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## WIPO STANDARD ST. 96 XML SCHEMA V2\_0 RELEASE NOTES

May 28, 2015

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## WIPO STANDARD ST. 96 XML SCHEMA V2\_0 RELEASE NOTES

May 28, 2015

### GENERAL REMARKS

1. This document describes the changes made to ST.96 Schema, V1\_0\_D7 to create V2\_0. The ST.96 XML Schema V2\_0 has been prepared on the basis of comments and proposals regarding V1\_0\_D7 posted in the D7 discussion Wiki page at: [https://www3.wipo.int/confluence/display/xml4iptf/ST96+XMLSchema+V1\\_0\\_D7](https://www3.wipo.int/confluence/display/xml4iptf/ST96+XMLSchema+V1_0_D7); and in other Wiki pages of pending Issues.
2. Furthermore, the version 2.0 is based on the version 2.0 of ST.96 Main Body and Annex I.

### GENERAL CHANGES

3. The new Rule SD-64 reproduced below has been applied to the version 2.0.  

“Schema release folder, a document level schema filename and a flattened schema filename MUST contain matching version information comprising the major and minor version number.”
4. The value of “version” attribute was changed to “V2\_0” from “V1\_0” in all schema components.
5. The new attributes “st96Version” (replacing the attribute “schemaVersion”) and “ipoVersion” were added in all document level elements.

### MODIFICATIONS TO COMMON COMPONENTS

6. In WIPOST3CodeType, the new code “XU” was added for UPOV following the revision of WIPO Standard ST.3. Its description is “International Union for the Protection of New Varieties of Plants (UPOV)”.
7. Header Documentation Information below in Table was included in all document level elements with the corresponding schema elements.

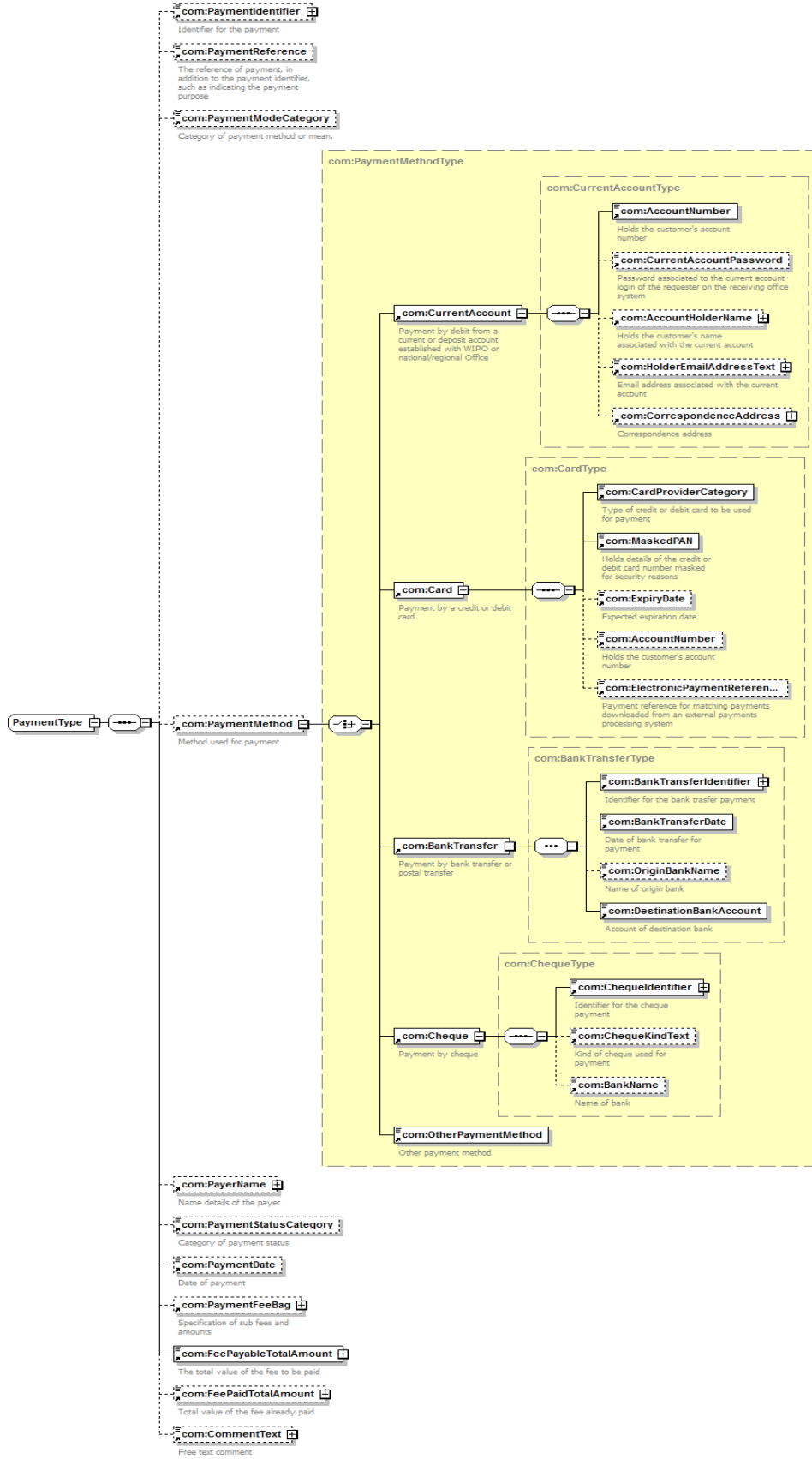
Header item	Description
Created date	Date of creation of the schema (mandatory)
Last modified date	Date of last modification for the schema (mandatory)
Contact Point	Focal point to contact with questions about the schema (mandatory)
Release Notes URL	A URL where the release notes for the schema are published (optional)

8. The following example shows corresponding schema elements to the header items listed in the table above:

```
<xsd:annotation>
  <xsd:appinfo>
    <com:SchemaCreatedDate>2015-04-16</com: SchemaCreatedDate>
    <com:SchemaLastModifiedDate>2015-04-16</com: SchemaLastModifiedDate>
    <com: SchemaContactPoint>xml\_standards@wipo.int</com: SchemaContactPoint >
    <com:
SchemaReleaseNoteURL>http://www.wipo.int/standards/XMLSchema/ST96/V2\_0/ReleaseNotes.pdf</com:SchemaReleaseNoteURL>
  </xsd:appinfo>
</xsd:annotation>
```

*Payment (see IssueID-511 and IssueID-544)*

9. The Payment component was updated as shown in diagram below.



DesignClassificationBag (see [IssueID-514](#))

10. Added a new component, DesignClassificationBag to Common, which is composed of LocarnoClassificationBag and NationalDesignClassificationBag; and replace dgn:IndicationProductBag

11. Added a new component com:LocarnoSubclassBag under LocarnoClassification, which encompasses the existing components com:LocarnoSubclass and com:LocarnoSubclassProductIndiationText; in addition, two new components, com:LocarnoTermBag (optional) and com:NationalSubclassExtensionBag (optional). The com:LocarnoTermBag consists of multiple com:LocarnoTerm. The com:NationalSubclassExtensionBag consists of com:IPOfficeCode (mandatory), com:NationalSubclassExtension (mandatory), NationalExtensionProductIndicationText (optional).

