



UPOV/EAF/7/3
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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
Geneva

MEETING ON THE DEVELOPMENT OF A PROTOTYPE ELECTRONIC FORM

**Seventh Meeting
Geneva, March 16, 2016**

REPORT

adopted by the Meeting on the development of a prototype electronic form

Disclaimer: this document does not represent UPOV policies or guidance

Welcome and opening

1. The Seventh meeting on the development of a prototype electronic form ("EAF/7 meeting") was opened and chaired by Mr. Peter Button, Vice Secretary-General, UPOV, who welcomed the participants in Geneva and those who participated in the meeting by means of electronic conference.
2. The list of participants is reproduced in Annex I to this report.

Approval of the agenda

3. The meeting adopted the draft agenda as proposed in document EAF/7/1.

Developments concerning the prototype electronic form project

4. The meeting considered document EAF/7/2 "Developments concerning the prototype electronic form project".
5. The participants received a presentation by the Office of the Union on the latest developments in relation to the prototype electronic form Version 2 (PV2), a copy of which is reproduced in Annex II to this document.
6. The participants were informed that, in reply to Circular E-15/258, the following 26 members of the Union had provided the necessary information to be included in PV2: Argentina, Australia, Bolivia (Plurinational State of), Brazil, Canada, Chile, Colombia, Czech Republic, European Union, France, Georgia, Japan, Kenya, Mexico, Netherlands, New Zealand, Norway, African Intellectual Property Organization (OAPI), Republic of Korea, South Africa, Sweden, Switzerland, Tunisia, United States of America, Uruguay and Viet Nam.
7. The meeting noted that it had been agreed by the participating members at the WebEx meeting held on January 8, 2016, to add the following crops, in the following order of priority according to the interest of participating PVP Offices and breeders and the ability of the participating PVP Offices to provide relevant Technical Questionnaire information:
 - 1) Rose
 - 2) Soya Bean
 - 3) Lettuce
 - 4) Apple fruit varieties
 - 5) Potato

8. It had further been agreed by the participants that Rose and Soya Bean would be done as priority 1, while Lettuce, Apple fruit varieties and Potato would be incorporated in the prototype subject to the workload and comments received during the test campaign.

Test campaign

9. The meeting noted that the participating members in the EAF would be invited to test the system for PV2 in stages, through different interim releases, in order to obtain regular feedback. Comments would be taken into consideration for the development of subsequent releases in order to have a fully-functioning prototype by August 2016 for a final test campaign in September 2016, before presentation at the sessions of the Administrative and Legal Committee (CAJ) and the Consultative Committee in October 2016, as appropriate.

10. Participants were informed that the test campaign had started in February 2016 with two releases dedicated on the testing of the PVP_XML Schema. The rest of the timetable for the test campaign for the development of PV2 was presented to the EAF/7 meeting as follows:

Test Campaign	From/To	Milestone Release (MR) Contents/ Functionalities to be tested
Release 3	11/04/2016 to 22/04/2016	Authentication/Authorization, Multi-language feature, Add new participants, user feedback from MR2
Release 4	09/05/2016 to 20/05/2016	Manage forms interface, Add crops (Rose+Lettuce), user feedback from MR3
Release 5	06/06/2016 to 17/06/2016	Reuse TQ, Payment, user feedback from MR4
Release 6	04/07/2016 to 29/07/2016	Add Soya Bean, Office/Breeder Preference Interface, integration with CPVO authorization service, user feedback from MR5
Release 7	16/08/2016 to 26/08/2016	Add Apple Fruit Varieties*, Encryption, Secure RESTful services, user feedback from MR6
Release 8	12/09/2016 to 30/09/2016	Add potato*, user feedback from MR7
Final Release	10/10/2016 to 21/10/2016	User feedback from MR8 and Full prototype

*if time permits

Validation of PVP-XML Schema Version 2.0 (V2.0)

11. The participants noted that the XML Schema to be used for the project (i.e. PVP-XML) would, as far as possible, reuse and refer to relevant components of the WIPO Standard ST.96 and be based on the PVP-XML Version 1 released in 2015 and used in PV1.

12. The participants noted the comments received during Test campaign Release 1 and 2, and received a presentation and an explanation on PVP-XML V2.0 by the Office of the Union. The meeting approved and agreed on the release of PVP-XML Version 2 (Version to be used for the Prototype_PV2).

