



Overview of the U.S. Standards and Conformance Systems







Overview of the U.S. Standards and Conformance Systems

Premise

The international language of commerce is standards.

Source:

U.S. Secretary of Commerce – Donald Evans

Report on Standards and Competitiveness – Removing Standards-Related Trade Barriers Through Effective Collaboration May 18, 2004



What is a Standard?



In General . . . A Standard is a Document

Standard

Document established by consensus and approved by recognized body that provides for common and repeated use, rules, guidelines or characteristics for activities ...

ISO/IEC Guide 2:2004

Standardization and related activities – General vocabulary



In Specific . . . WTO/TBT Definitions

- Standard Document that provides, for common and repeated use, rules, guidelines or characteristics for products or related processes and production methods, with which compliance is not mandatory. It may also include or deal exclusively with terminology, symbols, packaging, marking or labelling requirements as they apply to a product, process or production method.
- <u>Technical Regulations</u> Document which lays down product characteristics or their related processes and production methods, including the applicable administrative provisions, with which compliance is mandatory.
- <u>Conformity Assessment (Conformance)</u> Any procedure used, directly or indirectly, to determine that relevant requirements in technical regulations or standards are fulfilled. (e.g., testing, certification)

Informally any or all of these areas may be referred to as "Standards," "Standardization," "Standards and Conformance," or "SCATR."



Most standards are developed and used on a voluntary basis

- Most standards are developed by technical committees formed within the private sector
- Government and industry representatives participate as "equal partners" in many of these technical committees
- Costs are borne by the participants



Voluntary vs. Mandatory

- "Voluntary Standards" become mandatory only when:
 - They are incorporated into contracts; or
 - They are referenced or adopted by government agencies as part of a regulation to protect public health, safety, and the environment.



The U.S. Approach to Standards and Conformance



The U.S. Standardization Model A Unique Approach Among Many in the World

- resembles the nation's governmental (federal) structure
- resembles the nation's economic structure
 - > sector-based and driven by market needs
- relies strongly on diversity and decentralization



Structure of the U.S. Standardization System

- American National Standards Institute (ANSI)
- Standards Developing Organizations (SDOs)
- Conformity Assessment Bodies (CABs)
- National Institute of Standards & Technology (NIST) –
 U.S. Department of Commerce



Structure of the U.S. Standardization System

ANSI – Coordinator of the Private Sector led System

- Responsible for coordinating U.S. private sector participation in the U.S. private sector led Standards and Conformance systems
- > National Standards Body for the United States Represent the U.S. in international and regional standards fora
- > Accreditation Body for private sector programs Represent the U.S. in international and regional accreditation fora
- > Private sector, non-profit, membership organization
- Supported by membership fees, sale of publications, funded programs, accreditation programs and periodic government grants

Standards Developing Organizations (SDOs)

- > Responsible for the development of standards for the specific technical sectors
- Some, but not all, accredited by ANSI
- When accredited, can administer U.S. mirror committees to ISO and IEC
- > Private trade and professional organizations, often non-profit
- Business models vary by sector

Conformity Assessment Bodies (CABs)

- > Testing Laboratories, Certification Bodies, Inspection Bodies
- > Responsible for demonstrating compliance with standards (including those referenced by mandatory technical regulations)
- Some, but not all, accredited by ANSI
- Business models vary by sector (non-profit, for-profit, public sector, etc.)

NIST – National Institute of Standards & Technology – U.S. Department of Commerce

- Coordinates the activities of Federal agencies in the U.S. private sector led Standards & Conformance Systems
- National Metrology Body for the United States Represents the U.S. in international and regional metrology fora
- > Accreditation Body for public sector programs Represent the U.S. in international and regional accreditation fora
- > U.S. government public sector body



The U.S. Standards System: Who's Who

	Coordinates U.S. System and policy development	Coordinates USG use & participation	Participates in U.S. policy development	Provides technical input for standards development	Independently runs standards development activities*	Legal metrology WTO – TBT Inquiry Point
ANSI	X		X			
Standards Developers			X		X	
Companies			X	X		
Government Agencies (regulators and procurement)			X	X		
NIST		Х	X	X		X



The U.S. System: A Toolbox

- Rather than mandating a "one-size fits all" solution, the U.S. system allows players to find the tools and solutions that best fit their needs.
- Approaches, philosophies and positions often vary across industry sectors. Such variations are seen as beneficial and are promoted in the "U.S. Standards Strategy."

