ISO/IEC JTC1/SC31/WG4 Convenor's report to the SC31 Plenary meeting, Moscow, May 25-26, 2006

1. Organisation Structure and Officers

WG4 Convenor   Mr. Henri Barthel
WG4 Secretary   Mr. Gertjan van den Akker

WG4/SG1 - Application Interface Protocols	Convenor:	Mr. Michael Guillory
WG4/SG3 - Air Interface	Convenor:	Mr. Steve Halliday
WG4/SG5 - Implementation guidelines	Convenor:	Mr. Toshihiro Yoshioka
WG4 Regulatory Issues	Rapporteur:	Mr. Jacques Hulshof

2. Members

Australia, Austria, Belgium Canada, China, Finland, France, Germany, Israel, Japan, Korea, Norway, Russia, Singapore, South Africa, Switzerland, South Africa, The Netherlands, United Kingdom, USA.

3. Meetings held since last SC31 plenary

Dates	Location	WG4	SG1	SG3	SG5	Regul
2005-06-07	Singapore			X		
2005-08-22/23	Toulouse		X			
2005-09-19/20	Colorado Springs			X		
2005-09-21/22	Colorado Springs	X				
2005-09-22	Colorado Springs				X	
2005-11-07/08	Toronto		X			
2005-12-01	Klagenfurt (Austria)		X			
2006-03-06/07	Jeju (South Korea)		X			
2006-03-16	Kyoto				X	
2006-03-17	Kyoto	X				
2006-03-14-15	Kyoto			X		

4. Projects and Editors

Project	Title	Editor	Remarks
18001	Application Requirements Profiles	Mr. C. Harmon	Published as TR on 2004-10-15
24729-1	Implementation Guidelines: Labels,	Mr. C. Harmon	WD
24729-2	Implementation Guidelines: Recyclability	Mr. C. Harmon	WD
24729-3	Implementation Guidelines: Installation	Mr. C. Harmon	WD
15961	Data protocol: application interface	Mr. P. Chartier	Published as IS on 2004-10-15
15961-1	Revision 1	Mr. P. Chartier	WD
15961-2	Registration of RFID data constructs	Mr. P. Chartier	CD
15961-3	Data protocol: RFID data constructs	Mr. P. Chartier	CD
15962	Protocol: data encoding rules and logical memory function	Mr. P. Chartier	Published as IS on 2004-10-15
15962 R1	First revision	Mr. P. Chartier	
15963	Unique Identification for RF tags	Mr. C. Harmon	Published as IS on

			2004-09-08
18000	Air Interface	Mr. C. Harmon (senior editor)	
18000-1	Reference architecture and definition of parameters to be standardized	Mr. A. Watanabe	Published as IS on 2004-09-13
18000-1 A1	Amendment 1 (Batteries & sensors)	Mr. S. Halliday	
18000-2	Air interface for < 135 kHz	Mr. M. Guillory	Published as IS on 2004-09-13
18000-2 A1	Amendment 1 (Batteries & sensors)	Mr. M. Guillory	
18000-3	Air interface at 13,56 MHz	Mr. R. Williams	Published as IS on 2004-09-13
18000-3 A1	Amendment 1 (Batteries & sensors)	Mr. K. Laing Mr. M. Guillory	
18000-4	Air Interface at 2,45 GHz	Mr. Josef Preishuber-Pfluegl	Published as IS on 2004-08-31
18000-4 A1	Amendment 1 (Batteries & sensors)	Mr. Josef Preishuber-Pfluegl	
18000-6	Air interface at 860-960 MHz	Mr. A. Grasso	Published as IS on 2004-08-31
18000-6 A1	Amendment 1 - Mode C	Mr. J. Preishuber-Pfluegl Mr. Chris Diorio	FDAM
18000-6 A2	Amendment 2 (Batteries & sensors)	Mr. J. Preishuber-Pfluegl Mr. Chris Diorio	
18000-7	Air interface at 433 MHz	Mr. C. Harmon	Published as IS on 2004-08-31
18000-7 A1	First Revision (Batteries & sensors)	Mr. C. Harmon	
24710	Elementary tag	Mr. R. Rees	Published as IS on 2005-10-27
24752	System Management Protocol	Mr. Joo-Sang Park	
24753	Air Interface Commands for Battery Assist and Sensor Functionality	Mr. P. Chartier	

5. Liaisons

Committee/organisation	from WG 4 to	from .... to WG 4
ISO/IEC JTC 1/SC31/WG 2		
ISO/IEC JTC 1/SC31/WG 3		
ISO/IEC JTC 1/SC31/WG 5	Mr. Kimball and Mr. Guillory	Mrs. M. Harmon
ISO/IEC JTC 1/SC 17/WG 8	Mr. Meindl	Mr. Meindl
ISO/IEC/JTC1/SC37		Mr. Harmon
ISO/TC 23/SC 19/WG 3	Mr. S. Halliday	
ISO/TC 104	Mr. C. Harmon	Mr. C. Harmon

