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Information Technology

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Some highlights on JTC 1 – Ecma collaborations (October 2009)

Dr. Istvan Sebestyen
Mr. Onno Elzinga

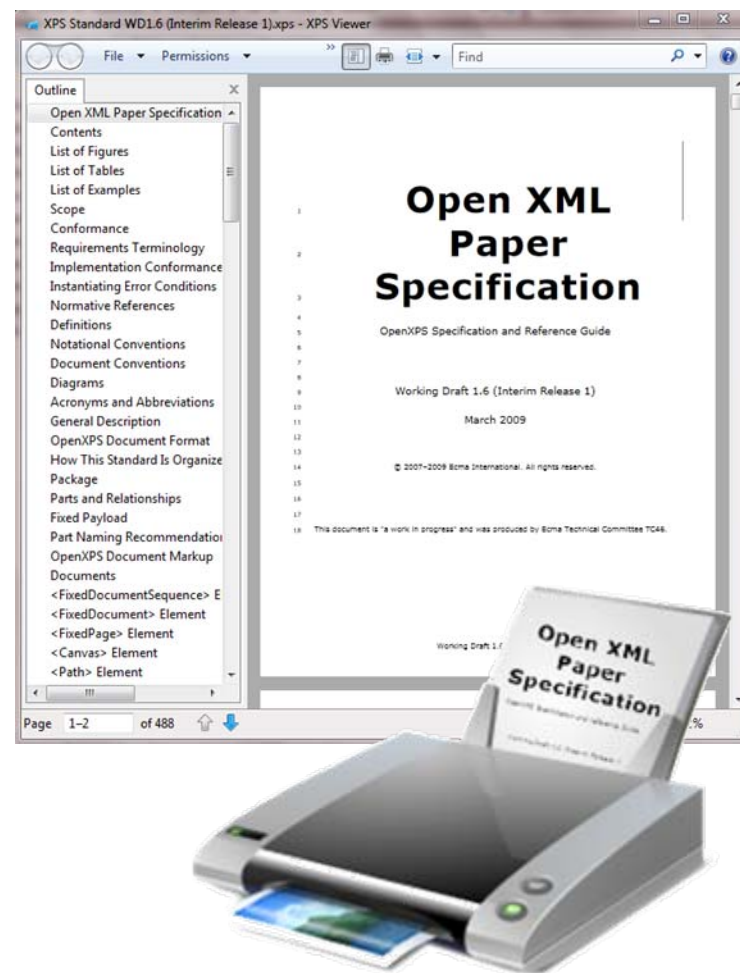- **For the rest please read:**

  ISO/IEC JTC 1 N9733

- *"Ecma International Liaison Report to JTC 1"*

  - *- 27 pages long, more for reading, it is a snapshot of Ecma with status of early September 2009...*

  - *- update of „wide scope coverage" slides that Ecma International has been presenting to JTC1 since 2007*

  - *- instead, we focus in the verbal presentation on some selected topics **of current co-operation with JTC 1.***

  - *Currently there are about 10+ parallel such projects, and they all have a different story... „One size does not fit all"*

A formal standard for an XML-based electronic paper format and XML-based page description language

A standard for a document & print-stream format

- **Bridges electronic and physical paper**

- **Addresses scanning, sharing, publication, printing & archiving phases of document lifecycle**

- **Accurately represents the physical page**

- *Content doesn't change*

- *Layout is fixed*

- *Format contains all resources*

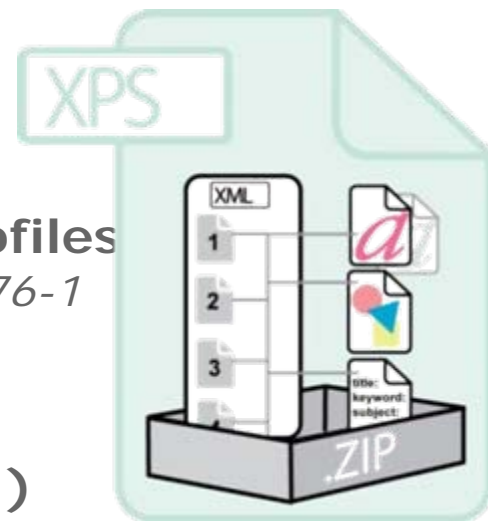- **Simple implementation**

- **Platform independent**

- **Open development process with feedback channel, published drafts, and wide-range of liaisons**