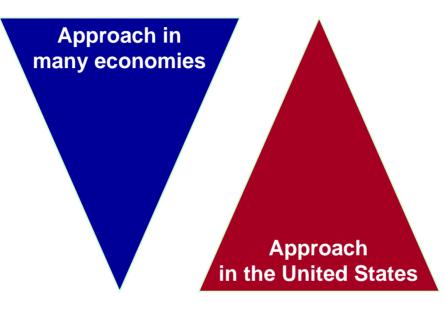
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Two primary approaches to standards-setting

Top Down

Standards bodies drive standardization activities



Bottom Up

Standards users drive standardization activities















































The U.S. System: Comparisons

Compared with many other economies, the U.S. standards system...

- Emphasizes private-sector solutions to ensure quality and protect Environment, Health and Safety (EHS)
- Places a high degree of confidence in private-sector conformity assessment activities for regulatory and non-regulatory functions
- Provides a strong voice and greater authority to standards users and individual stakeholders
- Relies on judicial system, brand-name recognition, open media and corporate social responsibility
- Is highly decentralized . . . and highly robust



The U.S. System: Benefits

- Speed and flexibility solutions are delivered to market and implemented quickly
- <u>Participation</u> able to accommodate input from a wide spectrum of stakeholders
- <u>Efficiency</u> prevents unnecessary or costly regulation and allows multiple approaches to ensure health, safety, and quality

The U.S. approach facilitates economic development and innovation



The U.S. System: Choice by Sector

Focus in the U.S. System is on

Use and Choice for standards users

- determined by each sector -



Standards Used in the U.S. different tools for different needs



Nation	al
Partici	pation

Direct Participation

Consortia

- Treaty Organizations
- Non-Treaty Organizations

Examples

ISO, IEC, ITU, CODEX, etc.

Features

Formality in process
One country, one vote

- Nationally Accepted
- Internationally Accepted

Examples

ASTM International, ASME, SAE, etc.

Features

Direct link between technical experts and SDOs Many are accredited by ANSI

Examples

IGRS, W3C, etc.

Features

Wide range of processes and procedures allows flexibility



The ANSI Federation and its Roles & Responsibilities



What is ANSI?

ANSI is the "Umbrella Organization" for and coordinator of the U.S. voluntary standards and conformity assessment system



Duties and responsibilities include:

- Develop and promote U.S. policies and positions
- Accredit SDOs and approve American National Standards (ANS)
- Accredit certifiers of products, personnel and management systems
- Provide standards and compliance solutions domestically and internationally



American National Standards Institute (ANSI)

A Federation of members representing 125,000 companies and organizations and 3.5 million professionals worldwide:

- Academia
- Individuals
- Government
- Manufacturing
- Trade Associations

- Professional Societies
- Service Organizations
- Standards Developers
- Consumer and Labor Interests
- and many more

ANSI is not a government agency or a standards developer



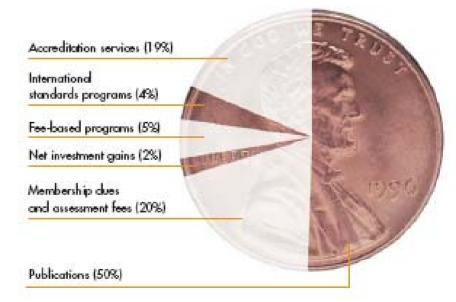
ANSI: A Private-Sector Organization

ANSI is an independent not-for-profit (501(c)3) organization. ANSI does not receive government oversight or subsidization.

