

IPC Working Group 28-

Update on IT support for the IPC

Geneva
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Agenda

Updates on IPC-related IT support

- IPC-Eforum
- IPC Validity file
- IPC Definitions 2013
- IPCRECLAS status
- Web services for Internet publication
- Web services for IPCCAT

IPC E-FORUM

What happened since IPC WG27?

- Opening for production use: Occurred as planned on April 12, 2012
- [CE445](#) project for feedback
- Adjustment and fixes end of September
- List of suggestions (until October 20th) reviewed
- Users workarounds (e.g. « save » rapporteur summary)

IPC E-FORUM

Perspectives:

- Implementation of IB approved suggestions
- Further improve communication (e.g. list of acronyms, quality of the on-line help...)
- Target date end of 2012

IPC Validity file

What happened since IPC WG27?

- Early publication of the validity file: June 25
- Errors found: September 18
- Replacement validity file: October 19

IPC Validity file

How can the quality control process be improved?

- Further improve RIPCIS quality control procedure?
- Earlier possible problem detection by offices

IPC 2013 definitions

Status?

- 102 definitions approved (including 23 updates)
- 82 could not be captured as-is into RIPCIS e.g. G01R
- 5 weeks+ to get 2013 definitions published (through workarounds)

IPC 2013 definitions

What really happens?

- The MSWord template cannot address all IPC definition constraints
- 3 levels of indent approved where IPC definitions master file does not allow for it
- Non conformity with IPC definition DTD (8)
- Adjustment required (72)
- Approval is not based on « what you see is what will be published »

IPC 2013 definitions proposal in IEF

Definition statement

This [subclass](#) covers:

Measuring electric variables or properties

Measuring electric variables directly, e.g. electromechanical instruments (see [Glossary of terms](#)) where the measured electric variables directly affect the indication of the measured value.

Measuring electric variables by derivation from other electric variables, i.e. arrangements (see [Glossary of terms](#)) involving circuitry to obtain an indication of a measured value by deriving, calculating or otherwise processing electric variables, e.g. by comparison with another value.

Measuring or investigating electric properties of materials.

Electric testing of analogue or digital electric devices, apparatus or networks, or measuring their characteristics.

Indicating presence or sign of current or voltage.

The following technical subjects are therefore covered, the list being non-exhaustive:

- measuring time integral of electric power or current, e.g. of consumption
- displaying electric variables or waveforms
- measuring currents or voltages or for indicating presence or sign thereof
- measuring electric power or power factor
- measuring time integral of electric power or current, e.g. by electronic methods
- measuring frequencies; analysing frequency spectra
- measuring phase angle between a voltage and a current or between voltages or currents
- measuring resistance, reactance, impedance, or electric characteristics derived therefrom

IPC 2013 definitions in IPCPUBPREP

G01R - Definition II

Definition statement

This subclass covers:

Measuring electric variables or properties

Measuring electric variables directly, e.g. electromechanical instruments (see Glossary of terms) where the measured electric variables directly affect the indication of the measured value.

Measuring electric variables by derivation from other electric variables, i.e. arrangements (see Glossary of terms) involving circuitry to obtain an indication of a measured value by deriving, calculating or otherwise processing electric variables, e.g. by comparison with another value.

Measuring or investigating electric properties of materials.

Electric testing of analogue or digital electric devices, apparatus or networks, or measuring their characteristics.

Indicating presence or sign of current or voltage.

The following technical subjects are therefore covered, the list being non-exhaustive:

- measuring time integral of electric power or current, e.g. of consumption
- displaying electric variables or waveforms
- measuring currents or voltages or for indicating presence or sign thereof
- measuring electric power or power factor
- measuring time integral of electric power or current, e.g. by electronic methods
- measuring frequencies; analysing frequency spectra
- measuring phase angle between a voltage and a current or between voltages or currents
- measuring resistance, reactance, impedance, or electric characteristics derived therefrom
- testing electric properties of apparatus, such as discharge tubes, amplifiers, transistors, integrated circuits
- locating electric faults
- electrical testing characterised by what is being tested not provided for elsewhere
- testing for digital signal parameters (delay, skew, signal level) and characterization of device performance by use of test patterns; test apparatus or integrated test circuits therefor; methods for test pattern generation

IPC 2013 definitions

What can be done to improve the situation?

- IB to propose a solution (an on-line service) to create IPC definitions revision proposals (and only those that can be imported into RIPCIS without any file modification)
- Towards « what is approved is what will be published »

IPCRECLASS

What happened since IPC WG27?

- **RESIDUAL** Working Lists uploaded for 2009, 2010, 2011 (June 7)
- Low number of reclassification e.g. 4,100 for 2012.01
- CE446 project for feedback from offices
- Upload of 569431 working lists for IPC 2013.01 (Oct. 31)
- IPCRECLASS login is now Case insensitive

IPCRECLASS

Perspectives:

- IB to consider CE446 suggestions
- Implementation of IB approved suggestions and reported bugs
- Consider implementation of default transfer for stage 3

Web services for Internet publication

Current STATUS: Several are available

- Described under the [IPCPUBPREP on-line help](#)
- REST architecture services
- Not targeted for end users
- for software application implementation (e.g. IPCRECLASS)