13. In relation to the possible implementation of an operational system, the EAF/7 agreed the following:

(a) all legal requirements of the PVP Offices concerned would need to be met (e.g. to clarify that the EAF does not represent an intermediary in the application process. The application would be made by the user with the PVP Office concerned);

(b) all questions would be available in the languages of the participating UPOV members (if available and provided, according to the time available);

(c) users would be required to provide information (answers) in a language accepted by the PVP Office concerned (as indicated in the form);

- (d) the following two options in relation to integration with PVP Offices systems:
- (i) Case 1: In the case of PVP Offices with no electronic system or who do not wish to integrate their existing system with the EAF, they would receive the submitted application data via:
 - e-mail or
 - regular mail/hand delivery,
 - (ii) Case 2: System-to-System communication
 - Automatic reception of submitted application data
 - Validation of submitted application data and authorization through Web application;
- (e) all data would be encrypted and considered confidential;
- (f) that the EAF system should allow, if requested, for PVP Office fees to be collected by UPOV and distributed to the PVP Offices in a form and currency determined by the PVP Office concerned;
- (g) that the implementation of the EAF would not affect the fees that PVP Offices would receive per application; and
- (h) for payment to cover the costs of the EAF, including UPOV charge per application, as follows:
- CHF 150 / submitted application in 2017/2018,
 - CHF 250 / submitted application from 2019 on;
- (i) that financial and administrative regulations and rules should be presented for approval at the EAF/8 meeting;
- (j) on the development of a program of training for PVP Offices and users, to be arranged in conjunction with the launch of the EAF;
- (k) on a program of publicity on the availability of the system for breeders to be organized in conjunction with the launch of the EAF;
- (l) on the need to develop an approach to add new crops more rapidly, for consideration at the EAF/8 meeting;
- (m) to make an initial assessment of the feasibility of including information for official variety list purposes, for consideration at the EAF/8 meeting.

Future actions and program

14. The participants agreed on the plan presented for the test campaign for PV2 and noted that participating members should:

- create WIPO Accounts to access and use the prototype (PVP Offices & Breeders)
- provide terms and conditions when needed (PVP Offices)
- check mapping files: mandatory/optional elements (PVP Offices)
- provide bank account details and application fee (amount and currency) to be used (PVP Offices)
- develop the client interface to interact with EAF in form of system-to-system communication (if requested) (PVP Offices).

15. The participants agreed with the plan to make a presentation of PV2 to the CAJ and the Consultative Committee, and to seek the approval by the Council, at its fiftieth session, to be held in Geneva on October 28, 2016, for the launch of the EAF at the end of 2016 or beginning of 2017.

Date of next meeting

16. It was agreed that the Eighth Meeting on the Development of a Prototype Electronic Form (“EAF/8 meeting”) would be held in Geneva on Monday October 24, 2016, starting at 6 p.m., with the possibility of participation by means of electronic conference.

17. *This report was adopted by correspondence.*

[Annexes follow]

ANNEX I

LIST OF PARTICIPANTS

I. MEMBERS

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Dominique THÉVENON (Madame), Board member, Treasurer - CIOPORA, AIGN®, International Community of Breeders of Asexually Reproduced Ornamental and Fruit Plants (CIOPORA), Hamburg, Allemagne (e-mail: t.dominique4@aliceadsl.fr; t.dominique4@orange.fr)

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Bernard RAUBER, Head; Income Section

IV. OFFICER

Peter BUTTON, Chair

V. OFFICE OF UPOV

Peter BUTTON, Vice Secretary-General
Yolanda HUERTA (Ms.), Legal Counsel
Jun KOIDE, Technical/Regional Officer (Asia)
Ben RIVOIRE, Technical/Regional Officer (Africa, Arab countries)
Leontino TAVEIRA, Technical/Regional Officer (Latin America, Caribbean countries)
Hend MADHOUR (Ms.), Data Modeler and Business Analyst
Ariane Besse (Ms.), Administrative Assistant

[Annex II follows]

EAF/7 meeting

**Electronic Application Form
Project_Version 2 (PV2)**

Document EAF/7/2

Geneva, March 16, 2016

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OVERVIEW

I- PV2

- Background
- Developments since EAF/6 (October, 2015)
- Validation of PVP-XML Schema Version 2.0 (V2.0)
- Other matters for consideration
- Next steps

