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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**IEC SCHEME FOR CERTIFICATION TO STANDARDS FOR SAFETY OF
ELECTRICAL EQUIPMENT FOR EXPLOSIVE ATMOSPHERES (IECEx
SCHEME)**

Members of the IECEx Management Committee, ExMC

Title: Presentation by Mr Ron Reimer, Vice President, IEC

The following document is a copy of the presentation given by Mr Ron Reimer at the IECEx Meeting held in Seoul October 2002.

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия



Complementary Services to Industry



What is IEC?

Founded in 1906, the IEC is working to achieve global recognition as the preferred provider of standards and conformity assessment related services needed to facilitate international trade in the fields of electricity, electronics and associated technologies.

The IEC aims to be the world-wide focal point in its field, the global platform and one-stop shop of choice, and the easiest for all markets to do business with by providing international consensus-based standards, industry-based technical agreements and global conformity assessment schemes that maximize value in trade and minimize costs to trade - - all covering electrotechnical products, systems, interfaces, technologies and applications.

IEC membership consists of more than 60 member countries which include all of the world's major trading nations along with a growing number, now nearly 60, of affiliates from industrializing countries. Participation in the international consensus-based standards work of IEC is by individuals via the member countries. The conformity assessment schemes are open to both IEC Members as well as non IEC members. The industry-based technical agreements are developed by individuals from industry worldwide with the assistance of IEC staff.

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This Presentation is on only one product line

The IEC aims to be the world-wide focal point in its field, the global platform and one-stop shop of choice, and the easiest for all markets to do business with by providing:

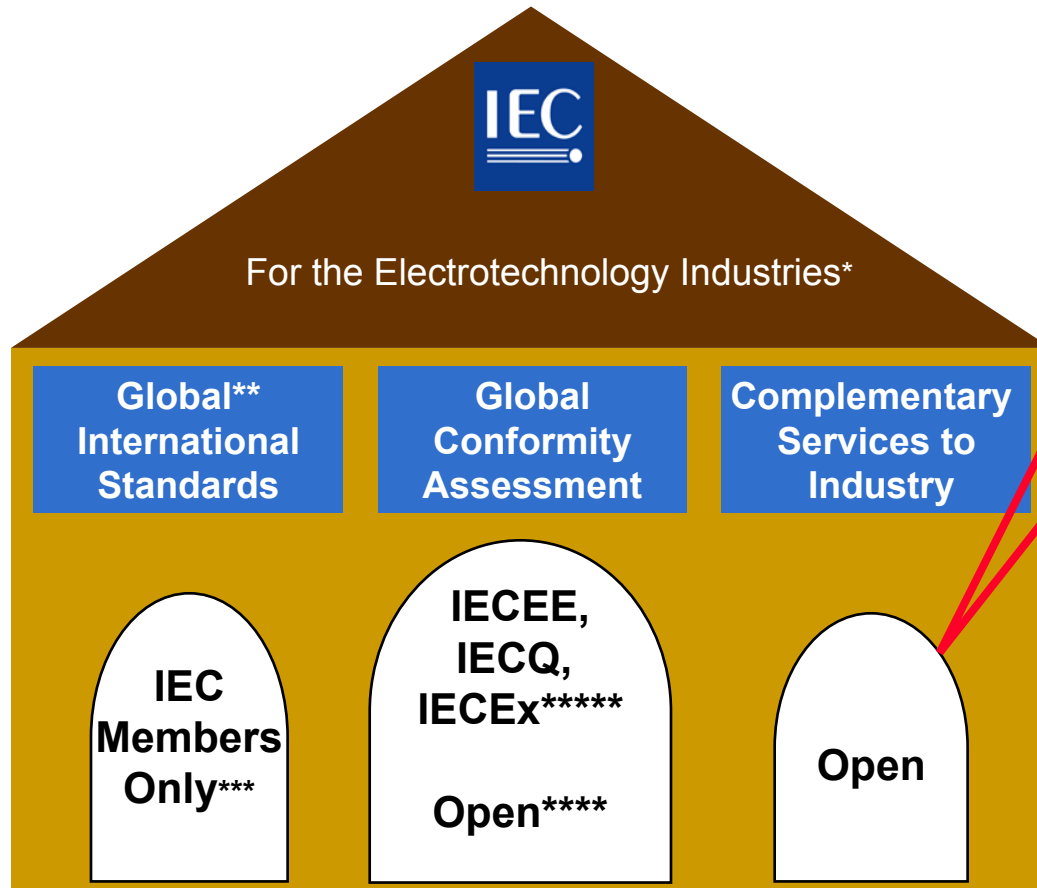
***This
Presentation***

- **International consensus-based standards,**
- **Industry-based technical agreements** and
- **Global conformity assessment schemes**

that maximize value in trade and minimize costs to trade - - all covering electrotechnical products, systems, interfaces, technologies and applications.