Advantages:

- Public and private sectors are coequal partners
- Impartiality
- Market relevance







ANSI in Numbers

Revenue

\$25 million annual budget						
 Development of Standards 	0% (\$0.0m)					
Sale of Publications	50% (\$12.5m)					
 Membership Dues and Fees 	20% (\$5.0m)					
 Accreditation Services 	19% (\$4.8m)					
• Other	11% (\$2.7m)					
 Est. total public sector portion of all of the above 	10% (\$2.5m)					
ISO/IEC Annual Dues	\$2.1 million					
Technical Committees of ANSI	0					
Number of Standard Developing Organizations (SDOs) accredited by ANSI						
Technical Committees of ANSI's SDO members	565					
Number ANSI Standards Panels	5					
Total number of American National Standards published as of 12/31/05	9,915					
Estimated number of voluntary standards published in the U.S.	100,000					
Number of voluntary standards referenced in U.S. laws & regulations	over 6,000					
Number of company interests represented by ANSI	125,000					
Number of professionals represented by ANSI	3.5 million					
Year ANSI was established	1918					

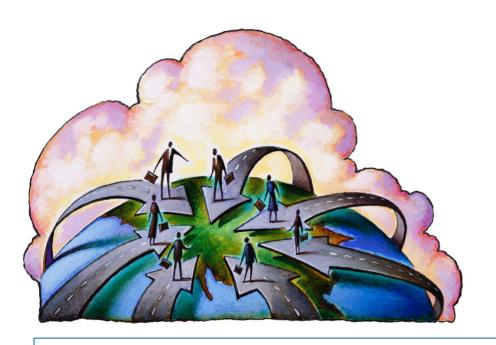


ANSI's Roles and Responsibilities Domestically

- Accreditation. ANSI Accredits:
 - U.S. Standards Developing Organizations (SDOs)
 - Certifiers of Products
 - Certifiers of Personnel
 - Certifiers of Quality and Environmental Management Systems (QMS/EMS) together with ASQ under the ANSI-ASQ National Accreditation Board (ANAB)
- Approves American National Standards (ANSs)
- Ensures integrity of the U.S. voluntary consensus standards system
- Protects the public's participation in standardization activities
- Offers a <u>neutral</u> policy forum
- Provides a central resource for information and education on standards, conformity assessment and related activities



American National Standards Institute (ANSI)



- Facilitates U.S.
 standardization
 policy development
- Develops and promotes global standardization policies

ANSI is the bridge for standardization

- between industry and government
 - among and within industries



Examples of U.S. Standards Organizations Accredited by ANSI



Approximately 200 Others



ANSI Accredited Standards Developing Organizations (SDOs)

3-A	ASC X9	ASA	ACCA	AMCA	ARI	ATIS	АА	ААМА	AAMVA	АВМА	ABYC	АВМА	ACC	ACI	ADA	AFPA	AGA
AGMA	AH&LA	AIHA	AIAA	AISC	AITC	AISI	ALI	ANS	ANLA	API	ASNT	ASQ	ASAE	ASB	ASCE	ASHRAE	ASME
ASSE	AWWA	AWS	AWEA	АТА	ACMI	ASIS	AIIM	AMT	NPES	AAMI	ACDE	АНАМ	ARMA	ASTM	AIM	AGRSS	ALI
внма	BICSI	вома	BIFMA	ССРА	CSAA	САРА	CLSI	СЕРМІ	САР	СРА	CAGI	CGA	CAM-I	CEA	CSPA	СЕМА	СТІ
CSA	DISA	DASMA	EIMA	EASA	EIA	ESTA	EIA	EOS/ ESD	FCI	FM	GTEEMC	GICC	GEIA	GEI	HPVA	нівсс	HL7
HPS	HFES	ні	IESNA	ITSDF	IEEE	IEST	IIE	INMM	12AMA	IAF	IAAMC	IAPMO	ICPA	ICC	ITI	NETA	13A
IIAR	ISEA	ISA	ISANTA	IWCA	IPC	ISA	JCSEE	ксма	LIA	MSS	мні	MBC	NACE	NAHBRC	NAAMM	NBBPVI	NBFAA
NCMA	NCSL	NCPDP	NECA	NEMA	NFPA	NGA	NGCMA	NISO	NIMS	NIST/ ITL	NPPC	NSC	NSAA	NADCA	NERC	NAESB	NALFA
NASPO	NSF	NIRMA	OLA	ОРСС	OEOSC	OPEI	РММІ	PSA	PCA	PWMA	PMI	RPTIA	RSTC	RVIA	RESNA	RIA	RMA
SIA	SSFI	SIA	SMA	SPRI	SBS	SAE	SCTE	SMPTE	SVIA	SAAMI	SES	SDI	SJI	SSCI	TIA	тсата	CI
TMS	SPI	TCA	TOY-TIA	TAPS	TCIA	TPI	USDA	USPRO	UL	UAMA	UAMA	ucc	VITA	WQA	WDMA	WCMA	WMMA