II- Future Issues

- Adding new crops
- Official Variety List

2

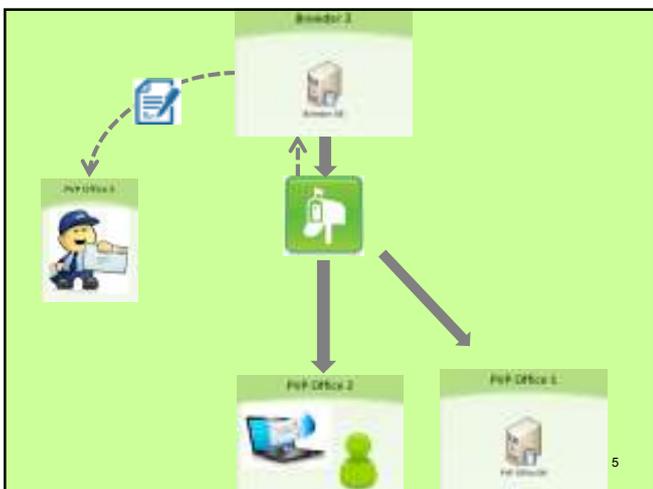
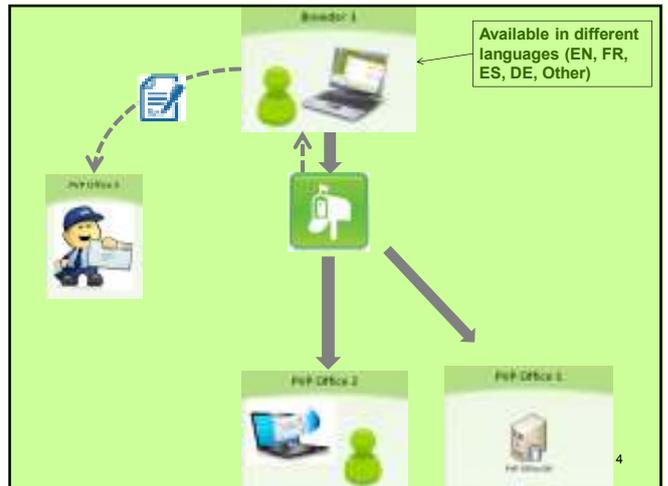
Background

The original description of the aim of the project on a prototype electronic form was to develop a **multilingual, electronic form containing questions relevant for plant breeders' rights (PBRs) applications.**

The aim of the prototype would be to develop an **electronic form covering all relevant information required for a PBR application (including Technical Questionnaire)** in the members of the Union concerned and with questions translated in the relevant languages for the members of the Union concerned.

(see document CAJ/66/5 "Electronic Application Systems", paragraph 2).

3



TRANSFER OPTIONS

<p>Regular Mail</p> <p>Hard Paper</p>	<p>E-mail</p> <ol style="list-style-type: none"> XML and/or PDF Link to download application data (SFTP* Server) <p style="font-size: small;">* Secure File Transfer Protocol</p>	<p>System to System</p> <p>XML and/or PDF</p>
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Benefits of the EAF system

1. Multilingual system: possibility to read all questions in all languages of participating members
2. Provide and electronic PVP system for participating members who don't have one
3. Facilitate exchange of data in a standard format (PVP-XML)
4. Offer the possibility to reuse existing application data

7

Target for Prototype Electronic Application Form Version 1 (PV1)

Functioning Prototype
by October 2015 (EAF/6 meeting)

=

Data can be transferred (and reused) from participating breeders to participating PVP Offices according to the **specific information** that they require for an application in the **requested format**

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OVERVIEW

I- PV2

- Background
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Validation of PV1

Done

–Validation by participating members and UPOV members

- EAF/6 (October 26, 2015)
- CAJ (October 27, 2015)
- Consultative Committee (October 28, 2015)



10

Target for Prototype Version 2 (PV2)

Functioning system by October 2016

Including:

Scaling-up of the system, i.e. addition of further crops, languages and PVP Offices, and **Enable implementation** by PVP Offices for the **application process** (filing, authorization, payment, submission...) for the **selected crops**

11

Agreement by EAF/6 meeting on the prototype V.2 (PV2)

To be included in PV2 (see EAF/6/4 "Report")

Different languages: EN, FR, DE, ES

New crops: Apple Fruit Varieties, Rose, Soya Bean and Potato

Payment modes and user authentication/authorization

Possibility to introduce and/or modify questions (update of the form) and routine maintenance

Confidentiality of data and Security policies in terms of data transfer.

