

**The need for coordinated  
international standardization  
(on behalf of JCA-NID)**

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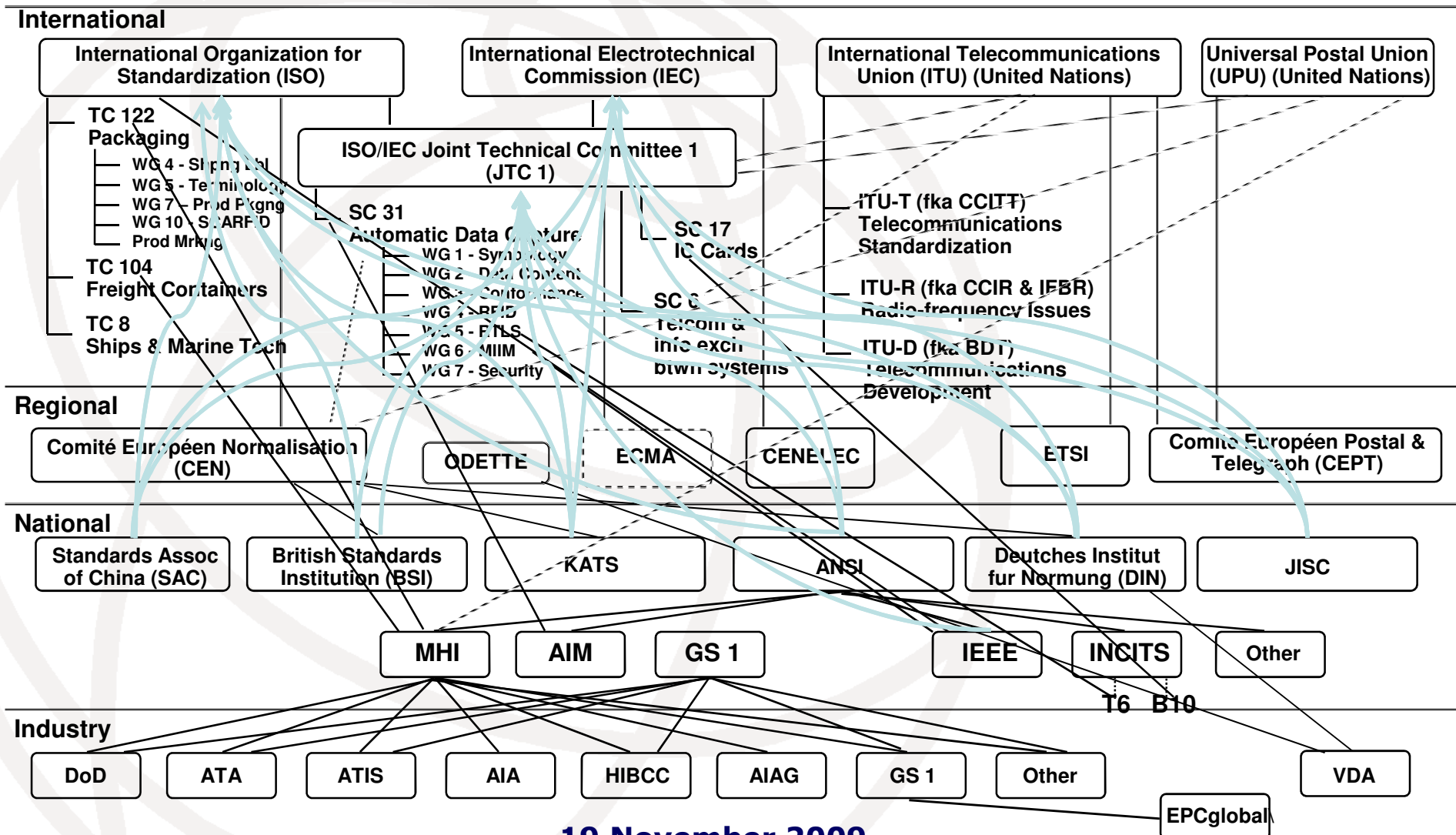
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# International Standards Activities



# The need for coordinated “international” standardization (1/3)

- Each SDO has its own work scope which should avoid overlap with other SDOs, but...
- Many areas do NOT have clear boundaries in current cross-layering, ubiquitous trend
  - Chip technology
  - Radio technology
  - Networking technology
  - Application specific technology
  - etc...