12. Defined com:NationalDesignClassificationBag as the following content model: (com:IPOfficeCode(1..1), com:NationalClassificationEdition (0..1), com:NationalClassificationDate (0..1), (com:NationalDesignClassification(1..1, xsd:string), com:NationalDesignProductIndicationText (0..1))+).

13. Renamed LocarnoClassProductIndicationText to LocarnoClassDescriptionText

14. Under LocarnoSubclass, added LocarnoTermBag.LocarnoTerm (LocarnoSerialNumber (mandatory @languageCode), LocarnoTermText (optional @languageCode)).

15. Promoted pat:SymbolPositionCode to Common and used for both Patents and Designs

16. In LocarnoClassification.LocarnoClassificationType, added an optional com:SymbolPositionCode before com:LocarnoClass

17. Replaced the existing com:LocarnoClassificationText with the sequence of com:SymbolPositionCode (optional) and com:LocarnoClassificationText in LocarnoClassificationBagType.

18. To improve descriptions, the following changes made:

- NationalSubclassExtensionBag - should read “The national design subclass classification extension”; and
- NationalSubclassExtension - should read “The national subclass extension to Locarno classification scheme”

19. The following changes were made as well:

- Change tmk:NationalDesignClassificationBag to tmk:NationalDesignSearchCodeBag, with multiple tmk:NationalDesignSearchCode which contains tmk:NationalDesignCode and multiple tmk:NationalDesignCodeDescriptionText

*FigurativeElementClassificationBag* (see [IssueID-515](#))

20. The following changes were made:

- Replaced `FigurativeElementClassificationType` with `FigurativeElementClassificationBagType`, which is used by `MarkImageCategory` and `ViewCategory`.
- Renamed `MarkImageCategory` with `MarkImageClassification` and `ViewCategory` with `ViewClassification`
- Defined the component `com:NationalFigurativeElementClassificationBag` as the following structure (`@id`, `com:IPOfficeCode` (1..1), `com:NationalClassificationEdition` (0..1), `com:NationalClassificationDate` (0..1) and `NationalFigurativeElementClassification`(1..n))

*NPLReferenceNumber* (see [IssueID-545](#))

21. The component `com:ReferenceNumber` was renamed to “`com:NPLReferenceNumber`” with the description “A number assigned to non-patent literature which has been classified and/or cited in documents such as the search report”.

*FileName* (see [IssueID-551](#))

22. The following changes were made:

- Created a new common component `com:FileName`, with description: “Name of an electronic file”;
- Replaced the existing components in which the term “`FileName`” is included. (See below components which are relevant);
- Replaced existing attribute `pat:fileName` to `com:documentFileName` in order to avoid naming conflict with the new element `com:FileName`. (See below components which are relevant)

The relevant components are:

New component	D7 Component to be replaced	Used by the following components
com:FileName	com:DocumentFileName	com:DocumentType
	com:ImageFileName	dgn:DesignSpecimenType com:ImageType tmk:MarkImageType pat:PageImageType dgn:ViewType
	com:NPLFileName	com:NPLCitationType
	com:RequestFileName	com:SenderBagType
	dgn:RepresentationSheetFileName	dgn:DesignRepresentationSheetType
	tmk:MarkMultimediaFileName	tmk:MarkMultimediaType
	tmk:MarkSoundFileName	tmk:MarkSoundType
	tmk:MarkImageRenditionFileName	tmk:MarkImageRenditionType
com:documentFileName	pat:fileName	pat:ApplicationBodyType pat:DocumentURIType

*MathType* (see discussions on [ST96 XML Schema V1.0 D7](#) and [IssueID-563](#))

23. The element com:Image in MathType in sequence was changed from mandatory to optional; the id attribute was added to MathType.

*DocumentType*

24. In DocumentType, com:ImageFormatCategory was replaced with com:DocumentFormatCategory in order to allow various file format of document other than only image file format.

*DocumentIncludedBag (see IssueID-568)*

25. The following changes were made to DocumentIncludedBag:

- a. Redefined DocumentName as a union of xsd:string and DocumentNameCategoryType which contains the four following enumeration values:
  - Creator declaration (Oath or declaration of the creator)
  - Eligibility information (Information on eligibility for protection),
  - Micro entity certificate (Micro entity certification)
  - Exception lack novelty (Declaration concerning lack of novelty).

*PType (see IssueID-571)*

26. The following changes were made to PType and its child elements:

- a. Created new com:SType will have the following components:
  - com:B
  - com:I
  - com:O
  - com:U
  - com:Sub
  - com:Sup
  - com:SmallCapital
  - com:Ins
  - com:Del

*Comment: HTML <strike> allows inserted text and deleted text.*

```
<html>
  <body>
    <h1>Strike through deleted and inserted text.</h1>
    <strike>Here is the <del>deleted text</del> test
    and <ins>inserted text</ins> test.</strike>
  </body>
</html>
```

*Result of HTML:—*

~~Here is the deleted text test and~~ inserted text test.