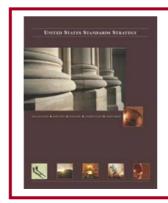


Standards and Conformity Assessment Bodies of the U.S. (Accreditation of Laboratories) (Accreditation of Certifiers) (Standardization) **NSBs** Other iSDO (Metrology) Recognition (via ISO/IEC 17011) PAC COPANT APLMF Others APMP ILAC ISO IEC **APLAC** PASC OIML ANSI Accreditation Standardization (Accreditation of Laboratories) DOC NACLA Policy Technical ITA TA (Accreditation ASQ (Accreditation of Certifiers) CAPC NPC of SDOs) USNC IEC TAGs Standards Liaison NIST **ACLASS** Others AIHA FQS-I A2LA Laboratories / USNC < MAS Metrology Board committees & councils Members MAC SSD **US&FCS** ISO/IEC ANSI Essentia **NVCASE** ISO/IEC ISO/IEC 17024 worldwide including 4 **NVLAP** Accredited ANAB ANSI SDOs with **US Private &** Regional Standards ANSI SSOs & Laboratories accredited accredited accredited ANSI Government Attachés Consortia NCSCI QMS/EMS Product accredited Personnel without ANSI Sectors: Certifiers Certifiers Certifiers procedures accreditation **Organizations** Government, Companies, US Private Trade Inquiry point Associations Sector ITAC16 QMS/EMS Consumers. Certified **ANSs** Tested WTO Certified Products Products Certified (American Non-ANS Educational Product/ National (Processes Personnel Standards (Processes Institutions, **TBT** Service Standards) Services) Services) Providers Individuals, Others **SPS** (Standardization-SPS) FAO Inquiry point **ICSP** CODEX (Standardization-Telecom) **USDA** (Members) **IPPC** APEC-TE FAS ITU Sector Members FSIS USCO OIE **TPSC APHIS** SC-S&TB ITAC ACICIE Legend **Executive Office Cabinet Departments Other Agencies** Of the President Regional FDA (International) USTR USPS Government DOE HHS DHS OMB CPSC DOL GSA log State Non-Government Program / Body

ANSI promotes alignment with Internationally Recognized Principles for Standards Development

ANSI Essential Requirements for the development of American National Standards

WTO TBT Committee Second Triennial Review – Annex 4



openness
transparency
due process

consensus

Referenced in the *United*States Standards Strategy



The Role of Government

- In the U.S., no single government agency has control over standards
- National Institute of Standards & Technology (NIST) –
 U.S. Department of Commerce
 - Coordinates the standards activities of Federal agencies
 - Sets Legal Metrology Standards
 - Accredits Laboratories for public sector programs
- Each government agency determines which standards meet its needs



