

GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
GSC MEMBERS				
ITU-T	International Telecommunication Union Telecommunication Standardization Sector (Geneva, Switzerland)	IoT-GSI - Presented at GSC MSTF meeting in Dallas, May 2011 and the GSC MSTF meeting in Atlanta, September 2011	The Global Standards Initiative on Internet of Things (IoT-GSI) promotes a unified approach in ITU-T for development of technical standards (Recommendations) enabling the Internet of Things on a global scale. ITU-T Recommendations developed under the IoT-GSI by the various ITU-T Questions - in collaboration with other standards developing organizations (SDOs) – will enable worldwide service providers to offer the wide range of services expected by this technology. IoT-GSI also aims to act as an umbrella for IoT standards development worldwide.	http://www.itu.int/en/ITU-T/gsi/iot/Pages/default.aspx
ARIB	Association of Radio Industries and Businesses (Japan)	M2M Monitoring/No M2M Specific Focus	The Association of Radio Industries and Businesses (ARIB) was established in response to several trends such as the growing internationalization of telecommunications, the convergence of telecommunications and broadcasting, and the need for promotion of radio-related industries. ARIB's goal is to advance rapidly the use of radio technology for the benefit of society. This is done by integrating knowledge and experience in various fields of radio use such as broadcasting and telecommunications, research and development in radio technology, and serving as a standards development organization for radio technology.	http://www.arib.or.jp/english/
ATIS	Alliance for Telecommunications Industry Solutions (USA)	M2M Focus Group - Presented at GSC MSTF meeting in Dallas, May 2011	The initial work of the M2M-FG will assess standards issues in the areas of: carrier portability for devices without need to swap out SIMs and for embedded SIM devices; inter-service platform communication if needed; provisioning, activation and billing; the abstraction layer; and the service delivery platform. The Group's work also will include the development of partner/relationship maps with other non-ATIS vendors and standards development organizations.	http://www.atis.org/PRESS/pressreleases2011/081111.html
CCSA	China Communication Standardization Association	Ubiquitous Network Technical Committee (TC10) - Represented at GSC MSTF meeting in Dallas, May 2011.	China Communications Standards Association (hereafter referred to as CCSA) is a non-profit legal person organization established by enterprises and institutes in China for carrying out standardization activities in the field of Information and Communications Technology (ICT) across China. CCSA is organized with the approval of MI and registration in the Ministry of Civil Affairs. China Communications Standards Association (hereafter referred to as CCSA) is a non-profit legal person organization established by enterprises and institutes in China for carrying out standardization activities in the field of Information and Communications Technology (ICT) across China. CCSA is organized with the approval of MI and registration in the Ministry of Civil Affairs.	www.ccsa.org.cn/english/
ETSI	European Telecommunications Standards Institute (Sophia Antipolis, France)	Technical Committee on M2M - Presented at GSC MSTF meeting in Dallas, May 2011 and the GSC MSTF meeting in Atlanta, September 2011	A new ETSI Technical Committee is developing standards for Machine to Machine Communications. The group aims to provide an end-to-end view of Machine to Machine standardization, and will co-operate closely with ETSI's activities on Next Generation Networks, and also with the work of the 3GPP standards initiative for mobile communication technologies.	http://www.etsi.org/Website/Technologies/M2M.aspx
ISACC	ICT Standards Advisory Council of Canada (ISACC)	M2M Monitoring/No M2M Specific Focus - Presented at GSC MSTF meeting in Dallas, May 2011	The ICT Standards Advisory Council of Canada (ISACC) is a partnership between industry and government formed in 1991 by the Standards Council of Canada (SCC), Industry Canada (IC) and the Information Technology Association of Canada (ITAC). ISACC recommends strategies for domestic and international Information and Communication Technology (ICT) standards development, implementation and promotion, which will meet the needs of Canadian users, industry and government.	http://www.isacc.ca/isacc/english/
TIA	Telecommunications Industry Association (TIA)	TR-50 Smart Device Communications Engineering Committee - Presented at GSC MSTF meeting in Dallas, May 2011 and the GSC MSTF meeting in Atlanta, September 2011	TR-50 will develop a Smart Device Communications framework that can operate over different underlying transport networks (wireless, wired, etc.) and can be adapted to a given transport network by means of an adaptation/convergence layer. The TR-50 framework will make its functionality available to applications through a well-defined Application Programming Interface (API) that is agnostic to the vertical application domain (eHealth, Smart Grid, Industrial Automation, etc.)	http://www.tiaonline.org/standards/committees/committee.cfm?comm=tr-50
TTA	Telcommunications Technology Association (Korea)	M2M two-year plan - Presented at GSC MSTF meeting in Dallas, May 2011	The purpose of TTA is to contribute to the advancement of technology and the promotion of information and telecommunications services and industry as well as the development of national economy, by effectively establishing and providing technical standards that reflect the latest domestic and international technological advances, needed for the planning, design and operation of global end-to-end telecommunications and related information services, in close collaboration with companies, organizations and groups concerned with information and telecommunications such as network operators, service providers, equipment manufacturers, academia, R&D institutes, etc.	http://www.tta.or.kr/English/
TTC	Telecommunication Technology Committee (Japan)	Through the Inter-Industry Innovation Center (i3C) - Presented at GSC MSTF meeting in Dallas, May 2011	The purpose of this committee is to contribute to standardization in the field of telecommunications by establishing protocols and standards for telecommunications networks and terminal equipment, etc as well as to disseminate those standards. Advisory Groups related to M2M: Network Middleware Advisory Group; Interoperability Advisory Group; Smart Grid Advisory Group; and Smart Car Advisory Group	http://www.ttc.or.jp/e/
GSC OBSERVERS				

GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
4G Americas	Bellevue, WA, USA		About 4G Americas: Unifying the Americas through Mobile Broadband Technology 4G Americas is an industry trade organization composed of leading telecommunications service providers and manufacturers. The organization's mission is to promote, facilitate and advocate for the deployment and adoption of the 3GPP family of technologies throughout the Americas. 4G Americas contributes to the successful commercial rollout of 3GPP mobile broadband technologies across the Americas and their place as the No. 1 technology family in the region. The organization aims to develop the expansive wireless ecosystem of networks, devices, and applications enabled by GSM and its evolution to LTE. 4G Americas is headquartered in Bellevue, Wash., with an office for Latin America and the Caribbean in Dallas. More information is available at www.4gamericas.org . 4G Americas' Board of Governors members include: Alcatel-Lucent, América Móvil, AT&T, Cable & Wireless, CommScope, Ericsson, Gemalto, HP, Huawei, Nokia Siemens Networks, Openwave, Powerwave, Qualcomm, Research In Motion (RIM), Rogers, T-Mobile USA and Telefónica. See October 12, 2011 press release on connected devices (M2M): http://www.4gamericas.org/index.cfm?fuseaction=pressreleasedisplay&pressreleaseid=3318	www.4gamericas.org/
AICTO	The Arab Information and Communication Technologies Organization, Tunis, Tunisia		The Arab ICT Organization (AICTO), is an Arab governmental organization working under the aegis of the League of Arab States. AICTO creation resulted from the will of the Arab States which agreed to have its headquarters in the city of Tunis, the capital of the Republic of Tunisia, with the possibility of having branches in Arab countries. The AICTO aims at : Developing ICTs and providing the necessary mechanisms to reinforce cooperation and complementarity between AICTO members, Promoting and enriching common strategies and policies for ICT development within the Arab region, Unifying and coordinating arab positions serving their own strategic interest within international organizations, Identifying the Arab needs and skills in the field of ICTs and providing the adequate environment propitious for making partnership relations and fruitful Arab cooperation in the field, Encouraging Arab and foreign ICT investment in the Arab region with further identification of investment opportunities, incentives and available encouragements and facilities in the field, Coordinating the regulators' efforts so as to serve the Arab region needs and provide the necessary arab referencement in the field, Reinforcing the private sector role through encouraging the participation of national communities and structures representing the private sector in all AICTO activities Providing the adequate environment to prepare, upgrade and attract arab ICT skills and experts taking advantage from initiatives and advanced experiences in matter of ICT deployment, Preparing Arab Societies to the ICT requirements, and Taking advantage of ICT international experiences.	www.aicto.org
CDG	CDMA Development Group, Costa Mesa, CA, USA	CDG's M2M SIG	The M2M SIG brings the industry together to create exposure, expand availability and grow the market share of CDMA2000 (3G) and LTE (4G) smart devices to enable vertical sectors deploying M2M services. CDG's M2M SIG is for CDG Members to: Advocate CDMA as the premier technology choice for the M2M market; Network with potential suppliers and customers; Address ecosystem issues related to fragmentation, roaming, numbering, security of the existing M2M market; Reduce the complexity of M2M application and service layer deployments; and Develop input to regulatory proceedings globally to support M2M.	http://www.cdg.org/devices/m2m.asp
GISFI	Global ICT Standardization Forum for India	M2M Monitoring/No Specific Focus - Presented at GSC MSTF meeting in Dallas, May 2011	The Global ICT Standardization Forum for India (GISFI) is an Indian standardization body active in the area of Information and Communication Technologies (ICT) and related application areas, such as energy, telemedicine, wireless robotics, biotechnology.	www.gisfi.org
GSMA	GSM Association, London, UK	Attended GSC MSTF meeting in Atlanta, September 2011	The GSMA represents the interests of mobile operators worldwide. Spanning more than 220 countries, the GSMA unites nearly 800 of the world's mobile operators, as well as more than 200 companies in the broader mobile ecosystem, including handset makers, software companies, equipment providers, Internet companies, and media and entertainment organisations. The GSMA also produces industry-leading events such as the Mobile World Congress and Mobile Asia Congress. See October 10, 2011 communication on connected devices: http://www.gsm.org/newsroom/press-releases/2011/6491.htm	www.gsm.org
IEC	International Electrotechnical Commission, Geneva, Switzerland		Founded in 1906, the IEC (International Electrotechnical Commission) is the world's leading organization for the preparation and publication of International Standards for all electrical, electronic and related technologies. These are known collectively as "electrotechnology". IEC provides a platform to companies, industries and governments for meeting, discussing and developing the International Standards they require. All IEC International Standards are fully consensus-based and represent the needs of key stakeholders of every nation participating in IEC work. Every member country, no matter how large or small, has one vote and a say in what goes into an IEC International Standard.	www.iec.ch
IEEE	Institute of Electrical and Electronics Engineers	802.16 M2M Task Group. Invited for GSC MSTF in Dallas. Could not attend.	This Task Group is focused on developing an amendment to the IEEE Standard for Local and Metropolitan Area Networks - Part 16: Air Interface for Broadband Wireless Access Systems - Enhancements to Support Machine-to-Machine Applications.	http://ieee802.org/16/m2m/index.html
ISO/IEC JTC 1	ISO/IEC JTC 1 is Joint Technical Committee 1 of the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC)		JTC 1 is the standards development environment where experts come together to develop worldwide Information and Communication Technologies (ICT) standards for business and consumer applications. Additionally, JTC 1 provides the standards approval environment for integrating diverse and complex ICT technologies.	http://www.iso.org/iso/jtc1_home.html

GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
OMA	Open Mobile Alliance, San Diego, CA, USA	Peprerented at GSC MSTF meeting in Dallas, May 2011 and the GSC MSTF meeting in Atlanta, September 2011	"The mission of the Open Mobile Alliance is to facilitate global user adoption of mobile data services by specifying market driven mobile service enablers that ensure service interoperability across devices, geographies, service providers, operators, and networks while allowing businesses to compete through innovation and differentiation."	www.openmobilealliance.org
SCTE	The Society of Cable Telecommunications Engineers, Exton, PA, USA		<p>The SCTE standards program provides an ANSI-accredited forum for the development of technical specifications supporting the cable telecommunications industry. The work program includes: data and telephony over cable; application platform development; digital video; emergency alert systems; network monitoring systems; cables, connectors and amplifiers; and construction and maintenance practices.</p> <p>The SCTE Project Register contains a complete list of SCTE projects, including historical documents, and their status. It also contains a cross reference list ordered by Subcommittee number, submission schedules for ANSI, and graphs showing submissions and actions by year. Questions on the program should be submitted to standards@scte.org.</p>	http://www.scte.org/standards/Standards_Home.aspx
AUTOMOTIVE				
AEC-Q100	Automotive Electronics Council		The Automotive Electronics Council (AEC) was originally established by Chrysler, Ford, and GM for the purpose of establishing common part-qualification and quality-system standards. From its inception, the AEC has consisted of two Committees: the Quality Systems Committee and the Component Technical Committee. Today, the committees are composed of representatives from the Sustaining Members (currently Autoliv, Continental Corporation, Delphi Corporation, Johnson Controls, TRW Automotive, and Visteon Corporation) and other Technical, Associate, and Guest Members. The AEC Component Technical Committee is the standardization body for establishing standards for reliable, high quality electronic components. Components meeting these specifications are suitable for use in the harsh automotive environment without additional component-level qualification testing.	http://www.aecouncil.com/
AUTOSAR	Automotive Open System Architecture Munich - Germany		AUTOSAR (AUTomotive Open System ARchitecture) is an open and standardized automotive software architecture, jointly developed by automobile manufacturers, suppliers and tool developers. AUTOSAR paves the way for innovative electronic systems that further improve performance, safety and environmental friendliness is a strong global partnership that creates one common standard: "Cooperate on standards, compete on implementation" is a key enabling technology to manage the growing electric/electronics complexity. It aims to be prepared for the upcoming technologies and to improve cost-efficiency without making any compromise with respect to quality facilitates the exchange and update of software and hardware over the service life of the vehicle	http://www.autosar.org/
Car-2 Car Communication Consortium			The mission and the objectives of the CAR 2 CAR Communication Consortium are: the development and release of an open European standard for cooperative Intelligent Transport Systems and associated validation process with focus on Inter-Vehicle Communication Systems; to be a key contributor to the development of a European standard and associated validation process for Vehicle-2-Roadside Infrastructure Communication being interoperable with the specified inter-vehicle communication standard; to provide its specifications and contributions to the standardisation organisations including in particular ETSI TC ITS in order to achieve common European standards for ITS; to push the harmonisation of Car-2-Car Communication Standards worldwide; to promote the allocation of a royalty free European wide exclusive frequency band for Car-2-Car Applications; to develop realistic deployment strategies and business models to speed-up the market penetration; to demonstrate the Car-2-Car System as proof of technical and commercial feasibility.	www.car-2-car.org
CE4A	Consumer Electronics for Automotive		The objectives of CE4A: CE4A itself does not produce, manufacture or distribute CE devices. One task of CE4A is to publish automotive specifications for the interfaces between mobile devices and automotive ECUs. The main objective is the standardisation of those interfaces allowing the integration of new technologies into cars. The members of CE4A apply existing standards of the consumer electronics industry to automotive concerns to minimise specific interfaces. A further task of CE4A is to build a common reference platform to standardise implementations on both sides, vehicle and consumer electronics.	www.ce4a.org

**GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST
IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION**

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
ERTICO	European Road Transport Telematics Implementation Coordinating Organization		ERTICO – ITS Europe was founded at the initiative of leading members of the European Commission, Ministries of Transport and the European Industry. ERTICO is the network of Intelligent Transport Systems and Services stakeholders in Europe. We connect public authorities, industry players, infrastructure operators, users, national ITS associations and other organisations together. The ERTICO Partners and our dedicated team of highly skilled professionals work on a portfolio of activities to accelerate the development and deployment of ITS across Europe and beyond. In the past, ERTICO has played a leading role in advancing: TMC standards; an open framework for telematics services; next generations of preventive safety systems; next generation of digital maps & associated applications; the technical framework for interoperable tolling in Europe; global implementation of ITS together with ITS America and ITS Japan.	http://www.ertico.com/
Global Platform	Redwood City, CA, USA		GlobalPlatform is a cross industry, not-for-profit association which identifies, develops and publishes specifications which facilitate the secure and interoperable deployment and management of multiple embedded applications on secure chip technology. Its proven technical specifications are regarded as the international industry standard for building a trusted end-to-end solution which serves multiple actors and supports several business models. GlobalPlatform applies the term 'secure chip' in reference to embedded technologies used in various chips – such as smart cards, application processors, SD cards, USB tokens and secure elements – for protecting assets (data, keys and applications) from physical or software attacks. The freely available specifications provide the foundation for market convergence and innovative new cross-sector partnerships. The technology has been adopted globally across finance, mobile/telecom, government, healthcare, retail and transit sectors. GlobalPlatform also supports an open compliance program ecosystem to ensure the long-term interoperability of secure chip technology. As a member-driven association with cross-market representation from all world continents, GlobalPlatform membership is open to any organization operating within this landscape. Its 60+ members contribute to technical committees and market-led task forces. GlobalPlatform's strategy is defined and prioritized by a member elected Board of Directors.	http://www.globalplatform.org/
iCar Support			One of the goal of iCar Support is to monitor ITS standardisation initiatives and to support relevant efforts. This will be done through: Coordination of Standards Development Organisations (SDOs) addressing similar standardisation topics: there are today a number of SDOs looking at ITS communications. This topic is addressed in IEEE (primary focus bearer level), ISO (primary focus architecture and management level) and ETSI (primary focus frequency allocation and security). Experience shows that those SDOs are to a large extent overlapping and that there is a need to harmonise work between them. Providing a help desk on ITS standard.	http://www.icarsupport.eu/
ITSA	Intelligent Transportation Society of America	Telecom/Telematics at the Intelligent Transportation Society of America covers M2M, Vehicle Advance Driver Assistance and Cooperative Systems. Presented at GSC MSTF meeting in Atlanta, September 2011	The Intelligent Transportation Society of America (ITS America) was established in 1991 as a not-for-profit organization to foster the use of advanced technologies in surface transportation systems. The formation of ITS America was motivated by the recognition that while numerous existing organizations were actively involved in transportation issues, no single organization existed to focus exclusive attention on emerging technologies. ITS America's members include private corporations, public agencies, and academic institutions involved in the research, development and design of Intelligent Transportation Systems (ITS) technologies to enhance safety, increase mobility, and sustain the environment.	www.itsa.org
ITS info-communications Forum (Japan)			The ITS Info-communications Forum was established to promote evolution of the roadway, transportation and automotive fields using highly advanced intelligent transport systems (ITS), with a special focus placed on research and development and standardization of information-communications technologies. There are two purposes for this site: 1) To operate as an access point where the general public can obtain information related to the activities of the Forum, including the results of studies, seminars, etc., and 2) To provide a way for members of the Forum to interact and exchange information with each other.	http://www.itsforum.gr.jp/E_index.html
JASPAR	Japan Automotive Software Platform		JASPAR was established in order to pursue increasing development efficiency and ensuring reliability, by standardization and common use of electronic control system software and in-vehicle network which are advancing and complexing. Engineers from various industries such as car manufacturers, tier-1 suppliers, semiconductor manufacturers and software developers are working for standardization in technology area of in-vehicle network, software, microcontroller and multimedia collaborating other standardizing organizations in Japan and overseas.	https://www.jaspar.jp/english/index_e.php

**GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST
IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION**

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
Mobey Forum	Helsinki, Finland		Mobey Forum is the not-for-profit global leader in defining a sustainable and prosperous mobile financial services ecosystem. Established in 2000, it brings together leading financial institutions, mobile network operators, mobile handset manufacturers, payment processors and vendors, committed to accelerating the mass-market deployment of user-friendly mobile financial services by promoting open and secure technology standards. Banked and driven by its bank and financial members, Mobey Forum produces comprehensive documentation on the recommended architecture for a wide range of mobile financial services, which is further supported by trials and demonstrations. The association also supports members' deployments, and actively contributes to new pilots and implementations within the marketplace. Through its information and analysis sharing and cross-industry collaborations, Mobey Forum is known as the key source of independent insight within the mobile financial services sector. Mobey Forum provides additionally for its members a huge database of industry information and insights via its online member site. As a member driven organisation, Mobey Forum is led by its Board of Directors from Bank of America, Deutsche Bank, DnB NOR, HSBC, La Caixa, Nokia, Nordea, PostFinance, Rabobank and UBS. The membership comprises of the leading organisations within the mobile financial services market representing more than 450 million banking customers globally, around 25 percent of the market.	http://www.mobeyforum.org/
MOST Cooperation	Media Oriented Systems Transport Karlsruhe, Germany		MOST – Media Oriented Systems Transport – is the de-facto standard for multimedia and infotainment networking in the automotive industry. The technology was designed from the ground up to provide an efficient and cost-effective fabric to transmit audio, video, data and control information between any devices attached even to the harsh environment of an automobile. Its synchronous nature allows for simple devices to be able to provide content and others to render that content with the minimum of hardware. At the same time it provides unique quality of service for transmission of audio and video services. Although its roots are in the automotive industry, MOST can be used for applications in other areas such as other transportation applications, A/V networking, security and industrial applications. The MOST Cooperation is the organization through which the technology is standardized and refined so that it continues to stay abreast of the latest technology requirements. Today it consists of 16 international carmakers and more than 60 key component suppliers. They have joined together to work with the MOST Technology and to contribute to its innovation. The MOST Cooperation is also prepared to embrace efforts to further develop and standardize the technology for other industries and to establish the corresponding work structures.	http://www.mostcooperation.com/home/index.html
OSPT Alliance	Munich, Germany		The OSPT Alliance is an international association chartered to define a new open standard for secure transit fare collection solutions. It provides industry education, creates workgroup opportunities and catalyzes the development and adoption of innovative fare collection technologies, applications and services. Founded by leading technology companies Giesecke & Devrient, Infineon Technologies, INSIDE Secure and Oberthur Technologies, OSPT Alliance membership is open to transit operators, solution vendors, government agencies and other stakeholders in the transit ecosystem.	http://www.osptalliance.org/
PATA	Payment Assurance Technology Association, Hanover, MD, USA		Payment Assurance Technology Association (PATA) serves the starter interrupt/GPS tracking industry. PATA seeks to unify, standardize and validate the activities of the industry and markets engaged in the manufacture, sale and use of technology for monitoring or disabling vehicles and for other applications. PATA is managed by a Board of Directors, all of whom are PATA members. Membership categories include manufacturers, distributors, users, telecommunications companies and affiliate members.	http://www.patassociation.com/index.php
SAE International	Society of Automobile Engineers		SAE International is a global association of more than 128,000 engineers and related technical experts in the aerospace, automotive and commercial-vehicle industries. SAE International's core competencies are life-long learning and voluntary consensus standards development. SAE International's charitable arm is the SAE Foundation, which supports many programs, including A World In Motion® and the Collegiate Design Series.	www.sae.org
UIC	Union Internationale des Chemins de fer (International Union of Railways)		Main UIC objectives: facilitate the sharing of best practices among members (benchmarking); support members in their efforts to develop new business and new areas of activities; propose new ways to improve technical and environmental performance; promote interoperability, create new world standards for railways (including common standards with other transport modes); develop centres of competence (High Speed, Safety, Security, e-Business, ...)	http://www.uic.org/

