

ISO/IEC JTC 1/SWG 5
Internet of Things (IoT)
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ISO/IEC JTC 1 SC 31

SC31 Contribution to
JTC 1-SWG-5 IoT
March 2013



SC31 Business

- Develop technology standards for AIDC
- Includes
 - Bar Codes (1D/linear and 2D/ Matrix symbols)
 - RFID
 - RTLS
 - Mobile devices and sensor interfaces
 - Security

Ongoing Implementations

Opportunities in
“B2C” Mobile
Commerce
supported by:

**ISO/IEC 15415, 15424,
18004** (among others)
for bar code AIDC
technology



App version
of ISO
Focus+
magazine
now
available

ISO has released an app version of its flagship magazine ISO Focus+ for the iPad and tablets running on Android. This free application will make key information and knowledge about ISO and ISO standards more accessible to users.

“By creating a friendly, easy-to-use application for tablets, we are opening our magazine to a larger audience, making it more convenient for readers who like to access content in this way,” says Nicolas Fleury, Director, ISO Marketing, Communication and Information.

- Features of the new app:
- Available in English and in French
 - Access to the latest issue of the magazine
 - Access to archives (all issues since January 2010)
 - Advanced search functionality
 - Intuitive navigation
 - Share interesting articles with colleagues and friends
 - No Internet access needed once an issue has been downloaded
 - It is free.



QR-Code
to the app version
of ISO Focus+
for Android.



QR-Code
to the app version
of ISO Focus+
for Apple.



**Opportunities in
“Ticketing & Boarding
Passes”
supported by:**

**ISO/IEC 15415, 15424,
24778** (among others)
for bar code AIDC
technology

Ongoing Implementations

Solutions for Patient Safety and Healthcare Logistics

provided by:

ISO/IEC 15415, 15416, 15417, 15420, 15424 & 16022, 16390, 24724
(among others) for bar code AIDC technology



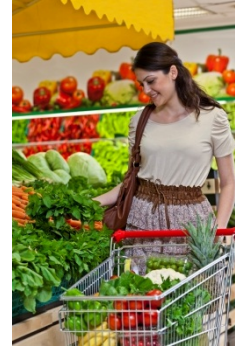
Expansion in CPG / Retail Manufacturing and Supply Chain
supported by:

ISO/IEC 15415, 15416, 15420, 15424 & 16022, 16390, 24724 (among others) for bar code AIDC technology



Ongoing Implementations

Nearing the
40th Anniversary
of AIDC in the FMCG
Retail Supply Chain...



...on June 26, 1974, the
first UPC bar code was
scanned on a package
of Wrigley's chewing
gum at a Marsh
supermarket in Ohio...



...supported by **ISO/IEC**
15416, 15420 & 15426
(among others) for bar
code AIDC technology





SC 31 and IoT

- SC 31 standards are data collection and identity data
- The information that drives IoT will be overwhelmingly collected/generated by an SC 31 technology standard
- SC31 involvement is MORE than just RFID:
 - Location services
 - Sensor interfaces
 - Mobile device interfaces
 - Bar Codes