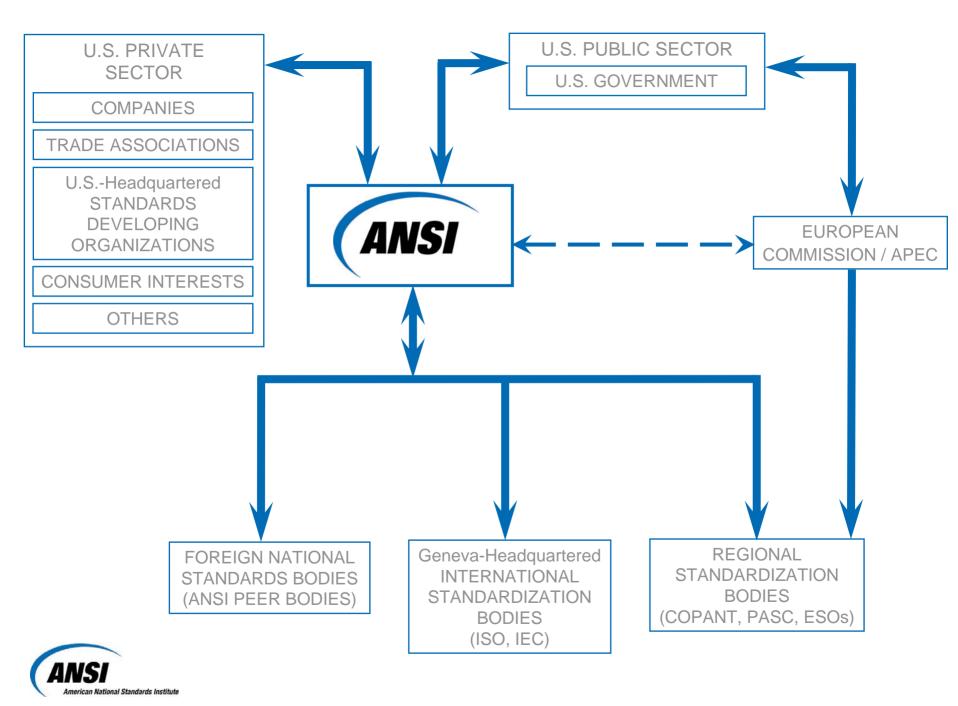
The Role of Government Agencies

- OMB Circular A-119
- The National Technology Transfer and Advancement Act (NTTAA, Public Law 104-113)
 - Before regulating, each government agency is required to seek and consider using existing private sector standards that are appropriate for its needs
 - If so, the agency will use (i.e. reference) the private sector standard
 - If not, the agency is expected to work with the private sector to develop the needed standards, and to reference them in its regulations
 - Agencies creating their own standards must report to the Administration and Congress on an annual basis the justifications for doing so
 - NIST has the legal responsibility of implementing the NTTAA



ANSI's Roles and Responsibilities Internationally, Regionally, and Bilaterally





ANSI International Interaction (Standardization)

 ANSI serves as the official U.S. member and sets policy for U.S. participation in the



- International Organization for Standardization (ISO)
- International Electrotechnical Commission (IEC)



- U.S. technical positions for ISO and IEC activities are developed by Technical Advisory Groups (US TAGs)
 - Allows all affected parties (including U.S. government) to participate in standardization activities

U.S. ANSI & USTAGS ISO / IEC

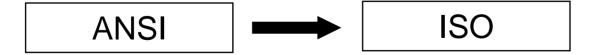


ANSI's Role in ISO



ANSI Participation in ISO

- ISO Geneva, Switzerland
- ANSI one of
 - 5 permanent members to the Council of 18
 - 4 permanent members to the Technical Management Board of 12
- ANSI and its members
 - participate in 79% of Technical Committees
 - administer 18% of TC Secretariats



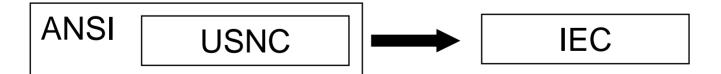


ANSI's Role in IEC



ANSI Participation in IEC

- IEC Geneva, Switzerland
- U.S. National Committee to the IEC (USNC)
 - A board level committee of ANSI
 - one of 5 permanent members of the council board of 15
 - participates in 89% of Technical Committees
 - assigned Secretariats for 16% of TC Secretariats





ANSI Regional Interaction (Standardization)

 ANSI serves as the official U.S. member of two regional bodies



- Pan American Standards Commission (COPANT)
- Pacific Area Standards Congress (PASC)



 The Institute has a dialogue with representatives of the European Standards Organizations (ESOs) (CEN, CENELEC and ETSI) and the European Commission





ANSI Regional Interaction (Asia Pacific)

The United States is highly engaged in Asia Pacific Standards and conformance activities:



 ANSI is the official U.S. member of the Pacific Area Standards Congress (PASC) and the Pacific Accreditation Cooperation (PAC)



The U.S. is also represented in other Asia Pacific Specialist Regional Bodies (SRBs) . . .





