IEC TC100

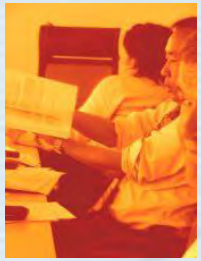
Presenting Ecma & a Collaboration work with IEC TC100

Kei Yamashita, TC31 Vice Chair

Brussels, Belgium,

22 May 2018

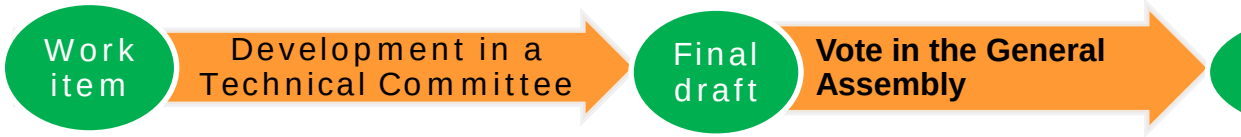


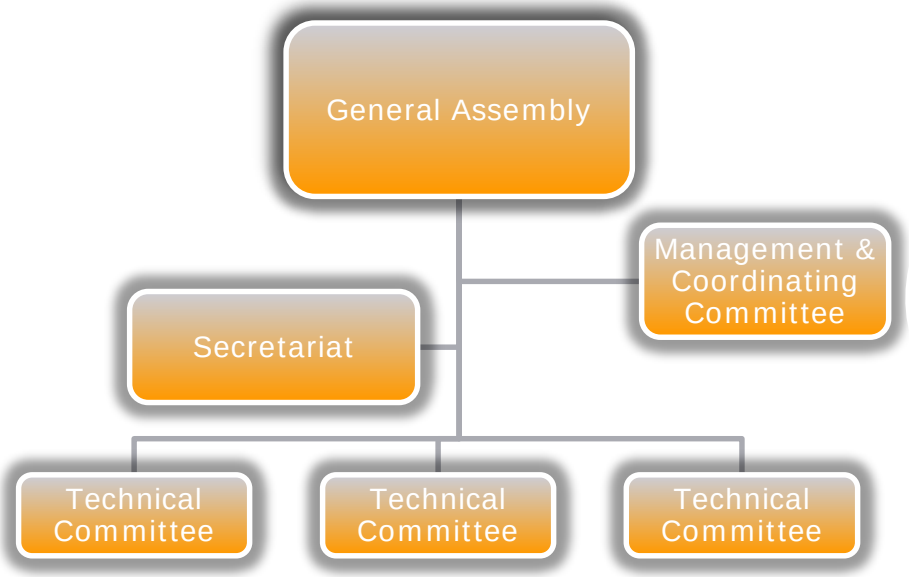



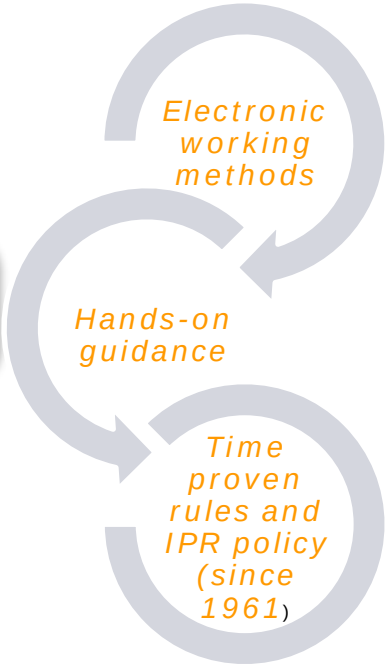
Ecma International in one picture

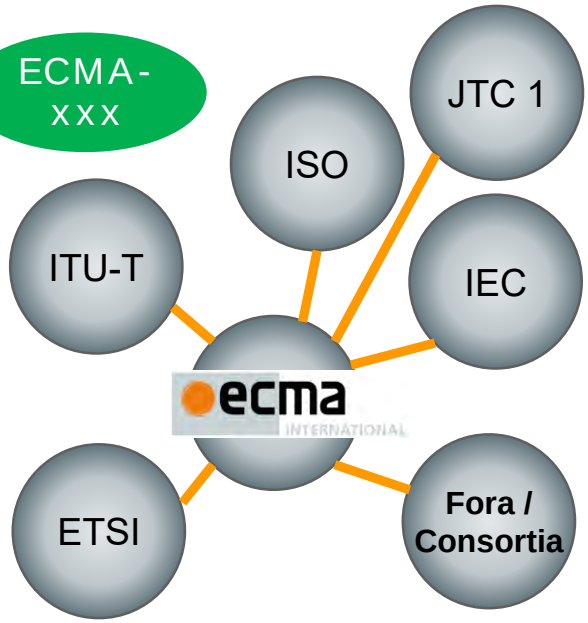
1961: ECMA formed – European Computer Manufacturers Association
1994: Name change to Ecma International