SC31 IoT Ad hoc

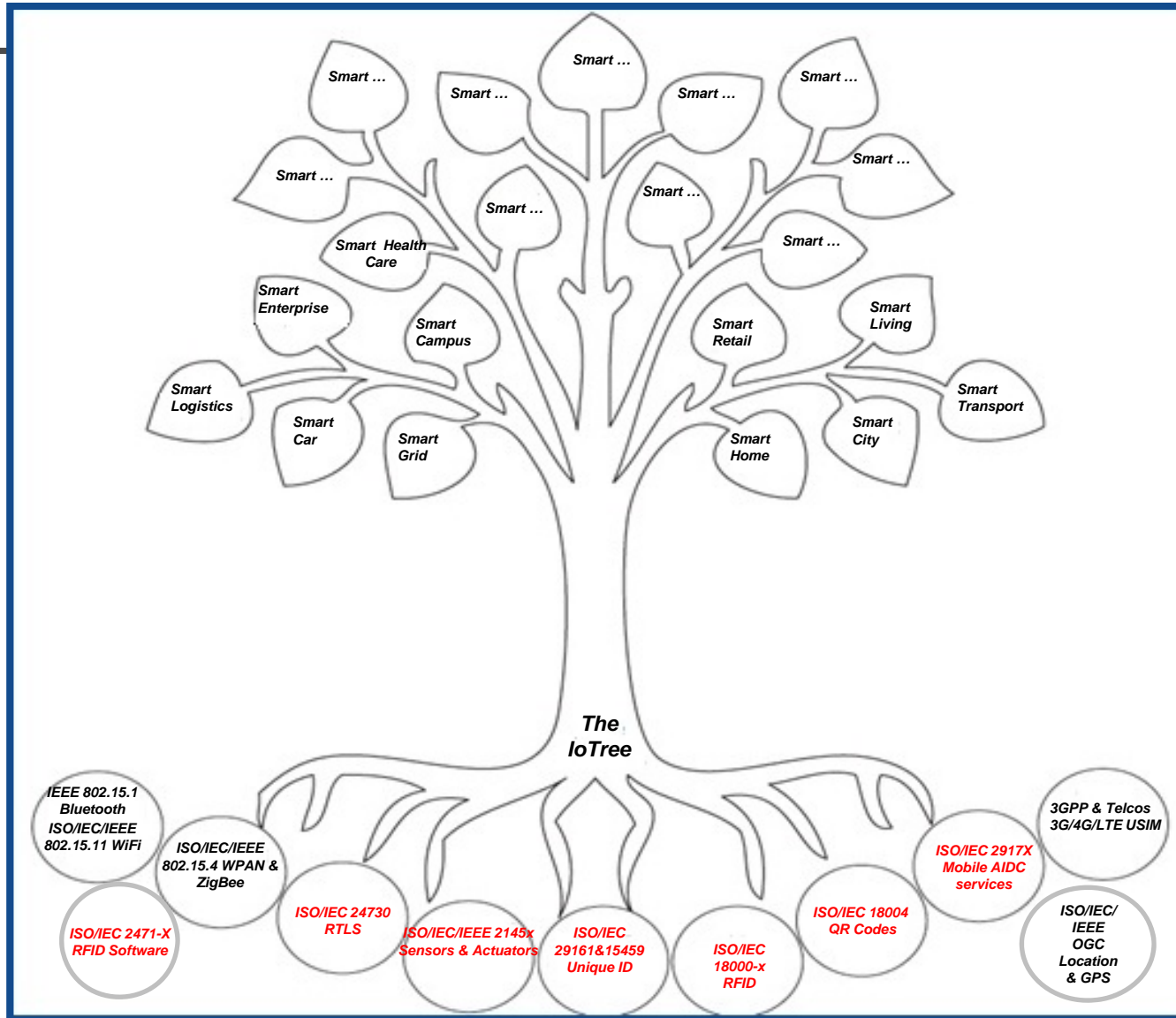
- 2012 SC 31 Plenary established ad hoc
- Membership from
 - Germany, France, Japan, Korea, South Africa, Sweden, USA, IEEE, OGC, JTC 1/WG 7
 - Identified 60 SC31 published standards that enable the IoT
- *Four New Work Item Recommendations to SC 31*
 - *How JTC 1/SC 31 standards fit into the Internet of Things (IoT) (SC 31)*
 - *RFID Memory Mapped Sensors (SC 31/WG 4 with cooperation of SC 31/WG 6)*
 - *Generic Air Interface for Control of RFID Tags with Sensors (or other bus devices)*
 - *Reader-to-System Interface to RFID Tags with Sensors (or other devices)*



SC 31 Liaisons for IoT

- *Other JTC 1 SCs*
- JTC 1/WG 7 (in place)
- OGC (in place)
- ETSI M2M (in place)
- 3GPP (in place)
- *oneM2M*
- XMPP (in place)
- TC 122 (in place)
- ITU-T JCA-IoT (in place)
- *ITU-T FG M2M*
- IEEE 1451 (in place)
- IEEE 802.15 (in place)

SC 31 is at the Root of IoT





SC 31 Involvement

- SC 31 Standards are the Cornerstone of IoT
- SC 31 Standards are not the entirety of :
 - IoT
 - Sensor Networks
 - The Internet
- SC 31 Standards are a part of each



SC 31 Encourages

- Other groups to adopt and utilize the SC 31 family of AIDC Technologies
- Active liaisons so that SC 31 can support development of IoT application standards
- Early and frequent dialogue to preclude duplicate and overlapping work