View application in XML/ PDF format

High availability of the system

Interaction with existing external systems (Genie DB, WIPO Accounts, PVP Office)

Opportunity to participate in PV2

UPOV members and breeders
were invited to join the project
and provide their information for PV2

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Prototype Electronic Application Form

Participating UPOV members in EAF

- Argentina
- Australia
- Bolivia
- Brazil
- Chile
- Canada
- (China)
- Colombia
- Czech Republic
- Dominican Republic
- Ecuador
- European Union (28 member States)
- France
- Georgia
- Germany
- Japan

- Kenya
- Mexico
- Netherlands
- New Zealand
- Norway
- Oman
- OAPI (17 member States)
- Paraguay
- Republic of Korea
- Sweden
- South Africa
- Switzerland
- Tunisia
- United States of America
- Uruguay
- Viet Nam

Partners

- UPOV Office
- WIPO
- CPVO
- ISF
- CIOPORA
- CropLife

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14
cover 75 countries

Prototype Electronic Application Form

Participating UPOV members in the EAF project 32



The boundaries shown on this map do not imply the expression of any opinion whatsoever on the part of UPOV concerning the legal status of any country or territory

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Participating Authorities in PV2*

Authorities (26)				
Argentina	Canada	Kenya	Organisation Africaine de la PI (OAPI)	South Africa
Australia	Czech Republic	Republic of Korea	Sweden	Switzerland
Bolivia	European Union	Mexico	Tunisia	
Brazil	France	Netherlands	United States of America	
Chile	Georgia	New Zealand	Uruguay	
Colombia	Japan	Norway	Viet Nam	

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UPOV members cover 69 countries

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* Participating UPOV members in the EAF who provided their forms /information to be used in the prototype electronic form PV2

Prototype Electronic Application Form

Participating UPOV members for PV2* 26



The boundaries shown on this map do not imply the expression of any opinion whatsoever on the part of UPOV concerning the legal status of any country or territory
(For information: in PV1=10 UPOV members provided their forms/ information)

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* Participating UPOV members in the EAF who provided their forms /information to be used in the prototype electronic form PV2

Prototype Electronic Application Form PV2

One tool:
Several options

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TRANSFER OPTIONS

<p>Regular Mail</p> <p>Hard Paper</p> 	<p>E-mail</p> <ol style="list-style-type: none"> XML and/or PDF Link to download application data (SFTP* Server)  <p><small>* Secure File Transfer Protocol</small></p>	<p>System to System</p> <p>XML and/or PDF</p> 
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How to receive Application Data*

Way	Authorities
 Mail (2)	JP, TN
 Email (13)	CA, CH, CL, FR, KE, KR, MX, NZ, OA, US, UY, VN, ZA
 Email + SFTP access (1)	AU
 Web Services (6)	AR, BR, CZ, NL, NO, QZ
Not yet specified (3)	BO, GE, SE

* According to replies received from participating members to Circular E-15/258

Format to receive Application Data*

Format	Authorities
 XML (6)	AR, CZ, NO, NZ, QZ, US
 XML and PDF (7)	AU, FR, KR, MX, NL, VN, ZA
 PDF(8)	BR, CA, CH, CL, KE, OA, TN, UY
 Paper(1)	JP
Not yet specified (3)	BO, GE, SE

* According to replies received from participating members to Circular E-15/258

Supported crops in EAF-PV2

Crops	Priority*
Rose (17)	1
Soya Bean (20)	1
Lettuce (19)	2
Apple Fruit Varieties (18)	2
Potato (18)	3

* According to time available

Agreement on the Technical Architecture of PV2

See EAF/6/4 "Report"

- Payment modalities
- User authentication
- Security requirements in terms of Data confidentiality and Access rights management
- High availability (HA) of the system
- Communication with existing and external systems such as the GENIE Database, WIPO Users Account and existing systems in PVP Offices
- International Reference Number (IRN) and unique Breeder's reference
- Legal aspects
- Level of compliance with Web Content Accessibility Guidelines (WCAG)

Legal aspects

It was agreed that the EAF would need to conform to the legal requirements of the PVP Offices concerned (see EAF/6/4 "Report").

The terms and conditions for PVP Offices would be provided by the PVP Offices concerned and acknowledgement would be integrated within the EAF terms and conditions, where appropriate.

