



TWC/28/35

ORIGINAL: English

DATE: September 3, 2010

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

**TECHNICAL WORKING PARTY ON AUTOMATION AND
COMPUTER PROGRAMS**

Twenty-Eighth Session
Angers, France, June 29 to July 2, 2010

CPVO CENTRALISED DATABASE OF VARIETY DENOMINATIONS,
SYSTEM OF VARIETY DENOMINATION CHECKING,
ELECTRONIC OFFICE MANAGEMENT SYSTEMS DEPLOYED BY CPVO AND
CPVO ONLINE APPLICATION SYSTEM

Document prepared by the Office of the Union

This document contains the following presentations made by experts from the Community Plant Variety Office of the European Union (CPVO) at the twenty-eighth session of the Technical Working Party on Automation and Computer Programs:

Annex I: CPVO “Centralised database of variety denominations” presented by Mrs. Carole Bonneau;

Annex II: CPVO system of variety denomination checking presented by Mr. Patrick Lecoq;

Annex III: Electronic office management systems deployed by CPVO presented by Mrs. Laura Naie, and

Annex IV: CPVO online application system presented by Mr. Marc Rouillard.



Centralised database on variety denominations

1

Aim

- Web based database released in 2005 for the purpose of testing similarity
- 618.000 denominations included



2

Content

- CPVO data
- Data received from the European Commission
- OECD list
- National databases :
 - Register for plant breeder's rights and national listing



Content

- Other registers of interest :
 - Commercial registers : Plantscope database (varieties commercialized in the Dutch auctions)
 - Fruit National Listing
 - Conservation varieties
 - Plant patent registers



Content

- Data from non EU Member States are received from the UPOV Office for insertion into the CPVO Centralized database
- Data from EU Member States sent to the UPOV Office for inclusion into the UPOV CD Rom
 - Data exchange taking place every 2 months



3 formats of contribution

- SGML File format (text file used for the UPOV CD Rom)
- CSV files format
- Excel file format (very flexible for contributors)
- Processing data : time consuming



Access

- The Centralized database is available for :
 - All EU contributors
 - UPOV
 - Breeder's associations : ESA and CIOPORA
 - All applicants for PVR and NL in the EU
 - The Benelux Office for Intellectual Property (other Trademark Offices on request)
 - Non EU authorities in Australia, Tunisia, Japan, Turkey, Croatia (other on request)



When should we receive the data?

- Each time a given country publishes its national gazette
- The database should be updated with each publication



Quality Checks

- All species Latin names are attributed the UPOV code :
 - UPOV codes requested when necessary to the UPOV Office
- Examples of incoherences reported to the contributors :
 - Modifications of variety identifiers (file n°)
 - Status of the variety not clear in the contribution
 - Dates (format...), duplicates



Quality Checks

- Data received should comply with official publications :
 - Check performed manually
 - Reports to contributors sent with concrete examples



Reports sent to contributors

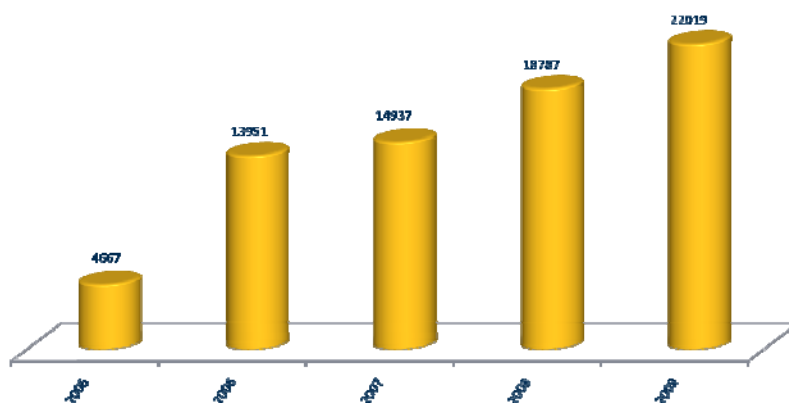
- To request for a complement of information
- To point out missing data
- Include suggestions for improvement