Committee/organisation	from WG 4 to	from .... to WG 4
ISO/TC 122	Mr. C. Harmon	Mr. C. Harmon
ISO/TC 204	Mr. B. Williams	Mr. B. Williams
CENELEC TC 106X	Mr. J. Hulshof	Mr. J. Hulshof
CEN/TC 225	Mr. P. Chartier	M. P. Chartier
UPU	Mr. D. Ferguson	
GS1	Mr. H. Barthel	
AIM Global		Mr. D. Mullen
IATA	Mr. P. Chartier	M. P. Chartier
EDItEUR		Mr. B. Green
ETSI	Mr. C. Harmon Mr. J, Schuermann	Mr. J. Schuermann
ITU-R	Mr. C. Harmon/ Mr. J. Schuermann	

6. Highlights

- Despite the finalisation of all work items assigned initially to SC31/WG4, the working group remains very active and has still a comprehensive work program
- The role of Rapporteur on Application Requirements Profiles done by Mr. Yoshioka was terminated. A new sub group led by Mr. Yoshioka, SG5, has been created. It will develop implementation guidelines for RFID, following the agreement of SC31 to extend the scope of WG4 to applications guidelines.
- Louis Visser, secretary of WG4 since its inception, retired. The new WG4 secretary appointed by NEN is Mr Gertjan van den Akker.
- WG4/SG3 did a great job in progressing the ISO/IEC 18000-6 amendment 1 that includes the Gen 2 protocol submitted by EPCglobal early 2005. Some IP issues were raised in the last steps of the standard process and they are being resolved with the ISO central secretariat.
- Regarding IP more generally, SC31/WG4/SG3 has identified issues in the IP process, which are being investigated by the SC31 secretariat.
- A meeting was held on 15 July 2005 between SC31/WG4 and SC17/WG8 delegates. An agreement was reached regarding the future allocations of Application Family Identifiers.
- The revision of ISO/IEC 15961 makes provision for a registration authority that will manage the assignment of data constructs including Application Family Identifiers. SC31/WG4 has appointed a data construct steering committee that will provide the allocation and registration service until the formal registration authority is in place.
- The number ISO/IEC 24752 was also allocated to SC35 and this has not yet been resolved.

7. Perspectives

Working Group 4 has seen all of its initial work items finalised and published as IS or Technical Report. TR18001 documents major item management applications that can benefit from using RFID. TR24710 demonstrates how 18000 series of air interface standards can support elementary tags. The ISO/IEC 15961, 15962, 15963 and the 18000 series provide the necessary building blocks for implementing standard RFID systems. implementation guidelines in areas such as RFID labels, recyclability and system installation.

WG4 will continue working on the revision of the 18000 standards to make provision for battery assisted tags and sensor functionalities. At the same time, the standards will be updated with errors that have been identified. This work will also impact the application interface protocol standards 15961 and 15962 and the 24753 work item. The 15961 standard will become a three parts standard and make use of a Registration Authority for managing the allocation of data constructs including Application Family Identifiers. WG4 will continue working on work item 24752, the System Management Protocol. Working Group 4 will complete the technical reports ISO/IEC 24729 parts 1, 2 and 3 addressing implementation guidelines for respectively RFID labels, recyclability and reader / tag installation.

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Henri Barthel
Convenor SC31/WG4
28 April 2006

Resolutions from the sixteenth meeting of ISO/IEC JTC 1/SC 31/WG 4 Colorado Springs, Colorado, USA 21/22 September 2005

1. Creation of SG5
SC31/WG4 endorses the creation of SC31/WG4/SG5 Implementation Guidelines and appoints Mr. Toshihiro Yoshioka as convener of the group. SC31/WG4 resolves to discontinue the function of ARP rapporteur and thanks Mr. Toshihiro Yoshioka and his colleagues for having supported WG4 in this area for an extensive period.
UNANIMOUS

2. **Allocation of WI 24729**
SC31/WG4 resolves to allocate the development of the various parts of ISO/IEC 24729 *Information technology — Radio frequency identification for item management — Implementation guidelines* to WG4/SG5.
UNANIMOUS

3. **Project editor for WI 24752**
SC31/WG4 resolves to appoint Mr. Joo-Sang Park as project editor for WI 24752
Information technology – Automatic Identification and Data Capture Techniques– Radio Frequency Identification (RFID) for Item Management – System Management Protocol.
UNANIMOUS