IEC in the Global Market



***This
Presentation***

- * In the widest sense of the word industry
- ** It is a Global in that all countries of the globe have the same opportunity to become IEC members and to so vote.
- *** Affiliates have limited access. None-member liaisons can exist when approved by Members, but liaisons do not vote on the approval of the standards writing result.
- **** Open in that you need not be from an IEC member country.
- ***** IECQ and IECEx procedures for open membership are being developed.

One-Stop Shop

Agenda

A green arrow pointing to the right, with the word 'NEXT' written in white, bold, sans-serif font inside it.

NEXT

- **Why Complementary* Services to Industry?**
- **Document Generation Processes, a Comparison**
- **What is Complementary Services to Industry?**
- **Benefits to Industry**

* Complementary (fr: complémentaire, es: complementario) meaning completing or working with, not complimentary (fr: gratuit ou éloge; es: regalo o elogiar) which means given freely or expressing praise.

Why a Complementary Services?

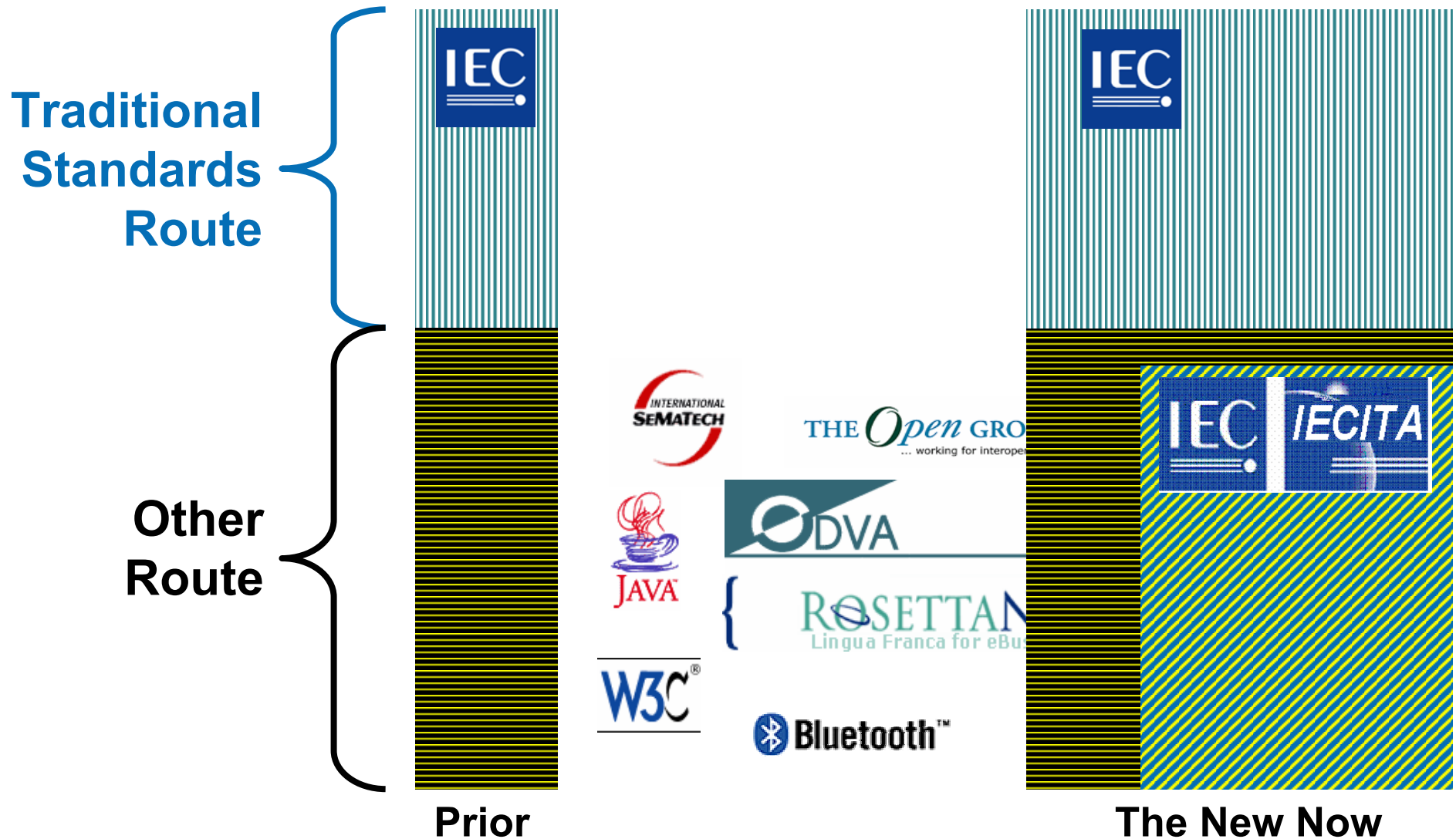
IEC has created a Complementary technical document development route in response to industry - -

