRAM



A task force of the  
**Global Standards  
Collaboration (GSC)**

The roundtable includes panelists from the International Telecommunication Union (ITU), the US Telecommunications Industry Association (TIA), the European Telecommunications Standards Institute (ETSI), the Open Mobile Alliance (OMA), the Zigbee Alliance, the Continua Health Alliance, the 3rd Generation Partnership Project 2 (3GPP2), and a moderator from the Georgia Tech Research Institute.

The panelists will briefly share their organization's M2M-related standard work and offer comments and ideas on the direction of M2M standardization and the role of the Global Standards Collaboration M2M Standardization Task Force (GSC MSTF).

Participation from the audience will be encouraged. The discussions will provide the basis for an activity map that will be submitted at GSC-16 in Halifax, Nova Scotia, Canada, in early November 2011.

**Moderator:** [Dr. Ronald A. Bohlander \(GTRI\)](#),

**Panelists:** [Joachim Koss \(Cinterion\)](#) , [Ileana Leuca \(AT&T\)](#) , [Marco Carugi \(ZTE\)](#) , [Anthony Delli Colli \(Elbrys Networks\)](#) , [Dr. Jeffrey O. Smith \(Numerex\)](#) , [Shelley Moister \(Landis+Gyr\)](#) , [Cheryl Blum \(TIA\)](#)



# Examples of M2M Standards-related Groups Represented at the Atlanta Meeting

International Telecommunication Union (ITU)  
European Telecommunications Standards Institute (ETSI)  
Open Mobile Alliance (OMA)  
Continua Health Alliance  
Zigbee Alliance  
International Payments Forum/ATM International Association  
Health Information and Management Systems Society (HIMSS)  
GridWise Architecture Council  
IEEE Power & Energy Society Intelligent Grid Coordinating Committee  
Continental Automated Buildings Association  
Brazilian Home Automation Association (Aureside)  
Intelligent Transportation Society of America  
International Electrotechnical Commission (IEC) Standards Management Board (SMB)  
American National Standards Institute (ANSI) Board  
WirelessHART  
International Society of Automation



# Info About Atlanta GSC MSTF Meeting

## **Telecommunications Industry Association (TIA)**

*TIA will host second international M2M Standardization meeting September 20-21 in Atlanta*

[http://www.tiaonline.org/news\\_events/press\\_room/press\\_releases/2011/PR-69\\_TIA\\_Will\\_Host\\_Second\\_International\\_M2M\\_Standardiza.cfm](http://www.tiaonline.org/news_events/press_room/press_releases/2011/PR-69_TIA_Will_Host_Second_International_M2M_Standardiza.cfm)

## **M2M World News (Europe)**

*The rise of M2M means standards are critical*

<http://m2mworldnews.com/2011/06/28/58762-the-rise-of-m2m-means-standards-are-critical-by-jeffrey-o-smith/>

## **TMCNet.com**

*M2M Standards: How many and how soon?*

<http://m2m.tmcnet.com/topics/m2mevolution/articles/191498-m2m-standards-how-many-how-soon.htm>

## **Georgia Institute of Technology**

*GTRI Assisting with M2M standards conference*

<http://www.gtri.gatech.edu/news/gtri-assisting-m2m-standards-conference>

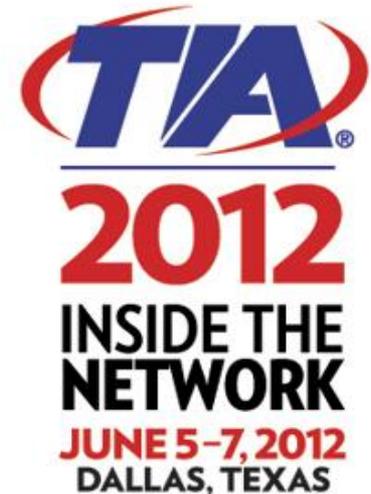


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[www.tianow.org](http://www.tianow.org)

# THANK YOU!



[www.tia2012.org](http://www.tia2012.org)

**Jeffrey O. Smith, Ph.D.**

Chief Technology Officer of Numerex

Chair of TIA TR-50 on Smart Device Communications

Convener of the GSC M2M Standardization Task Force (GSC MSTF)

[\(JSmith@numerex.com\)](mailto:JSmith@numerex.com)