TWC 2010_Centralized database

11

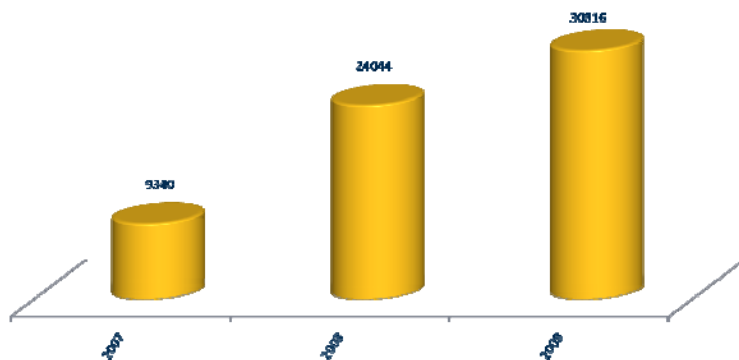
Evolution of the number of tests from 2005 to 2010 (National Authorities)



TWC 2010_Centralized database

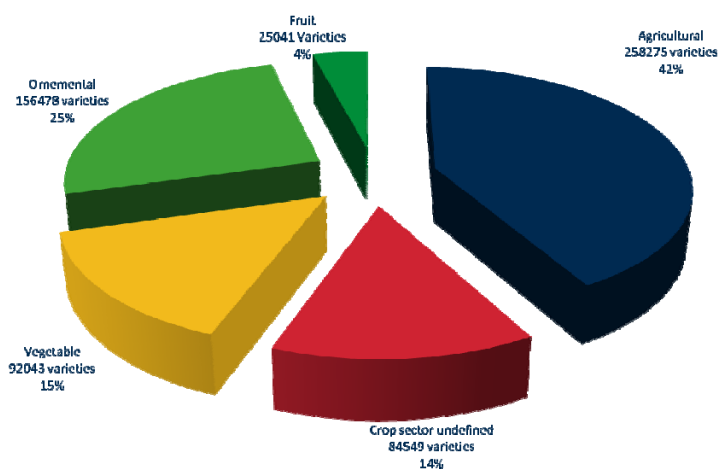
12

Evolution of the number of tests from 2007 to 2009 (Applicants and Procedural representatives)



TWC 2010_Centralized database

Content of the centralized database : number of varieties per crop sector



TWC 2010_Centralized database

Conclusion

- Flexibility in accepting contributions
- 60% of a full time job
- Since 2010 :
 - Access to all UPOV Member possible on request
 - New project of cooperation with EU Member States : the Office gives advices on the suitability of denomination's proposals to National Authorities



Thank you for your attention.



[Annex II follows]



Centralised database of variety denominations

1



Creation of the Centralised database for variety denominations in 2004



One of the main issues:
Algorithm software program to search
similar denominations



CPVO visited BSA, NAK and GEVES:
CPVO chose the GEVES searching tool as
a basis and tried to improved it.



Testing phase of the algorithm in 2004:
The CPVO algorithm found the similar
denominations found by the NL and DE
software program.



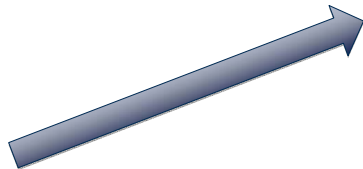
- After 6 years of experience:
- No negative feedback from users
 - Several improvements added
 - Good ideas are welcome



Description of the searching tool:
Based on the computation of a similarity
score between denominations

similarity score between denominations

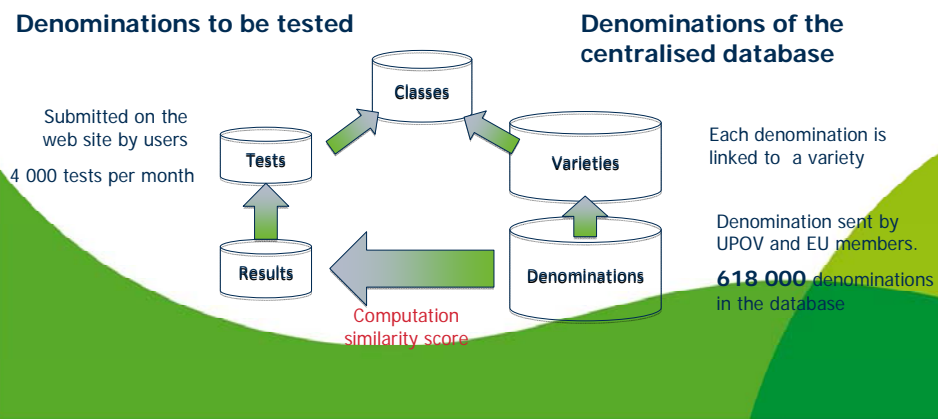
Score=0
Identical words
in the
denominations



Score >1,3
Denominations
not similar



Description of the CDVD database



First operations

- The denomination tested is cut in elementary words.
- Non latin standard characters are replaced
- Double letters are reduced to a single letter
- Exclusion of elementary word found in the list of words excluded for testing



Example: Denomination 'Tānau TARI YELLOW'

- The word yellow is excluded from the tests.
- Words taken into account (WT) are :
 - TANAU,
 - TARI,
 - TANAUTARI,
 - TARIYELLOW,
 - TANAUTARIYELLOW



Second operation : building up a list of words of reference in the class

- List of the denominations attached to the class of the denomination tested.
- Exclusion of the words having a length really superior and inferior to the words tested



The principles of the similarity test

For each word tested, the procedure calculates a similarity score with each word of the reference list.