Pacific Area Standards Congress (PASC) Members



- Australia (SAI)
- Brunei Darussalam (CPRU)
- Canada (SCC)
- Chile (INN 2008)
- China (SAC)
- Colombia (ICONTEC)
- Fiji (FTSQCO)
- Hong Kong China (ITCHSKAR)
- Indonesia (BSN)
- Japan (JISC)
- Republic of Korea (KATS)
- Malaysia (DSM)

- Mexico (DGN)
- Mongolia (MASM)
- New Zealand (SNZ)
- Papua New Guinea (NISIT)
- Peru (INDECOPI)
- Philippines (BPS)
- Russia (GOST-R)
- Singapore (SPRING SG)
- South Africa (SABS)
- Thailand (TISI)
- USA (ANSI)
- Vietnam (STAMEQ/TCVN)

ASEAN / ACCSQ economies (in blue)

■ (Note: Cambodia (ISC), Laos (DISM), Myanmar (MSTRD) not in APEC / PASC)



ANSI Regional Interaction (Americas)

The United States is engaged in standards and conformance activities in the Americas:

- ANSI is the official U.S. member of the Pan American Standards Commission (COPANT) and a full member of the InterAmerican Accreditation Cooperation (IAAC)
- The U.S. is also represented in the InterAmerican Metrology System (SIM) by NIST
- The three Specialist Regional Bodies (SRBs) of the Americas are:
 - Pan American Standards Commission (COPANT)
 - > InterAmerican Accreditation Cooperation (IAAC)
 - InterAmerican Metrology System (SIM)
- The SRBs provide specialized support in the areas of standardization, accreditation and metrology in the Americas
- Many ANSI members and accredited SDOs currently engaged in specific technical cooperation activities with partners in the region









Pan American Standards Commission (COPANT) - Members



- Argentina (IRAM)
- Barbados (BNSI)
- Bolivia (IBNORCA)
- Brazil (ABNT)
- Canada (SCC)
- Colombia (ICONTEC)
- Costa Rica (INTECO)
- Cuba (NC)
- Chile (INN)
- Dominican Republic (DIGENOR)
- Ecuador (INEN)
- El Salvador (CONACYT)
- Guatemala (COGUANOR)

- Grenada (GDBS)
- Guyana (GNBS)
- Honduras (COHCIT)
- Jamaica (JBS)
- Mexico (DGN)
- Nicaragua (MIFIC)
- Panama (COPANIT)
- Paraguay (INTN)
- Peru (INDECOPI)
- Saint Lucia (SLBS)
- Trinidad & Tobago (TTBS)
- USA (ANSI)
- Uruguay (UNIT)
- Venezuela (FONDONORMA)



European Standards Organizations (ESOs)



- CEN, CENELEC, and ETSI are the European counterparts to the ISO, IEC, and ITU-T and are known collectively as the European Standards Organizations (ESOs)
- The ESO's are composed of the national standards bodies of Europe
- **CEN** the European Committee for Standardization, produces European standards in all areas except for electrotechnical and telecommunications
- CENELEC the European Committee for Electrotechnical Standardization, works to produce a single set of harmonized electrotechnical standards in Europe
- **ETSI** the European Telecommunications Standards Institute, determines and produces European telecommunications standards
- ANSI interacts with the ESOs in various ways, including holding 19 ANSI-ESO dialogues since 1989. In 2005, ANSI also began holding delegation meetings with the ESO's Joint Presidents Group (JPG).



European Standards Organizations (ESOs)



ANSI – ESO Interaction

- Ongoing interaction
- 20 dialogues since 1989
- February 2007, EC-CEN Biofuels Conference
- November 7, 2007, ANSI meeting with ESO Joint Presidents Group (JPG) and European Commission – Brussels
- February 6-7, 2008, CEN/CENELEC/ETSI/ANSI Interoperability
 Conference Warsaw, Poland



Middle East and Africa

- Outside of ISO, IEC and the above mentioned regional groups, ANSI also interfaces with representatives of regional standards organizations from the Middle East and Africa
- In 2005, ANSI participated in an ASTM International Open House for standards leaders from the Middle East and Africa. The following countries and organizations were represented:
 - Gulf Standardization Organization (GSO) for the GCC (Gulf Cooperation Council - an economic and political policycoordinating forum for the six member states Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, and the UAE)
 - Arab Industrial Development and Mining Organization (AIDMO)
 - Bahrain (BSMD)
 - India (BIS)
 - Iraq (COSQC)