FINANCE AND OTHER PAYMENT-RELATED ACTIVITIES

**GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST
IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION**

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
ATMIA	ATM International Association	International Payments Forum. Presented at the GSC MSTF meeting in Atlanta, September 2011	The ATM Integrated Payments Standards Forum (IPSF) has been organized by the ATM Industry Association's International Payments Forum and is comprised of a voluntary group of payments industry experts to publish industry best practices recommendations for enabling integrated payments through the ATMs. The IPSF will develop an open standards based approach to achieving broad acceptance of alternative and nontraditional payments through ATMs. Areas to be addressed include software and hardware considerations, determining appropriate financial services for ATMs, and how to support new payments applications such as mobile and card-less transactions. The aim of the initiative is to bring together the key industry stakeholders and develop best practices standards for message and communications protocols, security and compliance, mobile and card-less transactions, and use-case recommendations.	www.atmia.com
ISIS	Mobile Payments System		For the first time, three of the largest U.S. wireless service providers — AT&T Mobility, T-Mobile USA, and Verizon Wireless — have united to build a nationwide mobile commerce network utilizing smartphone and near-field communication (NFC) technology. By bringing together merchants and consumers, the Isis mobile commerce network will provide an enhanced, more convenient, and more personal shopping experience.	http://www.paywithisis.com
ISO	Mobile Banking / Payments (International)	ISO TC68/SC7/WG10	The ISO study group, convened by the U.S., has identified areas for development of an international standard and will be formally developing standards for the following areas: Mobile person-to-person payments, involving a financial institution intermediary; Life cycle management of banking/payment applications; Banking alerts; Banking account Inquiries; Banking solicitations and offers; Payer to the secure element authentication; Discovery of device capabilities; Technical report on business oriented security requirements	http://www.iso.org/iso/iso_technical_committee.html?comid=365812
NACHA	Electronics Payments Association	Invited to GSC MSTF meeting in Atlanta. Could not attend.	NACHA manages the development, administration, and governance of the ACH Network, the backbone for the electronic movement of money and data. The ACH Network serves as a safe, secure, reliable network for Direct consumer, business, and government payments, and annually facilitates billions of payments such as Direct Deposit and Direct Payment. Utilized by all types of financial institutions, the ACH Network is governed by the NACHA Operating Rules, a set of fair and equitable rules that guide risk management and create certainty for all participants. As a not-for-profit association, NACHA represents nearly 11,000 financial institutions via 17 regional payments associations and direct membership. Through its industry councils and forums, NACHA brings together payments system stakeholders to enable innovation that strengthens the industry with creative payment solutions.	www.nacha.org
NAMA	National Automatic Vending Association	NAMA Vending Data Interchange Standards - Invited to GSC MSTF meeting in Atlanta. Could not attend.	In spring 2009, the NAMA Technology Leadership Committee under the direction of the NAMA Board of Directors, formed a specialized technology task force. The task force was charged with developing a set of NAMA standards that provide a way to share vending data among competing technology providers. These new standards had to ensure reliability, continuity, and longevity. Reliability relating to each participating technology provider of a vending operator receiving identical data files. Continuity in terms of data retrieval and distribution throughout a vending operator's network and longevity by providing assurance to vending operators that interfaces between installed applications and hardware from various suppliers will be supported going forward. As a result, the task force produced NAMA VDI (Vending Data Interchange) standards. These standards contain technical specifications that bundle vending machine-level data for easy distribution throughout a vending operator's technology network. The standards can be implemented by technology providers without vending operator intervention.	www.vending.org
SPA	Smart Payment Association, Munich, Germany		The Smart Payment Association (SPA) is the trade body of the smart payment industry. The Smart Payment Association addresses the challenges of the evolving payment ecosystem, offering leadership and expert guidance to help its members and their financial institution customers realize the opportunities of smart, secure and personalised payment systems & services both now and for the future. A non-profit organization founded in 2004, the association now counts six members including the three founding members Giesecke & Devrient, Gemalto and Oberthur Technologies, and Austria Card, Incard and Morpho. With more than 798 million smart payment cards delivered by its members in 2010, SPA represents around 87% of the smart payment cards market. This figure corresponds to a 18% year-on-year growth (2010 vs. 2009), showing the ongoing momentum of EMV deployment. The combined Smart Payment Association members' substantial experience and knowledge of the smart payment market has led to its position as expert advisor. The SPA is an Associate Member of Eurosmart, a Technical Associate of EMVCo (Board Member representing the card industry) and sits on the EPC CSG (SPA/ Eurosmart Spoke Person) to represent the vendors sector which objective is to create a set of standards needed to implement SEPA for cards. The SPA also collects and analyzes market data in order to increase transparency within the worldwide market for smart payment cards. The SPA analyzes market evolution on a worldwide basis and communicates its findings once a year.	http://www.smartpaymentassociation.com/en/
HEALTHCARE				

GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
AAMI	Association for the Advancement of Medical Instrumentation		AAMI, the Association for the Advancement of Medical Instrumentation, is a nonprofit organization founded in 1967. It is a unique alliance of more than 6,000 members from around the world united by one mission — to increase the understanding and beneficial use of medical instrumentation through effective standards, educational programs, and publications. AAMI is the primary source of consensus and timely information on medical instrumentation and technology. AAMI is the primary resource for the industry, the professions, and government for national and international standards. AAMI provides multidisciplinary leadership and programs that enhance the ability of the professions, healthcare institutions, and industry to understand, develop, manage, and use medical instrumentation and related technologies safely and effectively. AAMI helps members: contain costs, keep informed of new technology and policy developments, add value in healthcare organizations, improve professional skills and enhance patient care. AAMI provides a unique and critical forum for members who cover a complete range of interests, from clinical and biomedical engineers and technicians, physicians, nurses, and hospital administrators, to educators and researchers, manufacturers, distributors, government representatives and other healthcare professionals with an interest in medical devices. These diverse groups have been instrumental in making AAMI the leading source of essential information on medical devices and equipment since 1967.	http://www.aami.org/
AdvaMed	Advanced Medical Technology Association		AdvaMed's member companies produce the medical devices, diagnostic products and health information systems that are transforming health care through earlier disease detection, less invasive procedures and more effective treatments. Our members produce nearly 90 percent of the health care technology purchased annually in the United States and more than 50 percent purchased annually around the world. AdvaMed members range from the largest to the smallest medical technology innovators and companies.	http://www.advamed.org/memberportal/
American Telemedicine Association		Invited to GSC MSTF meeting in Atlanta. Could not attend.	Telemedicine is changing the world and ATA is the world of telemedicine. The American Telemedicine Association is the leading international resource and advocate promoting the use of advanced remote medical technologies. ATA and its diverse membership, works to fully integrate telemedicine into transformed healthcare systems to improve quality, equity and affordability of healthcare throughout the world. Established in 1993 as a non-profit organization and headquartered in Washington, DC, membership in the Association is open to individuals, healthcare institutions, companies and other organizations with an interest in promoting the deployment of telemedicine throughout the world. ATA is governed by a Board of Directors, which is elected by the association's membership.	http://www.americantelemed.org
ASME	American Society of Mechanical Engineers	AME V&V 40 Committee - Verification and Validation in Computational Methods for Medical Devices	This activity was first introduced during the June 1-2, 2009 FDA Workshop on Computer Methods for Cardiovascular Devices in Rockville, MD. As a result of feedback that was received following the FDA Workshop, it was determined to proceed with forming a new V&V committee that is application-specific to the medical device industry. Following the FDA Workshop, there were several announcements in publications and websites on the development of this new committee. On April 13, 2010 a session was held using the Design of Medical Device Conference in Minneapolis and a presentation was given during the ASME Summer Bioengineering Conference on June 16, 2010 in Naples, FL. A kick-off meeting was held on September 21, 2010 in conjunction with the 5th Frontiers in Medical Devices Conference, a second meeting was held on January 11, 2011 in conjunction with the Orthopaedic Research Society Annual Meeting in Long Beach, CA, and the third meeting was held on April 14-15, 2011 in conjunction with the Design of Medical Devices Conference in Minneapolis, MN. The proposed standard(s) will be written in accordance with the ANSI-accredited procedures for development committees, which establishes consensus, transparency, balance of interests, and due process.	http://cstools.asme.org/csconnect/CommitteePages.cfm?Committee=100108782
ASTM International	American Society for Testing and Materials	ASTM Committee E31 on Healthcare Informatics	ASTM Committee E31 on Healthcare Informatics develops standards related to the architecture, content, storage, security, confidentiality, functionality, and communication of information used within healthcare and healthcare decision making, including patient-specific information and knowledge. Established in 1970, E31 meets semi-annually as a committee in May and November. Members and visitors attend three days of meetings that include technical subcommittee sessions and a plenary meeting. Some subcommittees occasionally meet on an accelerated basis. The Committee, with a current membership of approximately 300 members, has 3 technical subcommittees that have over 30 approved standards and additional draft standards.	http://www.astm.org/COMMIT/COMMITTEE/E31.htm
Canadian Telehealth Forum		Invited to GSC MSTF meeting in Atlanta. Could not attend.	The CTF Forum (formerly the Canadian Society of Telehealth – Societe Canadienne de Telesante - CST-SCT) brings together the many key stakeholders involved and interested in furthering the development and implementation of telehealth practices. It acts as a major resource for information and knowledge sharing, contributes to telehealth policy and standards development, and is the Canadian voice for telehealth both nationally and internationally.	http://coachorg.com/ctf/
CDISC	Clinical Data Interchange Standards Consortium		CDISC is a global, open, multidisciplinary, non-profit organization that has established standards to support the acquisition, exchange, submission and archive of clinical research data and metadata. The CDISC mission is to develop and support global, platform-independent data standards that enable information system interoperability to improve medical research and related areas of healthcare. CDISC standards are vendor-neutral, platform-independent and freely available via the CDISC website.	

**GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST
IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION**

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
CEN/TC 251	European Committee for Standardization, Technical Committee on Health Informatics		A major focus of CEN/TC 251 is to assist adoption of standards to enable European organizations to achieve optimal use from their health informatics investments. It does this in a global context and where possible cooperates to develop and adopt international standards as the basis for such national or regional European standards. As a result there are ongoing efforts to coordinate the work of CEN/TC 251 with other standards development organizations, consortia and forums that have similar goals. Much CEN/TC 251 work is therefore carried out in partnership with ISO/TC 215, Health informatics and its liaison, and partner organizations such as CDISC, DICOM, GS1, HL7, IEEE/11073 and IHTSDO.	http://www.cen.eu/cen/Sectors/TechnicalCommittees/Workshops/Pages/default.aspx
CLSI	Clinical and Laboratory Standards Institute		The Clinical and Laboratory Standards Institute (CLSI) is a global, nonprofit, standards-developing organization that promotes the development and use of voluntary consensus standards and guidelines within the health care community.	http://www.clsi.org/
Continua Health Alliance		Presented at GSC MSTF meeting in Atlanta, September 2011	Continua Health Alliance is a non-profit, open industry organization of healthcare and technology companies joining together in collaboration to improve the quality of personal healthcare. With more than 240 member companies around the world, Continua is dedicated to establishing a system of interoperable personal connected health solutions with the knowledge that extending those solutions into the home fosters independence, empowers individuals and provides the opportunity for truly personalized health and wellness management. http://www.continuaalliance.org/static/cms_workspace/Continua_Overview_Presentation_10.7.2011.pdf	www.continuaalliance.org
EHTEL	European Health Telematics Association		(Wikipedia) -- EHTEL's Vision • eHealth is a cooperative process intensifying and changing the interactions of all stakeholders in health and social care for the purpose of improving Continuity of Care and Patient Safety. • eHealth is a tool to ensure information, choice and empowerment, as requested by European consumers and patients • eHealth must comprise multiple communication channels for ensuring both equal access to services and their ubiquity -- Mission EHTEL: The European eHealth Multidisciplinary Stakeholder Platform Through our growing membership of currently 60 organisations, we enable our members to voice their views throughout the eHealth ecosystem. We also facilitate the sharing of experience with colleagues and representatives across Europe and beyond. At EHTEL, we take an holistic view of eHealth. As such we collaborate closely with European associations representing Hospitals (HOPE and EHMA), health insurers (AIM), Physicians (CPME, UEMS), Pharmacists (PGEU, EAHP), Nurses (EFN), patient and citizens (AGE Platform, European Patients' Forum), as well as professional associations dedicated to quality and certification to care processes and eHealth services (ESQH, EuroRec). The multitude of backgrounds and interests of these stakeholders enable EHTEL, as a neutral forum, to draw a more complete picture of the benefits and challenges of the deployment of ICT in the fields of health and social care, thereby also identifying topics requiring particular attention and further developments at European level.	http://www.ehtel.org/
European Mhealth Alliance			The European MHealth Alliance (EuMHA) is an initiative designed to support and promote the wider adoption of healthcare and wellbeing (including sports and fitness) products, services, applications and innovation across Europe. EuMHA is a non-profit organisation that will concentrate on the economic development of the MHealth sector -- Mission -- The Alliance will provide leadership, innovation and economic transformation across a wide spectrum of private and public sector organisations, to encourage a broad offering of new products and services for all European citizens that will promote a healthy and improved lifestyle to benefit everyone. To work with organisations across Europe to support regulatory enablement; To collect and share information to assist in demonstrating the effectiveness and return on investment; To assist this industry in providing cost effective and efficient solutions to improve and extend the quality of existing services; To work with organisations and governments in encouraging of funding in new innovation programmes; To facilitate understanding of individuals needs; Encouraging collaboration between organisations; To promote MHealth innovation, products and services to the widest possible audience; and Research on MHealth applications, their use and delivery.	http://www.eumha.com/
GS1 Healthcare			GS1 Healthcare is a voluntary, global Healthcare user group bringing together all related Healthcare stakeholders: pharmaceutical and medical devices manufacturers, wholesalers and distributors, group purchasing organisations, hospitals, pharmacies, logistics providers, governmental and regulatory bodies, and associations. Mission & Vision -- The mission of GS1 Healthcare is to lead the Healthcare sector to the successful development and implementation of global standards by bringing together experts in Healthcare to enhance patient safety and supply chain efficiencies. -- The goal of the Global Healthcare User Group is to be the recognised, open and neutral source for regulatory agencies, trade organisations and other similar stakeholders who are seeking input and direction for global standards in healthcare for patient safety, supply chain security & efficiency, traceability and accurate data synchronisation.	http://www.gs1.org/healthcare
HIMSS	Healthcare Information Management and Systems Society	Represented at the GSC MSTF meeting in Atlanta, September 2011.	HIMSS is a cause-based, not-for-profit organization exclusively focused on providing global leadership for the optimal use of information technology (IT) and management systems for the betterment of healthcare.	www.himss.org
HITSP	Healthcare Information Technology Standards Panel		The Healthcare Information Technology Standards Panel (HITSP) is a cooperative partnership between the public and private sectors. The Panel was formed for the purpose of harmonizing and integrating standards that will meet clinical and business needs for sharing information among organizations and systems.	http://www.hitsp.org

**GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST
IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION**

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
HL7	Health Level Seven International	Presented at GSC MSTF meeting in Atlanta, September 2011	Founded in 1987, Health Level Seven International is the global authority for healthcare information interoperability and standards with affiliates established in more than 30 countries. HL7 is a non-profit, ANSI accredited standards development organization dedicated to providing a comprehensive framework and related standards for the exchange, integration, sharing, and retrieval of electronic health information that supports clinical practice and the management, delivery and evaluation of health services. HL7's more than 2,300 members represent approximately 500 corporate members, which include more than 90 percent of the information systems vendors serving healthcare. HL7 collaborates with other standards developers and provider, payer, philanthropic and government agencies at the highest levels to ensure the development of comprehensive and reliable standards and successful interoperability efforts.	www.HL7.org
IHT2	Institute for Health Technology Transformation		The Institute for Health Technology Transformation is the leading organization committed to bringing together private and public sector leaders fostering the growth and effective use of technology across the healthcare industry. Through collaborative efforts the Institute provides programs that drive innovation, educate, and provide a critical understanding of how technology applications, solutions and devices can improve the quality, safety and efficiency of healthcare.	http://ihealthtran.com/
ISO/IEEE 11073	Medical Device Communication Working Group	Invited to GSC MSTF meeting in Atlanta, September 2011. Could not attend.	ISO/IEEE 11073 Personal Health Data (PHD) standards are a group of standards addressing the interoperability of personal health devices (PHDs) such as weighing scales, blood pressure monitors, blood glucose monitors and the like. The standards draw upon earlier IEEE 11073 standards work, but differ from this earlier work due to an emphasis on devices for personal use (rather than hospital use) and a simpler communications model.	http://en.wikipedia.org/wiki/ISO/IEEE_11073
ISO TC 215	ISO Technical Committee 215 Health Informatics		Technical Committee 215 of the International Organization for Standards (ISO) focuses on standardization in the field of information for health and health-information-and-communications technology (ICT) to achieve compatibility and interoperability between independent systems. The TC's scope also includes ensuring compatibility of data for comparative statistical purposes (e.g. classifications) and to reduce duplication of effort and redundancies.	http://www.iso.org/iso/iso_technical_committee?commid=54960
Joint Commission	Formerly the Joint Commission on Accreditation of Healthcare Organizations (JCAHO)		An independent, not-for-profit organization, The Joint Commission accredits and certifies more than 19,000 health care organizations and programs in the United States. Joint Commission accreditation and certification is recognized nationwide as a symbol of quality that reflects an organization's commitment to meeting certain performance standards. Our Mission: To continuously improve health care for the public, in collaboration with other stakeholders, by evaluating health care organizations and inspiring them to excel in providing safe and effective care of the highest quality and value. Vision Statement: All people always experience the safest, highest quality, best-value health care across all settings.	http://www.jointcommission.org/
mHealth Alliance			The mHealth Alliance (mHA) advances mHealth through policy research, advocacy, and support for the development of interoperable solutions and sustainable deployment models. Working with diverse partners, the mHA sponsors events and conferences, leads cross-sector mHealth initiatives, and hosts HUB (HealthUnBound), a global online community for resource sharing and collaborative solution generation. mHA is positioned at the leading edge of the mHealth ecosystem as a convener to unite existing mHealth projects and guide governments, NGOs, and mobile firms to deliver innovative and interoperable solutions in this exploding field. The idea for the mHealth Alliance emanated from a July 2008 conference in Bellagio, Italy on the future of mHealth, during which participants committed to forming a non-profit mHealth Alliance to maximize the impact of mobile health, especially in emerging economies, by ensuring interoperability and open-standards based solutions. Launched at the GSM Association Mobile World Congress in February 2009 by the United Nations Foundation, Rockefeller Foundation, and Vodafone Foundation, the mHA now includes the U.S. President's Emergency Plan for AIDS Relief (PEPFAR), GSM Association and HP among its founding partners.	www.mhealthalliance.org
MITA	Medical Imaging & Technology Alliance (MITA) a division of NEMA		MITA provides leadership for the medical imaging industry on legislative and regulatory issues at the state, federal, and international levels. It serves as an advocate for fair legislative and regulatory proposals that encourage innovation, investment in research and development, and the continued global competitiveness of the medical imaging industry. MITA is also a leading standards-development organization for medical imaging equipment. These standards are voluntary guidelines that establish commonly accepted methods of design, production, testing and communication for imaging and cancer treatment products. Sound technical standards of this kind improve safety and foster efficiencies in how care is delivered	http://www.nema.org/prod/med/
MITA DICOM	MITA and Digital Imaging and Communications in Medicine Standards Committee		The DICOM Standards Committee exists to create and maintain international standards for communication of biomedical diagnostic and therapeutic information in disciplines that use digital images and associated data. The goals of DICOM are to achieve compatibility and to improve workflow efficiency between imaging systems and other information systems in healthcare environments worldwide. DICOM is a cooperative standard. Connectivity works because vendors cooperate in testing via either scheduled public demonstrations, over the Internet, or during private test sessions. Every major diagnostic medical imaging vendor in the world has incorporated the Standard into its product design, and most are actively participating in the enhancement of the Standard. Most of the professional societies	http://medical.nema.org/

GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
WLSA	Wireless Life Sciences Alliance		The Wireless-Life Sciences Alliance (WLSA) is a special purpose trade organization for innovators, globally relevant companies, scientists, physicians, and policy makers. The WLSA is dedicated to creating value and improving health, globally, through the convergence of communications technologies, consumers, caregivers and all sectors of the life sciences and technology environment. WLSA partners and companies all over the world are using wireless health innovations to better manage chronic conditions, preempt disease and improve the lives of the elderly and under-served populations around the world. The principal activities of the WLSA involve the creation of invitational group and private meetings in quality settings during which proprietary information is shared and in which partners meet the most dynamic and innovative organizations and individuals shaping the future of wireless health.	www.wirelesslifesciences.org
HOME AUTOMATION /OTHER BUILDING AUTOMATION/PHYSICAL SECURITY				
ASIS International	fka American Society for Industrial Security		ASIS International is the preeminent organization for security professionals. Founded in 1955, ASIS is dedicated to increasing the effectiveness and productivity of security professionals by developing educational programs and materials that address broad security interests, such as the ASIS Annual Seminar and Exhibits, as well as specific security topics. By providing members and the security community with access to a full range of programs and services, and by publishing the industry's No. 1 magazine—Security Management—ASIS leads the way for advanced and improved security performance. The ASIS Commission on Standards and Guidelines is the promulgating body within ASIS International to develop security management standards and guidelines. The commission works with numerous national and international standards-setting organizations to advance security practices worldwide through the development of standards and guidelines within a voluntary, non-proprietary and consensus-based process utilizing the knowledge, experience and expertise of ASIS membership and the security industry. ASIS is an ANSI-accredited Standards Developing Organization.	http://www.asisonline.org/
Aureside	Associação Brasileira de Automação Residencial (Home Automation Association of Brazil)	Invited to GSC MSTF meeting in Atlanta, September 2011. Could not attend.	AURESIDE's MISSION: To cause the adoption of home automation technologies in Brazil by: supplying and providing up-to-date information and applied knowledge in a segmented way to its target public: architects, engineers, designers, installers, potential users, and teachers and students at Tech Schools; organizing and maintaining a schedule of events as seminars, workshops, trade shows around the year in the main cities of Brazil; establishing a training program to enable and certifying professionals; building and keeping an up-to-date data base about products and devices in the home automation area; and having its seal stamped in products and devices certifying its appropriateness to the Brazilian market. AURESIDE also supplies the specialized press with articles and interviews , promoting the concept of home automation integrated projects.	http://www.aureside.org.br/english/
BACnet	Building Automation and Control Networks		Developed under the auspices of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), BACnet is an American national standard, a European standard, a national standard in more than 30 countries, and an ISO global standard. The protocol is supported and maintained by ASHRAE Standing Standard Project Committee.	http://www.bacnet.org
Broadband Forum	Fremont, CA, USA	BBF BroadbandHome Working Group. 2 projects undertaken: BBF OD-282 (Smart Home Control Plane Analysis) and BBF OD-278 (Managing Machine-type devices using TR-069)	The Broadband Forum Vision: The Broadband Forum is the central organization driving broadband wireline solutions and empowering converged packet networks worldwide to better meet the needs of vendors, service providers and their customers. Our Mission: We develop multi-service broadband packet networking specifications addressing interoperability, architecture and management. Our work enables home, business and converged broadband services, encompassing customer, access and backbone networks.	www.broadband-forum.org
CABA	Continental Automated Buildings Association	Presented at the GSC MSTF meeting in Atlanta, September 2011.	The Continental Automated Buildings Association (CABA) is an international not-for-profit industry association dedicated to the advancement of intelligent home and intelligent building technologies. The organization is supported by an international membership of nearly 400 companies involved in the design, manufacture, installation and retailing of products relating to home automation and building automation. Public organizations, including utilities and government are also members. CABA's mandate includes providing its members with networking and market research opportunities. CABA also encourages the development of industry standards and protocols, and leads cross-industry initiatives.	www.caba.org
EnOcean Alliance		Invited to GSC MSTF meeting in Atlanta, September 2011. Could not attend.	The EnOcean Alliance is a consortium of companies working to further develop and promote self-powered wireless monitoring and control systems for sustainable buildings by formalising the interoperable wireless standard. The EnOcean Alliance has the largest installed base of field-proven wireless building automation networks in the world -- Mission and Vision -- Our mission is to promote and enable intelligent green buildings through creation of a broad range of interoperable standards based wireless products. Our vision is to create a better, safer, cost & energy efficient environmentally friendlier world through intelligent self-powered wireless sensor systems.	http://www.enocean-alliance.org/

GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
HGI	Home Gateway Initiative		The HGI, founded in 2004 by major broadband service providers (BSPs), and joined by leading vendors of digital home equipment, is shaping the way that IP services are delivered to the home. The HGI publishes requirements for digital home building blocks. Those building blocks are the hardware and software in the digital home that connect consumers and services. They include home gateways, home networks, and home network devices. HGI projects are triggered by the services vision of our BSP members, and build on the technical collaboration of all the HGI participants. The HGI welcomes BSPs and vendors from across the globe. Our members represent the entire spectrum of players in the broadband home area.	http://www.homegatewayinitiative.org/
Home Grid Forum			HomeGrid Forum supports the deployment of a next-generation, unified coaxial, phone line and powerline home networking standard, ensures compliance and interoperability of the technology and issues a certified logo for use in consumer markets. HomeGrid currently has five work groups: a Clean Tech workgroup, a G.hn Contribution workgroup, a Compliance & Interoperability workgroup, a Smart Grid/Smart Energy workgroup and a Marketing workgroup with the goals of helping establish industries' technical requirements, ensuring interoperability, and branding and marketing HomeGrid Certified Products. The purpose of HomeGrid Forum is to: Work within ITU G.hn to maintain the next-generation of home networking using in-home wiring (coaxial cable, phone line and powerline); Create and maintain a compliance program to enable an ecosystem of interoperable products based on the ITU-T G.hn specification; and Encourage and promote the adoption and widespread utilization of the HomeGrid Brand.	http://homegridforum.org
HomePlug Powerline Alliance			The HomePlug Powerline Alliance, Inc. (www.homeplug.org) is an industry-led initiative with 65 member companies that creates specifications, marketing and certification programs to accelerate worldwide adoption of powerline networking with HomePlug technology. With HomePlug technology, the electrical wires in the home can now distribute broadband Internet, HD video, digital music and smart energy applications. The Alliance works with key stakeholders to ensure HomePlug specifications are designed to meet the requirements of IPTV service providers, power utilities, equipment and appliance manufacturers, consumer electronics and other constituents. The HomePlug Certified Logo program is the powerline networking industry's largest Compliance and Interoperability Certification Program with more than 250 different certified devices. Sponsor members include Broadcom Corporation (BRCM); Cisco (CSCO); Duke Energy (NYSE: DUK); GE Energy, an affiliate of General Electric Co. (NYSE: GE); Qualcomm Atheros, a wholly owned subsidiary of Qualcomm Incorporated; Renesas Electronics Corporation (TSE: 6723); SPiDCOM Technologies; and STMicroelectronics (NYSE: STM). "HomePlug" and "Netricity" are trademarks of the HomePlug Powerline Alliance, Inc. in the U.S. and other countries. Other names and brands may be claimed as the property of others.	https://www.homeplug.org/home/
KNX			KNX Association is the creator and owner of the KNX technology – the worldwide STANDARD for all applications in home and building control, ranging from lighting and shutter control to various security systems, heating, ventilation, air conditioning, monitoring, alarming, water control, energy management, metering as well as household appliances, audio and lots more. The technology can be used in new as well as in existing home and buildings.	www.knx.org
OBIX	Open Building Information Exchange		oBIX (Open Building Information Xchange) is a focused effort by industry leaders and associations working toward creating a standard XML and Web Services guideline to facilitate the exchange of information between intelligent buildings, enable enterprise application integration and bring forth true systems integration. Based on Standards widely used by the IT Industry, the oBIX guideline will improve operational effectiveness giving facility managers and building owners increased knowledge and control of their properties. Comprised of representatives from the entire spectrum of the buildings systems industry, oBIX includes professionals from the security, HVAC, building automation, open protocol and IT disciplines.	http://www.obix.org
PSIA	Physical Security Interoperability Alliance		The Physical Security Interoperability Alliance is a global consortium of over 65 physical security manufacturers and systems integrators focused on promoting interoperability of IP-enabled security devices across all segments of the security industry. Participating companies include Arecont Vision, Assa Abloy, Cisco Systems, GE Security, Genetec, HikVision, Honeywell, IBM, IQinVision, Kastle, March Networks, Milestone Systems, NICE Systems, ObjectVideo, OnSSI, Pelco, SCCC, Stanley Security, Texas Instruments, Tyco International, Verint and Vidsys.	www.psialliance.org
SIA (USA)	Security Industry Association		The Security Industry Association (SIA) protects and advances our members' interests by: advocating pro-industry policies and legislation on Capitol Hill and throughout the 50 states; producing leading-edge global market research; creating open industry standards that enable integration; advancing industry professionalism through education and training; and opening global market opportunities.	http://www.siaonline.org/
Z-Wave			The Z-wave alliance is a consortium of leading independent manufacturers who have agreed to build wireless home control products based on the Zensys' Z-Wave open standard. http://www.z-wave.com/modules/AboutZ-Wave/	www.z-wave.com

MANUFACTURING AND INDUSTRIAL AUTOMATION

GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
AIA	Automation Industry Association (India)		As India integrates itself with the world economy and Indian industry looks beyond national borders, the need for such an initiative has never been greater. State-of-the-art automation technologies have a vital role to play in facilitating this effort. AIA will serve as a key facilitator in the information sharing, deployment and development of automation technologies and showcasing the latest trends and global best practices across the process, manufacturing and consumer industry spectrum. The association will provide a common platform when interfacing with government and other institutions, thereby playing an important role in shaping related policies and standards. Amongst its objectives, AIA also intends to foster awareness and technology knowledge amongst a wider audience through academia interface. The association will also promote best practices within the automation industry and encourage innovation to promote the cause of Indian industry AIA is a co-operative initiative launched by global leaders like ABB, Emerson, Honeywell, Invensys, L&T, Rockwell, Siemens, Yokogawa. A vibrant, forward looking platform for Automation suppliers, System Integrators, Consultants and service providers.	www.aia-india.org
Automation Federation		Invited to GSC MSTF meeting in Atlanta, September 2011. Could not attend.	The Automation Federation (AF) is an association of member organizations engaged in manufacturing and process automation activities. The Automation Federation provides industry-wide strategic analysis and coordination through its member organizations. The Federation is the only organization that takes a holistic approach to automation; therefore, with the Automation Federation's leadership and support, member organizations can work more effectively to fulfill their individual missions, advance the science and engineering of automation technologies and applications, and develop the workforce needed to capitalize on the benefits of automation.	http://www.automationfederation.org
CiA	(controller area network) Can in Automation		In the year 1992, several companies founded the CiA nonprofit organization, in order to provide technical, product and marketing information. The aim of this step was to promote CAN's image and to provide a path for future developments of the CAN protocol. About 560 companies are currently members of this international users' and manufacturers' group. The CiA group is registered in Nuremberg (Germany) as nonprofit organization. Representatives of CiA support actively international standardization of CAN protocols, and CiA members develop specifications to be published as CiA specifications. CiA specifications cover physical layer definitions as well as application layer and device profile descriptions. CiA organizes joint marketing activities including stands and booths at fairs and exhibitions and joint seminars. Other activities are CANschools for newcomers in selected countries, CANopen trainings as well as consulting services. CiA presents papers at conferences and provides public relation activities on CAN technologies including technical articles, application reports and press releases. The CAN physical layer and data link layer protocol was originally developed for use as in-vehicle network for passenger cars. The CAN-based higher-layer protocols define how to use the CAN data link protocol for specific application requirements. Besides proprietary CAN-based higher-layer protocols, there are also several internationally standardized ones: CANopen for embedded control systems, DeviceNet for factory automation, J1939-based solutions (J1939-71, Isobus, ISO 11992, CiA 501/2) for trucks and other vehicles, ISO 15765 for passenger car diagnostics.	http://www.can-cia.org
ISA	International Society of Automation	ISA100 - Study Group on Sensor Networks - Presented at GSC MSTF meeting in Dallas, May 2011.	The ISA100 Committee will established standards, recommended practices, technical reports, and related information that will define technologies and procedures for implementing wireless systems in the automation and control environment with a focus on the field level (Level 0). Guidance is directed towards those responsible for the complete life cycle including the designing, implementing, on-going maintenance, scalability or managing manufacturing and control systems, and shall apply to users, system integrators, practitioners, and control systems manufacturers and vendors.	http://www.isa.org/MSTemplate.cfm?MicrositeID=1134&CommitteeID=6891
M-Bus	Meter-Bus, Paderborn, Germany		The M-Bus ("Meter-Bus") is a new European standard for remote reading of heatmeters and it is also usable for all other types of consumption meters as well as for various sensors and actuators. With its standardization as a galvanic interface for remote readout of heat meters this bus wins a great importance for the energy industry as relevant users. The remote reading of heat meters can take place in different ways, beginning with the classical method - manual reading by the personnel of the providers - up to the remotely controlled collection of all the meter values for a complete housing unit. The latter is a logical continuation/extension of the technical development of consumption meters and is realizable with the help of the M-Bus.	http://www.m-bus.com
Modbus	Hopkinton, MA, USA	Invited to GSC MSTF meeting in Atlanta, September 2011. Could not attend.	The Modbus Organization is a group of independent users and suppliers of automation devices that seeks to drive the adoption of the Modbus communication protocol suite and the evolution to address architectures for distributed automation systems across multiple market segments. The Modbus Organization will also provide the infrastructure to obtain and share information about the protocols, their application and certification to simplify implementation by users resulting in reduced costs.	www.modbus.org
OCARI Alliance	Optimization of Communication for Ad hoc Reliable Industrial network Alliance, Paris, France	Presented at GSC MSTF meeting in Dallas, May 2011	The OCARI alliance is an Industrial Wireless Sensor Network consortium. OCARI distinguishes from protocols such as ZigBee, WirelessHART and Isa100.11a by the following characteristics A deterministic access method to the RF medium supporting time-constrained packets relay, called MaCARI; A proactive energy efficient routing strategy supporting nomadism, called EOLSR (Energy efficient OLSR); An activity scheduling mechanism that is based on a three-hop coloring algorithm helps to reduce interference and thus optimizes node's energy consumption, called SERENA.	www.ocari.org
OMAC	The Organization for Machine Automation and Control, Reston, VA, USA	Invited to GSC MSTF meeting in Atlanta, September 2011. Could not attend.	OMAC is the organization for automation and manufacturing professionals that is dedicated to supporting the machine automation and operation needs of manufacturing	http://www.omac.org

**GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST
IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION**

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
OPC	Open Productivity and Connectivity - Open Connectivity via Open Standards	Invited to GSC MSTF meeting in Atlanta - Could not attend	The OPC Foundation is dedicated to ensuring interoperability in automation by creating and maintaining open specifications that standardize the communication of acquired process data, alarm and event records, historical data, and batch data to multi-vendor enterprise systems and between production devices. Production devices include sensors, instruments, PLCs, RTUs, DCSs, HMIs, historians, trending subsystems, alarm subsystems, and more as used in the process industry, manufacturing, and in acquiring and transporting oil, gas, and minerals. http://www.opcfoundation.org/01_about/April19_OPC-DISPLAY%20LAYOUT.pdf	www.opcfoundation.org
SMLC	Smart Manufacturing Leadership Coalition	Presented at GSC MSTF meeting in Atlanta, September 2011	The SMLC and the National Center for Manufacturing Sciences (NCMS) have formed a working partnership and to build a National Smart Manufacturing Ecosystem. It is an iPhone-like "App Store" for industrial modeling and simulation applications and their rapid application. NCMS is also providing their Predictive Innovation Center (PIC) strategy to link nationally to other centers that involve modeling and simulation applications in manufacturing and their national capacity for outreach to small and medium enterprises.	http://smart--process--manufacturing.ucla.edu/
SMART GRID AND UTILITIES				
APPA	American Public Power Association		The American Public Power Association (APPA), based in Washington, D.C., is the service organization for the nation's more than 2,000 community-owned electric utilities. Collectively, these utilities serve more than 46 million Americans. APPA was created in 1940 as a nonprofit, non-partisan organization to advance the public policy interests of its members and their consumers, and provide member services to ensure adequate, reliable electricity at a reasonable price with the proper protection of the environment. Policy positions emphasize the importance of hometown decision making that puts customers first and ensures a stable supply of electricity while protecting the environment. Since two-thirds of public power systems do not generate their own electricity and instead buy it on the wholesale market for distribution to customers, securing competitively priced and reliable wholesale power is a priority.	www.publicpower.org
CIGRE	Conseil International des Grands Réseaux Electriques (International Council on Large Electric Systems)		CIGRE (International Council on Large Electric Systems) is one of the leading worldwide Organizations on Electric Power Systems, covering their technical, economic, environmental, organisational and regulatory aspects. A permanent, non-governmental and non-profit International Association, based in France, CIGRE was founded in 1921 and aims to: Facilitate the exchange of information between engineering personnel and specialists in all countries and develop knowledge in power systems; Add value to the knowledge and information exchanged by synthesizing state-of-the-art world practices; Make managers, decision-makers and regulators aware of the synthesis of CIGRE's work, in the area of electric power; More specifically, issues related to planning and operation of power systems, as well as design, construction, maintenance and disposal of HV equipment and plants are at the core of CIGRE's mission. Problems related to protection of power systems, telecontrol, telecommunication equipment and information systems are also part of CIGRE's area of concern.	http://www.cigre.org
DLMS	Device Language Message Specification		DLMS stands for Distribution Line Message Specification. It is an application layer specification, independent of the lower layers and thus of the communication channel, designed to support messaging to and from (energy) distribution devices in a computer-integrated environment. It is an international standards established by IEC TC 57 and published as IEC 61334-4-41. The concept was driven forward later to become Device Language Message Specification with the objective to provide an interoperable environment for structured modelling and meter data exchange. Applications like remote meter reading, remote control and value added services for metering any kind of energy, like electricity, water, gas or heat are supported.	http://www.dlms.com/index2.php
DRSG Coalition	Demand Response and Smart Grid Coalition		The Demand Response and Smart Grid Coalition (DRSG) is the trade association for companies that provide products and services in the areas of demand response, smart meters and smart grid technologies. DRSG works to educate and provide information to policymakers, utilities, the media, the financial community and stakeholders on how demand response and smart grid technologies such as smart meters can help modernize our electricity system and provide customers with new information and options for managing their electricity use.	http://www.drsgcoalition.org/
EDSO	European Distribution System Operators' Association		EDSO for smart grids aims to be the key reference point in the coordination of all European Distribution System Operators efforts. The purpose of the Association is to structure, lead and enhance cooperation between European distribution system operators for electricity, as well as assure, manage, represent and promote their common interests, specifically on smart grids development and implementation.	http://www.edsoforsmartgrids.eu

**GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST
IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION**

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
EEI	Edison Electric Institute		The Edison Electric Institute (EEI) is the association of U.S. Shareholder-Owned Electric Companies. Our members serve 95 percent of the ultimate customers in the shareholder-owned segment of the industry, and represent approximately 70 percent of the U.S. electric power industry. They also have more than 70 international electric companies as Affiliate Members, and more than 200 industry suppliers and related organizations as Associate Members. Organized in 1933, EEI works closely with all of its members, representing their interests and advocating equitable policies in legislative and regulatory arenas. EEI provides public policy leadership, critical industry data, market opportunities, strategic business intelligence, one-of-a-kind conferences and forums, and top-notch products and services.	http://www.eei.org
ENTSOE	European Network of Transmission System Operators of Electricity		The European Network of Transmission System Operators for Electricity speaks for all electric TSOs in the EU and others connected to their networks, with one voice for all regions, and for all their technical and market issues. In ENTSO-Electricity the TSOs cooperate regionally and on the European scale, and through ENTSO-E they communicate their needs and positions on European and regional issues. ENTSO-E's activities are organized in the three Committees along which the website is structured, for System Development, System Operations and Market, and are supported by a Legal & Regulatory Group. The activities are focused on: reliable operation, optimal management, sound technical evolution of the European electricity grid, security of supply, meeting the needs of the Internal Energy Market and facilitating market integration, network development statements, network codes, promotion of relevant R&D and the public acceptability of transmission infrastructure, consultation with stakeholders and positions towards energy policy issues.	http://www.entsoe.eu
ESMIG	European Smart Metering Industry Group		Located in Brussels, Belgium, the Industry Group will give advice and provide its expertise to key stakeholders and actors, such as the European Union institutions, EU Member States governments and authorities, regulators, consumers and utilities on all aspects related to Smart Metering.	http://www.esmig.eu/
Eurelectric			The Union of the Electricity Industry-EURELECTRIC is the sector association which represents the common interests of the electricity industry at pan-European level, plus its affiliates and associates on several other continents. The association was formed as a result of a merger in December 1999 of the sister sector bodies UNIPED and EURELECTRIC.	http://www2.eurelectric.org/Content/Default.asp
EUTC	European Utilities Telecom Council		Technology is rapidly changing the role of telecom in Europe's electric, gas and water utilities, energy companies and other critical infrastructure companies. Many are using their vast experience in building and managing sophisticated telecommunications networks to enter Europe's new competitive telecoms markets. Many are also facing issues introducing new wireless communications systems and managing internal telecoms businesses in a shared services environment. To meet this need, the Utilities Telecom Council has developed a uniquely European program that will build on UTC's 60 years of experience, existing strengths and services. EUTC programs are led by Europeans, designed by Europeans, and uniquely European in focus.	http://www.eutc.org
Gridwise Alliance			The GridWise Alliance, founded in 2003, has developed into an organization that represents a broad range of the energy supply chain from utilities to large tech companies to academia to venture capitalists to emerging tech companies. This variety of stakeholders gives the Alliance a unique diversity of perspectives which enables interactive dialogue between members. Being a consensus based organization; the assortment of opinions produces deliberate and highly reflected upon resolutions to key issues.	http://gridwise.org
Gridwise Architecture Council		Presented at the GSC MSTF meeting in Atlanta, September 2011	The GridWise Architecture Council (GWAC) is a team of industry leaders who are shaping the guiding principles, or architecture, of a highly intelligent and interactive electric system—one ripe with decision-making information exchange and market-based opportunities. This architecture will provide guidelines for interaction between participants and interoperability between technologies and systems. The Council is neither a design team, nor a standards making body. Its role is to help identify areas for standardization that allow significant levels of interoperation between system components. We are helping to outline a philosophy of inter-system operation that preserves the freedom to innovate, design, implement and maintain each organization's portion of the electrical system.	http://www.gridwiseac.org/
JSCA	Japan Smart Community Alliance		JSCA has members from the electric power, gas, automobile, information and communications, electric machinery, construction and trading industries as well as the public sector and academia. (A list of members is included later in this brochure.) It is working to facilitate the development of a smart community through the collective effort of the public and private sectors as an all-Japan team by planning and implementing activities that benefit Japan's economic community. Such activities also include responding to local government needs, overcoming barriers and issues that lie ahead as well as sharing of information on the use of public funding for smart grid technology development.	https://www.smart-japan.org/english/tabid/103/Default.aspx

GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
NEMA	The Association of Electrical and Medical Imaging Equipment Manufacturers	Invited to GSC MSTF meeting in Atlanta, September 2011. Did not attend	NEMA is the trade association of choice for the electrical manufacturing industry. Founded in 1926 and headquartered near Washington, D.C., its approximately 450 member companies manufacture products used in the generation, transmission and distribution, control, and end-use of electricity. These products are used in utility, medical imaging, industrial, commercial, institutional, and residential applications. Domestic production of electrical products sold worldwide exceeds \$120 billion. NEMA provides a forum for the development of technical standards that are in the best interests of the industry and users, advocacy of industry policies on legislative and regulatory matters, and collection, analysis, and dissemination of industry data. In addition to its headquarters in Rosslyn, Virginia, NEMA also has offices in Beijing and Mexico City.	www.nema.org
NIST	National Institute of Standards and Technology (USA)	Smart Grid. Presented at the GSC MSTF meeting in Dallas, May 2011	The National Institute of Standards and Technology (NIST) supports one of the key roles in the growth of the Smart Grid—bringing together manufacturers, consumers, energy providers, and regulators to develop "Interoperable standards." In other words, NIST is responsible for making sure the many pieces of "the world's largest and most complex machine" are able to work together. As outlined in the "The Energy Independence and Security Act of 2007" (Public Law 110-140, often referred to as "EISA"), NIST has been given "primary responsibility to coordinate development of a framework that includes protocols and model standards for information management to achieve interoperability of smart grid devices and systems."	www.nist.gov
T&D Europe	European Association of the Electricity Transmission and Distribution Equipment and Services Industry		It aims to promote and defend the common technical, industrial economic, environmental and political interests of the European electricity transmission and distribution manufacturing, and product derives solutions industry. T&D Europe was created in March 2008 by the merger of two European committees: CAPIEL HV and COTREL. It represents all relevant European national associations. The companies represented by T&D Europe account for a production worth over € 25 billion, and employ over 200.000 people in Europe. T&D Europe is a driver for advanced solutions and technologies in the field of electricity networks, encouraging an energy-and cost-efficient as well as an environmentally friendly infrastructure.	http://tdeurope.eu/en/home
TIA TR-51	Smart Utility Networks TIA Engineering Committee, DC, USA		Smart Utility Networks technology focuses on efficient access technology with a mesh network topography, optimized for Smart Utility applications. The Smart Utility Networks standards are intended to provide the utility companies with another tool to improve services to their customers. During the TR-51 standards process TIA will work to incorporate the best of the applicable existing standards in order to develop an integrated multi-layer standard (covering layers 1 through 4).	http://www.tiaonline.org/standards/committees/committee.cfm?comm=tr-51
UCA	International Users Group		UCA International Users Group is a not-for-profit corporation focused on assisting users and vendors in the deployment of standards for real-time applications for several industries with related requirements. The Users Group does not write standards, however works closely with those bodies that have primary responsibility for the completion of standards (notably IEC TC 57: Power Systems Management and Associated Information Exchange). The UCALug as well as its member groups (CIMug, Open Smart Grid, and IEC61850) draws its membership from utility user and supplier companies. The mission of the UCA International Users Group is to enable integration through the deployment of open standards by providing a forum in which the various stakeholders in the energy and utility industry can work cooperatively together as members of a common organization to: Influence, select, and/or endorse open and public standards appropriate to the energy and utility market based upon the needs of the membership; Specify, develop and/or accredit product/system-testing programs that facilitate the field interoperability of products and systems based upon these standards; Implement educational and promotional activities that increase awareness and deployment of these standards in the energy and utility industry; Influence and promote the adoption of standards and technologies specific to the ever-increasing Smart Grid initiatives worldwide.	http://www.ucaiug.org
UTC Smart Network Council			The mission of UTC's Smart Networks Council is to: Help those responsible for advanced metering and demand response initiatives to select the best AMI / DR systems now and/or maximize their investments in existing AMI / DR systems; Coordinate activities of UTC members' state and federal regulatory representatives to ensure the most favorable regulations for utilities deploying AMI and distribution automation applications; Drive interoperability of AMI and DR technologies by coordinating standards activities of UTC member utilities and their technology partners	http://www.smartnetworkscouncil.org/
UTC	Utilities Telecom Council		The Utilities Telecom Council (UTC) is a global trade association dedicated to creating a favorable business, regulatory, and technological environment for companies that own, manage, or provide critical telecommunications systems in support of their core business. Founded in 1948 to advocate for the allocation of additional radio spectrum for power utilities, UTC has evolved into a dynamic organization that represents electric, gas, and water utilities; natural gas pipelines; critical infrastructure companies; and other industry stakeholders. From its headquarters in downtown Washington, DC, UTC provides information, products and services that help members: Manage their telecommunications and information technology more effectively and efficiently; Voice their concerns to legislators and regulators; Identify and capitalize on opportunities linked to deregulation worldwide; and Network with other telecom and IT professionals. UTC is also an authorized certified frequency coordinator for the Private Land Mobile Radio Services below 512 MHz and 800-900 MHz frequencies. UTC is also the sole frequency coordinator authorized to coordinate channels previously allocated exclusively to the Power Radio Service. In addition, UTC maintains the national Power Line Carrier (PLC) database for the coordination of PLC use with licensed government radio services in the 10-490 kHz band.	http://www.utc.org/

**GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST
IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION**

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
SUPPLY CHAIN				
AIM	Association for Automatic Identification and Mobility		Since 1972, AIM has actively led the way in industry standards, education, and outreach. AIM is the international trade association representing automatic identification and mobility technology solution providers. Through the years, industry leaders continue to work within AIM to promote the adoption of emerging technologies. AIM actively supports the development of AIM standards through its own Technical Symbology Committee (TSC), Global Standards Advisory Groups, and RFID Experts Group (REG), as well as through participation at the industry, national (ANSI) and international (ISO) levels. AIM is the leading authority on: Bar code, Radio frequency identification (RFID), and Enterprise mobile computing. AIM members are also leading solutions providers of: Voice systems, Magnetic stripe, Mobile computing, OCR, an Contact memory. AIM delivers accurate and unbiased information on AIM technologies, standards, and applications. Through support of the Education and Public Policy Committee (EPP), AIM is able to provide an unbiased technology perspective to legislators, media and consumers.	www.aimglobal.org
APICS	Advancing Productivity, Innovation and Competitive Success - The Association for Operations Management, Chicago, IL, USA		APICS The Association for Operations Management is the global leader and premier source of the body of knowledge in supply chain and operations management, including production, inventory, materials management, purchasing, and logistics. Since 1957, individuals and companies have relied on APICS for its superior training, internationally recognized certifications, comprehensive resources, and worldwide network of accomplished industry professionals.	http://www.apics.org/default.htm
CSCMP	Council of Supply Chain Management Professionals, Lombard, IL, USA		CSCMP Mission is to lead the evolving supply chain management profession by developing, advancing, and disseminating supply chain knowledge and research -- CSCMP Vision: The Council of Supply Chain Management Professionals is the preeminent worldwide professional association of supply chain management professionals. CSCMP exists to: Provide opportunities for supply chain professionals to communicate in order to develop and improve their supply chain management skills; Identify and conduct research which adds to the knowledge base of supply chain theory and practice; and Create awareness of the significance of supply chain to business and to the economy	http://cscmp.org/
GS1	GS1, formerly called 'EAN International', adopted the name 'GS1' in 2005.		GS1 is an international not-for-profit association with Member Organisations in over 100 countries. GS1 is dedicated to the design and implementation of global standards and solutions to improve the efficiency and visibility of supply and demand chains globally and across sectors. The GS1 system of standards is the most widely used supply chain standards system in the world. Its Member Organisations handle all enquiries related to GS1 products, solutions and services. GS1 has over 30 years' experience in global standards - see our timeline for more information. GS1 offers a range of standards, services and solutions to fundamentally improve efficiency and visibility of supply and demand chains. GS1 standards are used in multiple sectors and industries.	http://www.gs1.org/
ISM	Institute for Supply Management Tempe, Arizona, USA		Founded in 1915, the Institute for Supply Management™ (ISM) is the largest supply management association in the world as well as one of the most respected. ISM's mission is to lead the supply management profession through its standards of excellence, research, promotional activities, and education. ISM's membership base includes more than 34,000 supply management professionals with a network of domestic and international affiliated associations. ISM is a not-for-profit association that provides opportunities for the promotion of the profession and the expansion of professional skills and knowledge.	http://www.ism.ws/
SCM	Supply Chain Council, Cypress, TX, USA		Supply Chain Council (SCC) is a global nonprofit organization whose methodology, diagnostic, and benchmarking tools help nearly a thousand organizations make dramatic and rapid improvements in supply chain processes. SCC has established the supply chain world's most widely accepted framework for evaluating and comparing supply chain activities and their performance. The framework—the Supply Chain Operations Reference (SCOR®) model—lets organizations quickly determine and compare the performance of supply chain and related operations within their company or against other organizations. SCC continually advances its tools and educates members about how organizations are capitalizing on those tools. By using its tools, SCC members are able to rapidly overcome the first difficult step in supply chain improvement: determining what processes to improve first and how much to improve them. Members also use SCC's reference models to guide the consolidation of internal supply chains (which results in significant cost reductions from eliminating duplicative assets); create standard processes and common information systems across business units (which generates major cost savings, cycle-time and quality improvements); and create a common scorecard by which customers can measure their performance and by which SCC members can measure suppliers' performance (which can lead to major cross-organizational process improvements).	http://supply-chain.org/

GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
XBRL International	Extensible Business Reporting Language		Wikipedia: XBRL International (XII) is the international standards organization which develops and maintains the XBRL Specification. It is a not-for-profit consortium of agencies and companies internationally, working together to build the XBRL language standard, and support and promote XBRL's adoption. As of February 2008, the XII had approximately 650 members. XII is the organization responsible for the XBRL taxonomy that will be used by the U.S. Securities and Exchange Commission (SEC) for US public companies after 2010. XBRL (eXtensible Business Reporting Language) is a freely available, market-driven, open, and global standard for exchanging business information. XBRL allows information modeling and the expression of semantic meaning commonly required in business reporting. XBRL is XML-based. It uses the XML syntax and related XML technologies such as XML Schema, XLink, XPath, and Namespaces to articulate this semantic meaning. One use of XBRL is to define and exchange financial information, such as a financial statement. The XBRL Specification is developed and published by XBRL International, Inc. (XII).	http://www.xbrl.org/
OTHER (HORIZONTAL)				
3GPP	3rd Generation Partnership Project	S1	Published TS 22.368: Service Requirements for Machine-Type Communications (MTC), Stage 1, Release 10	http://www.3gpp.org/ftp/Specs/html-info/22368.htm
3GPP2	3rdGeneration Partnership Project 2	TSG-S - Presented at GSC MSTF meeting in Dallas, May 2011 and the GSC MSTF meeting in Atlanta, September 2011	Published SC.R5003-0 Study for Machine-to-Machine (M2M) Communications for cdma2000 Wireless Networks	http://www.3gpp2.org/Public_html/specs/___S.R0141-0_v1.0_M2M_Study_Report.pdf
ACM	Association for Computing Machinery, New York, NY, USA		ACM, the world's largest educational and scientific computing society, delivers resources that advance computing as a science and a profession. ACM provides the computing field's premier Digital Library and serves its members and the computing profession with leading-edge publications, conferences, and career resources.	www.acm.org
AHCIET	Asociación Hispanoamericana de Centros de Investigación y Empresas de Telecomunicaciones, Madrid, Spain		Ahciet, the Ibero-American association of research centers and telecommunications firms, is an organization that brings together more than 50 carriers in 20 countries in Latin America and Spain. Founded in 1982, its mission is to promote commercial and regulatory cooperation between telecoms carriers in the Ibero-American world, while offering members products and services focused on developing intelligent information management, professional training, and market and business opportunities.	http://www.ahciet.net
AIM	Association for Information and Image Management		AIIM is the community that provides education, research, and best practices to help organizations find, control, and optimize their information.	http://www.aiim.org/
ANCE	Asociation de Normalizacion y Certification (Product Certification body for the electric Sector), Mexico		To ensure compliance with its mandatory standards, Mexico requires a NOM Certification. This Certification is issued by the Dirección General de Normas (DGN) in the Ministry of Economy (Secretaría de Economía). ANCE is a private sector body authorized to grant NOM approval in electric and gas products. For products for which the Mexican government requires certification, this certificate must be issued directly to a Mexican company or	http://www.ance.org.mx
CINTEL	Centro de investigación de las telecomunicaciones (Telecommunications Research Center), Bogota, Colombia		The Telecommunications Research Center – CINTEL - is the Technology Development Center of the industry of Information and Communication Technologies in Colombia, with wide experience and recognition nationally and in Latin America. CINTEL objectives include: the study and analysis of emerging technology trends and their dissemination and implementation; providing spaces open to all sector actors for discussion and analysis of economic, market, social, political and technology issues affecting the industry development; promoting projects of the sector's interest; promoting the use of specialized technical assistance; and providing information on ICT development in the country and the world.	http://www.cintel.org.co/
CITEL	Inter-American Telecommunication Commission		The member states of the Organization of American States (OAS) have undertaken to unite efforts to promote and achieve economic and social development with equity. They have also recognized the vital role of telecommunications as a tool to achieve that objective. They have thus placed special emphasis on the need to consolidate and promote telecommunication modernization and coordination in the region. (OAS Charter, Articles 30 and 41). Established by the OAS General Assembly in 1994, the Inter-American Telecommunication Commission (CITEL) is the region's premier inter-governmental telecommunication advisory body. CITEL takes an agile, dynamic, and effective approach to promoting ongoing exchange of information, knowledge, and best practices on technical, economic, and regulatory issues, thereby contributing to the member states' efforts to facilitate and promote harmonious, comprehensive development of telecommunications in the Americas. Contributing to the region's economic and social development is the objective of all elements of the work of CITEL, whether it is coordinating the rules needed to facilitate infrastructure deployment and telecommunication service delivery; harmonization of the radio frequency spectrum to reduce the cost of providing wireless services; information and communication technology (ICT) training; or helping countries devise telecommunication development strategies.	http://portal.oas.org/Topic/CITEL/tabid/378/Default.aspx?language=en-US
Hart Communication Foundation		Presented at the GSC MSTF meeting in Atlanta, September 2011.	The HART Communication Foundation, an international, not-for-profit membership organization, is the technology owner and standards setting body for the HART Communication Protocol, the global standard for smart instrument communication. Established in 1993, the Foundation is the central authority on the HART Protocol providing worldwide support for application of HART technology and ensuring that the technology is openly available for the benefit of the industry.	www.hartcomm.org

GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
IETF	Internet Engineering Task Force	Constrained RESTful Environments (core) - Invited to GSC MSTF in Dallas, May 2011. Could not attend.	The mission of the IETF is to make the Internet work better by producing high quality, relevant technical documents that influence the way people design, use, and manage the Internet. http://www.ietf.org/about/standards-process.html -- CoRE is providing a framework for resource-oriented applications intended to run on constrained IP networks. A constrained IP network has limited packet sizes, may exhibit a high degree of packet loss, and may have a substantial number of devices that may be powered off at any point in time but periodically "wake up" for brief periods of time. These networks and the nodes within them are characterized by severe limits on throughput, available power, and particularly on the complexity that can be supported with limited code size and limited RAM per node. More generally, we speak of constrained networks whenever at least some of the nodes and networks involved exhibit these characteristics. Low-Power Wireless Personal Area Networks (LoWPANs) are an example of this type of network. Constrained networks can occur as part of home and building automation, energy management, and the Internet of Things.	http://datatracker.ietf.org/wg/core/charter/
IPSO Alliance	Internet Protocol (IP) for smart object communications		The IPSO Alliance is the primary advocate for IP networked devices for use in energy, consumer, healthcare and industrial applications. The IPSO Alliance is a non-profit association of more than 50 members from leading technology, communications and energy companies around the world. IP provides the freedom of ultimate flexibility that will help manage your world whether interfacing with household appliances and integrated home systems for security and lighting or monitoring an entire factory.	www.ipso-alliance.org
MIG	MEMS Industry Group, Pittsburgh, PA	Invited to GSC MSTF meeting in Atlanta - Could not attend	MEMS Industry Group® (MIG) is the trade association advancing MEMS across global markets. MIG'S APPROACH: Enable the exchange of non-proprietary ; information among members; Provide access to reliable industry data that furthers the development of MEMS technology; Promote greater commercial development and use of MEMS and MEMS-enabled devices.	www.memindustrygroup.org
NFC Forum	Near Field Communication		The Near Field Communication Forum was formed to advance the use of Near Field Communication technology by developing specifications, ensuring interoperability among devices and services, and educating the market about NFC technology. Formed in 2004, the Forum now has 150 members. Manufacturers, applications developers, financial services institutions, and more all work together to promote the use of NFC technology in consumer electronics, mobile devices, and PCs. The goals of the NFC Forum are to: Develop standards-based Near Field Communication specifications that define a modular architecture and interoperability parameters for NFC devices and protocols; Encourage the development of products using NFC Forum specifications; Work to ensure that products claiming NFC capabilities comply with NFC Forum specifications; Educate consumers and enterprises globally about NFC; The NFC Forum provides a highly stable framework for extensive application development, seamless interoperable solutions, and security for NFC-enabled transactions. The NFC Forum has organized the efforts of dozens of member organizations by creating Committees and Working Groups.	http://www.nfc-forum.org/home/
ngConnect	Next Generation Connect Program		The next generation of high-bandwidth services arrives a lot faster when you pool the strengths and resources of global leaders and innovators in infrastructure, devices, applications and content. That's the idea driving the ng Connect Program.	www.ngconnect.org
NYCE	Normalización y Certificación Electrónica (Electronic Standardization and Certification), Mexico		Mission: Give companies of electronic, telecommunications and information Technology, as well as those related sectors, a regulatory framework to enable them to market their products and services and increase its competitiveness according to the internationally accepted rules. Vision: Be a Leader that takes Mexico into globally harmonized schemes of standardization and conformity assessment, extending its field of action to the other areas of the technological development.	http://www.nyce.org.mx
OASIS	Organization for the Advancement of Structured Information Standards	Open Building Information Exchange Technical Committee	The purpose of oBIX (open Building Information Exchange) is to enable the mechanical and electrical control systems in buildings to communicate with enterprise applications, and to provide a platform for developing new classes of applications that integrate control systems with other enterprise functions. Enterprise functions include processes such as Human Resources, Finance, Customer Relationship Management (CRM), and Manufacturing. OASIS released a draft specification in 2010.	http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=obix#overview
ODVA	Open DeviceNet Vendors Association	Invited to GSC MSTF meeting in Atlanta - Could not attend	ODVA's mission is to advance open, interoperable information and communication technologies in industrial automation. ODVA recognizes its media independent network protocol, the Common Industrial Protocol or "CIP" – and the network adaptations of CIP – EtherNet/IP, DeviceNet, CompoNet and ControlNet – as its core technology and the primary common interest of its membership. ODVA's vision is to contribute to the sustainability and prosperity of the global community by transforming the model for information and communication technology in the industrial ecosystem.	www.odva.org
OGC	Open Geospatial Consortium	Invited to GSC MSTF meeting in Atlanta - Could not attend	OGC(R) standards are technical documents that detail interfaces or encodings. Software developers use these documents to build open interfaces and encodings into their products and services. These standards are the main "products" of the Open Geospatial Consortium and have been developed by the membership to address specific interoperability challenges. Ideally, when OGC standards are implemented in products or online services by two different software engineers working independently, the resulting components plug and play, that is, they work together without further debugging. www.opengeospatial.org/standards/orm	www.opengeospatial.org/standards

GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
ONVIF	Open Network Video Interface Forum		ONVIF is an open industry forum for the development of a global standard for the interface of IP-based physical security products. ONVIF is committed to the adoption of IP in the security market. The ONVIF specification will ensure interoperability between products regardless of manufacturer. The cornerstones of ONVIF are: Standardization of communication between IP-based physical security; Interoperability between IP-based physical security products regardless of manufacturer; and Open to all companies and organizations.	www.onvif.org
OSGi	Open Services Gateway Initiative	Invited to GSC MSTF meeting in Atlanta. Did not attend.	The OSGi Alliance is a worldwide consortium of technology innovators that advances a proven and mature process to create open specifications that enable the modular assembly of software built with Java technology. Modularity reduces software complexity; OSGi is the best model to modularize Java. The OSGi Service Platform facilitates the componentization of software modules and applications and assures interoperability of applications and services over a variety of networked devices. Building systems from in-house and off-the-shelf OSGi modules increases development productivity and makes them much easier to modify and evolve. The OSGi Service Platform is delivered in many Fortune Global 100 company products and services and in diverse markets including enterprise, mobile, home, telematics and consumer. The alliance provides specifications, reference implementations, test suites and certification to foster a valuable cross-industry ecosystem. Member companies collaborate within an egalitarian, equitable and transparent environment and promote adoption of OSGi technology through business benefits, user experiences and forums. The alliance also promotes collaboration among important ecosystem players within and outside the OSGi Alliance in order to provide the market with innovative solutions based on open standards	http://www.osgi.org
PUCC	P2P (Peer-to-Peer) Universal Computing Consortium (PUCC)		PUCC is an International Cross-Industry Member Consortium. PUCC is a unique cross industry consortium for open P2P/Overlay network standards. Member organizations/partners located all over the world and involved in many different fields join PUCC to participate in a vendor-neutral forum for the creation of an open overlay network standards. PUCC operations are supported by a combination of member dues and public grants. The board elected from our members, administrates our operations.	http://www.pucc.jp/
SD Card	San Ramon, CA, USA		The SD Association is a global ecosystem of companies setting industry-leading memory card standards that simplify the use and extend the life of consumer electronics, including mobile phones, for millions of people every day. The Association does not manufacture, market or sell any product; it exists to create standards and then promote the adoption, advancement and use of SD standards used by competing product manufacturers that make interoperable memory cards and devices.	https://www.sdcard.org/home/
SIM Alliance	London, UK		For over a decade the SIMalliance has been supporting the creation, deployment and management of secure mobile services across the globe. A non-profit trade association, the SIMalliance is working in partnership with members and the wider mobile community to anticipate and address the security, identity and mobility challenges of an increasingly converged internet. SIMalliance members are Datang, Eastcompeace, Gemalto, Giesecke & Devrient, Incard, Inkript, Keht, Oberthur Technologies, Morpho, Valid, Watchdata & Wuhan Tianyu. SIMalliance Strategic Partners are Comprion, FCI and Movenda.	www.simalliance.org
TCG	Trusting Computing Group, Beaverton, OR, USA		The Trusted Computing Group (TCG) is an international industry standards group. The TCG develops specifications amongst its members. Upon completion, the TCG publishes the specifications for use and implementation by the industry. The TCG publicizes the specifications and uses membership implementations as examples of the use of TCG Technology. The TCG is organized into a work group model whereby experts from each technology category can work together to develop the specifications. This fosters a neutral environment where competitors and collaborators can develop industry best capabilities that are vendor neutral and interoperable.	http://www.trustedcomputinggroup.org/
W3C	World Wide Web Consortium		W3C standards define an Open Web Platform for application development that has the unprecedented potential to enable developers to build rich interactive experiences, powered by vast data stores, that are available on any device. Although the boundaries of the platform continue to evolve, industry leaders speak nearly in unison about how HTML5 will be the cornerstone for this platform. But the full strength of the platform relies on many more technologies that W3C and its partners are creating, including CSS, SVG, WOFF, the Semantic Web stack, XML, and a variety of APIs.	www.w3.org
WAVE2M	fka Wavenis Open Standard Alliance	All organization focused on M2M connectivity platform. Presented at GSC MSTF meeting in Dallas, May 2011	WAVE2M is an independent community of companies that have agreed to adopt the WAVE2 open Standard; WAVE2M are a global organisation seeking to promote the use of a standard across all continents; WAVE2M are a community and network with regular opportunities to meet and exchange technology and provide support for one another; WAVE2M is an educator – providing support and advice to members of the community; WAVE2M are responsible for lobbying for standardisation within the industry; WAVE2M provide support for members seeking to develop technology using the WAVE2M standard.	http://www.wavenis-osa.org/

GSC MSTF PRELIMINARY LIST OF GLOBAL ORGANIZATIONS, GROUPS, ASSOCIATIONS, FORA, AND OTHER ENTITIES WITH A DIRECT OR INDIRECT INTEREST IN MACHINE-TO-MACHINE (M2M) STANDARDIZATION

ORGANIZATION	NAME	SUB-GROUP	DESCRIPTION OF ACTIVITY	REFERENCE LINK
Zigbee Alliance		Presented at the GSC MSTF meeting in Atlanta, September 2011	Leveraging its global perspective, Zigbee members together to develop standards that ultimately deliver greater freedom and flexibility for a smarter, more sustainable world. As a result of this focus, ZigBee: Provides green, low-power and open global wireless networking standards focused on monitoring, control and sensor applications; Allows products to run on harvested energy or batteries for years with its low-power wireless standards, making greener lifestyles possible; Uniquely connects dramatically different types of devices into a single network, giving you unprecedented control; Offers a variety of intelligent features designed to ensure devices communicate in any environment, and around the world; and Is simple to set up and can easily grow to meet your needs and deliver years of maintenance-free use. http://www.zigbee.org/Standards/Overview.aspx	www.zigbee.org
GSC MSTF Dallas, TX, USA Meeting Presentations: http://ftp.tiaonline.org/gsc/GSC16/MSTF/20110518_DallasTX/ GSC MSTF Atlanta, GA, USA Meeting Presentations: <u>Conference</u> http://ftp.tiaonline.org/gsc/GSC16/MSTF/20110920-21_AtlantaGA/Conference_Presentations/ <u>Roundtable</u> http://ftp.tiaonline.org/gsc/GSC16/MSTF/20110920-21_AtlantaGA/Roundtable_Presentations/				