If the score is inferior to the threshold the denomination is selected into the result.



Detailed description of the similarity test

- Computation of $Ki2$: IF $Ki2$ inferior to the threshold then computation of :
 - Percentage of common letters
 - Percentage of non common letters
 - Percentage of difference of length
 - Rank of Kendall correlation
 - Sum = Similarity score



- Computation of Ki2: Difference of number of letters between the word tested and the word of reference

- Formula : $Ki2 = \frac{\sum(di)^2}{(\text{Length}(\text{Word Tested}) - 1)(\text{length}(\text{Word Reference}) - 1)}$

- Example ALADIN // DYLAN => $Ki2 = 0,15$. $Ki2$ inferior to 0,4, the computation continue



Computation of the percentage of common letters

- Formula : $\text{Common letters} = 1 - (\text{Nb of common letters}) / (\text{length (Word tested)})$

Example: ALADIN // DYLAN $CL = 1 - 4/6 = 0.33$



Computation of the percentage of NON common letters

- Formula : Non Common letters = $1 - (\text{Nb of letters in word of reference and not in word tested}) / (\text{length (Word tested)})$
- Example : ALADIN and DYLAN NCL = $1/6 = 0.16$



Computation of the percentage of difference of length

- Formula : DL = $(\text{Difference of length between the 2 words}) / (\text{length (Word tested)})$
- Example : ALADIN and DYLAN DL = $(6-5)/6 = 0.16$




Computation of the Kendall correlation

- Computation based on the position of the common letters of into the word tested and the word of reference
- Formula : $KC = 6 * \text{sum}(D_i)^2 / N * (N^2 - 1)$
- Example : ALADIN and DYLAN the common letters are A, L, D N. KC is equal to 0,05



Last step: Computation of the similarity score

- Similarity score = Kendall correlation + Common Letter + Non Common Letters + Difference Length
- If the similarity score is inferior to the threshold (1,2) then the denomination is selected in the result



Denomination tested: **MERIVA**
Species: **Solanum tuberosum L.**
Class: **CL4.1**
Test number: **20320** Number of denominations compared: **15573**
Date of test: **25/06/2007** Number of denominations selected: **107**

Score	Denomination Species	Breeder's reference	Application Number	Date	Publication Country	Type	
0,43	MARAVA Solanum tuberosum L.	N71-AAC-19	17712	15/10/1982	DK	PBR	<input type="checkbox"/>
0,43	Merida Solanum tuberosum L.	E 99/89/130	K 03644	15/06/2006	DE	NLI	<input type="checkbox"/>
0,53	Miriam Solanum tuberosum L.	Miriam	93-182		CA	PBR	<input type="checkbox"/>
0,53	Miriam Solanum tuberosum L.	Miriam	597		CZ	NLI	<input type="checkbox"/>
0,53	Miriam Solanum tuberosum L.	NKG 1311	K 02645	15/03/1987	DE	NLI	<input type="checkbox"/>
0,53	Miriam Solanum tuberosum L.	NKG 1311	K 02645	15/03/1987	DE	PBR	<input type="checkbox"/>
0,53	MIRIAM Solanum tuberosum L.		15155	15/01/1992	DK	PBR	<input type="checkbox"/>



Thank for your attention

[Annex III follows]

PVR

Plant Variety Rights

- PIA5 – Budget and accountancy
- THP – Third party contacts
- Docman - Electronical archive
- Deno - Denominations
- Warnings - Night batch
- Gazette - Electronical publications
- OnLine - On line applications



PVR - Plant Variety Rights

Register

Application: 2007 1227 Status: Granted

Application date: 04/06/2007 Detailed: - Expert: LUB

Specie: ANG02 Angelonia angustifolia Benth.