Influence each other,  
But also see gaps in high-level architecture, concepts, terms and definitions, etc.

# The need for coordinated “international” standardization (2/3)

- My ITU-T experiences
  - Within ITU-T, each SG has experts with different technical backgrounds
  - Those experts sometimes approach the same technology using different architecture and terminology
  - National or company policies about the same technology are sometimes in conflict
- **Coordination and Harmonization is more and more important Especially for technologies aiming at global connection and Ubiquitous usage like RFID, USN**

# **The need for coordinated “international” standardization (3/3)**

- GRIFS aims at improving international coordination on RFID standardization.
- ITU-T established in 2006 a Joint Coordination Activity to improve coordination and avoid overlap on NID and USN.
- Let me introduce you to ITU-T and JCA-NID in next slides

# Introduction to ITU and ITU-T

The International Telecommunication Union (ITU) is the United Nations agency responsible for Telecommunication

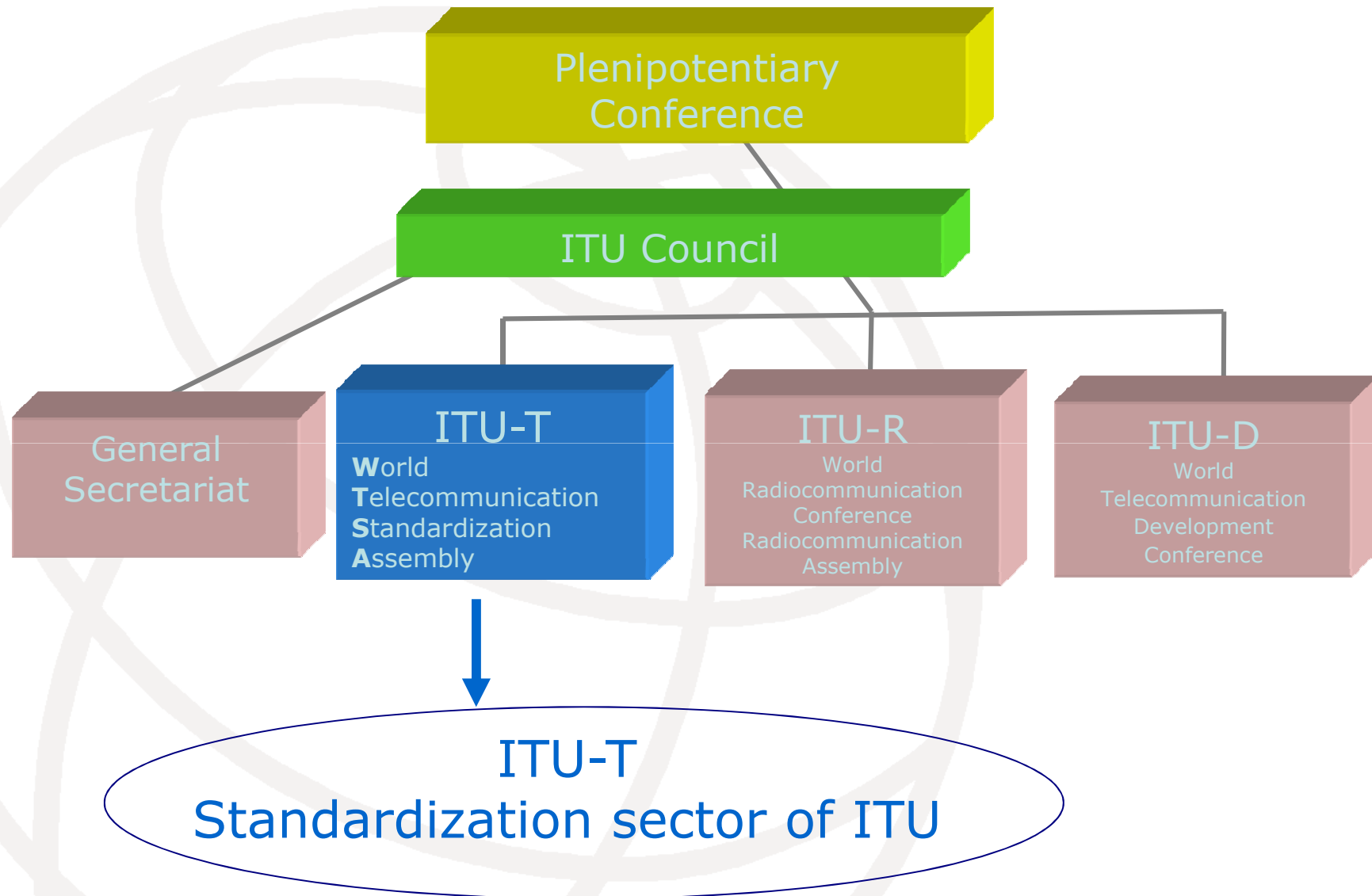
ITU Membership includes:

- 191 Member States
- 567 Sector Members
- 154 Associates



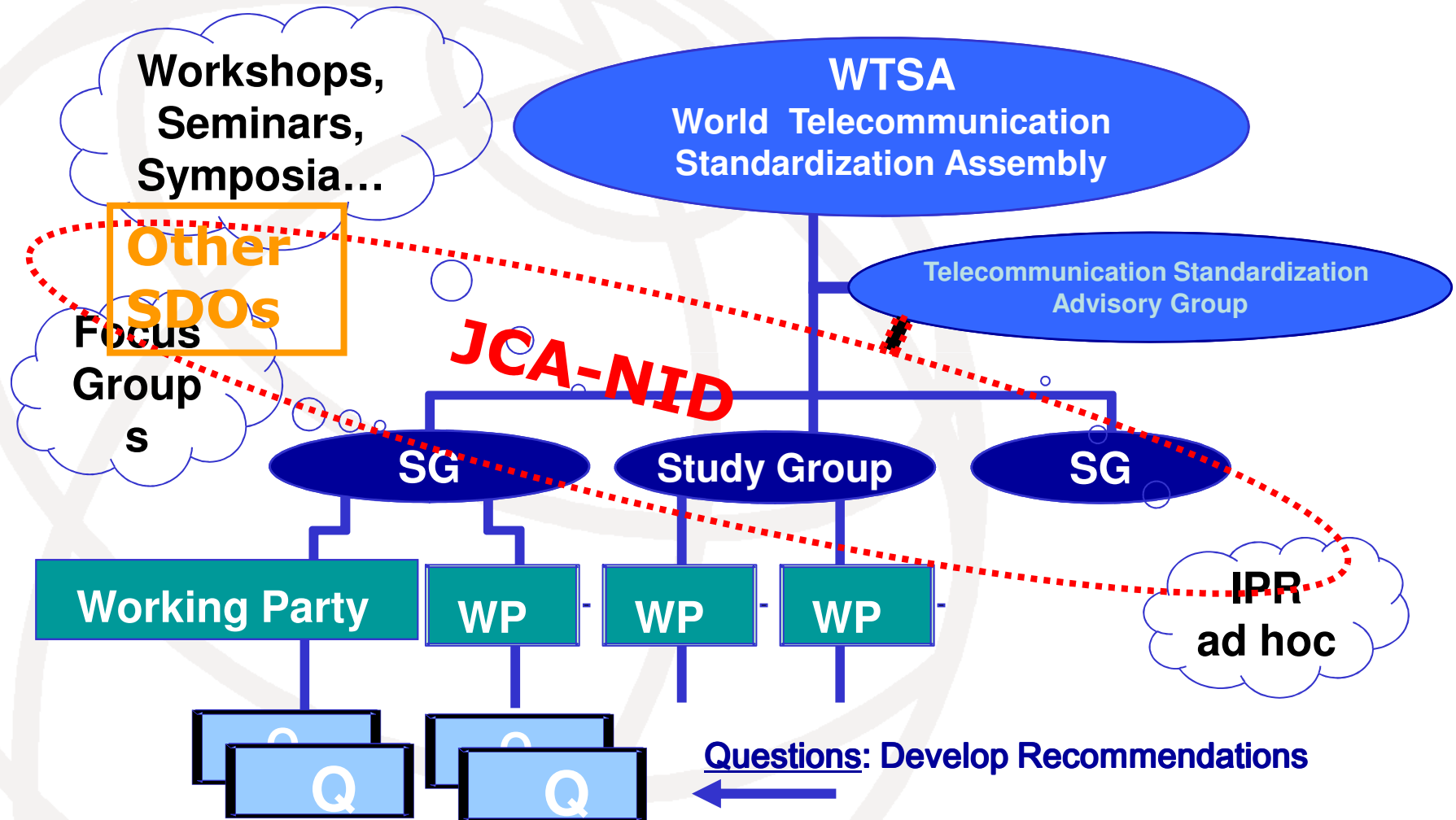
**ITU is  
Truly Global**

# ITU Structure



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# ITU-T Working Structure

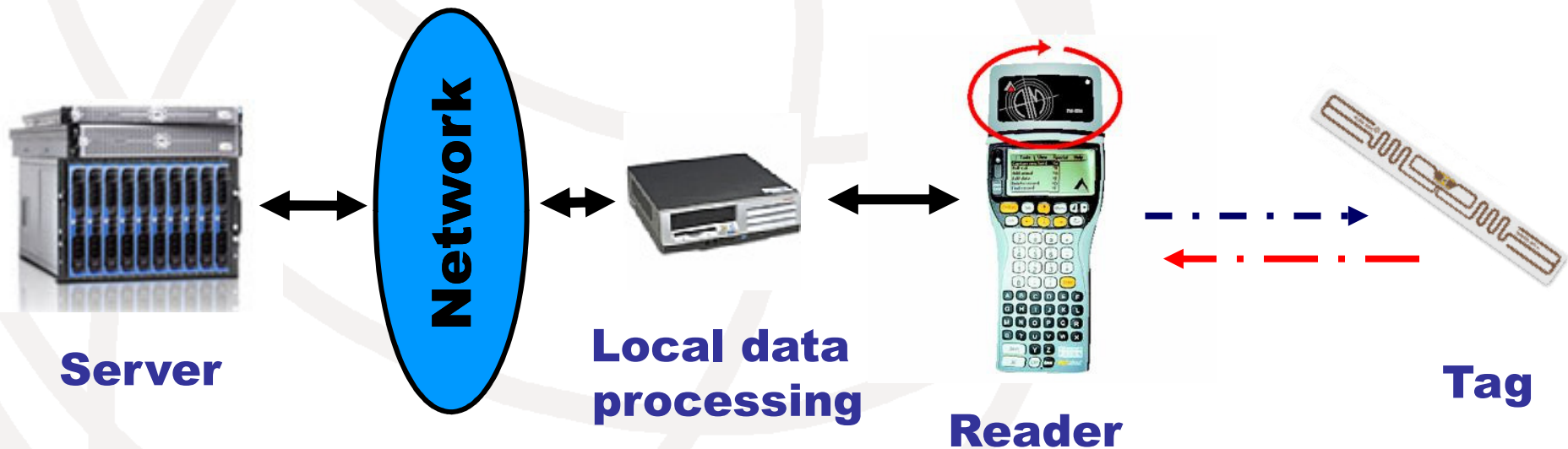


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# NID = Network Aspects of Identification Systems

## ■ What is NID?

- NID = network aspects of identification systems (including RFID)
- NID Components: Tag, Reader, Data processing system (local system, network, server, ..) and middleware
- *not only RFID but any device requiring identification which is connected to a network*



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# NID in ITU-T : History

- First contributions to ITU-T: **2005**
- Creation of a Correspondence Group (CG) on RFID in TSAG: **March 2005**
- ITU-T Workshop on “Networked RFID: Systems and Services”: **February 2006**



**TSAG** after reviewing *the CG reports* and additional contributions established **JCA-NID** : **July 2006**



***Joint Coordination Activity on Network Aspects of Identification Systems (including RFID)***

# Current JCA-NID Scope

- The scope of the JCA-NID is to coordinate the ITU-T work on **NID** and **Ubiquitous Sensor Network (USN)**.
- The **NID** work deals with tag-based identification with three mandatory elements: identifier (e.g. E.164, ISBN, etc.), reader (e.g. RFID interrogator, optical scanner, camera, etc.) and tag (e.g. RFID tag, barcode tag, smartcard, etc.).
- The **USN** work includes networking and service aspects of sensor information.

