

# 4<sup>th</sup> EPO-USPTO CPC Annual Meeting with National Offices

(in more than one direction)

F16M11/2042 •••• {constituted of several dependent joints}

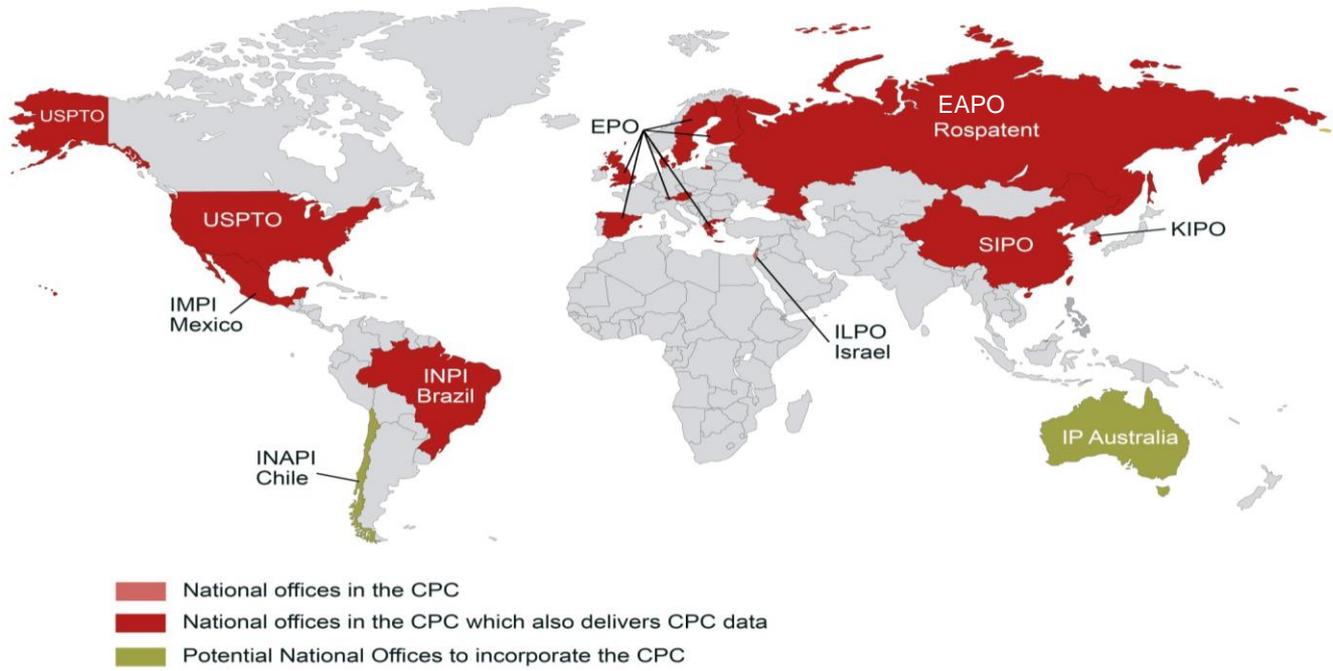
F16M11/205 ••••• {the axis of rotation intersecting in a single point e.g. gimballs}

# Agenda

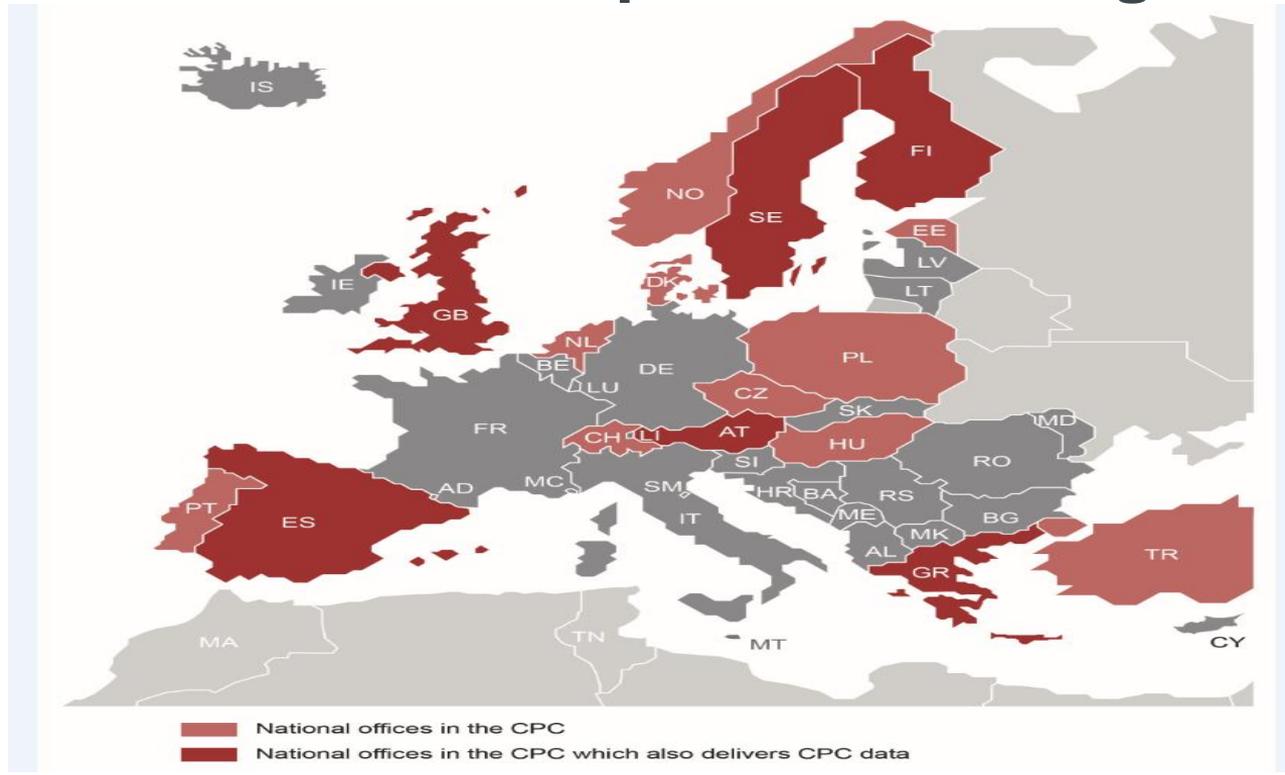
- CPC and National Offices
- CPC coverage – Much more than EP and US documents and update
- CPC Implementation at National Offices
- CPC: Latest Status and Future Development

