



International Telecommunication Union

JCA-NID: ITU-T initiative towards global standards on Network Aspects of Identification Systems (including RFID)

Pierre-André Probst
Convener JCA-NID
OFCOM/Switzerland

- History
- TSAG CG Results
- Terms of Reference JCA-NID
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- Conclusions

JCA-NID: History (1)

- ➔ First contributions on RFID submitted to ITU-T (2005)
- ➔ Creation in TSAG of a Correspondence Group on RFID (March 2005):
 - ➔ To evaluate ITU-T standardization requirements on RFID
 - ➔ To propose possible structure to TSAG for carrying out RFID studies within ITU-T
- ➔ Workshop on “NRFID: Systems and Services”: preparation started in April 2005

JCA-NID: History (2)

- ➔ ITU/SPU workshop on “Ubiquitous Network Societies” (April 2005)
- ➔ Publication of a ITU-T Lighthouse Technical Paper “RFID-Opportunities for mobile telecommunications services” (May 2005)
- ➔ Contributions submitted to ITU-T SGs (SG11, SG13, SG17, ...)
- ➔ Discussion paper from the convener of the TSAG CG on RFID (August 2005)

JCA-NID: History (3)

- TSAG Meeting in November 2005 (1):
 - Report from the convener of the CG:
 - overview of ITU-T activities on NRFID
 - CG activities (other SDOs, NRFID definition, possible standardization topics, ...)
 - Additional contributions received
 - Revision of the mandate of the CG:
 - Further evaluate ITU-T standardization topics and requirements for network aspects of identification (including RFID)
 - Propose a possible structure for carrying out network aspects of identification (including RFID)

- TSAG Meeting in November 2005 (2):
 - CG Deliverables:
 - Report of standardization issues on network aspects of identification (incl. RFID)
 - Report for business models and service scenarios
 - Terms and definitions
 - Deadlines:
 - First draft before the workshop
 - Review after the workshop (16 February 2006)
 - Final report to TSAG meeting in July 2006

JCA-NID: History (5)

ITU-T Workshop on "Networked RFID: Systems and Services"



GENEVA, 14-15 FEBRUARY 2006

Objectives

- Present the status of Radio-Frequency Identification (RFID) technology and identify future trends
- Review current and future applications, services and business models
- Identify network aspects of RFID (NRFID) relevant to telecommunications
- Analyse how far existing standards can support NRFID applications and services
- Identify where enhanced or new standards might be needed
- Identify elements for a roadmap for a standardization framework

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- 14-15 February 2006, Geneva,
- 123 participants from 25 countries representing: standards bodies, telecoms service providers, vendors and academia.

TSAG CG work:

- Scope of the CG work: First topic examined was RFID

- CG was very active, worked mainly by electronic means, and held two physical meetings:
 - ✓ First CG meeting, 16 February 2006, Geneva (Switzerland)
 - ✓ Second CG meeting, 23-24 May 2006 Seoul (Korea)

- During the work, the CG expanded the scope of the study to cover the broader issue of **Network aspect of Identification Systems (NID)**
→ *not only RFID but any device requiring identification which is connected to a network*



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JCA-NID: history (7)

CG produced four reports → TSAG (July 2006)

1. Convener's report of the CG, including Annex 3 "Collection of Terms and Definitions"
[TD317 TSAG]
2. Business models and service scenarios for NID
[TD314 TSAG]
3. Review of standardization issues on NID
[TD 315 TSAG]
4. Proposed ITU-T strategy for standardization issues on NID with harmonized standardization cooperation
[TD316 TSAG]

→ Also suggested to establish a **Joint Coordination Activity (JCA)** to coordinate the work across the various SGs and other SDOs

→ Also **recommended that a Focus Group be established** in order to deal with the urgent standardization topics.



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JCA-NID: Mandate

TSAG – Meeting July 2006

- ❑ Review the CG reports and additional contributions
- ❑ Decided to establish a Joint Coordination Activity on Network Aspects of Identification Systems (including RFID):
 1. To examine the CG deliverables, improve them use them as baseline texts,
 2. To further develop and analyze the list of standardization items and associated roadmap,
 3. To forward specific standardization issues to relevant SGs and SDOs,
 4. To act as single point of contact within ITU-T with other SDOs in order to avoid duplication of work,
 5. To examine the best way to make available the most urgent deliverables (.e.g creation of focus groups).