- Many in industry were concerned that traditional standardization processes are too slow, too costly or of insufficient relevance in today's fast-moving and highly competitive markets.
- This induces a reluctance by industry to participate and invest in the development of consensus-based, traditional International Standards.
- IEC Complementary Services to Industry was introduced to meet the needs of fast-moving industry market sectors or segments of sectors.

Also see complete Masterplan 2000 at http://www.iec.ch/masterplan_2000.htm

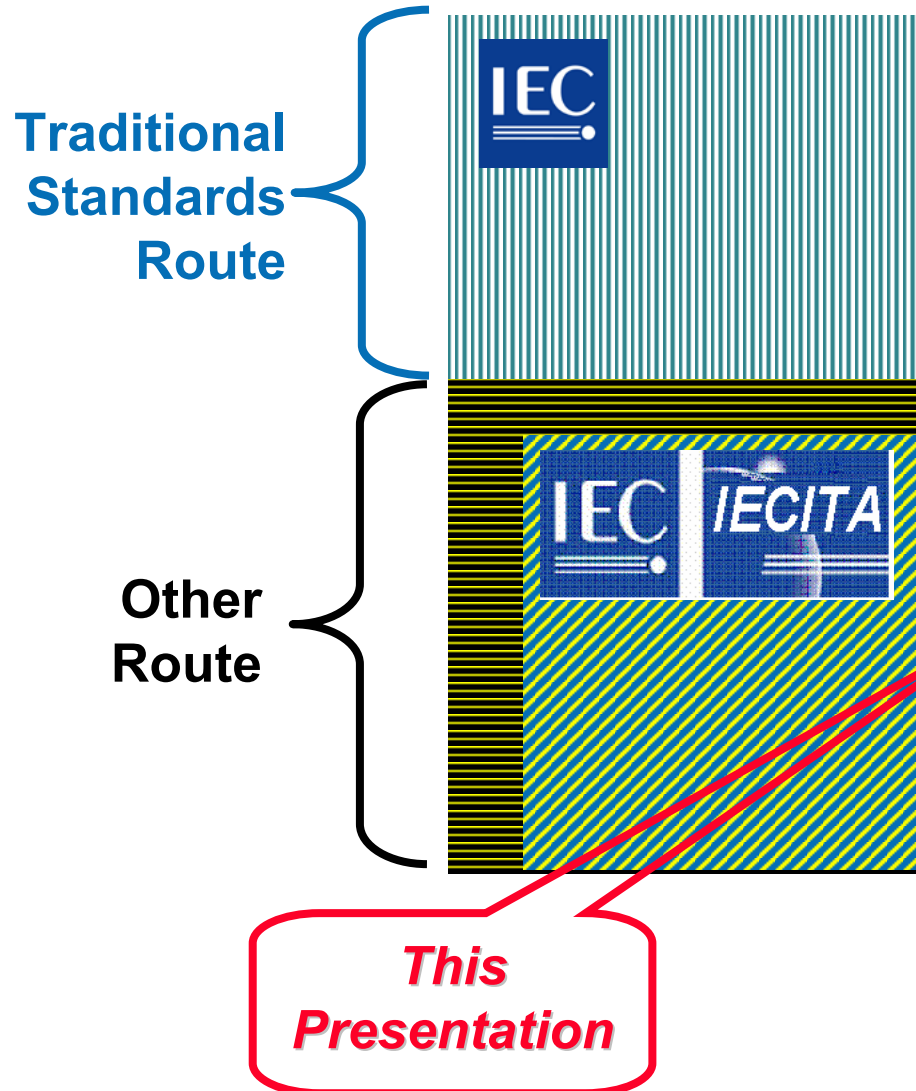


IEC added Complementary Services





IEC Documents



IEC continues to meet user needs for consensus International Standards