4. **Project editor for ISO/IEC 15963**
SC31/WG4 resolves to appoint Mr. Craig Harmon as project editor for ISO/IEC 15963
Information technology, Automatic Identification and Data Capture Techniques– Radio Frequency Identification (RFID) for Item Management – Unique Identification for RF tags.
UNANIMOUS

5. **Progression of WI 18000**
SC 31/WG 4 notes that the current amendments to ISO/IEC 18000 series, would be better accomplished with revisions to the standard as opposed to amendments and instructs SG 3 to create and file NP/CD ballots as soon as drafts are complete.
UNANIMOUS

6. **Project editor for ISO/IEC 18000-2**
SC31/WG4 resolves to appoint Mr. Mike Guillory as project editor for ISO/IEC 18000-2 *Information Technology — Radio Frequency Identification for Item Management,- Part 2: Parameters for Air Interface communications below 135 kHz.*
UNANIMOUS

7. **Project editor for ISO/IEC 18000-6**
SC31/WG4 reconfirms the appointment of Mr. Josef Preishuber-Pfluegl and

Mr. Chris Diorio as project editors for ISO/IEC 18000-6 *Information Technology — Radio Frequency Identification for Item Management, Part 6: Parameters for Air Interface communications at 860-960 MHz*.
UNANIMOUS

8. **Liaison with UPU**
   SC31/WG4 resolves to appoint Mr. D Ferguson as WG4 liaison to UPU.
   UNANIMOUS

9. **Management of AFI's**
   SC31/WG4 endorses the "Resolutions from the AD HOC meeting of ISO/IEC/SC31 – SC17(WG8)" (see document N909).
   UNANIMOUS

10. **Progression of ISO/IEC 15961 and Data construct management**
    SC31/WG4 resolves to progress ISO/IEC 15961 and the management of Data constructs of ISO/IEC 15961 as described in N0942.
    UNANIMOUS

Resolutions from the 17th meeting of ISO/IEC JTC 1/SC 31/WG 4 Kyoto, Japan, 17 March 2006

1. Liaison with ISO/TC 204
SC31/WG 4 requests its secretariat to get a clarification of the secretariat of SC31 on the liaison of SC31/WG4 with ISO/TC 204.
UNANIMOUS

2. Information on IP-problem in ISO/IEC 18000-6
SC31/WG4 requests its secretariat to get a ruling from ISO/IEC JTC1 on how to deal with patents owned by Bistar on ISO/IEC 18000-6.
UNANIMOUS

3. Information on Intellectual Property
SC31/WG4 requests its secretariat to get information from ISO/IEC JTC1 on dealing with declarations of awareness of other's IP.
UNANIMOUS

4. Standing agenda item on Intellectual Property
SC31/WG4 resolves to include a standing agenda item for all future meetings of WG4 and all its subgroups to request information about Intellectual Property for all of WG4's work items
UNANIMOUS

5. Liaison with IEEE
SC31/WG4 requests SC31 to establish a category C liaison with the Institute of Electronic and Electrical Engineers (IEEE). SC31/WG4 renominates Mr. Michael Guillory and additionally nominates Mr. Curtis Rozeboom to serve as such liaisons.
UNANIMOUS

6. Change of name WG4/SG1
SC31/WG4 requests SC31 to change the name of WG4/SG1 to *'RFID for item management – Application interface protocols'*
UNANIMOUS

7. Project editor for ISO/IEC 15961-2
SC31/WG4 resolves to appoint Mr. Paul Chartier as project editor for ISO/IEC 15961-2 *Information technology — Radio frequency identification* (RFID) for item management: Data protocol — Part 2: Registration of RFID data constructs
UNANIMOUS

8. Project editor for ISO/IEC 15961-3
SC31/WG4 resolves to appoint Mr. Paul Chartier as project editor for ISO/IEC 15961-3 Information technology – Radio frequency identification (RFID) for item management – Part 3: Data protocol: RFID data constructs
UNANIMOUS

9. Establishment of a data construct steering committee
SC31/WG4, noting document N0942 which has been approved at the 16th meeting of SC31/WG4 in Colorado Springs, resolves to establish a data construct steering committee for the allocation of AFI's until a Registration Authority has

been formally appointed and nominates the following persons: Mr. Paul Chartier, Mr. Michael Guillory, Mr. Craig Harmon, Mr. Tan Jin Soon, Mr. Atsushi Watanabe, Mr. Gertjan van den Akker. SC31/WG4 further resolves that the point of contact for the data construct steering committee will be Mr. Gertjan van den Akker, secretary of SC31/WG4
UNANIMOUS

10. Decision on postal member ballot on preliminary allocation of an AFI for Editeur
SC31/WG4, noting document N0958, resolves to allocate the decision on the allocation of an AFI for Editeur to the data construct steering committee
UNANIMOUS