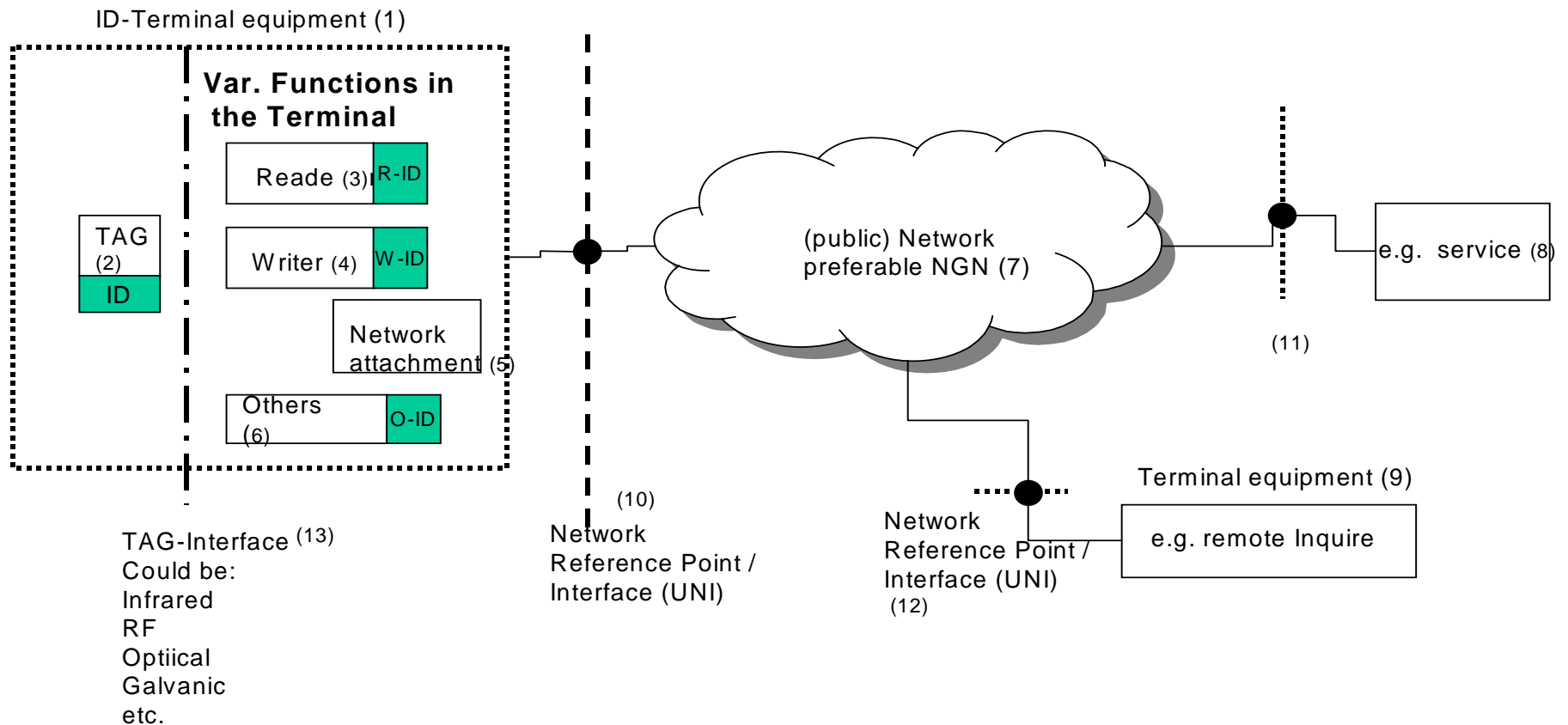
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JCA-NID: Status Report (1)

First JCA-NID meeting in Geneva,
19-21 September 2006:

- ❑ Develop a generic architectural model
- ❑ Develop high level requirements
- ❑ Develop a standardization roadmap
- ❑ Creating a high-level coordination mechanism and tools involving representatives of groups working on relevant standardization of network aspects of identification systems.

JCA-NID High Level Ref. Architecture



Ad hoc Meeting during NGN-GSI
(25 October 2006):

- present JCA-NID mandate
- first feedback from NGN-GSI experts

➤ Next meeting, 25 February 2007

➤ For further information on JCA-NID please have a look at JCA-NID homepage:

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

Conclusions:

- RFID systems and sensor networks technologies are key drivers towards the “internet of things”
- NID systems will have a great impact on ITU-T standardization
- A large number of key players are already active in developing standards in this area
- ITU-T considers that the JCA-NID is an important tool to contribute to the development of global standards