Application: Application2 Denomination Examination IQ and TP IQ Info Gazette Docman documents Financial

Arrival date: 04/06/2007 Fee group: Language: DE

Group: Ornamental GMO Transitional regime: No Origin: DE

Denomination: KLEAA06552 National Protection

Reference: kleaa06552 National List

Filed through: Patent

Nat. app. date:

Nat. reference:

Request for priority: Priority: Not requested Document:

Priority date: Arrival date:

Comments EN:

Novelty: Status: Novel Not novel

First inside EU: 01/08/2006 Country: EU

First outside EU: 01/08/2006 Country: CA

Not novel letter sent on:

Client	Role	Name	Country	Town	Address	Main	Valid
03116	2 Applicant	Nils Klemm	DE	Stuttgart	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
03116	1 Breeder	NILS KLEMM	DE	Stuttgart	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



PVR - Plant Variety Rights

Register

Application: 2007 1227 Status: Granted

Application date: 04/06/2007 Detailed: . Expert: UB

Specie: ANG02 Angelonia angustifolia Benth.

Application Application2 Denomination Examination IQ and TP IQ Info Gazette Docman documents Financial

Reception

Status: R-form OK No-form comments EN

Register remarks: No-form date

Expert remarks: R-form comments EN

R-form date: 08/06/2007

C-form comments EN

C-form date

Other comments EN

Application fee reminder date Not filed date

End of the application: Withdrawal or Rejection

Withdrawal date End application status: No decision

Rejection N° Rejection date Reason

Title

Title number: 24033 Granting date: 09/12/2009 Title status: Approved

Title language: DE Expiry date of protection: 31/12/2034 Decision sending reference: GG/09-0891/20

End of protection

Type of End End date Decision N° End protection status: No decision

TWC 2010 Angers – PVR presentation 3

PVR - Plant Variety Rights

Register

Application: 2007 1227 Status: Granted

Application date: 04/06/2007 Detailed: . Expert: UB

Specie: ANG02 Angelonia angustifolia Benth.

Application Application2 Denomination Examination IQ and TP IQ Info Gazette Docman documents Financial

Contract

Fee group: 16 Cultivation type: vegetative ExaminationId: 28273

Exam. office: 90003 1 BUNDESSORTENAMT Type: Examination

Testing office: 90003 1 BUNDESSORTENAMT Status: Comment delay past

Sending date: 11/06/2007 Nb years: 1 Preliminary report received on: 22/06/2007

Exam office ref.: ANG 50 Ready for title on: 23/12/2008

First Material submission:

From: 31/03/2008 to: 04/04/2008 Requested on: 18/01/2008

Quantity: 25 rooted cuttings. Quality: not pinched.

Examination reports

N°	Type	Foreseen date	Arrival date	Transmission date	Status	Comments	User id	Modif. Date
1	Final	01/02/2009	23/10/2008	29/10/2008	Positive		HDG	29/10/2008 15:11

General comments:

TWC 2010 Angers – PVR presentation 4

PVR - Plant Variety Rights

Register

Application: 60071 1227 Status: Granted

Application date: 04/06/2007 Detailed: Expert: UB

Specie: ANG02 Angelonia angustifolia Benth.

Application | Application2 | Denomination | Examination | IQ and TP | IQ Info | Gazette | Docman documents | Financial

Internal or charge account: 12384

Fees schedule of the application

REQUEST	Type	Object	Noteid	Amount	Sent on	Latest sending	Duedate	Balance on	Status	Bank reference
EXAM1	Examination year 1		2800524	1 105,00	18/01/2008	05/03/2008	04/04/2008	18/03/2008	Paid	CRCA2008055
ANNUAL_1	Annual fee for year 1		2903071	300,00	10/02/2009	09/02/2009	10/04/2009	25/03/2009	Paid	CRCA2009059
ANNUAL_2	Annual fee for year 2		2920162	300,00	27/10/2009	01/11/2009	01/01/2010	09/12/2009	Paid	CRCA2009236
ANNUAL_3	Annual fee for year 3			300,00		01/11/2010	01/01/2011			
ANNUAL_4	Annual fee for year 4			300,00		01/11/2011	01/01/2012			
ANNUAL_5	Annual fee for year 5			300,00		01/11/2012	01/01/2013			
ANNUAL_6	Annual fee for year 6			300,00		01/11/2013	01/01/2014			
ANNUAL_7	Annual fee for year 7			300,00		01/11/2014	01/01/2015			
ANNUAL_8	Annual fee for year 8			300,00		01/11/2015	01/01/2016			
ANNUAL_9	Annual fee for year 9			300,00		01/11/2016	01/01/2017			

Financial comments:

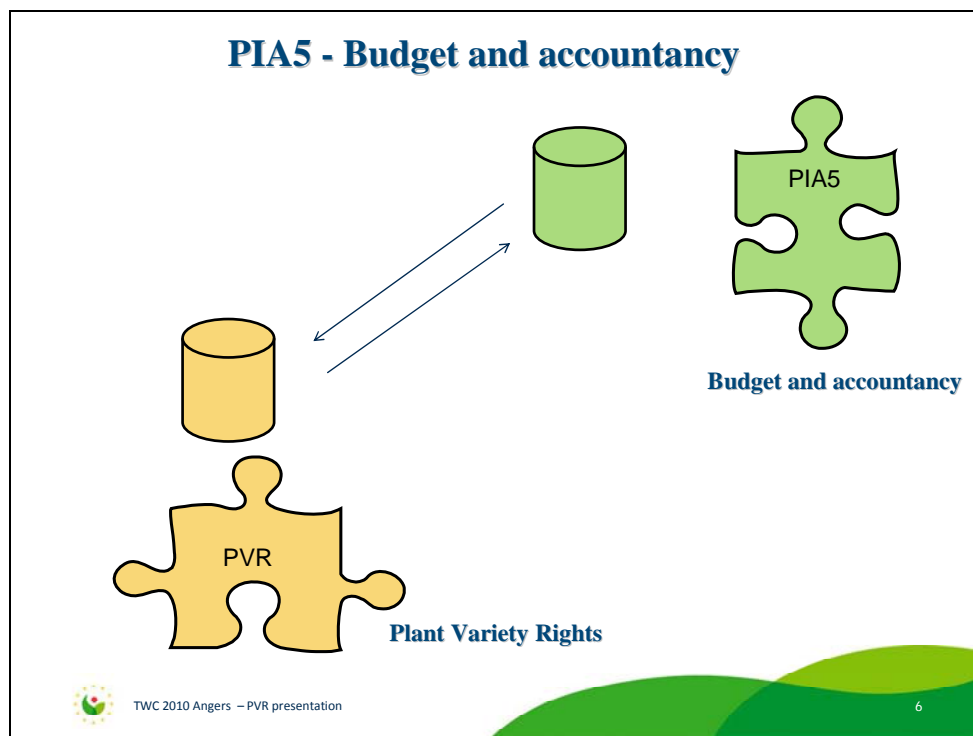
Orders / Bons de commande

Signed/Refused	Bon de commande	Type	Exam office	Sending date	Available	Initial Commitment	Consumed	Adjustement
Signed	7300956	Technical Examination	90003	11/06/2007	0,00	1 537,50	1 537,50	


Invoices

Conformes aux faits	Conforme le	By	Invoice ID
✓	30/10/2008	TK	200804077

TWC 2010 Angers – PVR presentation 5



PVR - Plant Variety Rights



Register

Application: 6007 1227 Status: Granted
 Application date: 04/06/2007 Detailed: Expert: UB

Specie: ANG02 Angelonia angustifolia Benth.

Application: Application2 Denomination Examination IQ and TP IQ Info Gazette Docman documents Financial

Arrival date: 04/06/2007 Fee group: Language: DE
 Group: Ornamental GMO Transitional regime: No Origin: DE
 Denomination: KLEAA06552 National Protection:
 Reference: kleaa06552 National List:
 Filed through: Patent:
 Nat. app. date: Nat. reference:


Request for priority: Priority: Not requested Document:
 Priority date: Arrival date:
 Comments EN:
 Novelty: Status: Novel Not novel
 First inside EU: 01/08/2006 Country: EU
 First outside EU: 01/08/2006 Country: CA
 Not novel letter sent on:

Parties

Client	Ver	Role	Name	Country	Town	Address	Main	Valid
03116	2	Applicant	Nils Klemm	Stuttgart			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
03116	1	Breeder	NILS KLEMM	Stuttgart			<input type="checkbox"/>	<input checked="" type="checkbox"/>

TWC 2010 Angers - PVR presentation 7

PVR - Plant Variety Rights



Client

Clientid: 03116 Valid Version: 2 From: 11/01/2010 Checked by: PEF
 Dormant to: Check date: 11/01/2010

List of types of the client:
 Applicant
 Breeder
 Procedural representative

Print
 Check Client

Short Name:

Official address *Mail address*

Name: Nils Klemm
 Name +:
 Address: Hanfacker 10
 Postcode: 70378 Country: DE
 Town: Stuttgart