*Note: USN in this context is not a physical network, it is a conceptual network making use of existing networks.*

# JCA-NID Terms of Reference

1. To **coordinate the ITU-T** work on network aspects on identification systems initially focusing on the work in the SGs on terms and definitions, the output of the correspondence groups and the technology watch report on USN.
2. To collect and analyze the list of standardization items and associated **roadmap**;
3. To forward urgent standardization issues to relevant SGs and other SDOs as appropriate;
4. To **act as a single point of contact** within ITU-T with other SDOs in order to avoid duplication of work;
5. To **assist coordination between ITU-T Study Groups and other ITU groups** and to include their representatives; and
6. To **carry out an external collaboration** role with other relevant recognized SDOs and to invite their representatives.

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# JCA-NID official liaisons

## Official Liaisons established with key players in the field of NID standardization:

- ITU: ITU-T Study Groups, ITU-R, ITU-D
- ISO/IEC JTC1: SC6, SC31, WG 7 on sensor networks
- ISO: TC104, TC122, TC 204
- SDOs: ETSI, CEN
- Forums and Consortiums: GS1/EPCglobal, Liberty Alliance, Ubiquitous ID Center, ECMA, OMA,

# JCA-NID: present status of the work

**JCA-NID is a high-level coordination mechanism** providing a platform to discuss and exchange ideas between representatives of relevant groups working on other SDOs on **NID** and **USN**

**JCA-NID is developing the following deliverables** to help the coordination and harmonization among parties:

- **Deliverable 1: Generic architectural model** (this high-level concept was made to better understand the scope of JCA-NID )
- **Deliverable 2: Standardization Roadmap**
- **Deliverable 3: NID Terms and Definition documents**
- **Deliverable 4: USN Terms and Definition documents**

→ **JCA-NID is coordinating also with other SDOs to develop these Deliverables**

→ **these deliverables have been reducing gaps among developing standards and facilitate harmonization**

## **JCA-NID and GRIFS (1/2)**

- The ITU was invited to join the GRIFS effort signing a MoU.
- JCA-NID provided comments on the text of the GRIFS MoU in order to clarify the differences between the two groups and avoid overlap in scope and responsibilities.
- The ITU Member States will decide (probably during TSAG in February 2010) whether joining the GRIFS is in the interest of the Union.

# JCA-NID and GRIFS (2/2)

- JCA-NID
  - is under a global union and welcomes representatives from other SDOs, forums and consortiums
  - coordinates NID and USN issues in ITU-T with liaison officers from various SDOs, forums and consortiums
  
- JCA-NID would welcome synergy with GRIFS
  - GRIFS could assist JCA-NID through input documents and experts discussions to achieve the common goal of **“International coordination and harmonization on NID (including RFID) and USN standards”**

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# Next Meeting of JCA-NID

- Next meeting of JCA-NID is scheduled to take place in Korea on:  
**23 March 2009**
- The meeting will include a **joint session with ISO/IEC JTC 1/SC31**
- **Remote participation** via teleconference will be provided

# ITU-T JCA-NID contacts

For further information on JCA-NID, subscribe to the **email list**, become an external **liaison officer** and gain access to **documentation** see:

<http://itu.int/ITU-T/jca/nid>

You can also contact:

- **JCA-NID Convener:** Hyoung-Jun Kim, Standard Research Center, ETRI, Korea

[khj@etri.re.kr](mailto:khj@etri.re.kr)

- **JCA-NID Secretariat:** Stefano Polidori, ITU Telecommunication Standardization Bureau

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