- Israel (SII)
- Lebanon (LIBNOR)
- Jordan (JISM)
- Kuwait (PAI)
- Morocco (SNIMA)
- Oman (DGSM)
- Pakistan (PSQCA)
- Palestine (PSI)
- Qatar (QGOSM)
- Saudi Arabia (SASO)
- Tunisia (INORPI)
- UAE (ESMA)
- Yemen (YSMO)



Middle East and Africa

- In 2007, ANSI participated in an ASTM International Open House for standards leaders from Sub-Saharan Africa. The following countries and organizations were represented:
- Botswana (BOBS)
- Congo (OCC)
- QUAE (Ethiopia)
- Ghana (GSB)
- Lesotho (LSQAS)
- Malawi (MBS)
- Mauritius (MSB)

- Nigeria (SON)
- Rwanda (RBS)
- South Africa (SABS)
- Swaziland (SQAS)
- Zambia (ZABS)
- Zimbabwe (SAZ)

- ANSI also works with:
 - ARSO the African Organization for Standardization, and
 - SADCSTAN The Southern African Development (SADC) Cooperation in Standardization
 - via SABS which is the designated coordinator for African standardization from the Pacific Area Standards Congress



The United States Standards Strategy (USSS)



USSS - Highlights

- Strategy contains 12 initiatives focused on:
 - Participation of government
 - Importance of health, safety and the environment
 - Responsiveness to consumer interests, balance
 - Globally accepted principles for standards development
 - Government use of standards to meet regulatory needs
 - Preventing the use of standards as technical barriers to trade



USSS - Highlights

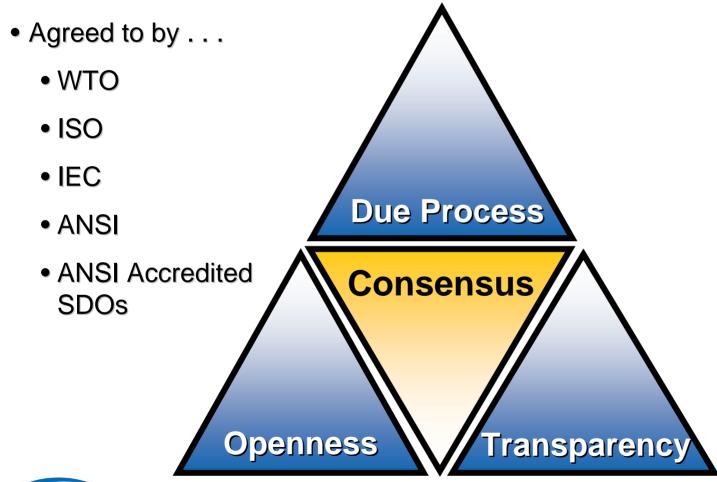
- 12 initiatives (continued):
 - Outreach to promote consensus-based, market-driven processes – in the U.S. and internationally
 - Efficiency in development and distribution of standards
 - Cooperation and coherence within the U.S. system
 - Standards education as a high priority
 - Stable funding models for the U.S. system
 - Emerging national priorities and converging/cross-cutting technologies



Globalization & The Growing Impact of International Standards on Trade



Internationally Accepted Standards and Conformity Assessment Principles







Roughly 80 percent of global merchandise trade is affected by standards and by regulations that embody standards.

Source:

National Institute of Standards and Technology

Testimony before the U.S. House of Representatives –

Committee on Science, Subcommittee on Technology

September 13, 2000



Objective One Standard: One Test: One Acceptance (1:1:1)



In a global marketplace, the objective of the standardization process must be a single, technically valid and globally relevant standard with a single test of conformance to that standard.

This will allow products to be distributed for worldwide commerce without change or modification.