# CPC and National Offices

# Around the world



# 16 Offices within the European Patent Organisation



# CPC coverage - Much more than EP & US documents...

# CPC documentation coverage

Country	CC	Code	Systematically classified**	Non-systematically classified
ARIPO	AP		complete from 1 (3/7/1985)	
Austria	AT*	A,B	from 288 286 (15/1/1971)	from 100 022 (1925)
Australia	AU*	B,D	from 18/1/1973 (first filing: 1971)	from 1 019 332 (1933)
Belgium	BE		from 100 486 (1892)	years 1959-1962
Canada	CA*		from 848 159 (4/8/1970) for first filling residents from 939 101 (1/1/1974)	from 114 746 (1908)
Switzerland	CH	A,B D	from 208 320 (31/1/1939) from 1968	from 1 (1888)
Germany	DE	A,B,C U	from 1 (1877) from 6 609 798 (04/1/1973)	from 1 037 492 (1928)
EPO	EP	A	complete from 1 (20/12/1978)	
France	FR	A,B E	from 292 (1844) from 92 701 (20/12/1968)	
United Kingdom	GB	A,B	from 1909 02 488 (27/1/1910)	from 1817 04 136 (1817)
Luxembourg	LU		from 555 (<1920)	
The Netherlands	NL		from 28 (1913)	
OAPI	OA		complete from 1 (15/01/1966)	
The United States	US	A,B	complete from 1 (13/07/1836)	
		E	complete from 8 (23/4/1839)	
		I (defensive)	complete from 120 (04/10/1855)	
		I (trial, project)	complete from 1 (03/12/1985)	
		H	complete from 1 (03/12/1985)	
World(PCT)	WO		complete from 7800001 (19/10/1978)	

\* for first filings only ie. without foreign priorities

\*\* when the indication "complete" is not present, this means that some documents in the collection may not be classified in CPC

# Intellectual Classification of WO publications in CPC by the EPO

Since January 2016, **WO** documents in languages other than EPO official languages, e.g. in **Japanese, Korean, Chinese or Russian**, are not intellectually classified in CPC by the EPO anymore

- IPC allocations provided by National Office are mapped to CPC symbols
- Intellectual classification by the EPO still takes place for applications searched by the EPO, i.e. where family members are available in **English, German, French or Dutch**

## CPC Coverage of the EPO Core Collection (EPODOC, 1 February 2017)

Country	Country Code	Number of documents (source: EPODOC on 01/02/2017)	Number of publications classified in CPC (family or document level)	% publications classified in CPC (family or document level)
EPO	EP	3.115.428	3.113.030	99,9%
United States	US	12.001.112	11.650.065	97,1%
Austria	AT	1.003.656	649.104	64,7%
Belgium	BE	585.582	551.554	94,2%
Switzerland	CH	715.369	576.238	80,6%
Germany	DE	5.544.142	4.740.975	85,5%
France	FR	2.415.748	2.395.208	99,1%
United Kingdom	GB	2.374.136	2.118.079	89,2%
Luxembourg	LU	61.825	60.773	98,3%
The Netherlands	NL	544.678	532.843	97,8%
ARIPO	AP	3.910	3.718	95,1%
Australia	AU	1.510.265	1.360.654	90,1%
Canada	CA	2.361.563	1.269.831	53,8%
OAPI	OA	13.432	13.191	98,2%
WIPO (PCT)	WO	2.994.234	2.998.490	100,1%

## CPC Coverage of other patent collections (EPODOC, 1 February 2017)

Country	Country Code	Number of documents (source: EPODOC on 01/02/2017)	Number of publications classified in CPC (family or document level)	% publications classified in CPC (family or document level)
Portugal	PT	110.967	100.790	90,8%
Spain	ES	1.089.296	629.519	57,8%
Norway	NO	200.974	171.479	85,3%
Sweden	SE	519.265	330.853	63,7%
Finland	FI	194.071	112.202	57,8%
Poland	PL	273.302	86.310	31,6%
Hungary	HU	117.983	73.100	62,0%
Czech Republic	CZ	90.041	42.734	47,5%
Turkey	TR	62.045	28.661	46,2%
Greece	GR	99.533	52.753	53,0%
Hungary	HU	117.983	73.100	62,0%
Estonia	EE	6.958	5.278	75,9%
Korea	KR	3.245.572	1.420.956	43,8%
China	CN	12.159.983	2.406.586	19,8%
Russian Fed.	RU/S U	2.183.555	306.103	14,0%
Brazil	BR	605.674	380.715	62,9%
Chile	CL	15.496	11.344	73,2%
Mexico	MX	263.843	239.169	90,6%
Israel	IL	98.571	84.600	85,8%

**Overall, 46.7 million documents classified in CPC**

## CPCNO data delivered by National Offices (EPODOC, Update 1 February 2017)

Country	Country Code	Number of publications with CPCNO symbols (document level)
Austria	AT	6.492
Brazil	BR	8.062
China	CN	358.925
Finland	FI	4.575
United Kingdom	GB	127.252
Greece	GR	5.304
Korea	KR	530.676
Mexico	MX	1.516
Russian Fed.	RU/SU	5.748
Spain	ES	31.460
Sweden	SE	139.832

# CPC Implementation at National Offices

# CPC Implementation at National Offices

**Training** (Scheme & Definitions, E-learning modules\*, CPC General training, CPC Advanced training, CPC Collective Training Events, Field-specific videos, Field-specific training material\*\*, etc.)

\* See new training **e-learning modules** by the EPO European Patent Academy on the [cpcinfo.org](http://cpcinfo.org) website (January 2016):

- [Using CPC in classification](#)
- [Practical and strategical aspects of the CPC](#)

\*\* See on <https://epoxy.epo.org/> - follow the path: EPOQUE Net >> Users >> CPC >> CPC Training documents.

**Quality measures** (e.g. interaction with experts, feedback, automated comparison)

**IT support**

# FST training material

Europäisches Patentamt  
 European Patent Office  
 Office européen des brevets
 
epoxy

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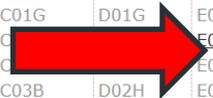
**Welcome to the Field-Specific Training (FST) materials page!**

These materials are made available to a restricted number of Intellectual Property Offices.

