Technical Working Party on Automation and Computer Programs TWC/35/4 Add.

Thirty-Fifth Session Original: English

Buenos Aires, Argentina, November 14 to 17, 2017 Date: November 17, 2017

ADDENDUM TO INFORMATION RETRIEVAL FROM UPOV DATABASES USING NATIONAL SYSTEMS

prepared by the Office of the Union

Disclaimer: this document does not represent UPOV policies or guidance

The Annex to this document contains a copy of a presentation on "Information retrieval from UPOV databases using national systems", made by the Office of the Union at the thirty-fifth session of the Technical Working Party on Automation and Computer Programs (TWC).

[Annex follows]

ANNEX

INFORMATION RETRIEVAL FROM UPOV DATABASES USING NATIONAL SYSTEMS Presentation by Ms. Hend Madhour, UPOV

INFORMATION RETRIEVAL FROM UPOV DATABASES

November 16, 2017



International Union for the Protection of New Varieties of Plants

PREVIEW

- GENIE DB
- TG Template DB

Current Use of UPOV databases

- Use of robots
 - Dense traffic
 - UPOV server crashing
- Manual input

UPOV

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Web Services

- Machine to Machine communication
- Useful to exchange data with external systems based on a contract
- Contract:
 - Input format
 - Output format

Restful services

- Input data included in the URL
- Output data: JSON format

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Demonstration

- Use of free online converter
- Convert JSON format into CSV/Excel
- http://www.convertcsv.com/json-to-csv.htm

GENIE DB Web services

- Retrieve to most recently updated records of: UPOV codes; botanical names; and common names (see "UPOV Code List" below)
- Search for a record using keywords.
 - Upov Codes
 - Botanical names
 - Common names in different languages

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UPOV Code List

 https://webaccess.wipo.int/genie/upovcode/ UpovCodeList

UPOV Code Detail for a given keyword

 https://webaccess.wipo.int/genie/upovcode/ UpovCodeInfo/{keyword}

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PREVIEW

- GENIE DB
- TG Template DB

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UPOV TG web services

- Facilitate drafting of individual authorities' test guidelines
- Retrieve UPOV characteristics and their states of expression in all available languages using the UPOV TG web services.
- Given a TG code and a language code, it is possible to retrieve:
 - List of characteristics (Chapter 8)
 - List of Technical questionnaire characteristics (Chapter 10)

List of Characteristics

For example, in the case of Turnip (TG code=37), it is possible to retrieve the list of characteristics in English (EN) using:
 https://www3.wipo.int/upovRestServices/upovCode/CharacteristicList?tgCode=37&languageCode=EN

UPOV

```
responseCode:

message:

"SUCCESS"

characteristicOrderclist:

0:

characteristicOrder:

1:

characteristicOrder:

2:

name:

"cp style=\"cursor: auto;\">leaf: attitudec/p>\n"

"2:

characteristicOrder:

3

"name:

"cp style=\"cursor: auto;\">leaf: reflexing of topc/p>\n"

"3:

characteristicOrder:

4

name:

"cp style=\"cursor: auto;\">leaf: reflexing of topc/p>\n"

"4:

characteristicOrder:

4

name:

"cp style=\"cursor: auto;\">leaf: green colorc/p>\n"

"4:

characteristicOrder:

5

name:

"cp style=\"cursor: auto;\">leaf: typec/p>\n"

"5:

characteristicOrder:

4

name:

"cp style=\"cursor: auto;\">leaf: typec/p>\n"

"5:

characteristicOrder:

6

"name:

"cp style=\"cursor: auto;\">leaf: typec/p>\n"

"6:

characteristicOrder:

"7:

characteristicOrder:

"7:

characteristicOrder:

"8

"8:

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```

List of TQ Characteristics

For example, in the case of Turnip (TG code=37), it is possible to retrieve the list of TQ characteristics in English (EN) using:
 https://www3.wipo.int/upovRestServices/upovCode/TQCharacteristicList?tgCode=37&languageCode=EN

```
responseCode:
                  "SUCCESS"
 message:
▼ tqCharacteristicsPojo:
    characteristicOrder: 0 "Ploidy\n"
    characteristicOrder: 1
name: "Leaf: green color\n"
    characteristicOrder: 2
                  "Leaf: type\n"
   characteristicOrder: 3
                  "Leaf: length\n"
    characteristicOrder: 4
                  "Root: position in soil\n"
    characteristicOrder: 5
   ▼ name:
                   "Root: thick cork layer around skin\n"
   characteristicOrder: 6
                  "Root: color of skin above soil\n"
   ▼ name:
    characteristicOrder: 7
                  "Root: color of flesh\n"
UPOV
```

List of States of Expression

- For example, in the case of Turnip (TG code=37), it is possible to retrieve the list of states of expression in English (EN) for the first characteristic using:
- https://www3.wipo.int/upovRestServices/upo vCode/SOEList?tgCode=37&languageCode=EN &characteristicsOrder=1

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List of States of Expression of a TQ characteristic

- For example, in the case of Turnip (TG code=37), it is possible to retrieve the list of states of expression in English (EN) for the first TQ characteristic using:
- https://www3.wipo.int/upovRestServices/upo vCode/TQSOEList?tgCode=37&languageCode= EN&SequenceNumber=1

```
responseCode: 1
                       "SUCCESS"
         message:
        ▼ soeList:
         ₹ 0:
             soeValue: "above middle"
                        3
             soeNote:
         ₹ 1:
             soeValue: "at middle"
             soeNote:
         ₩ 2:
             soeValue: "below middle"
                        7
             soeNote:
UPOV
```