International Standards and Intermediate Deliverables*

- ✓ International Standards (Full consensus)
 - ✓ Technical Specifications (Full consensus not (yet) reached)
 - ✓ Technical Reports (Information different from an IS or TS)
 - ✓ Publicly Available Specifications (IEC - PAS)
- IEC also has Guides (Non-normative publications)**

IEC's Complementary Services****

- ✓ Industry Technical Agreement (ITA)
- ✓ ITA-Like Product***

IEC also has Technology Trend Assessment (TTA) publications

Public standardization in the market process



Conventional standards via traditional route

Standards (Established market standard)

R&D phase standardization

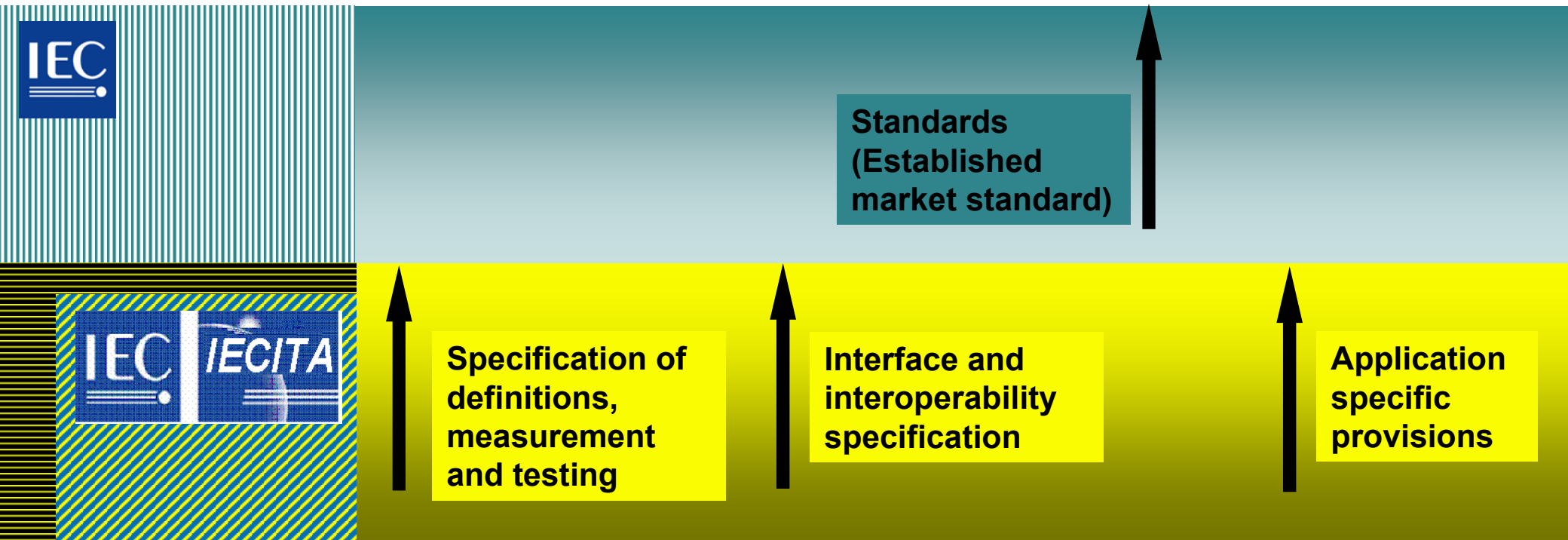
Specification of definitions, measurement and testing