For any comment on a particular FST, please contact [cpc@epo.org](mailto:cpc@epo.org)

Disclaimer: All content was valid at time of production of the original material but can be outdated by the time of its publication and/or use. The use made of this material and any elements or information taken out of it is the exclusive responsibility of the User. The EPO and USPTO decline all responsibility for any use of the material and provide the User with no guarantee as to the quality thereof. The material can be copied and/or adapted, and adapted versions can be shared under the conditions of mentioning that these are adaptations of an original material provided by EPO/USPTO. However, no commercial use of the material is permitted, neither of the original nor of any modified form

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<a href="#">A01B</a>	<a href="#">B01B</a>	<a href="#">C01B</a>	<a href="#">D01B</a>	<a href="#">E01B</a>
<a href="#">A01C</a>	<a href="#">B01D</a>	<a href="#">C01C</a>	<a href="#">D01C</a>	<a href="#">E01C</a>
<a href="#">A01D</a>	<a href="#">B01F</a>	<a href="#">C01D</a>	<a href="#">D01D</a>	<a href="#">E01D</a>
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<a href="#">A01G</a>	<a href="#">B01L</a>	<a href="#">C01G</a>	<a href="#">D01G</a>	<a href="#">E01G</a>
<a href="#">A01H</a>	» Document 1:	<a href="#">C01H</a>	<a href="#">D01H</a>	<a href="#">E01H</a>
<a href="#">A01J</a>	<a href="#">B01L USPTO 20141020 PPT</a>	<a href="#">C01J</a>	<a href="#">D01J</a>	<a href="#">E01J</a>
<a href="#">A01K</a>	<a href="#">B02B</a>	<a href="#">C03B</a>	<a href="#">D02H</a>	<a href="#">E02B</a>
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<a href="#">A01M</a>	<a href="#">B03B</a>	<a href="#">C04B</a>	<a href="#">D03C</a>	<a href="#">E03B</a>
<a href="#">A01N</a>	<a href="#">B03C</a>	<a href="#">C05B</a>	<a href="#">D03D</a>	<a href="#">E03C</a>
<a href="#">A21B</a>	<a href="#">B03D</a>	<a href="#">C05C</a>	<a href="#">D03J</a>	<a href="#">E03D</a>
<a href="#">A21C</a>	<a href="#">B04B</a>	<a href="#">C05D</a>	<a href="#">D04B</a>	<a href="#">E03E</a>



CPC Classification Workshop

B01L - Chemical or Physical Laboratory Apparatus for General Use

Visit to USPTO, 20-22.10.2014  
Ralph Tiede



# CPC Training in 2016 (EPO)

- New training **e-learning modules** by the EPO European Patent Academy on the [cpcinfo.org](http://cpcinfo.org) website (January 2016):
  - [Using CPC in classification](#)
  - [Practical and strategical aspects of the CPC](#)
- **CPC General and Advanced Training Event** for National Offices (EPO member states and non member states) applying CPC (EPO The Hague, 1-2 June 2016)
- **Field-specific Training** for a limited number of National Offices (**according to bilateral agreements**) on EPO premises

# CPC Training in 2016 - 2017 (USPTO)

## CPC General and/or Advanced Training Event for National Offices:

- KIPO – March 2016
- KIPO – April 2017
- KIPO – November 2016
- KIPO – May 2017
- KIPO – December 2016
- KIPO – October 2017
- ISRAEL – July 2016
- KIPO – December 2017
- ISRAEL - TBD

# Overview of CPC implementation (1/3)

Country	Front file national invention applications	CPC Printed?	CPC data delivered to the EPO	classification over whole CPC scheme	PCT applications	Backfile	Utility models
AUSTRIA	Yes (ECNO office)	No	Yes	yes	No	No	Yes
BRAZIL	2014	Yes	Yes	Currently partial coverage (from the 12 divisions trained out of 20 divisions of INPI incl. Utility Model division)	Yes (transmitted to WIPO in SR – data exchange with EPO to be defined)	Not yet - Under consideration	Yes (all)
CHINA	Yes, since 2014		Yes	Partial from 2014 Over whole scheme since January 2016	Under consideration	Under consideration	Under consideration
CZECH REPUBLIC	Yes	No	No	Yes	No (Only within VPI appl. as ISA)	No	Yes
EAPO	Yes, starting Jan 2019	No	No	Limited to fields where advanced training provided	N/A	Yes, starting Jan 2020	TBC
DENMARK	TBC	No	No	TBC	N/A	TBC	TBC
ESTONIA	Starting 2016	No	No	Yes	Yes	No commitment	Yes

# Overview of CPC implementation (2/3)

Country	Front file national invention applications	CPC printed?	CPC data delivered to the EPO	classification over whole CPC scheme	PCT applications	Backfile	Utility models
<b>FINLAND</b>	Yes (ECNO office)	No	Yes	yes	TBC	No commitment	N/A
<b>GREECE</b>	2015	Yes	Yes	yes	N/A	No commitment	N/A
<b>ISRAEL</b>	Sept 2016	No	Planned until the end of 2017	TBC	Receiving classification data from USPTO(started at September 2016)	None	None
<b>HUNGARY</b>	TBC	No	No	TBC	N/A	TBC	TBC
<b>KOREA</b>	2014	No	Yes	Partial in 2014 (25 areas) Over whole scheme since January 2015	Yes, since 7 June 2016. Way to exchange data to be defined	2004 to 2014; done by end 2018	N/A
<b>MEXICO</b>	yes	No	yes	yes	N/A	Expected to start in January 2017 subject to availability of resources	Yes (acc. to MoU)
<b>NETHERLANDS</b>	Expected in 2017	No	No	yes	N/A	No commitment	N/A

# Overview of CPC implementation (3/3)

Country	Front file national invention applications	CPC printed?	CPC data delivered to the EPO	classification over whole CPC scheme	PCT applications	Backfile	Utility models
<b>NORWAY</b>	October 2015	No	No	yes	N/A	Planned to start in 2018	N/A
<b>POLAND</b>	TBC	No	No	TBC	N/A	TBC	TBC
<b>PORTUGAL</b>	March 2015	No	No	yes	N/A	No commitment	N/A
<b>RUSSIAN FEDERATION</b>	January 2016	Yes	Yes (May 2016)	yes	Yes for national ap / Not yet for international – delivery method to be defined	Under consideration	Yes
<b>SPAIN</b>	Yes (ECNO office)	No	Yes (2013)	yes	TBC	partially	N/A
<b>SWEDEN</b>	Yes (ECNO office)	No	Yes (2013)	yes	TBC	Yes (+ DPK)	N/A
<b>SWITZERLAND</b>	(expected) second half 2016	No	No	yes	N/A	No commitment	N/A
<b>TURKEY</b>	Expected in 2017	No	No	TBC	N/A	TBC	TBC
<b>UNITED KINGDOM</b>	CPC has been applied to all new applications from 28/10/2013	No	Supplied weekly via ST36XML file (sent via FTP)	UK examiners classify in CPC across CPC sections A-H	When PCT applications enter the national phase, Examiners add CPC (and revise IPC) prior to republication.	CPC classification is not applied to the backfile	N/A

# IT matters

## OPS RESTful web services (classification)

These provide access to the EPO's raw data via a standardised XML interface.