- b. Created new components com:Ins (description: "Text inserted to the document and com:Del (description: "Text deleted from the document"; added two optional attributes, @authorIdentifier (Person making the change) and @changeDateTime (Date and time of change) in com:DelType and com:InsType.

com:Del(Type) consists of the following components:

- com:B
- com:I
- com:O
- com:S



- com:U
- com:Sub
- com:Sup
- com:SmallCapital

Com:Ins(Type) consists of the following components:

- com:B
- com:I
- com:O
- com:S
- com:U
- com:Sub
- com:Sup
- com:SmallCapital
- com:Del

*Comment: To resemble the practice of Microsoft Word and Open Office XML track change, com:Ins is allowed to have com:Del in its content model, our test indicated that practically, MS Word allows inserted text to contain deleted text. MS Word does not allow deleted text to contain inserted text even though it was allowed in OOXML schema.*

- MS Word Example text: This is some inserting (Li added text “insert”, then I deleted text “ert” and added erting). This is the Open Office XML mark-up from MS-Word.

```
<w:p w:rsidR="00E75AA3" w:rsidRDefault="00F13A93">
<w:r>
<w:t xml:space="preserve">This is some </w:t>
</w:r>
<w:ins w:id="0" w:author="Li Wang" w:date="2015-05-12T10:13:00Z">
<w:r>
<w:t>ins</w:t>
</w:r>
<w:bookmarkStart w:id="1" w:name="_GoBack"/>
<w:bookmarkEnd w:id="1"/>
<w:del w:id="2" w:author="Tith, Narith" w:date="2015-05-12T10:23:00Z">
<w:r w:rsidDel="005B23C6">
<w:delText>ert</w:delText>
</w:r>
</w:del>
</w:ins>
```

*Comment: For question why we add both com:S and com:Del, please see explanation as follow: "Documents which are amendments to application contents must use (1) underlining to represent inserted text and (2) use strikethrough to represent deleted text. The concept of 'insert' and 'delete' are fundamentally different semantic concepts from the concepts of visual font styling/highlights. At the fundamental level, insert and delete can and will overlap in arbitrary ways with the styling/highlighting tags." This capability is needed in ST.96 to support the mark-up of complex amended documents containing styling/highlight along with inserted text and deleted text containing styling/highlighting as in example 2.*

- c. Added com:S (Strikethrough text) to the following components:
- com:B
  - com:I
  - com:O
  - com:U
  - com:Sup
  - com:Sub
  - com:SmallCapital
  - com:SubSup2Type (being referred by com:Sub2, com:Sup2)
  - com:PhraseType
  - pat:ClaimTextType
  - com:Ins
  - com:Del

- d. Removed existing components pat:InsertedText and pat:DeletedText and replace them with new components com:Ins and com:Del in pat:ClaimReferenceType and pat:ClaimTextType
- e. The following components have com:Ins and com:Del as a child component.
- com:BType
  - com:IType
  - com:OType
  - com:SType
  - com:UType
  - com:SubType
  - com:SupType
  - com:SubSup2Type
  - com:SmallCapitalType
  - com:IPOASISEntryType
  - com:DDType
  - com:PType
  - com:PhraseType
- f. For block delete and insert mechanism, it is suggested to use 'delete' or 'insert' entire paragraph or heading, e.g., <com:P><com:Del>...</com:Del></com:P>
- g. HTML and ST.96 Comparison

HTML Tags/ CSS Properties	HTML 4.01	HTML 5	WIPO ST.96 2.0
<b> - Bold	b	b	com:B (exists)
<i> - Italic	i	i	com:I (exists)
Overscore(CSS property)	N/A	N/A	com:O (exists) - oStyle attribute values: Single Double Dash Dots Left arrow Right arrow Left right arrow
<u> - Underline/Underscore	u	u	com:U (exists) - uStyle attribute values: Single Double Dash Dots
<sub> - Subscript	sub	sub	com:Sub and com:Sub2 (exists) limited to two levels. Html sub is recursive
<sup> - Superscript	sup	sup	com:Sup and com:Sup2 (exists) but limited to two levels .html sup is recursive
SmallCapital(CSS property)			com:SmallCapital (exists)
<s> - Strikethrough	<strike>	<s>	com:S (New)
<ins> - Inserted Text	<ins>	<ins>	com:Ins (Renamed from InsertedText)
<del> - Deleted Text	<del>	<del>	com:Del (Renamed from DeletedText)

27. In ImageFormatCategoryType, added
- SVG (Scalable vector graphics image)

*CitedPatentDocumentIdentification* (see *IssueID-558*)

28. The following attributes were added to com:CitedPatentDocumentIdentification
- Optional com:EntityName
  - Optional @com:languageCode

*MathType* (see *IssueID-518*)

29. The following changes were made to Math:
- Add ExternalDocumentBag to both MathType and ChemicalFormulaeType; and
  - make image optional in MathType

## MODIFICATIONS TO PATENT COMPONENTS

*PublicationContact* (see [IssueID-517](#))

30. Added a new component com:PublicationContact and a choice (1..2) between this element and existing com:Contact. This change will be reflected in the following components: pat:ApplicantType, pat:InventorType, pat:AssigneeType, pat:Owner(new), pat:DeceasedInventorType, and pat:RegisteredPractitionerType. In dgn:ApplicantType, dgn:DesignerType, because the PartyIdentifier is also in the choice group, we leave the occurrence to unbounded.

31. Updated description for com:PublicationContact: “Contact information for publication in which a limited contact information of the person is provided due to privacy reason”

32. Added the new com:PublicationContactType which comprises:
- com:languageCode (optional)
  - com:Name (Mandatory)
  - com:CityName (optional)
  - com:GeographicRegionName (optional)
  - com:CountryCode (optional)
  - com:PostalCode (optional)

*BibliographicData* (see *IssueID-518* and [IssueID-526](#))

33. Created the following two new elements under BibliographicData
- GrantPublicationDate (refer to ST.9 INID Code 45)
  - ProvisionalGrantPublicationDate (refer to ST.9 INID Code 44)

34. In ApplicationIdentification, PatentPublicationIdentification and PatentGrantIdentification,
  - Added FilingLanguageCode (optional) in ApplicationIdentification after com:ApplicationNumber.
  - Added new component com:ApplicantFileReference (optional) after com:ApplicationNumber in ApplicationIdentification.
  - Added PublicationLanguageCode (optional) in PatentPublicationIdentification and PatentGrantIdentification.
35. In pat:RightsEffectiveDateBag,
  - Added new components pat:SearchRequestDate and pat:PatentRestorationDate.
36. In ClaimTotalQuantity, removed “in the grant” from its description to make the description more generic. The description will read “Total number of claims”
37. Renamed ApplicationWithdrawnByApplicantDate to ApplicationWithdrawnDate
38. In DocumentFormatCategoryType, added the following enumeration values:
  - CDX – CambridgeSoft proprietary ChemDraw file format
  - MOL – File format for holding information about the atoms, bonds, connectivity and coordinates of a molecule
  - NB - File format for Mathematica notebooks
  - MS Excel – MS Excel
  - SVG – Scalable vector graphics image
39. In ApplicationIdentification, added FilingLanguageCode (optional) in ApplicationIdentification after com:ApplicationNumber. Add new component com:ApplicantFileReference (optional) after com:ApplicationNumber.
40. In PatentPublicationIdentification, added PublicationLanguageCode (optional) after pat:PublicationNumber.
41. In PatentGrantIdentification,
  - added PublicationLanguageCode (optional) after pat:PatentNumber.
  - removed RegistrationDate from PatentGrantIdentification
  - renamed IssueDate to GrantDate (see IssueID-529)