Web services for Internet publication

Current STATUS: Several are available

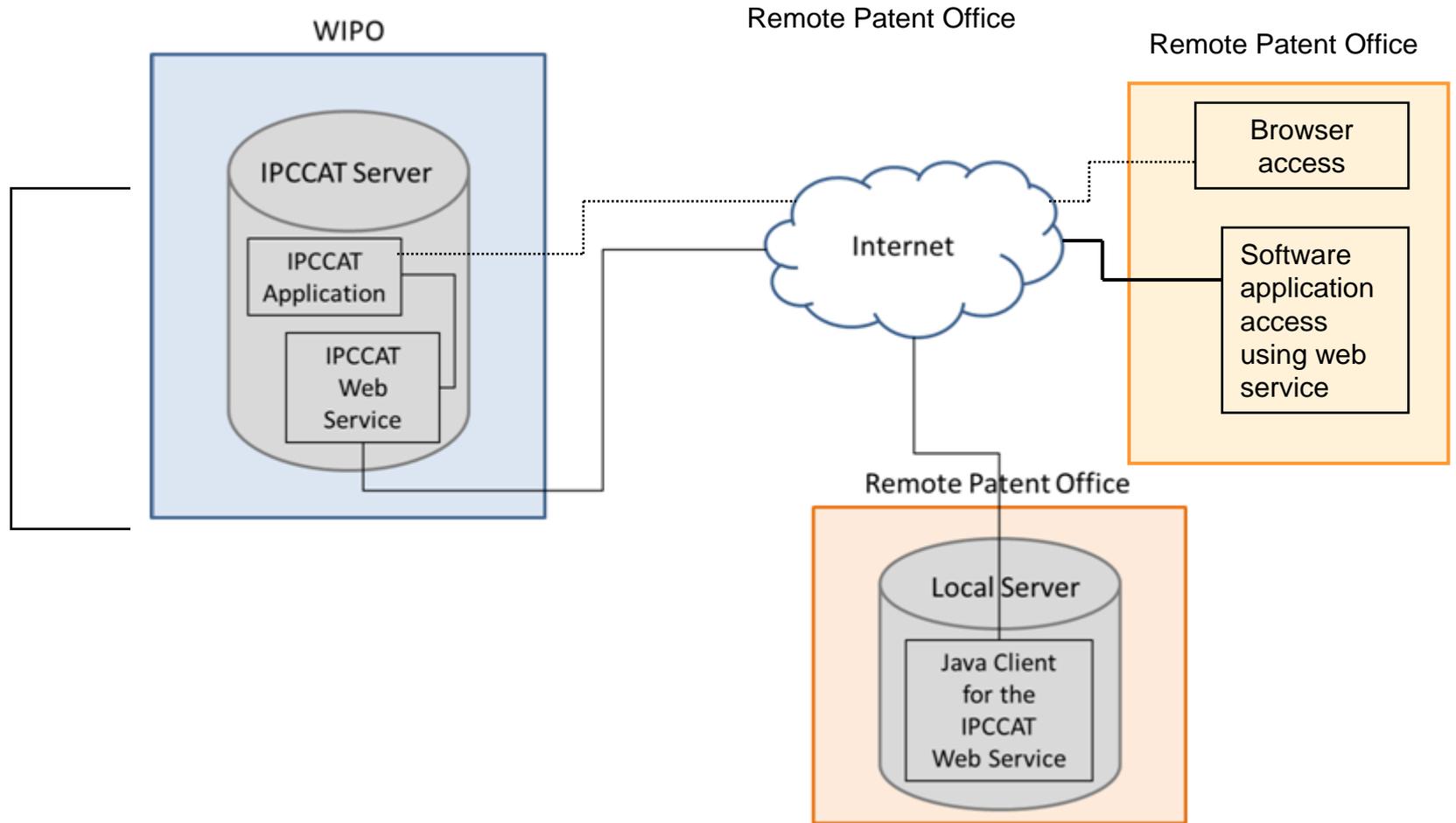
- Described under the [IPCPUBPREP on-line help](#)
- To get what is the latest published version of the IPC
- To check IPC Symbol Validity,
- To get an IPC Symbol version indicator,
- To transform one xml definition into HTML

Web services for IPCCAT

STATUS: Deployment in progress

- IPCCAT web services requested by some Offices
- Deployment: mid-November 2012
- under IPC-IT download and IT support
 - Documentation (including WSDL file)
 - JAVA prototype to illustrate calls to Web services

IPCCAT web service architecture



Web services for IPCCAT

The XML fragment used for call includes:

- The text of the document to be classified
- Language in which the text is written (English or French)
- The IPC level at which the classification should be proposed
- Number of predictions

Web services for IPCCAT

Returned XML fragment:

- number of predicted categories at the requested IPC level, along with a confidence score for each prediction

Java client to illustrate calls to IPCCAT Web services

IPCCAT Web Service Client

WS url: WS is alive

File name Language Level Nb. predictions

Text to be classified

A method of sharing files between user devices connected to a common network, e.g. in accordance with IEEE 802.1 lb, where each user device can detect and use services of the other user d

Rank	Category	Neural Network score
1	G06	1020
2	H04	1016
3	B42	832

Status: Classification successfully performed

IPCCAT

Perspectives:

- Upgrade to 64 bits architecture: Q4 2012
- Retraining based on IPC 2012.01 reclassified documents (DOCDB XML): Q1 2013

Update on IT support for the IPC

■ QUESTIONS?

contact WIPO at claims@wipo.int