- **Liaison relationships**

  - *ISO/IEC JTC1 SC29, SC28, SC34*
  - *Ecma TC45*
  - *ISO TC130, TC171*
  - *International Color Consortium (ICC)*
  - *ITU-T Study Group 16*

  Permanent bi-directional flow of information

OpenXPS is based on a number of other standard technologies:

- **Open Packaging Conventions & Markup Compatibility (ECMA-376)**
  - *ZIP (Physical Package as defined in OPC)*
    - *Simplifies aggregation of XML and binary content*

- **OpenType and Unicode**
  - *Open Font Format (ISO/IEC 14496-22:2007)*
  - *The Unicode Standard, Version 4.0*
  - *Unicode Character Database, Revision 4.0.0*

- **International Color Consortium (ICC) colour profiles**
  - *Colour transform data format, ICC.1:2001-04, ISO 15076-1*

- **Standardized colour encodings**
  - *IEC 61966-2-1, IEC 61966-2-2*

- **TIFF, PNG, JPEG (ITU-T T.81 | ISO/IEC 10918-1)**
  - *Widely used image formats, supporting a variety of colour spaces, bit depths and compression algorithms (lossless and lossy)*

- **JPEG XR**
  - ***Standardized in ITU-T Rec. T.832 and ISO/IEC 29199-2 approved by JTC 1 SC29 in June 2009 – very close liaison on this topic since 2007***