One Standard – One Test – One Acceptance



Global Impact to Trade – Trends



- Increasing use and adoption of international standards
- Increasing implementation of governmental regulations that reference voluntary consensus standards and conformity assessment programs
- Increasing participation in international and regional standards development and conformity assessment activities by all stakeholders (government, industry, local standards developers, and consumers)
- Increasing standards development in accordance with the WTO-TBT criteria: Transparency, Openness, Consensus, Due Process
- Standards and conformity assessment programs increasingly globally relevant, responsive to real world needs, and performance-based



Conformity Assessment



What is Conformity Assessment?

Conformity Assessment

Demonstration that specified requirements relating to a product, process, system, person or body **are fulfilled**

ISO/IEC 17000:2004

Conformity Assessment – Vocabulary and general principles



Conformity Assessment

- Facilitates trade globally and eliminate barriers
- Builds <u>confidence</u> and reduces risk for customers
- Offers a range of tools to assist in procurement
 - Suppliers Declaration of Conformity (SDoC) to
 - Third-party testing and certification



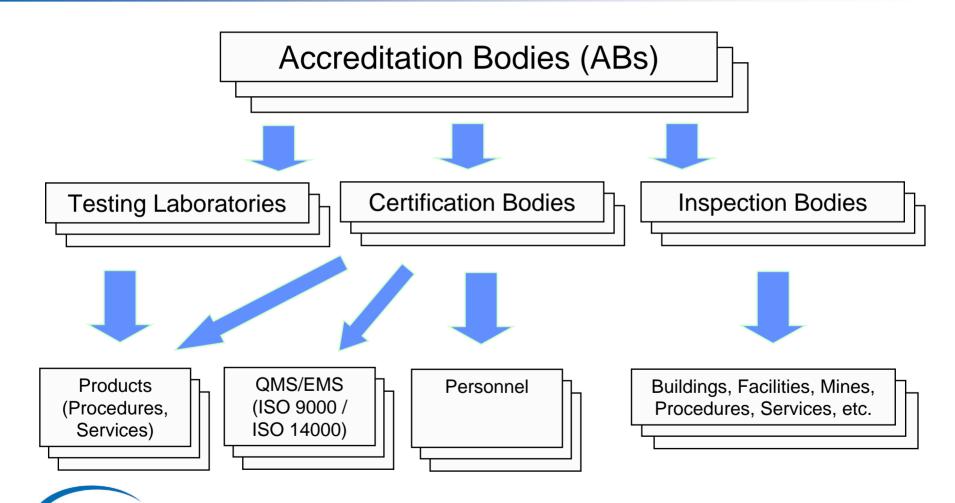
Components of Conformity Assessment

- Metrology and measurement capabilities
- Sampling
- Testing
- Inspection
- Declaration of conformity
- Certification (products, services, personnel)
- Management system registration/certification
- Accreditation
- Enforcement



Conformity Assessment System

American National Standards Institute

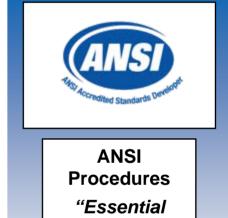


Accreditation Programs

Conformity Assessment (ISO/IEC 17011)

Various **Various Programs Programs** ANSI Accredited Program ANSI Accredited Program PERSONNEL CERTIFICATION PRODUCT CERTIFICATION ISO/IEC ISO/IEC ISO/IEC ISO/IEC ISO/IEC 17025 17020 65 17021 17024 **Test** Inspection **Product** QMS/EMS **Personnel Certifiers** Labs **Bodies Certifiers Certifiers**

Standards



Standards Developing Organizations and U.S. TAGs

Requirements"



Key Characteristics of U.S. CA System

- In the United States, conformity assessment activities are not centrally organized
- Activities are a mix of government (regulations) and private sector (market activities)
- Approaches vary among sectors



Conformity Assessment - Summary

- U.S. System is complex and uses private-public sector partnership that insures industry sector input and supported by Federal legislation
- Conformity Assessment system, like Standards system, evolved in decentralized manner
- Conformity Assessment ranges from Self Declaration of Conformity (SDoC) to 3rd-party review (accreditation)
- Is generally effective, open, and transparent
- Designed to provide more confidence in the quality of the product, service, or system by consumers, the public, and employers





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