Interface and interoperability specification

Application specific provisions



IEC standardization in the market process

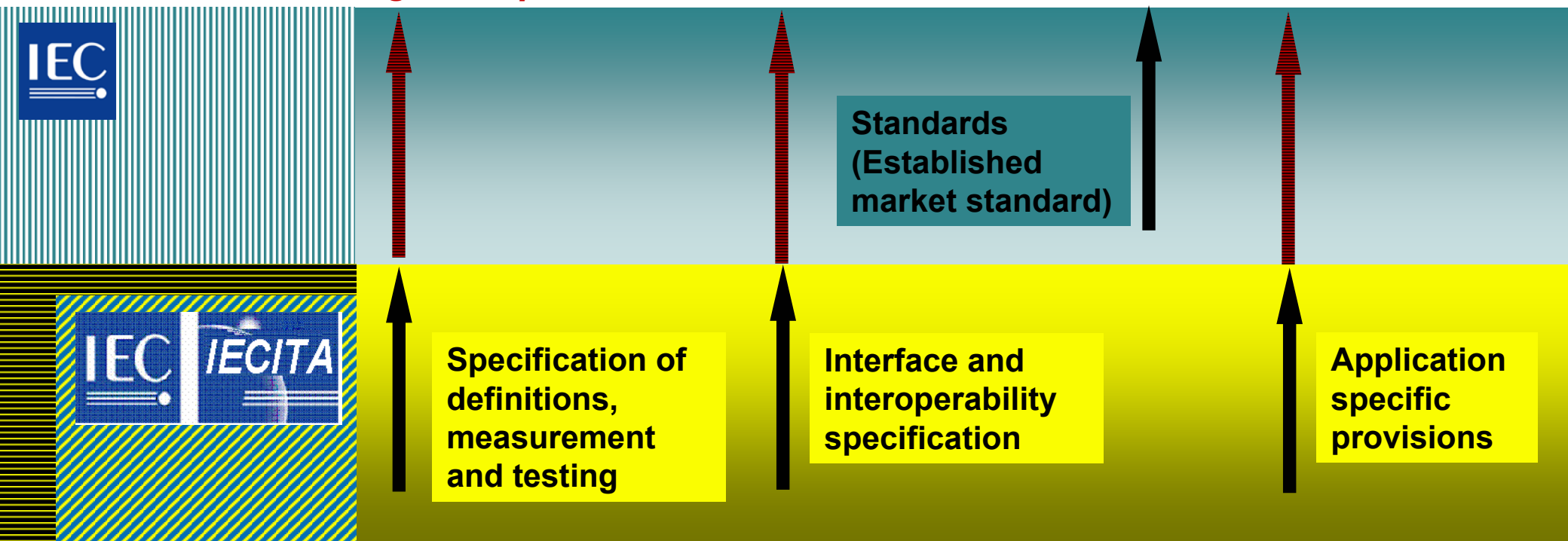




IEC standardization in the market process



IEC offers a clear migration path if IECITAs need to become an International Standards



Agenda



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Document Generation Processes - A Comparison

	International Stds. *	Complementary Services
IEC Manager	SMB	IEC General Secretary
By-country NC vote	Must Pass NC Ballot	No
Consensus Criteria	IEC Directives Define	Customer Defines
NC Participation	Each NC has the Right	n.a.
Other than NC Participation	Thru NC; Approved Liaisons	Customer Defines
Consumer, User Interests	NC Responsibility	Customer Defines
Produce International Std.	Only Way	Can Not - has migration path

* IEC International Standards & Intermediate Deliverables as defined in the ISO/IEC Directives Part 1, Section 2.

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Complementary Services to Industry

**Industry Defined Technical Documents in IEC
with a
Predefined, Optional Migration Path
to
IEC International Standards**



Complementary Services to Industry is -

Selling of IEC Management Services to Industry so as to

- ✓ **Allow global management of technology**
- ✓ **Provide a natural path to International Standard Statues when ready**
- ✓ **Eliminate the need for industry to pay for yet another standards developing infrastructure**
- ✓ **Provide pick-and-choose access to a world-class set of technical document generation and conformity assessment procedures, resources and capabilities**

Target Customer: Those technologies / industries / consortia

- ✓ **Not now ready for processing as an IEC full consensus International Standard**
- ✓ **Not now wanting to proceed in IEC formal National Committee Structure**
- ✓ **Wanting to control who can participate in the technical document development**
- ✓ **Want to lock documentation and documentation development to company/consortia schedules and objectives**