The web services focussing on classification relate to:

- CPC Search
- CPC Media retrieval
- CPC Retrieval

[OPS - RESTFul](#)

# CPC schema changes

- **Schema changes** for the CPC scheme and definitions in November 2016 !!!

Impacted areas:

- References in Definitions
  - Enhanced references in Scheme and Definitions
  - Change in Synonyms and Keywords
- 
- Details were made available on [www.cpcinfo.org](http://www.cpcinfo.org) in May 2016, to be effective as of the **November 2016** CPC release

# CPC: Latest Status

# CPC Scheme and Definitions

- [www.cpcinfo.org](http://www.cpcinfo.org)



## CPC scheme and CPC definitions

This page is regularly updated. Please check the following page for [the latest release notes](#).

Only the CPC scheme and definitions published on this page are the official versions. The scheme and definitions are only published in English language. The USPTO and EPO cannot be held responsible for the content of translated versions that could be made available by third parties.

## CPC scheme and CPC definitions

A		B		C		D		E		F		G		H		Y
Scheme	Def	Scheme														
A	A	B	B	C	C	D	D	E	E	F	F	G	G	H	H	Y
A01B	A01B	B01B	B01B	C01B	C01B	D01B	D01B	E01B	E01B	F01B	F01B	G01B	G01B	H01B	H01B	Y02B
A01C	A01C	B01D	B01D	C01C	C01C	D01C	D01C	E01C	E01C	F01C	F01C	G01C	G01C	H01C	H01C	Y02C
A01D	A01D	B01F	B01F	C01D	C01D	D01D	D01D	E01D	E01D	F01D	F01D	G01D	G01D	H01F	H01F	Y02E
A01F	A01F	B01J	B01J	C01F	C01F	D01F	D01F	E01F	E01F	F01K	F01K	G01F	G01F	H01G	H01G	Y02T
A01G	A01G	B01L	B01L	C01G	C01G	D01G	D01G	E01H	E01H	F01L	F01L	G01G	G01G	H01H	H01H	Y04S

- [worldwide.espacenet.com/classification](http://worldwide.espacenet.com/classification)
- [www.uspto.gov/web/patents/classification/index.html](http://www.uspto.gov/web/patents/classification/index.html)

# CPC Scheme and Definitions

- <http://www.cooperativepatentclassification.org/cpcSchemeAndDefinitions.html>

## CPC Scheme and Definitions

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**Bulk**

CPC Revisions

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CPC XML Schemas:

- [For the CPC Scheme](#)
- [For the CPC Definitions](#)

[CPC Validity file \(2017.02\)](#)

[Complete CPC scheme in XML format \(2017.02\)](#)

[Complete CPC scheme in PDF format \(2017.02\)](#)

- [www.uspto.gov/web/patents/classification/index.html](http://www.uspto.gov/web/patents/classification/index.html)
- [worldwide.espacenet.com/classification](http://worldwide.espacenet.com/classification)

# CPC Revisions

- **CPC Revisions** Projects (RP), **Maintenance** projects (MP) and **Definition** projects (DP) are bilaterally discussed in the CPC e-forum (CEF)
- CPC-NO offices have been granted **read access to the CEF** and can submit input or feedback via the email addresses:
  - [cpc@uspto.gov](mailto:cpc@uspto.gov)
  - [cpc@epo.org](mailto:cpc@epo.org)
- **Notices of Changes (NoCs)** are published one month before entry into force
  - published in the [www.cpcinfo.org](http://www.cpcinfo.org) site
    - section Revisions, Notices of Changes
      - NoC title linked to RP number and subclass
- 300 NoCs published so far

# Total number of On Going CPC projects (as of January 2017):

CPC	CPC Projects	
	Maintenance Projects (MP)	Revision Projects (RP)
Section A	15	38
Section B	26	33
Section C	10	26
Section D	05	02
Section E	03	04
Section F	13	05
Section G	16	23
Section H	17	36
Section Y	01	01
Miscellaneous/Various	08	01
<b>Total</b>	<b>114</b>	<b>169</b>

Cooperative Patent Classification  
European Patent Office  
United States Patent and Trademark Office

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- CPC Revisions**
  - Notice of Changes
  - Projects 
  - Pre-release
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- CPC Training
- Events



## CPC Revisions

In this area, information regarding changes made to the CPC scheme will be published in the form of "Notice of Changes" (formerly know as CPC Classification orders).

Information will also be provided about ongoing CPC Scheme revision projects.

Under the navigation title "Pre-release", as of May 2014, material such as the scheme, notices of changes, concordances, will be made available to the public **about one month ahead of official entry into force** of the corresponding material.

<http://www.cooperativepatentclassification.org/CPCRevisions.html>

# Advance information?

[www.cpcinfo.org](http://www.cpcinfo.org)

- Short summary of the ongoing CPC revision projects:

<http://www.cooperativepatentclassification.org/CPCRevisions/Projects.html>

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- CPC Scheme and Definitions
- CPC Revisions**
  - Notice of Changes
  - Projects**
  - Pre-release
- CPC Concordances
- CPC Training
- Impact
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- Publications



## Ongoing CPC Projects

The CPC areas currently undergoing maintenance (MP) or revision (RP) are listed in the table below together with the corresponding project number. Once finalized, the outcome of these projects will be summarized in a Notice of Change to be published one to two months before the corresponding changes are implemented in the CPC Scheme.