Two staged efficient process









Effective liaisons

Ecma process

Vote of the final Ecma draft
at the General Assembly (GA)

Final draft adopted by
consensus within the TC

GA vote on the
fast-track to JTC 1

Drafts reviewed by the
Technical Committee (TC)

New Work item roposal
(at least 3 memmbrs)

Information and Communications Technology (ICT) and Consumer Electronics (CE) standards

- *TC12 : Product Safety*
- *TC20 : Electromagnetic Compatibility (EMC)*
- *TC26 : Acoustics*
- *TC31 : Information Storage (Optical Storage)*
- *TC32 : Multimedia Coding and Communications*
- *TC38 : Environmental Design Considerations*
- *TC39 : ECMAScript*
- *TC43 : Universal 3D open file format*
- *TC45 : Office Open XML Formats*
- *TC46 : Open XML Paper Specification (OpenXPS)*
- *TC47 : Near Field Communications*
- *TC48 : High Rate Wireless Communications*
- *TC49 : Programming Languages*
- *TC51 : Access systems*
- *TC53 : Smart wearable systems and sensor-based devices*

Ecma's "business model"

Try to fill in the "holes" in standardization:

- *With small teams*
- *High speed*
- *High efficiency*
- *Flexible procedures*
- *In harmony and co-operation with other SDOs and Fora*

A few facts

Five membership categories:

to reflect the diversity of stakeholders in the ICT industry:

- Ordinary (OM), Associate (AM), Small and Medium-sized Enterprise (SME), Small Private Company (SPC) , Not-for-Profit (NFP: No charge)

Track record:

522 publications (standards/TRs), 239 also published by ISO/IEC

A-liaison with:

- ISO/IEC JTC 1 accelerates Ecma technical inputs into JTC 1
- *fast-track procedure* *(originally proposed by Ecma and accepted in 1987)*
- IEC TC100

Ecma IPR Policy

- Solid and proven patent policy similar to the patent policies of other SDOs (ITU-T/ISO/IEC/ETSI,..)
- Minimum RAND conditions along with a Royalty Free (RF) Patent Policy (this is important to some Open Source Project communities such as related to basic web standards)
- Software Copyright policy with Royalty Free BSD like license

Members

Ordinary (Full)

Google
HEWLETT PACKARD
HITACHI Inspire the Next
IBM
intel
KONICA MINOLTA
Microsoft
PayPal
YAHOO!

Associate

airbnb
Bloomberg
Canon
FUJITSU
GoDaddy
JREM
NETFLIX
NIPPON SIGNAL THE NIPPON SIGNAL CO.,LTD.
NXP founded by Philips
OMRON
RICOH
salesforce
TOSHIBA