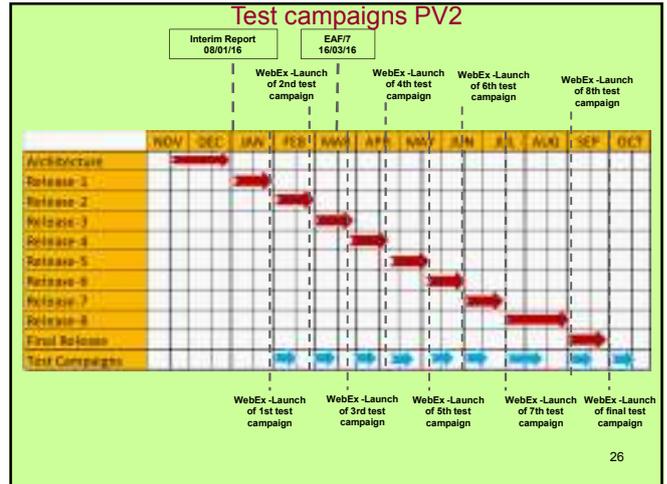
In other cases, a separate procedure would be required at the level of Authority:

- At the EAF system level, the terms and conditions would be included separately, with the user being requested to accept the terms and conditions at the first connection.
- At the application level, the terms and conditions would be included in the application form (i.e. specific to each application and completed in the declaration chapter).

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Test campaigns PV2

Test Campaign	Milestone Release (MR) Contents/ Functionalities to be tested
Release 1	Updated PVP-XML Application Form (AF) for new participants and new crops
Release 2	Updated PVP-XML Technical Questionnaire (TQ) for new participants and new crops, User feedback from MR1
Release 3	Authentication/Authorization, Multi-language feature, Add new participants (except BO, CO), user feedback from MR2
Release 4	Manage forms interface, Add BO and CO, Add crops (Rose+Lettuce), user feedback from MR3
Release 5	Reuse TQ, user feedback from MR4
Release 6	Add Soya Bean*, Payment, user feedback from MR5
Release 7	Add Apple Fruit Varieties*, Office/Breeder Preference Interface, integration with Genie DB and CPVO validation service, user feedback from MR6
Release 8	Add potato*, Encryption, Secure RESTful services, user feedback from MR7
Final Release	User feedback from MR8 and Full prototype



- ### Sequence of work for the Test campaign
- Participants will have **2 weeks** to comment on each Milestone releases through **9 different Test Releases**
 - Comments will be taken into consideration and amendments will be made to the subsequent Milestone release.



- ### OVERVIEW
- I- PV2
- Background
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- II- Future Issues
- Adding new crops
 - Official Variety List

- ### PVP-XML
- Well-defined structure to store application data
 - Data placeholder for data exchange
 - Harmonization at XML level
 - Question wording may differ from one authority to another

PVP-XML for PV2

- Based on:
 - WIPO XML Standard ST.96 Version 2.1
 - PVP_XML Version 1 released in 2015 and used in PV1
 - The forms received :
 - Application Form (26 authorities)
 - Technical Questionnaire (5 crops)
 - Test Campaign feedback (Release 1 & 2)
- **Finalised before EAF/7 meeting**

PVP-XML Version 2 released
(Version to be used for the
Prototype_PV2)

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PVP-XML for PV2 -Approach-

- Based on Office/Authority input
- Iterative approach
 - Draft1(D1): Application Form questions and TQ questions (Rose)
 - Draft2 (D2): Feedback from D1 and TQ questions (Lettuce, Potato, Apple Fruit Varieties and soya Bean)
 - Draft3 (D3): Feedback from D2
- At the end of each round discussion
 - Reply and reflect comments on next version
 - Identify issues to be addressed by all stakeholders -> Issue Register

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Test campaigns- PVP-XML for PV2

Test Campaign	Web Ex	From/To	Milestone Release (MR) Contents/ Functionalities to be tested
Test Release 1	01/02/2016	01/02/2016 to 12/02/2016	Updated PVP-XML ApplicationForm (AF) for new participants and new crops
Test Release 2	01/03/2016	01/03/2016 to 11/03/2016	Updated PVP-XML TechnicalQuestionnaire(TQ), User feedback from MR1

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Test campaigns- PVP-XML for PV2