Complementary Services to Industry -

- **Recognizes established IEC CO skills, knowledge, and opportunities as valuable, Complementary Services that should be available for sale**
 - **Cooperates with similar, existing processes by other organizations**
 - **Makes IEC a One-Stop Shop for all global standards needs**
 - **Process has an available Logo - ->**
- Two logos are displayed side-by-side. The left logo is the IEC logo (white text and lines on a blue square). The right logo is the IECITA logo, which features the word 'IECITA' in white, bold, sans-serif font above three horizontal white lines, all on a blue square background.
- **Customer defines, then customer and IEC develop the formal rules governing patents, copyrights or other intellectual property (e.g., trade secrets) protection**

(see Current ITA Projects at <http://www.iec.ch/searchtech/italst-e.htm>)



Complementary Services to Industry

Complementary Services Offered

- ✓ Technology Management
- ✓ Intellectual Property Rights Administration
- ✓ Document Development Assistance and Management
- ✓ Assistance in Identifying Existing International Standard References
- ✓ Assistance in Conformity Assessment Issue Resolution *
- ✓ Support for Electronic and On-Line Operations, and Communications
- ✓ Planning, Meeting Management and Record Keeping
- ✓ Administration of related Special Event - Forum Activities
- ✓ IEC CO Support and Identity
- ✓ Completed Document Management and Publication Support
- ✓ Promotion, Marketing, and Press Relations
- ✓ Migration Strategies to International Standard

**All Complementary
Services are optional and
for a fee**

*** Masterplan 2000 calls for CAB schemes to certify to ITAs and other new deliverables as required by the market**

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NEXT



Complements Consortia Activities

Consortia, formed by a set of like-thinking organizations - to grow the technology, to grow the consortia's constituency, and to expand the use of the technology

Highlighted areas where Consortia can effectively use the IEC Complementary Services to Industry

- Be a forum to exchange information and for joint activity regarding the development, demonstration and deployment of the technology - create a means to *promote technology transfer*
- *Protect the integrity of the technology* and the investment made in it by the adherents
- See to the *evolution of the technology* in the market, to the marketing of the technology – market acceptance and use
- Drive rapid development and deployment of the technology - opportunities for *technology transfers*
- Manage the pace of *technology development and technology stability* so as enable adherents an opportunity for application deployment and innovation in the market
- *Manage the openness, inclusiveness processes*
- Work to enhance the quality and adoption of the technology in the trading markets
- Manage next generation development and timing
- *Manage technical document generation, distribution and maintenance*
- See to the improvement of compatibility, interoperability and interchangeability among the products/implementations of the technology by the adherents
- Enabled small to medium sized companies to adopt the technology

IEC Complementary Services to Industry works with Consortia, as needed.



Benefits to Industry - 1

Benefits realized in using Complementary Services to Industry

- Technology Management, Global reach - IEC's NC, worldwide sale/distribution available } { Use Complementary Services then International Standards, with CA Schemes to manage technology – closed to global.
- Migration path - Clear, concise and lowest cost, optional migration path from an ITA/ITA-like document to IEC International Standards } { All Technologies mature – Manage mature technologies via IEC Standardization.
- Save time and Cost avoidance - Consortia need not develop, staff maintain their own standards generation capability. By using in place, ready now Complementary Services for technical document generation avoid those costs. } { Industry has already paid for the IEC standards writing capabilities – Why not use it? Why pay for more capabilities?
- CA - Potential for conformity assessment under CAB Schemes - Document must satisfy requirements of suitability for CA use

Benefits to Industry - 2

- **Project Autonomy** - Each project is an autonomous activity for consortia or groupings of entities with common, special technology interests
- **Each Project defines its own objectives and defines its membership (participant) criteria**
- **At the start the Project sets strategy, schedules, rules and handling of the resulting document (disclosure, copyright, distribution, etc.)**
- **Project oversight and administration either by project membership or IEC resources, or a mixture**

The Project determines the rules, procedures, operation, who can participate, and what is done with the resulting document(s).

IEC can provide easily adapted models of proven methods for technical document generation from straight forward to complex technical documents

The Project selects and pays for only the IEC Services it needs. Services can be added or suspended during the work.



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Thank You