Project number	Status	CPC	Title
RP0023	Active	A01H1/00-1/08;5/00-5/12	Flowering Plants
RP0025	Active	B64D	Equipment for fitting in or to aircraft

# Published Notice of Changes in CPC:

Year	CPC Projects		
	Maintenance Projects (MP)	Revision Projects (RP)	Definition Projects (DP)
2017	12	17	01
2016	68	55	52
2015	16	57	21
2014	06	31	00
2013	03	09	00

<http://www.cooperativepatentclassification.org/CPCRevisions/NoticeOfChanges.html>

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 European Patent Office  
 United States Patent and Trademark Office

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**Notice of Changes**

**CPC 2015.04:**

- [CPC Notice of Changes 65-RP0022 \(B60N\)](#)
- [CPC Notice of Changes 66-RP0031 \(B65H\)](#)
- [CPC Notice of Changes 67-RP0036 \(F24D\)](#)
- [CPC Notice of Changes 68-RP0047 \(B81C\)](#)
- [CPC Notice of Changes 69-RP0049 \(A61F\)](#)

# CPC Scheme Releases

- Four to five times per year
- Announced on [www.cpcinfo.org](http://www.cpcinfo.org)

## 2017

- 1 January 2017
- 1 February 2017
- 1 May 2017
- 1 August 2017

# CPC Guide:

Available on <http://www.cooperativepatentclassification.org/index.html> since 1 February 2017 under **Publications**

## Publications

CPC Annual Reports

Presentations

Miscellaneous

Press releases

Links

FAQ



## CPC XML schemas:

- Changes to be introduced in November 2016:
  - [Notification of schema \(xsd\) changes for CPC scherr](#)
  - [Schema and sample files](#)

## Guide to the CPC:

- [Guide to the CPC \(Updated 1 February 2017\)](#)

## Guide to the CPC (Cooperative Patent Classification)

<b>Document owner</b>	EPO and USPTO
<b>Office Contacts</b>	EPO Directorate Classification & Documentation; USPTO Classification Standards and Development
<b>EPO internal owners</b>	Owner: Chairman DOC; Deputy: Director Classification & Documentation
<b>USPTO internal owners</b>	Owner: Director, Classification Standards and Development
<b>Approved on</b>	
<b>Document ID</b>	Version 1.0
<b>Revision number</b>	4.00

<http://www.cpcinfo.org/publications/GuideToTheCPC.pdf>

- Revised version of the CPC Guide will be available in second half of 2017.

# Guide to the CPC

- New version of the CPC Guide available on [www.cpcinfo.org](http://www.cpcinfo.org) since February 2017 under **Publications** (new section on C-Sets)

Publications

- CPC Annual Reports
- Presentations
- Miscellaneous**

Press releases

Links

FAQ

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  - [Notification of schema \(xsd\) changes for CPC scherr](#)
  - [Schema and sample files](#)

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- [Guide to the CPC \(Updated 1 February 2017\)](#)

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## Guide to the CPC (Cooperative Patent Classification)

<b>Document owner</b>	EPO and USPTO
<b>Office Contacts</b>	EPO Directorate Classification & Documentation; USPTO Classification Standards and Development
<b>EPO internal owners</b>	Owner: Chairman DOC; Deputy: Director Classification & Documentation
<b>USPTO internal owners</b>	Owner: Director, Classification Standards and Development
<b>Approved on</b>	
<b>Document ID</b>	Version 1.0
<b>Revision number</b>	4.00

# List of subclasses where 2000 series are used

- Available on <http://www.cooperativepatentclassification.org/index.html> under Publications

Subclasses where 2000 series symbols are used:

- List of subclasses where 2000 series symbols are used

CPC subclasses with indexing codes (2000 series)

A	B < B60	B ≥ B60	C	D	E	F	G	H
A01C	B01D	B60B	C01B	D01H	E01B	F01B	G01B	H01F
A01D	B01F	B60C	C01P	D03C	E01C	F01C	G01C	H01G
A01F	B01J	B60D	C02F	D03D	E01D	F01L	G01G	H01H
A01G	B01L	B60F	C03B	D03J	E01H	F01M	G01J	H01J
A01K	B02C	B60G	C03C	D05B	E02B	F01N	G01K	H01L
A01M	B03B	B60H	C04B	D05D	E02D	F01P	G01L	H01M
A01N	B03C	B60J	C07B	D06B	E03B	F02B	G01N	H01R
A22B	B03D	B60K	C07C	D06C	E03C	F02D	G01P	H01S
A22C	B04B	B60L	C07K	D06F	E03D	F02F	G01R	H02B
A23C	B04C	B60M	C08C	D06H	E03F	F02G	G01S	H02G
A23F	B05B	B60N	C08F	D06M	E04B	F02M	G01V	H02J
A23G	B05D	B60Q	C08G	D06N	E04C	F02N	G01W	H02K
A23N	B06B	B60R	C08J	D06P	E04D	F02P	G02B	H02M
A23P	B07B	B60S	C08K	D07B	E04F	F02W	G02C	H02P
A23V	B07C	B60T	C08L	D10B	E04G	F03G	G02F	H03B

# Combination sets [C-sets]

- List of technical areas where combination Sets are used in the CPC published:

The screenshot shows the Cooperative Patent Classification website. On the left is a navigation menu with 'Publications' highlighted. The main content area features a blue background with a list of technical areas and their descriptions:

- F16M11/2021 ... [around a horizontal axis]
- F16M11/2028 ... [for rolling, i.e. for creating a landscape]
- F16M11/2035 ... [in more than one direction]
- F16M11/2042 ... [constituted of several dependent parts]
- F16M11/205 ... [the axis of rotation intersecting in a point]
- F16M11/2057 ... [for tilting and rolling]
- F16M11/2064 ... [for tilting and panning]
- F16M11/2071 ... [for panning and rolling]

Below this list is a 'News' section dated 04 October 2016, stating that the 2016 CPC Products are now released. A red arrow points from the text 'The list of technical areas where Combination Sets are authorized for classification was published. The list is available here.' to the 'Publications' link in the navigation menu.

On the right side of the screenshot, the 'Miscellaneous publications' section is visible, with 'Combination Sets' highlighted. Below it, a table titled 'LIST OF TECHNICAL AREAS AUTHORISED FOR USING C-SETS' is shown, listing 33 subclasses and their subsequent symbols.