42. Added ExemplaryClaimBag (The representative claim(s) that gets printed on the Official Gazette).

```
<xsd:complexType name="ExemplaryClaimBagType">
  <xsd:sequence>
    <xsd:element ref="pat:ClaimNumber" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

43. Added PreClassificationText directly under pat:BibliographicData (see discussions on [ST96 XMLSchema V1\\_0\\_D7](#) and [IssueID-483](#))

44. Added com:ExternalDocumentBag, which is used for pat:PatentPublication as well as Chemistry and Math files, see IssueID-563. It is defined as com:ExternalDocumentType which is composed of

- Use com:FileName (mandatory)
- Use com:DocumentFormatCategory (mandatory)
- New common component: DocumentContentCategoryType (optional)

```
<xsd:enumeration value="Mathematical formula"/>
<xsd:enumeration value="Chemical formula"/>
<xsd:enumeration value="Drawing"/>
<xsd:enumeration value="Computer program listing"/>
<xsd:enumeration value="Table"/>
<xsd:enumeration value="Sequence listing"/>
<xsd:enumeration value="Patent grant"/>
<xsd:enumeration value="Other"/>
```

- Use com:DocumentLocationURI (optional)

45. In CrossReferenceCategoryType,

- Changed EndNote to Endnote
- Changed FootNote to Footnote

```
<xsd:enumeration value="Endnote">
  <xsd:annotation>
    <xsd:documentation>End note</xsd:documentation>
  </xsd:annotation>
</xsd:enumeration>
<xsd:enumeration value="Footnote">
  <xsd:annotation>
    <xsd:documentation>Foot note</xsd:documentation>
  </xsd:annotation>
</xsd:enumeration>
```

46. Updated description for Program listing

```
<xsd:enumeration value="Program listing">
  <xsd:annotation>
    <xsd:documentation>Computer program
listing</xsd:documentation>
  </xsd:annotation>
</xsd:enumeration>
```

*HagueAgreementData (New Component, create in Common)*

47. Created HagueAgreementData and moved tmk:InternationalRegistrationNumber and InternationalRegistrationDate to Common. HagueAgreementData consists of the following components:

- InternationalFilingDate (new optional component, create in Common)
- InternationalRegistrationPublicationDate (new mandatory component, create in Common)
- InternationalRegistrationNumber (make mandatory, currently exist in Trademark, move to common) Description: The registration number for an international registration assigned by the international bureau
- InternationalRegistrationDate (make optional, currently exist in Trademark, move to common) – Description: The date that an international trademark or industrial design is registered.