- First Test Campaign
 - Revise the provided materials
 - [PVP Data Dictionary](#)
 - [PVP XML Schemas](#) :
 - Generic ApplicationForm and TechnicalQuestionnaire for Rose
 - Mapping Files
- Second Test Campaign
 - Technical Questionnaire for Lettuce, Soya Bean, Potato and Apple Fruit Varieties
 - Feedback from First Test Campaign

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PVP Data Dictionary

- Object Class: Technical Questionnaire and Application Form
- Remarks part is updated to include the results of the mapping XML/FORM results for the 26 Authorities

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PVP XML Schemas

- Generic ApplicationForm
- TechnicalQuestionnaire for Lettuce, Rose, Soya Bean, Apple Fruit Varieties and Potato
- PVP common components
- Release Notes:
 - The changes applied to the schemas per authority
- Mapping Files

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Mapping Files

- Map form questions to PVP-XML elements
- Revised by participating members
 - Especially Mandatory/Optional column

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Form Generation

Reference to UPOV
Application Model Form

Set up of specific constraints and dependencies

Chapter grouping

Dynamic display

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Mapping files- Benefits

- Generate the forms using the adequate question wording
- Transform the input data to the adequate XML format (PVP-XML components)
- Identify the reusable application data to be copied to another application
 - Share of the same tag name
- Propose recommendations on best alternatives for Copy

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Feedback Test Release 1 & 2

Breeders	Authorities
ISF_RijkZwan	AU
ISF_Syngenta	CA
	NL
	QZ

- 72 files posted on the Wiki

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General issues

- Use of the same namespace for ApplicationForm and TechnicalQuestionnaire schemas
- It may cause problems especially because the schemas are sharing some PVP components
- Proposal:
 - Create a new schema named PVPCommon.xsd
 - It will contains PVP components shared by TQs of different crops as well as ApplicationForm

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Other Issue- ST96. Representative

- CPVO requests to inform about representative position
- Use of ST.96 Representative component
- Request to add RepresentativeCategoryText
 - Submitted to XML4IP Task force

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Pending Issues

- Mandatory/Optional column in the mapping files
- Need of each authority's feedback

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OVERVIEW

I- PV2

- Background
- Developments since EAF/6 (October, 2015)
- Validation of PVP-XML Schema Version 2.0 (V2.0)
- Other matters for consideration
- Next steps

II- Future Issues

- Adding new crops
- Official Variety List

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Matters for consideration for the launch of an operational system in 2017

- Users support and routine maintenance provisions
- Integration with PVP Offices systems
- Training for PVP Offices and users
- Publicity of the availability of the system for breeders
- Payment by users to PVP Offices
- Payment to cover the costs of the EAF
- Tentative timetable for the launch of the EAF

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Integration with PVP Offices systems

Case 1: In the case of PVP Offices with no electronic system or who do not wish to integrate their existing system with the EAF, they will receive the submitted application data via :

- e-mail
- regular mail/hand delivery

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Integration with PVP Offices systems (cont'd)

Case 2: System to System communication

- Synchronization for submitted application data: e.g. Argentina, Czech Republic, Netherlands and Norway (according to replies received to Circular E-15/258)
 - Validation of submitted application data and authorization through CPVO Web application.
- The integration with existing PVP systems will be tested and assessed during the test campaign for PV2 and will be developed on an individual basis, upon request.

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Integration with PVP Offices systems (cont'd)

- Secure data transfer:
 - Encryption based on certificate
- EAF will conform with the legal requirements of the PVP Offices concerned.

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Training for PVP Offices and users

- A program of training for PVP Offices and users would be introduced in conjunction with the launch of the EAF and would be included in the work of the staff identified in the operation of the EAF, as well as other relevant staff of the Office of the Union.

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Publicity of the availability of the system for breeders

- A program of publicity of the availability of the system for breeders would be introduced in conjunction with the launch of the EAF and would be included in the work of the staff identified in the operation of the EAF, as well as other relevant staff of the Office of the Union.

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Payment by users to PVP Offices

- The implementation of the EAF would not affect the fees that PVP Offices would receive per application. However, if requested by a PVP Office, the EAF system may allow for the fees to be collected by UPOV and distributed to the PVP Offices in a form and currency determined by the PVP Office concerned.