SME Members

AXA Rosenberg
China IWNCOMM
HEAD acoustics
METEOR
SHAPE
xitrix www.xitrix.com

SPC Members

bocoup
Knowledge Initiatives
QUADRAC
TILDE

Not for Profit (NFP) Members

Archive Disc Test Center

Dr. G.R. Damodaran College of Science

Indian Institute of Technology Delhi

UC Santa Cruz

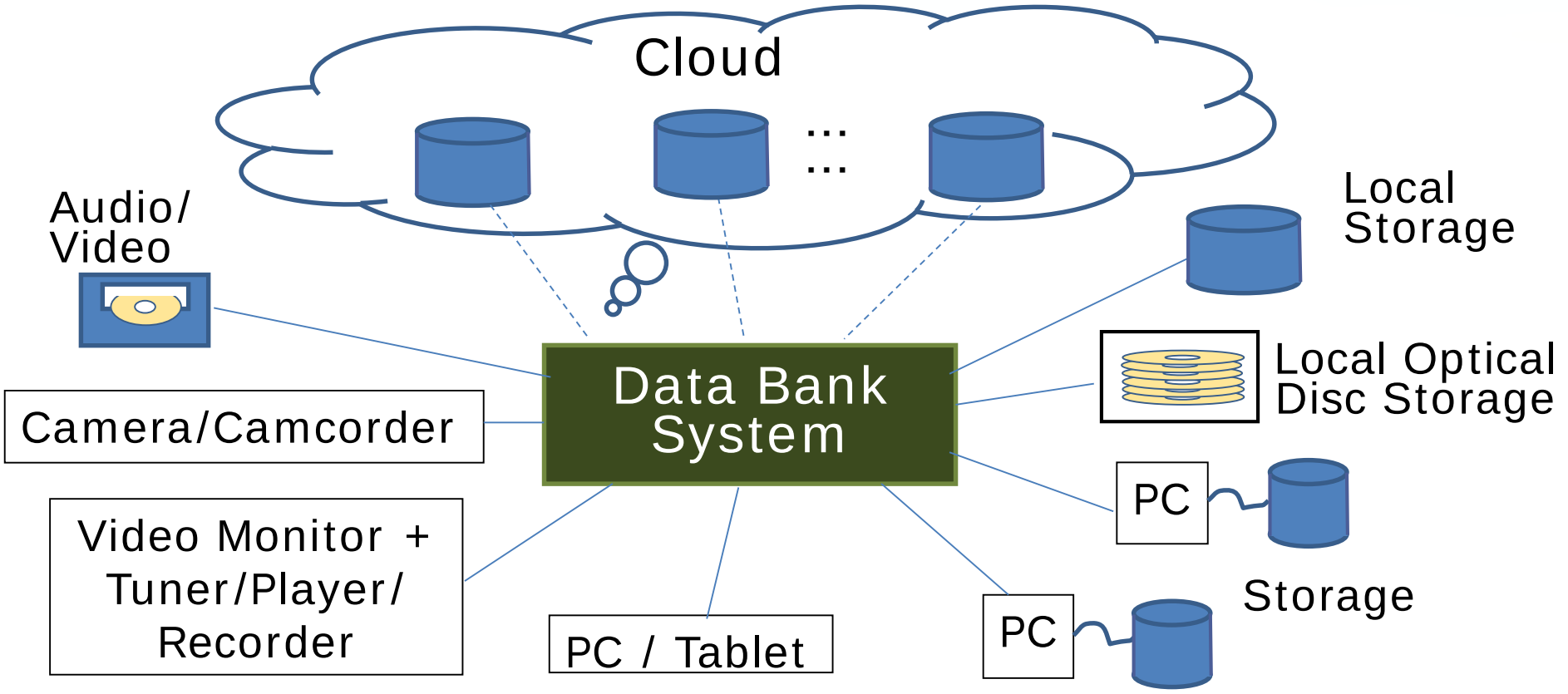
Scope

- Data interchange and storage by means of digitally recorded systems, e.g. optical, magnetic and holographic systems (such as disks, cartridges,...)
- Development of volume and file structure standards

Current Project

- HDSS : High capacity, High speed Hologram memory
- Data migration Method for BD
- CD ROM File format update (Joliet format inclusion: not started yet)
- Volume and File Format for Optical Archive System
- Quick Search format including Optical Correlation

Universal File System for Recording and Archival System as a DATA bank for Home



Target User: Personal, Home, (small offices and small organizations)

Requirement / Consideration

- The Data Bank System includes, not only an ICT equipment, such as a PC, a tablet and a home entertainment equipment, such as an A/V player, Camcorder, etc.
- All kind of the storage devices, ODD, HDD, Tape, Cloud, etc., which connected to the User owned Data Bank System can be seen as one storage system and is not necessary to worry about its data allocation or for the users to consider it.
- In order to make system flexible, powerful and robust, all of the data created by the User location is decided and stored in an appropriate place, if it is possible automatically by User owned Data Bank System, which is easy to manage his/her videos, photos, DRM managed Recorded TV contents and documents and minimize the storage reallocation.
- Even if some of the data storage devices from the storage system managed by a Data Bank system constructed with many storage devices are broken or missing, all of the data stored in the system can be retrieved and no data is missing.
- By using proper encryption technologies, the data privacy and security will be protected and make free from Ransomware

Title : Universal Archival Disk Format(UADF)

Scope (tentative)

Using existing system, format, mechanism as much as possible

1. To create Entire image (aspect) of the Digital storage system
2. To specify the system operation (API)
   (1) from the application point of view
   (2) from the user point of view.

Collaboration for the joint development of new UADF standard

Ecma TC31 would like to request IEC/TC100

1. To set a Joint Work Project or Group in TC100
2. To jointly develop a new file format, UADF, with Ecma TC31

Possible Procedure (will be discussed later)

- Developed standard will be published and managed as both IEC and Ecma standard
- IPR policy will be applied of each organization rule, such as RAND

Schedule

- Web meeting will be held once a month or every other month
- face to face meeting: every 3 month period, (e.g June, September, Dec.2018)

Thank you!

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