```
<xsd:complexType name="HagueAgreementDataType">
  <xsd:sequence>
    <xsd:element ref="com:InternationalFilingDate"
minOccurs="0"/>
    <xsd:element
ref="com:InternationalRegistrationPublicationDate"/>
    <xsd:element ref="com:InternationalRegistrationNumber"/>
    <xsd:element ref="com:InternationalRegistrationDate"
minOccurs="0"/>
  </xsd:sequence>
```

*OwnerBag (see [IssueID-510](#))*

48. A new element of pat:OwnerBag was added in pat:PartyBag, which consists of multiple Owner (Owner of the patent) as OwnerType (com:PartyIdentifier?,(com:Contact | com:PublicationConcat)(1 or 2) with @id and @sequenceNumber attributes.)

*Authorization (see [IssueID-521](#))*

49. Descriptions of the component Authorization and its child components were updated as follows:

- Authorization: Details of the authorization, as known as power of attorney, and the availability of any associated documentation, where required, provided for the transaction requiring it.
- AuthorizationIdentifier: The identifier of the source of the authorization
- AuthorizationDate: The date on which authorization was confirmed for the associated transaction

- **AuthorizationCategory:** Kind of authorization that indicates whether the authorization given is general or specific to a part of the transaction
- The value “General authorization”: General authorization authorizes the representative to act on behalf of the client (grantor) in all proceedings before the Office
- The value “Specific authorization”: Specific or Individual authorizations may be given for individual proceedings or may also be used for a plurality of proceedings. The proceedings to which the authorization relates must be indicated in sufficient detail to allow the Office to determine to which proceedings the authorization actually relates.
- **AuthorizationDocumentSupplyCategory:** Kind of the availability of the authorization document containing additional information concerning the authorization of the transaction where one is required
- **AuthorizationDocument:** Document that provides details of the document attached to the authorization of a transaction

*CitingPartyCategory* (see [IssueID-559](#))

50. “Applicant” was added in pat:CitingPartyCategory enumeration.

*ReferenceCitation* (see [IssueID-560](#))

51. Added optional PatentClassificationBag to ReferenceCitation content model

*DesingationType*

52. Designation(Type) was renamed to DesignationCategory(Type) and description of values were updated.

*AssigneeType and ChemicalFormulaeType* (see [IssueID-562](#))

53. Added PartyIdentifier to AssigneeType

*ClaimText* (see [IssueID-564](#))

54. In pat:ClaimText, the subcomponent pat:ClaimText was moved to unbounded choice and the optionality was kept, i.e., 0 to many.

*EarliestPriorityDate* (see [IssueID-530](#))

55. The following changes were made in relation to EarliestPriorityDate:

- Add a new element EarliestPriorityApplication (Details of the earliest application from which the current application is claiming priority) instead of EarliestPriorityApplicationIdentification
- Define EarliestPriorityApplication as EarliestPriorityApplicationType(IPOfficeCode?, ApplicationNumber?, FilingDate)
- Replace EarliestPriorityDate in pat:BibliographicData with EarliestPriorityApplication

*PatentGrantIdentification* (see [IssueID-529](#))

56. The following changes were made in PatentGrantIdentification:

- Replace pat:IssueDate with a new component pat:GrantDate (“Date of grant”); and



- Remove com:RegistrationDate

*RelatedDocumentBag – Conversion (see [IssueID-547](#))*

57. The following changes to pat:RelatedDocumentBag were made:

- Add a new element of Conversion for Patents with the same structure as Division; but pat:ChildDocument is optional; and
- Add an additional optional component pat:ConversionCategory with an enumeration list below.
  - Utility model to patent (Conversion from an utility model application to a patent application)
  - Design to patent (Conversion from a design application to a patent application)
  - Patent to utility model (Conversion from a patent application to an utility model application)
  - Design to utility model (Conversion from a design application to an utility model application)
  - Patent to design (Conversion from a patent application to a design application )
  - Utility model to design (Conversion from an utility model application to a design application)
  - PCT to national patent (Conversion from a PCT application to a national patent application)
  - Regional patent to national patent (Conversion from a regional patent application to a national patent application)

*RelatedDocumentBag - EntitlementApplication (see [IssueID-548](#))*

58. Added pat:EntitlementApplication to pat:RelatedDocumentBag as pat:EntitlementApplicationType (pat:ParentDocument, pat:ChildDocument, LegislationReference?). The description of the new element LegislationReference is “The section of the national regulation relevant to the type of entitlement application”

*InventionTitle (see [IssueID- 549](#))*

59. Added a new optional attribute (not element) inventionTitleCategory to the component InventionTitle. The inventionTitleCategory attribute will be defined as InventionTitleCategoryType which comprises the following three enumeration values:

- “In application filed” (The invention title as entered on the application form, which may equate to the application title)
- “In application published” (The invention title edited by the examiner from the title provided by the applicant, which may equate to the abstract title)
- “In grant publication” (The invention title displayed on the front page of the grant publication, which equate the IPO’s grant title)

60. Replaced the multiple occurrence of InventionTitle in pat:BibliographicData with a new element InventionTitleBag (Collection of invention title) which consists of multiple InventionTitle.

*ExaminationRequest* (see [IssueID-553](#))

61. The following changes to ExaminationRequest were made:

- ExaminationRequestDate should be made common by moving it from Patent to Common;
- Modify pat:RightsEffectiveDateBag by referring com:ExaminationRequestDate
- Add com:ExaminationRequestDate (optional) in com:RequestExamination after RequestExaminationCategory

*National Classification* (see [IssueID-565](#))

62. In Patent namespace, NationalClassification element was updated to replace MainClassification and FurtherClassification with MainNationalClassification and FurtherNationalClassification respectively. Both are typed as MainFurtherNationalClassificationType with a choice between PatentClassificationText and a sequence of NationalClass and NationalSubclass elements.

*Patent Classification Data Source Code* (see [IssueID-566](#))

63. Updated the description of values in PatentClassificationDataSourceCode as follows:

- H - Intellectual classification by person (Human)
- M - Machine classification by the propagation of earlier intellectual classification through the use of common priorities in the patent application.
- G - Generated by automatic content analysis

*ClaimStatement* (see [IssueID-567](#))

64. Added new optional component, ClaimStatement (Brief statement of introducing claimed invention) to pat:ApplicationBody just before pat:Claims.

*PatentPublication* (see [IssueID-518](#))

65. Created a new document level element and complexType component - PatentPublication and PatentPublicationType which consist of a set of attributes, pat:BibliographicData and a set of elements related to application body.

66. The following new components were added for pat:PatentPublication

- @com:creationDate
- @com:documentStatusText
- @com:documentPublicationDate
- Pat:ClaimStatement
- com:ApplicantKeywordText

67. The content mode of pat:PatentPublication is as follows:

```
PatentPublicationType
  <xsd:sequence>
    com:IPOfficeCode
    pat:BibliographicData
    <xsd:choice>
      pat:PageImage maxOccurs="unbounded"
      pat:DocumentURI
      <xsd:sequence>
        pat:Description minOccurs="0"
        pat:ClaimStatement minOccurs="0"
        pat:Claims
        pat:Abstract minOccurs="0" maxOccurs="unbounded"
        pat:Drawings minOccurs="0"
        com:ApplicantKeywordText minOccurs="0"
        com:ExternalDocumentBag minOccurs="0"
      </xsd:sequence>
    </xsd:choice>
  </xsd:sequence>
  @com:id
  @com:languageCode use="required"
  @com:documentFileName
  @com:creationDate
  @com:documentStatusText
  @com:st96Version use="required"
  @com:ipoVersion
  @com:documentPublicationDate
</xsd:complexType>
```

## MODIFICATIONS TO TRADEMARK COMPONENTS

*MarkCategoryType* (see [IssueID-461](#))

68. The following change to the MarkCategoryType component were made:

- Change the value "Certification mark, also named Guarantee mark" to "Certification mark" with the revised description "Any mark used by a person other than its owner to certify regional or other origin, material, mode of manufacture, quality, accuracy, or other characteristics of such person's goods or services or that the work or labor on the goods or services was performed by members of a union or other organization. It distinguishes goods or services certified by the proprietor of the certification mark, guarantee mark or standardization mark from the goods and services of other undertakings."
- With regard to well-known marks, replace the existing descriptions with the following text:
  - "Well known mark under TRIPS Article 16\_2" (Any mark that is well known to the relevant sector of the public on identical or similar goods and services for which registration or use is sought pursuant to the TRIPS Agreement and the Paris Convention.)
  - "Well known mark under TRIPS Article 16\_3" (Any mark that is well known to the relevant sector of the public on dissimilar goods and services for which registration or use is sought pursuant to the TRIPS Agreement and the Paris Convention.)

- Add a new value "Defensive mark" along with the following description:
  - "A mark may be registered as a defensive mark, in some jurisdictions, typically for protection of well-known registered marks. Where a registered mark has become well-known among the consumers for the goods and/or services covered, its holder may obtain registration of the same mark for other goods and/or services even where, in respect of those latter goods and/or services, the mark is not used or is not intended to be used."
- In relation to "Individual mark", modify its description "The individual mark is the opposite of the collective mark. An individual mark may sometimes be wrongly called an ordinary mark or a standard mark."

*Holder (see [IssueID-520](#))*

69. The following changes were made to the components which use HolderBag, i.e., RecordChangeNameAddressType and RecordTransferType defined in tmk and dgn:

- Add HolderBag (Holder+);
- Rename the existing HolderBag to HolderChangeBag which comprises two mandatory child components PreviousHolderBag (PreviousHolder+) and HolderBag, i.e., HolderChangeBag (PreviousHolderBag (PreviousHolder+), HolderBag (Holder+)); and

70. Modified descriptions of Holder and HolderBag defined in dgn and tmk by removing word "new"Agreements:

*RepresentativeBag (see [IssueID-531](#))*

71. Added com:RepresentativeBag.xsd (optional) in tmk:PlaintiffType.xsd and tmk:DefendantType.xsd just after tmk:Correspondent, as parties may use specific representatives for opposition proceedings;

72. Removed com:RepresentativeBag.xsd from tmk:OppositionType.xsd (since a specific representatives will be defined under tmk:PlaintiffType.xsd and tmk:DefendantType.xsd);

*OppositionCurrentStatusCategory (see [IssueID-532](#))*

73. The enumeration list and description of values were revised as follows:

- Opposition filed - Opposition is filed
- Admissibility of opposition filing checked - Admissibility of opposition filing is checked
- Cooling off period taken - Cooling off period is taken
- Proceedings of opposition commenced - Proceedings of opposition is commenced
- Agreement between parties reached - Agreement between parties is reached
- Application or trademark finally withdrawn - Application or trademark is finally withdrawn respectively by applicant or holder
- Application or trademark finally limited - Application or trademark is finally limited

- Opposition finally withdrawn - Opposition is finally withdrawn by opponent
- Application or trademark finally rejected in full - Application or trademark is finally rejected in full
- Application or trademark finally rejected in part - Application or trademark is finally rejected in part
- Opposition finally rejected - Opposition is finally rejected
- Opposition deemed to be withdrawn - Opposition is terminated due to a failure to prosecute, for example, non-payment of fees
- Opposition closed - Opposition is closed

*Proceeding to Proceedings (see [IssueID-535](#))*

74. The term “Proceeding” was replaced with “Proceedings” in the description of the following components below. Please note that existing component names with the term “Proceeding” were kept unchanged.

Component	old documentation	new documentation
com:ProceedingLanguageCode	Language Code of the opposition proceeding	Language Code of the opposition proceedings
com:TransactionCategoryType	Information related to a National Legal Proceeding	Information related to national legal proceedings
pat:OppositionFilingDate	A proceeding in which one party seeks to prevent the issuance of a patent	Proceedings in which one party seeks to prevent the issuance of a patent
pat:ReexaminationReissueMerger	Present when a reissue application was merged with a reexamination proceeding. The issuing document is a reissue patent which shows the following reexamination results statement on the reissue patent front page, immediately following the abstract.	Present when a reissue application was merged with reexamination proceedings. The issuing document is a reissue patent which shows the following reexamination results statement on the reissue patent front page, immediately following the abstract.
tmk:AssociatedProceeding	Other legal proceedings that are related or associated with the proceeding.	Other legal proceedings that are related or associated with the proceedings.
tmk:AssociationCategory	The type of association that exists with the primary mark/case or proceeding and another mark/case or proceeding	The type of association that exists with the primary mark/case or proceedings and another mark/case or proceedings
tmk:ConcurrentUseProceedingsType	A container to hold the details of concurrent use Proceeding	A container to hold the details of concurrent use proceedings
tmk:ExparteAppeal	Information about exparte appeal proceeding related to national marks	Information about exparte appeal proceedings related to national marks

Component	old documentation	new documentation
tmk:ExparteAppealType	A container for information about Exparte Appeal Proceeding	A container for information about exparte appeal proceedings
tmk:LegalProceedingsType	A container for various types of legal Proceeding related to a trademark.	A container for various types of legal proceedings related to a trademark.
tmk:MarkEventAdditionalText	The proceeding number or employee number or system number that triggered the creation of the event	The proceedings number or employee number or system number that triggered the creation of the event
tmk:MiscellaneousProceedingsType	A container to hold the details of a miscellaneous legal proceeding	A container to hold the details of miscellaneous legal proceedings