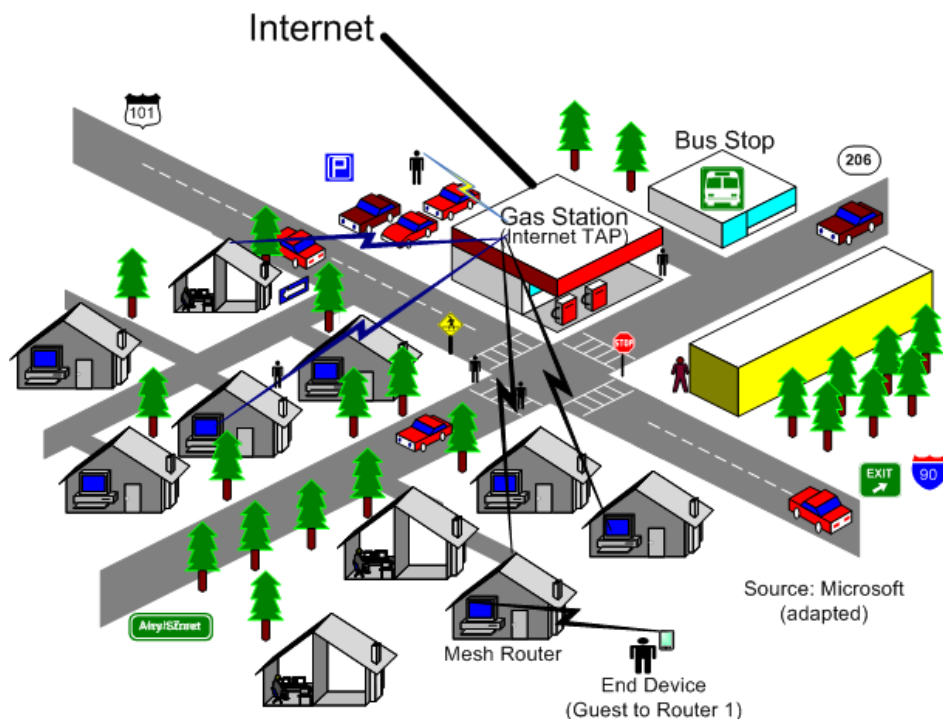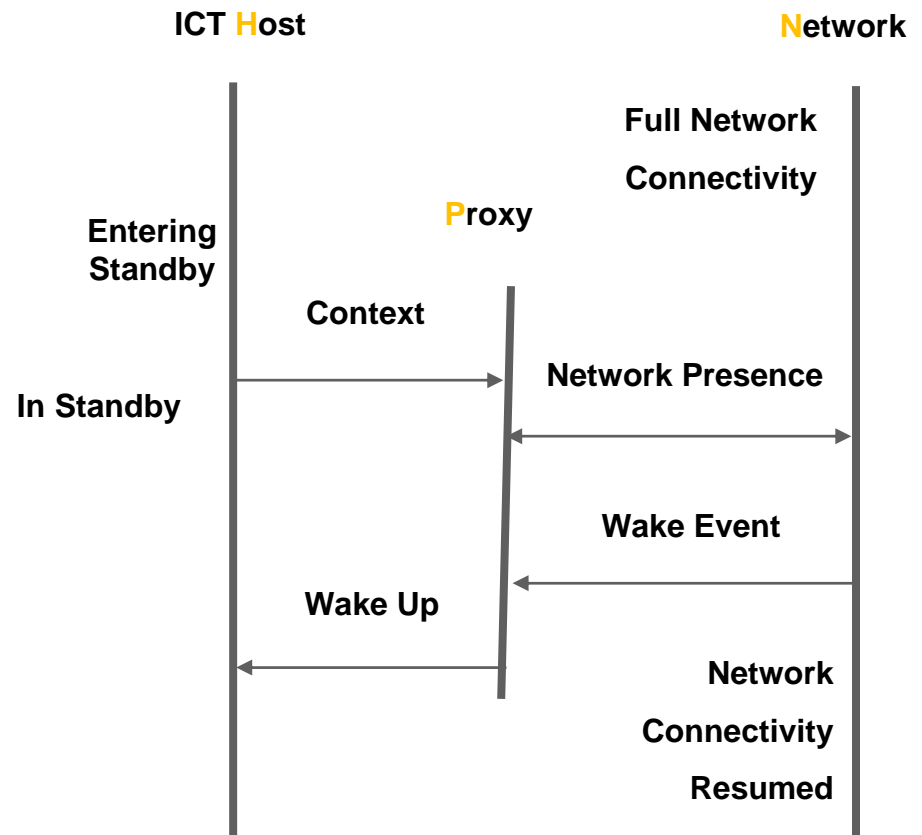
- **ECMA-388 (OpenXPS Specification) has been approved in June 2009 by the Ecma GA. No Fast-Track to JTC 1 is planned at present. Sometimes later…? Perhaps, but no decision has been taken by TC46 yet.**

- **As "side effect" of the standards process Ecma also approved:**

- **ECMA TR/98 JPEG File Interchange Format (JFIF) (June 2009)**

– THE de facto standard of JPEG file format since 1992.

- *TR/98 was also submitted to ITU-T SG16 and*

- *JTC 1 SC29 WG1 for information and comment with the result that it also became approved NWI both in ITU-T SG16 and in SC29 (not FT!)*

Conclusion: It was a "giving" and "taking" on both sides, and Ecma TC46 (and Ecma in general) is grateful for the fruitful co-operation with JTC 1. Thanks to SC29 and JTC1!!!

- Television white spaces will provide more widely available and cost effective access to the internet in underserved markets with superior propagation characteristics and much greater coverage range than existing unlicensed wireless technologies.