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Payment to PVP Offices- use of payment gateway

- According to the replies received, the following authorities wish to receive the application fee through the EAF

Authority	Accepted Currency
AU	AUD
FR	EUR
NO	NOK
NZ	NZD
OA	CFA
TN	TND

- For all other authorities users will pay the application fees directly to the selected authorities

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Proposal for payment to cover the costs of the EAF

- Users would be required to cover all the costs involved in the operation of the EAF

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Proposal for the coverage of the EAF

Year	Number of crops	Number of participating Offices	Number of applications covered by EAF*
2017	5	26	1827
2018	10	30	4676
2019	15	35	6786
2020	30	40	8841
2021	40	50	10272
2022	50	50	11296

* Based on 14'500 applications/ year (see document C/49/7 "Plant Variety Protection Statistics for the Period 2010-2014").

Projection for the number of applications expected in the EAF

Year	Number of applications covered by EAF	Percentage of applications expected via EAF	Number of applications expected via EAF
2017	1827	10 %	183
2018	4676	15 %	701
2019	6786	15 %	1018
2020	8841	15 %	1326
2021	10272	15 %	1541
2022	11296	15 %	1694

Proposal for payment to cover the costs of the EAF

Year	Number of applications expected via EAF	UPOV charge (CHF)	EAF operation costs (CHF)	Income (CHF)	Balance
2017	183	150	290'000	27'405	-262'595
2018	701	150	290'000	105'216	-184'784
2019	1018	250	290'000	254'475	-35'525
2020	1326	250	290'000	331'524	41'524
2021	1541	250	290'000	385'193	95'193
2022	1694	250	290'000	423'581	133'581

Pending issues for the EAF payment

- Financial and Administrative Regulations and Rules to be approved by participating members

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OVERVIEW

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Next steps

- PV2 Test releases:
 - Release 3: **April 11, 2016**
 - Test the prototype for new functionalities
 - Authentication/Authorization
 - Multi-language feature
 - Add new participants (except BO, CO)
 - User feedback from MR2 (PVP-XML)

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Requirements- Test Release 3

- To create WIPO Accounts
 - Breeder
 - PVP Officer
 - PVP Office Admin : A specific account .e.g. INASE (AR)
 - Breeder Admin: A specific account .e.g. Syngenta
 - Email your username to eas@upov.int
- To provide Terms and conditions (if needed)
- To check Mapping files: mandatory/optional elements for AF, TQs for Rose and Lettuce

➤ **Deadline: April 6, 2016**

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Requirements- Test Release 4 (May 2016)

- Mapping files: check mandatory/optional elements for **Soya Bean** TQs

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Requirements- Test Release 5 (june 2016)

- Breeders:
 - Use of Current Account ?
- PVP offices:

Authority	Bank Account Details	Amount (application fee)
AU	To be provided	To be provided
FR	Provided	To be provided
NO	To be provided	1500 NOK
NZ	To be provided	To be provided
TN	To be provided	Possibility to transfer EUR

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Requirements- Test Release 6 (July 2016)

- Integration with existing systems:
 - Development (by PVP Office) of the client interface to interact with EAF in form of Machine to Machine communication (CPVO, NL, CZ)

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Tentative Timetable for PV2

Test Campaign	Web Ex	From/To	Milestone Release (MR) Contents/ Functionalities to be tested
Test Release 1	01/02/2016	01/02/2016 to 12/02/2016	Updated PVP-XML ApplicationForm (AF) for new participants and new crops
Test Release 2	01/03/2016	01/03/2016 to 11/03/2016	Updated PVP-XML TechnicalQuestionnaire(TQ), User feedback from MR1
Test Release 3	11/04/2016	11/04/2016 to 22/04/2016	Authentication/Authorization, Multi-language feature, Add new participants (except BO, CO), user feedback from MR2
Test Release 4	09/05/2016	09/05/2016 to 20/05/2016	Manage forms interface, Add BO and CO, Add crops (Rose+Lettuce), user feedback from MR3

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Tentative Timetable for PV2 (cont'd)

Test Campaign	Web Ex	From/To	Milestone Release (MR) Contents/ Functionalities to be tested
Test Release 5	06/06/2016	06/06/2016 to 17/06/2016	Reuse TQ, Payment , user feedback from MR4
Test Release 6	04/07/2016	04/07/2016 to 29/07/2016	Add Soya Bean*, Office/Breeder Preference Interface , integration with CPVO authorization service, user feedback from MR5
Test Release 7	16/08/2016	16/08/2016 to 26/08/2016	Add Apple Fruit Varieties*, Encryption , Secure RESTful services , user feedback from MR6
Test Release 8	12/09/2016	12/09/2016 to 30/09/2016	Add Potato*, user feedback from MR7
Test Final Release	10/10/2016	10/10/2016 to 21/10/2016	User feedback from MR8

* According to time available

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Tentative timetable for the launch of the EAF

- Subject to approval by EAF participants, CAJ and Consultative Committee, it is proposed to seek the approval by the Council at its fiftieth session, to be held in Geneva on October 28, 2016, to approve the launch of the EAF at the end of 2016 or beginning of 2017.