tmk:NationalMarkEvent	A container to store additional National office specific information related to historical events pertaining to a trademark, proceeding, or assignment	A container to store additional national office specific information related to historical events pertaining to a trademark, proceedings, or assignment
tmk:OppositionExtensionRequestType	A container to hold the details of an extension of time Proceeding	A container to hold the details of an extension of time proceedings
tmk:Plaintiff	The party that is seeking legal remedies in a national trial or board proceeding. Also known as pursuer, claimant, opponent or petitioner in some jurisdictions.	The party that is seeking legal remedies in a national trial or board proceedings. Also known as pursuer, claimant, opponent or petitioner in some jurisdictions.
tmk:ProceedingStatus	Status of a single trademark trial and or appeal board proceeding.	Status of a single trademark trial and or appeal board proceedings.
tmk:TrademarkDocumentType	Details about a single document related to a trademark, assignment, or legal Proceeding	Details about a single document related to a trademark, assignment, or legal proceedings

Component	old documentation	new documentation
tmk:AssociationCategoryType	<pre> &lt;xsd:enumeration value="Trademark related to legal proceeding"&gt; &lt;xsd:annotation&gt; &lt;xsd:documentation&gt;This enumeration indicates that the trademark is related to a legal proceeding&lt;/xsd:documentation&gt; &lt;/xsd:annotation&gt; &lt;/xsd:enumeration&gt; &lt;xsd:enumeration value="Consolidated parent"&gt; &lt;xsd:annotation&gt; &lt;xsd:documentation&gt;This enumeration indicates that the associated proceeding is the parent proceeding for a group of consolidated proceedings. &lt;/xsd:documentation&gt; &lt;/xsd:annotation&gt; &lt;/xsd:enumeration&gt; &lt;xsd:enumeration value="Consolidated child"&gt; &lt;xsd:annotation&gt; &lt;xsd:documentation&gt;This enumeration indicates that the associated proceeding(s) are the child proceeding(s) for a group of consolidated proceedings. &lt;/xsd:documentation&gt; &lt;/xsd:annotation&gt; &lt;/xsd:enumeration&gt; &lt;xsd:enumeration value="Associated opposition"&gt; &lt;xsd:annotation&gt; &lt;xsd:documentation&gt;This enumeration indicates that the associated opposition that is related to another legal proceeding. &lt;/xsd:documentation&gt; &lt;/xsd:annotation&gt; </pre>	<pre> &lt;xsd:enumeration value="Trademark related to legal proceeding"&gt; &lt;xsd:annotation&gt; &lt;xsd:documentation&gt;This enumeration indicates that the trademark is related to legal proceedings&lt;/xsd:documentation&gt; &lt;/xsd:annotation&gt; &lt;/xsd:enumeration&gt; &lt;xsd:enumeration value="Consolidated parent"&gt; &lt;xsd:annotation&gt; &lt;xsd:documentation&gt;This enumeration indicates that the associated proceedings are the parent proceedings for a group of consolidated proceedings. &lt;/xsd:documentation&gt; &lt;/xsd:annotation&gt; &lt;/xsd:enumeration&gt; &lt;xsd:enumeration value="Consolidated child"&gt; &lt;xsd:annotation&gt; &lt;xsd:documentation&gt;This enumeration indicates that the associated proceedings are the children proceedings for a group of consolidated proceedings. &lt;/xsd:documentation&gt; &lt;/xsd:annotation&gt; &lt;/xsd:enumeration&gt; &lt;xsd:enumeration value="Associated opposition"&gt; &lt;xsd:annotation&gt; &lt;xsd:documentation&gt;This enumeration indicates that the associated opposition that is related to other legal proceedings. &lt;/xsd:documentation&gt; &lt;/xsd:annotation&gt; </pre>

Component	old documentation	new documentation
tmk:MarkCurrentStatusCategoryType	<pre>&lt;xsd:enumeration value="Interruption of Proceeding"&gt;   &lt;xsd:annotation&gt;     &lt;xsd:documentation&gt;Interruption of Proceeding&lt;/xsd:documentation&gt;   &lt;/xsd:annotation&gt; &lt;/xsd:enumeration&gt; &lt;xsd:enumeration value="Revocation Proceeding pending"&gt;   &lt;xsd:annotation&gt;     &lt;xsd:documentation&gt;Revocation Proceeding pending&lt;/xsd:documentation&gt;   &lt;/xsd:annotation&gt; &lt;/xsd:enumeration&gt; &lt;xsd:enumeration value="Invalidity Proceeding pending"&gt;   &lt;xsd:annotation&gt;     &lt;xsd:documentation&gt;Invalidity Proceeding pending&lt;/xsd:documentation&gt;   &lt;/xsd:annotation&gt; &lt;/xsd:enumeration&gt;</pre>	<pre>&lt;xsd:enumeration value="Interruption of proceedings"&gt;   &lt;xsd:annotation&gt;     &lt;xsd:documentation&gt;Interruption of proceedings&lt;/xsd:documentation&gt;   &lt;/xsd:annotation&gt; &lt;/xsd:enumeration&gt; &lt;xsd:enumeration value="Revocation proceeding pending"&gt;   &lt;xsd:annotation&gt;     &lt;xsd:documentation&gt;Revocation proceedings pending&lt;/xsd:documentation&gt;   &lt;/xsd:annotation&gt; &lt;/xsd:enumeration&gt; &lt;xsd:enumeration value="Invalidity proceeding pending"&gt;   &lt;xsd:annotation&gt;     &lt;xsd:documentation&gt;Invalidity proceedings pending&lt;/xsd:documentation&gt;   &lt;/xsd:annotation&gt; &lt;/xsd:enumeration&gt;</pre>
tmk:MarkEventCategoryType	Interruption of Proceeding	Interruption of proceedings
tmk:MarkEventCategoryType	Revocation Proceeding pending	Revocation proceedings pending
tmk:MarkEventCategoryType	invalidity Proceeding pending	invalidity proceedings pending
tmk:MarkEventCategoryType	One event in a list of historical events related to a single national trademark board Proceeding	One event in a list of historical events related to single national trademark board proceedings
tmk:NationalStatusCategoryType	The national status for a legal Proceeding concerning a trademark	The national status for legal proceedings concerning a trademark
tmk:OppositionEventCategoryType	Commencement of Proceeding	Commencement of proceedings

*MarkFeatureCategory* (see [Issue/D- 536](#))

75. The enumeration list and values' description in MarkFeatureCategory were revised as follows:

- "Word" - A mark consisting of letters, words, numerals and/or other punctuation or diacritical characters commonly found in standard style
- "Stylized characters" - A mark consisting of letters, words and/or numerals comprised of special characteristics such as style(s) of lettering, or unusual form(s) of punctuation
- "Figurative" - A mark consisting of two-dimensional figures such as pictures, images and drawings without letters or words and/or numerals
- "Combined" - A mark consisting of more than one element, e.g. "word", "figurative element" and/or "colour" as claimed in a statement contained in the application



- "Three dimensional" - A mark consisting of a three-dimensional object as claimed in a statement contained in the application
- "Colour" - A mark consisting exclusively of a colour or a combination of colours without any figurative element as claimed in a statement contained in the application
- "Sound" - A mark consisting of audio rather than visual means to distinguish a product or service, and claimed as such in a statement contained in the application
- "Hologram" - A mark that consists of or contains a hologram as part of its distinctive features as claimed in a statement contained in the application
- "Olfactory" - A mark consisting of a distinctive smell, scent or odour of a product or used in relation to services and as claimed in a statement contained in the application
- "Motion" - A mark depicting motion or movement as claimed in a statement contained in the application
- "Multimedia" - A mark consisting of the combination of movement and sound claimed in a statement contained in the application
- "Position" - A mark which consists of the manner in which the sign is placed or laid out on the product as claimed in a statement contained in the application
- "Touch" - A mark consisting of the distinctive texture of a product as claimed in a statement contained in the application
- "Taste" - A mark consisting of the distinctive taste of a product as claimed in a statement contained in the application