- Implementation subject to regulation

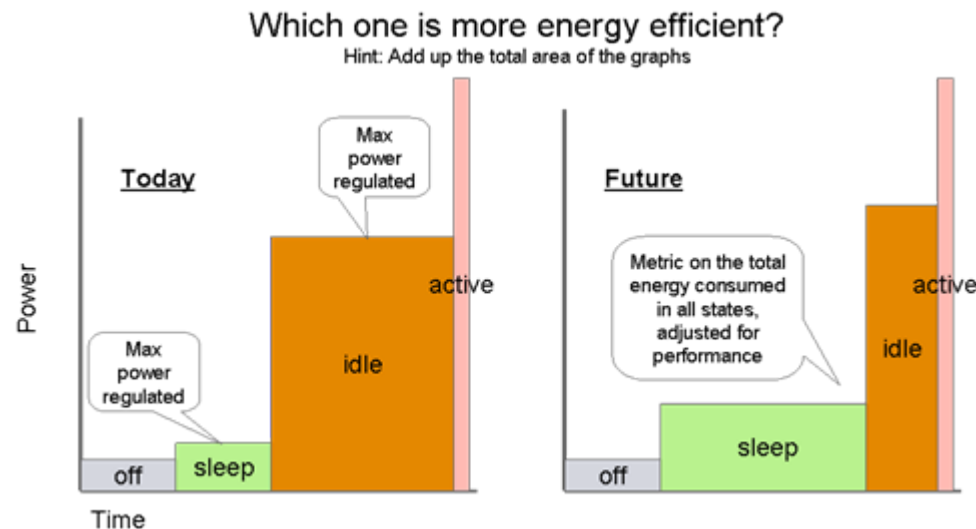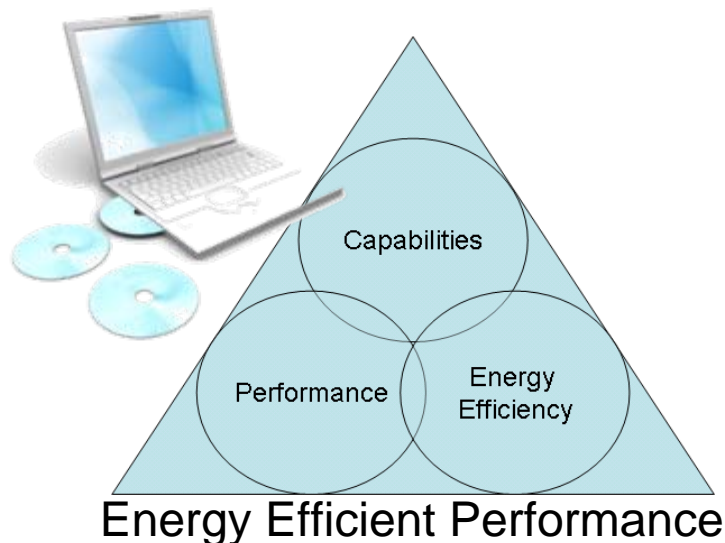- SC 06 invited to review 1st edition prior to possible FT.

Internet

Bus Stop

Gas Station
(Internet TAP)

Source: Microsoft
(adapted)

Mesh Router

End Device
(Guest to Router 1)

- **Proxies** maintain **N**etwork presence so sleeping, higher powered, **I**CT **H**osts reduce energy consumption:

- **Goals:**

  - Adoption by US Energy Star (Computers) v06 in 2010/11
  - EU Lot 26 Sleep State Regulations
  - Solicit DMTF & SC 06 for advance comments and propose SC 06 for possible FT

ICT Host   **Network**

Full Network
Connectivity

Proxy

Entering
Standby

Context

In Standby   →   **Network Presence**
                                    ←→

                                   Wake Event

Wake Up   ←

                              Network
                              Connectivity
                              Resumed

Compilation of an **Energy efficiency standard** with initial focus on desktop and notebook computers

Approach: Considering computer Energy Efficiency relative to Performance rather than only energy consumption.

Close cooperation with IEC/TC 108

Energy Efficient Performance

Determination of chemical emission rates (ECMA-328, ISO/IEC 28360)

- **TC38-TG1** is *integrating Measurement Methods on **Ultrafine Particle** Emissions considering actual findings of industrial and governmental research in the 5th edition*

- *Solicit advance feedback from SC 28 before possible FT*

- ***See also TC38's strategy plan***

- **Ecma International thanks JTC 1 for the fruitful co-operation and looks forward to continue it!**

- **Any questions, remarks?**

Rue du Rhône 114
CH-1204 Geneva
T: +41 22 849 6000
F: +41 22 849 6001

www.ecma-international.org