SUBCLASS	Base symbols	Subsequent symbol(s)
1 A01N	A01N25/00-A01N65/48	A01N25/00-A01N65/48, A01N300/00
2 A23G	A23G1/305, A23G1/36, A23G3/345, A23G3/346, A23G4/362, A23G9/322, A23G9/52	A23G200/00-A23G220/22
3 A23V	A23V2000/00	A23V2000/00-A23V2000/50, A23V

<http://www.cooperativepatentclassification.org/publications/CombiSetsListofFields.pdf>

# Combination Sets actions-followed

- The final list of 37 subclasses having C-Sets

Still to come:

- **Standardized wording** for Notes in the Scheme signalling usage of C-Sets (in the places where C-Sets are used)
- **Standardized wording for Definitions** specifying the usage of C-Sets (in the places where C-Sets are used)
- In Q3 2017, **clean up of not-anymore-authorized C-sets** i.e. deletion of C-set and allocation of “split” symbols as single ones

*example: current C-set “F04C2/18, A61B1/00” is not on the list of authorized ones. Will disappear but F04C2/18 as well as A61B1/00 will be allocated to the family as single symbols (if not already present)*

# C-Sets from National Offices in Espacenet

(<http://worldwide.espacenet.com>)

**Classification:**

- international: C09J201/00; C09J5/00; C09J7/02; H01L21/301
- cooperative default: C09J7/0207; H01L21/6836; H01L21/78; H01L24/27; H01L24/29; H01L24/83; C09J2201/36; C09J2203/326; H01L21/67132; H01L2221/68318; H01L2221/68327; H01L2221/68336; H01L2221/68359; H01L2224/27436; H01L2224/2919

**CPCNO:** C09J7/0207; H01L21/6836; H01L21/78; H01L24/27; H01L24/29; H01L24/83; C09J2201/36; C09J2203/326; H01L21/67132; H01L2221/68318; H01L2221/68327; H01L2221/68336; H01L2221/68359; H01L2224/27436; H01L2224/2919

**C-sets:**

- H01L2224/2919, H01L2924/0665, H01L2924/00,
- **H01L2924/0665, H01L2924/00,**
- H01L2924/0132, H01L2924/01031, H01L2924/01033, H01L2224/73265,
- H01L2224/32225, H01L2224/48227, H01L2924/00012, H01L2924/15311,
- H01L2224/73265 %2, H01L2224/32225 %2, H01L2224/48227 %2, H01L2924/00,
- H01L2224/92247, H01L2224/73265,
- H01L2224/32225, H01L2224/48227, H01L2924/00,
- H01L2924/3512, H01L2924/00

→ less

**Past:**

- only C-Sets from EPO/USPTO were displayed
- C-Sets not searchable

**Since 15 March 2016:**

- Also C-sets from CPCNO Offices are **displayed** ...
- ... and **searchable** in "Smart search" by using "cpcC"

**Espacenet: free access to the database of over 90 million patents**

Smart search:  Siemens EP 2007

Clear

## C-Set attributes in XML of CPC scheme

Starting with CPC release of February 2017:

Population of the XML attributes for CPC symbols as follows:

- “**@c-set-base-allowed**” attribute from the authorised list set to “**true**”, all other symbols set to “false”
- “**@c-set-subsequent-allowed**” attribute set to “false” for all “Y section” symbols. Set to “true” for all other symbols.

# CPC-IPC alignment

CPC-IPC alignment is given **high priority** in the CPC revision process

- EPO & USPTO international obligations *vis-à-vis* the IPC
  - Publications must carry IPC symbols in force (Strasbourg Agreement)
  - “IPC reclassification” is actually a “CPC reclassification” at the EPO & USPTO
- CPC-to-IPC-concordance-list (CICL) needs prompt updates
  - CICL is used by offices to classify only in CPC and then roll-up to IPC

# CPC scheme layout (CPC 2017.02)

Sections A-H	Section Y
<p style="text-align: center;"><b>Main trunk</b></p> <ul style="list-style-type: none"> <li>• 625 subclasses</li> <li>• For invention or additional information</li> <li>• {...} and green colour used to distinguish CPC text from IPC one</li> <li>• “Breakdown” indexing codes               <ul style="list-style-type: none"> <li>• for additional information only</li> </ul> </li> </ul> <p style="text-align: center;"><b>About 179 500 symbols</b></p>	<ul style="list-style-type: none"> <li>• Tagging of emerging cross-sectional technologies               <ul style="list-style-type: none"> <li>• Y02A, B, C, E, T, W</li> <li>• Y04S</li> </ul> </li> <li>• USPC-related               <ul style="list-style-type: none"> <li>• Y10S, T</li> </ul> </li> </ul>
<p style="text-align: center;"><b>“2000 series”</b></p> <ul style="list-style-type: none"> <li>• IPC-based indexing codes (numbering 2100+)</li> <li>• “Orthogonal” indexing codes (numbering: 2200+)</li> <li>• For additional information only</li> </ul> <p style="text-align: center;"><b>About 62 000 symbols</b></p>	<ul style="list-style-type: none"> <li>• For additional information only</li> </ul> <p style="text-align: center;"><b>About 17 500 symbols</b></p>

All in all, about **259 000 symbols**  
CPC annual meeting

# New CPC Scheme related services

# Statistical mapping CPC to FI

<http://www.epo.org/searching-for-patents/helpful-resources/first-time-here/classification/cpc/cpc-fi.html>

Based on statistical analysis of allocations on documents

CPC	FI-1	FI-2	FI-3
<u>G01B1/00</u> (53)	G01B1/00 (11, 21%)		
<u>G01B11/00</u> (497)	G01B11/00,A (77, 15%)	G01B11/00,H (77, 15%)	G01B11/00,C (66, 13%)
<u>G01B11/002</u> (281)	G01B11/00,H (61, 22%)	G01B11/00,A (56, 20%)	
<u>G01B11/005</u> (64)	G01B11/24,A (11, 17%)	G01B11/00,A (9, 14%)	G01B11/00,G (9, 14%)
<u>G01B11/007</u> (62)	G01B21/00,P (18, 29%)	G01B11/00,A (17, 27%)	G01B5/012 (16, 26%)
<u>G01B11/02</u> (345)	G01B11/02,Z (131, 38%)		
<u>G01B11/022</u> (131)	G01B11/00,H (22, 17%)	G01B11/02,H (16, 12%)	G01B11/24,K (16, 12%)

# Statistical mapping FI to CPC

<http://www.epo.org/searching-for-patents/helpful-resources/first-time-here/classification/cpc/fi-cpc.html>