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Future Issues

- Adding new crops quickly
 - To simplify
- Official Variety List
 - Should it be included as a new functionality in EAF ?

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Next meeting

- EAF/8 meeting:
 - Monday October 24, 2016 ?

OCTOBER	Monday, 24	Seminar on propagating and harvested material in the context of the UPOV Convention	Geneva, Switzerland
	Tuesday, 25 and Wednesday, 26	Administrative and Legal Committee	Geneva, Switzerland
	Thursday, 27	Consultative Committee	Geneva, Switzerland
	Friday, 28	Council	Geneva, Switzerland

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Backup slides

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Explanations on costing/ EAF Business plan

- Number of crops: it is anticipated to launch the system in late 2016 or early 2017 with the five crops developed for PV2. It is then foreseen to increase the number of crops available in the system annually, with the aim of covering 50 crops/species for which UPOV has developed Test Guidelines by 2022

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Explanations on costing/ EAF Business plan

- Number of participating Offices: it is anticipated to launch the system in 2017 with the PVP Offices from within the 26 UPOV members participating in the development of PV2 that wish to participate. It is anticipated that the number of PVP Offices would increase to 50 UPOV members by 2022, on the basis that participation in the EAF only requires PVP Offices to provide copies of their forms and prepare translations, if appropriate, and would enable PVP Offices to receive applications in their current formats.

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Explanations on costing/ EAF Business plan

- Number of applications covered by EAF: This number is estimated on the basis of total number of plant breeders' rights applications in 2014 (14,436) (see document C/49/7 "Plant Variety Protection Statistics for the Period 2010-2014"), the number of crops covered by the EAF and the number of participating PVP Offices in the EAF.

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Explanations on costing/ EAF Business plan

- Percentage of applications expected via EAF: It is anticipated that 10% of the potential number of applications that could be made via the EAF will use the EAF in 2017, rising to 15% in 2018 as breeders become more aware of the EAF.

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Explanations on costing/ EAF Business plan

- Number of applications expected via EAF: This is calculated on the basis of the "Number of total applications covered in by the EAF", multiplied by the "Percentage of applications expected via the EAF". In 2017, it is anticipated that around 180 applications would be made via the EAF, corresponding to an income of about 25,000 Swiss francs, as projected in the Program and Budget for the 2016-2017 Biennium (see document C/49/4 Rev., Section 3. "Proposed Budget" paragraph 3.18).

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Explanations on costing/ EAF Business plan

- Number of applications expected via EAF (cont'd):
By 2020-2021 it is anticipated that around 1,500 applications per annum would be made via the EAF system, corresponding to 10% of the total number of plant breeders' rights applications in 2014 (14,436), as presented in document C/49/7 "Plant Variety Protection Statistics for the Period 2010-2014".

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Explanations on costing/ EAF Business plan

- UPOV charge: A charge of 150 Swiss francs per application is proposed for the first two years of the system (2017-2018) to encourage participation, to reflect the limited number of crops available and the limited number of PVP offices. It is anticipated to increase this charge to 250 Swiss francs by 2019 in order to cover all costs for the operation of the EAF by 2020.

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Explanations on costing/ EAF Business plan

- EAF operation costs: The costs for the development and operation of the EAF are budgeted in the Program and Budget for the 2016-2017 Biennium (document C/49/4 Rev.). The EAF operation costs are forecast to be the following, from 2017:

Item	Cost/annum (Swiss francs)
IT Officer (one person)	160,000
Administrative Officer (one person)- part time	60,000
IT Development/ infrastructure/ maintenance costs and user support	70,000
Total	290,000

Explanations on costing/ EAF Business plan

- Income: The estimated income for 2017 (27,405 Swiss francs) corresponds closely to the 25,000 Swiss francs income budgeted in the Program and Budget for the 2016-2017 Biennium (see document C/49/4 Rev., Section 3. "Proposed Budget" paragraph 3.18)

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End of Annex II and of document