- "Tracer" - A mark consisting of a certain symbol or combination, mixture or pattern of colours that runs lengthwise through the product which is usually sold by cutting off a portion from a roll/bale etc. as claimed in a statement contained in the application. For example, coloured thread running through cables and patterns running the length of ropes.
- "Other" - Any other type of mark as claimed in a statement contained in the application

*OppositionProceedingBag* (see [IssueID- 537](#))

76. Under *OppositionProceedingBag*, *tmk:ProceedingEvent* was replaced with *ProceedingEventBag* in the same way it is for *CancellationProceedings*, as *OppositionProceedingBag* may contain multiple proceeding events; *CancellationProceedings* remain unchanged, even though *CancellationProceedingsBag* would be better, as this will have an impact on systems.

*MadridSystemCategoryType* (see [IssueID-540](#))

77. A new 3rd enumeration value "Protocol article 9 sexies" was added to *MadridSystemCategoryType* along with the description "Designation under the protocol by virtue of Article 9 sexies".

*MarkDescriptionText* (see [IssueID-542](#))

78. The data type of tmk:MarkDescriptionText was changed from xsd:string to com:LocalizedTextType for possibility to have language code.

*SoundFileFormatCategoryType* (see [IssueID-552](#))

79. The two new values below were added to SoundFileFormatCategoryType

- WAV - Waveform audio file format
- WMA - Windows media audio

*TrademarkType – ConversionApplicationBag* (see [IssueID-554](#))

80. The following changes were made to TrademarkType:

- Create a new component tmk:ConversionApplicationBag (“Reference to initial mark in case of a conversion application”) defined as the same structure with tmk:DivisionalApplicationBagType and add tmk:MarkCategory (optional) to the component; and
- Add the ConversionApplicationBag component(optional) in TrademarkType.

## MODIFICATIONS TO DESIGN COMPONENTS

*DesignType, DesignRepresentationSheetType, ViewType and EarlierDesignType* (see [IssueID-527](#))

81. The following changes were made to DesignType, DesignRepresentationSheetType, ViewType and EarlierDesignType.

- Added a new component DesignRepresentation(Bag) to DesignType and EarlierDesignType; and DesignRepresentationType set as set a choice of DesignRepresentationSheetBag and ViewBag
- Moved DesignRepresentationSheetBag to DesignRepresentationType from DesignType and EarlierDesignType; and ViewBag from DesignRepresentationSheetType to DesignRepresentationType. DesignRepresentationSheetBag is for views contained in scanned paper, PDF or MS-Word; and ViewBag for structured XML data
- In DesignRepresentationSheetType, added a new element “ViewReferenceText (Reference to views which are contained in the representation sheet, such as numbering of representation and type of view of the design); and make (RepresentationSheet) FileName mandatory
- Modified the description of View (Data regarding a view of the design) to (A view, representation or reproduction of the design)
- In ViewType, renamed “ViewKindCategory” with “RepresentationFormCategory”.
- In ViewType, made com:(Image) FileName mandatory and HeightMeasure and WithMeasure optional

*ViewType (see IssueID-555)*

82. The following changes were made to ViewType:

- Replaced com:ImageFileName with new component com:FileName (mandatory)
- Added a new optional element, ViewIdentifier (View identification number) after com:FileName;
- Added a new component dgn:ViewFileFormatCategory (Kind of digital file format of the design view) as the new data type dgn:ViewFileFormatCategoryType which comprises all enumeration values defined in com:ImageFormatCategoryType and in addition the following new permissible values:
  - ThreeDS (3D Studio)
  - DWG (Drawing)
  - DWF (Design Web Format)
  - IGES (Initial Graphic Exchange Specification)
  - ThreeDM (Three-Dimensional Modeling)
  - SWF (Small Web Format)
  - MPEG (Moving Picture Experts Group)
  - WMV (Window Media Video)
- In ViewType, replaced the com:ImageFormatCategory component with dgn:ViewFileFormatCategory; and
- Make the HeightMeasure and WidthMeasure elements optional.

*DesignApplication (see IssueID-568)*

83. The following changes were made to DesignApplicationType:

- a. In Designer, added sequence of optional com:DocumentIncludedBag.
- b. In Design, added dgn:DesignClaim (com:OrderedText) as optional after DesignDescriptionText. The description: “Matter for which design protection is sought”
- c. In DesignApplication (DesignApplicationType), added new element com:BusinessEntityStatusCategory (optional)
  - i. Create com:BusinessEntityStatusCategoryType (Status of business entity being established for the purpose of paying a fee such as a filing fee and a maintenance fee) with the following 3 enumeration values:
    - Undiscounted (Undiscounted entity)
    - Small (Small entity discount)
    - Micro (Micro entity discount).

- d. In Design, added new component, dgn:PrincipalDesignRelationBag
  - i. In dgn:PrincipalDesignRelationBag, created new component dgn:PrincipalDesignRelation which then contains the existing dgn:DesignatedCountryBag and two new elements PrincipalDesignCategory(Type) (Types of documents in which the principal design can be found) and PrincipalDesignReference (Reference to the specific design contained in the document); add the component com:DocumentIdentifier (optional) in PrincipalDesignRelation between PrincipalDesignCategory and PrincipalDesignReference.
  - ii. PrincipalDesignCategory(PrincipalDesignCategoryType) “Types of documents in which the principal design can be found” - Enumerated list with following values:
    - Current Application
    - International application
    - International registration
    - National or regional application
    - National or regional registration

#### MISCELLANEOUS

84. Furthermore, some typos and minor errors appeared in descriptions of schema components were corrected, e.g., remove unnecessary line breaks.
85. Changed the element and attribute to self-closing style whenever possible, e.g., `<xsd:element ref="com:CommentText" minOccurs="0"/>`
86. Removed declaration of Common namespace in Design, Patent and Trademark components if there is no direct use of components from Common namespace.
87. The following changes were made to improve description of the elements below:
  - com:DesignatedCountryCode: Code of designated country or intergovernmental organization
  - tmk:DesignatedCountry: Designated contracting party for international trademarks
  - dgn:DesignatedCountry: Designated contracting party for international designs
  - DocumentFormatCategory - Category of the document file format, e.g., HTML, PDF
  - ImageFormatCategory - Category of the image file format
88. Made enumeration values lower case except for the first character.

89. Changed the order in some content models from

maxOccurs="unbounded" minOccurs="0"

to

minOccurs="0" maxOccurs="unbounded"

90. Removed mixed content attribute in complexContent in

```
<xsd:complexType name="IPOASISEntryType" mixed="true">
```

```
<xsd:complexContent mixed="true">
```

91. Removed the default value in the definition of ulStyle attribute

```
<xsd:attribute name="ulStyle" default="Bullet" type="com:ULStyleType">
```

```
<xsd:attribute name="ulStyle" type="com:ULStyleType">
```

92. Removed special characters "-" or "," in the following enumeration values:

- in com:TransactionCategoryType, the value "Certified copy notice document by trial examination - decision" and it reads "Certified copy notice document by trial examination\_decision"; and
- in pat:ClaimStatusCategoryType, the value "Non-elected or withdrawn" and it reads "Non elected or withdrawn".

93. Replaced dgn:DesignApplicationReference and tmk:ApplicationReference with the new component com:ApplicantFileReference because the existing two elements have the same role as the new component defined in common namespace.

[End of document]