Based on statistical analysis of allocations on family members

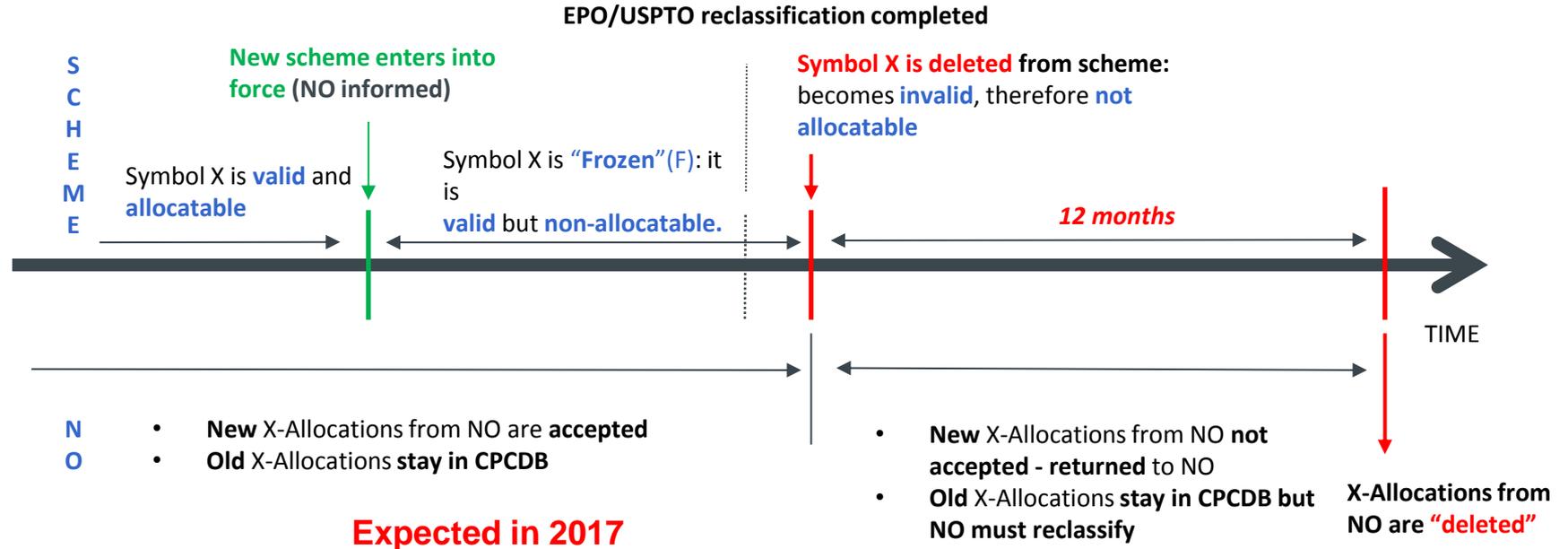
FI	CPC-1	CPC-2	CPC-3
G01B11/00 (29)	G01B11/00 (11, 38%)		
G01B11/00&G (911)	<u>G03F9/7049</u> (127, 14%);	<u>G03F7/70775</u> (123, 14%);	<u>G01D5/38</u> (103, 11%)
G01B11/00&H (1890)	<u>G01B11/00</u> (77, 4%);	<u>G06T7/0075</u> (67, 4%);	<u>G06T7/0042</u> (67, 4%)
G01B11/00&Z (578)	<u>G01B11/00</u> (63, 11%)		
G01B11/02 (26)	<u>G01B11/02</u> (5, 19%);	<u>G01B11/024</u> (4, 15%)	
G01B11/02&G (107)	<u>G01B11/02</u> (12, 11%);	<u>G01N21/4788</u> (12, 11%);	<u>G03F7/70625</u> (12, 11%)
G01B11/02&H (368)	<u>G01B11/024</u> (25, 7%);	<u>G01B11/24</u> (23, 6%);	<u>G01B11/0608</u> (22, 6%)

# Future Developments

## Expiration of outdated CPCNO allocations

# Expiration of outdated CPCNO allocations

Situation: following a CPC revision, symbol X is to be deleted from the CPC scheme



## Expiration of outdated CPC allocations:

- There are many CPC scheme revisions
- Classification needs to be made using the **CPC version in force at the time of classification**
- What to do with **outdated CPCNO allocations?**
- **An Invalid CPCNO allocation WILL be deleted from CPCDB 12 months from the date a symbol is deleted from the scheme**



# Future Developments

**A new approach for CPCNO data (CPC-INT project)**

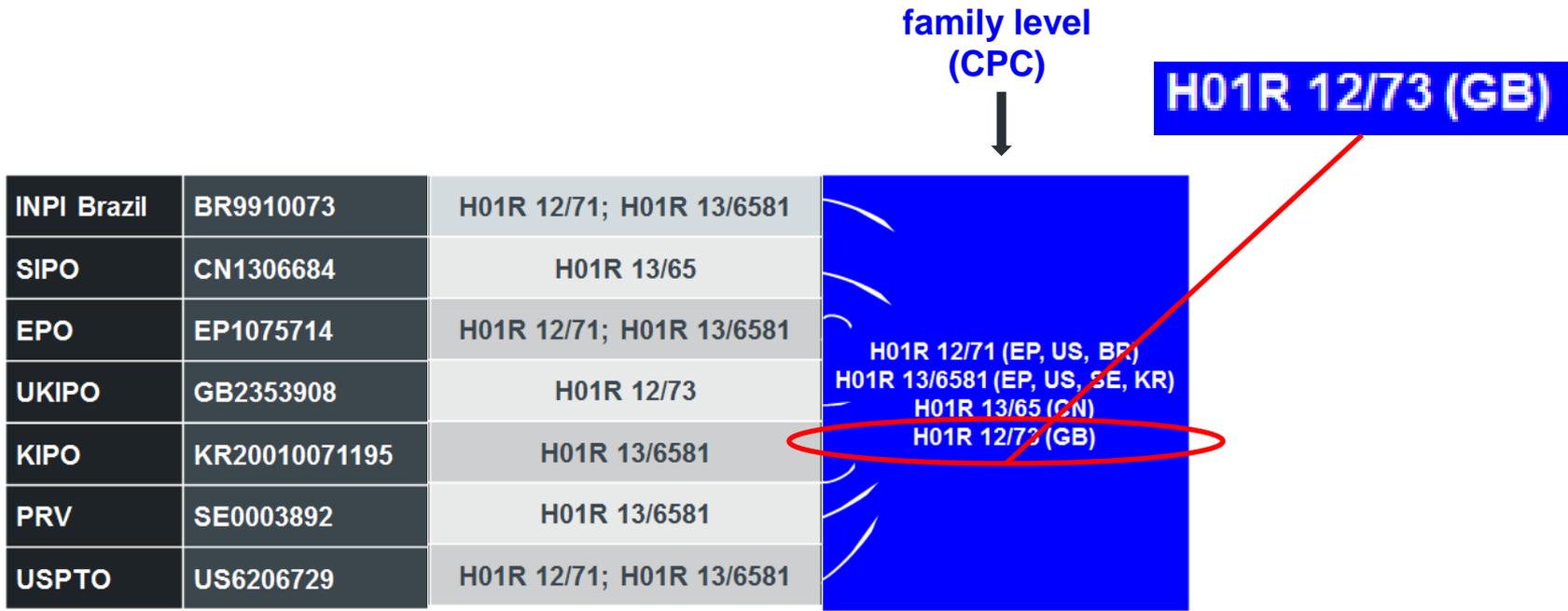
## CPC data from National Offices

- Currently, CPC data from National Offices are stored at **document level**, in the C(PC)NO fields:
  - family members can bear different C(PC)NO allocations
  - classification at document level may be different from that at family level
  - unique documents do not get a CPC allocation at family level

# Current picture

		document level (CPCNO)	family level (CPC)
INPI Brazil	BR9910073	H01R 12/71; H01R 13/6581	
SIPO	CN1306684		
EPO	EP1075714	H01R 12/71; H01R 13/6581	
UKIPO	GB2353908	H01R 12/73	
KIPO	KR20010071195	H01R 13/6581	
PRV	SE0003892	H01R 13/6581	
USPTO	US6206729		

# Future picture



Expected in 2018

## CPC-INT: work in progress

- ❖ Requirements for the display of CPC allocations in Epoque and Espacenet are currently collected from the user community
- ❖ All internal and external systems that are requiring adaptations are evaluated in view of the planning
- ❖ New bilateral infrastructure between USPTO and EPO to support the equal level of all CPC allocations is in preparation – National Offices to connect

# CPC-INT roadmap

## November 2017

Examples new layout of

- Epoque
- DocDB-XML
- Espacenet



### September 2016 - December 2017

- Preparation work on internal and bilateral infrastructure

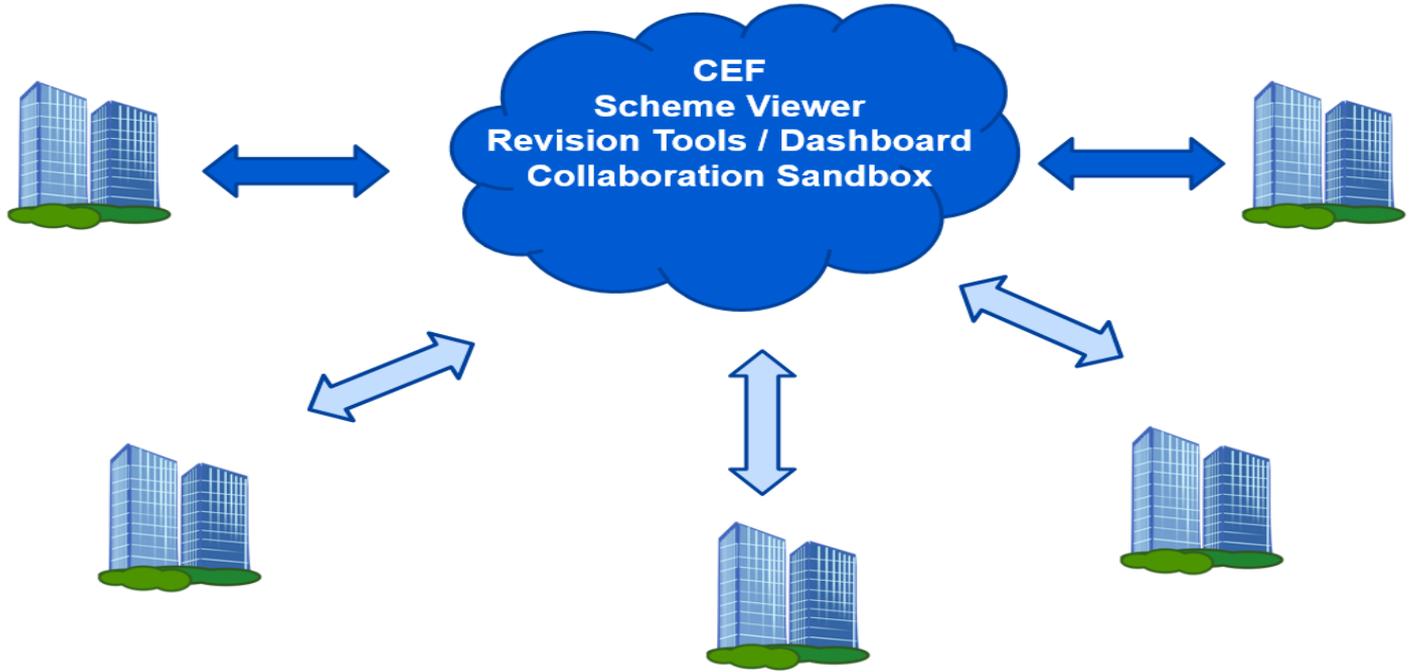
### March 2018 - July 2018

- All CPC symbols on family level in Espacenet, Epoquenet, DocDB-XML
- New rules on expiring outdated CPC symbols into force

# **Future Developments**

## **New Collaborative Environment**

# Future Collaborative Environment



# Future Developments

## Machine readable products

# CPC Products after CPC revisions

Products will be delivered in a **machine-readable** format, e.g. XML (available on [www.cpcinfo.org](http://www.cpcinfo.org))

- RCL (Revision Concordance List)
- CICL (CPC-to-IPC Concordance List)
- Validity File

→ **Completed in January 2017**

- CRL (Cross-Reference List)
- Compilation of changes

→ **For later ...**

**Thank you for your attention!**

**[www.cpcinfo.org](http://www.cpcinfo.org)**

**[cpc@uspto.gov](mailto:cpc@uspto.gov)**

**[cpc@epo.org](mailto:cpc@epo.org)**