Formatted official address:
 Nils Klemm
 Hanfacker 10
 DE - 70378 Stuttgart
 GERMANY

Formatted official address - Version 1:
 NILS KLEMM
 HANFACKER 10
 DE - 70378 Stuttgart
 GERMANY

Created Modified Deleted

Contacts *Other information* *Financial information*

Name	Valid	Default technical contact	Technical contact	Financial contact	Legal contact
Nils Klemm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ingrid Slangen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ulrike Suetzle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Civility: Mr Authorized to sign
 Surname: Klemm
 Forename: Nils
 Login: 03116 Valid Password
 Phone 1: +49 711 95 32 50 Phone 2:
 Fax1: +49 711 95 32 540 Fax2:
 Email: info-d@selectaklemm.de
 Position: Natural person
 Remark: 1) Version 2 created by PEF 11/01/10 for formatting issues, and checked in accordance with file 2010/0053 data.
 Id: 19207

TWC 2010 Angers - PVR presentation 8

PVR - Plant Variety Rights

Register

Application: 8007 1227 Status: Granted

Application date: 04/06/2007 Detailed: . Expert: UB

Specie: ANG02 Angelonia angustifolia Benth.

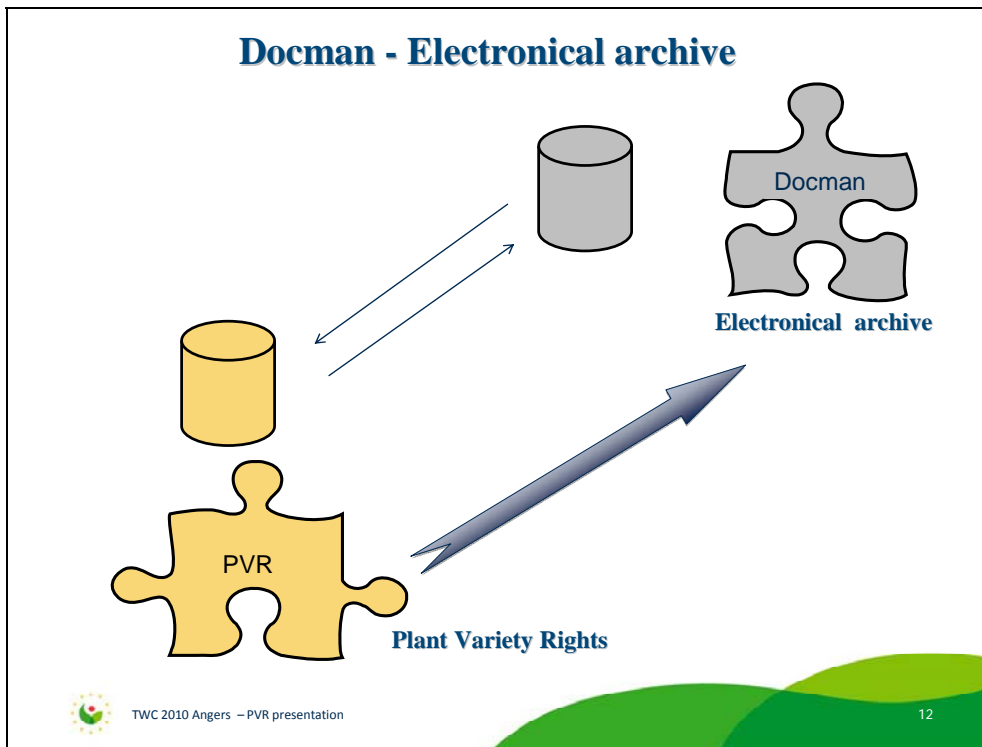
Application Application2 Denomination Examination IQ and TP IQ Info Gazette Docman documents **Financial**

- Financial
- Committee decision
- Canofile
- Registry
- Purchase Documents

Attached files to the selected record	
Filename	Filesize

Directory	Document type	Title	Mail flux	Date	Mail sequence
Financial	Client notes debit or credit + reminders	Noteld - 2920162	outgoing mail	27/10/2009	20090040250
Financial	Client notes debit or credit + reminders	Noteld - 2903071	outgoing mail	10/02/2009	20090006181
Committee decision	Title		outgoing mail	09/02/2009	20090018931
Canofile	Canofile Confidential	20071227	not applicable	01/12/2008	
Registry	Photo Client Confidential	20071227	not applicable	01/12/2008	
Purchase Documents	Supplier invoice	200804077	incoming mail	23/10/2008	20080005104

TWC 2010 Angers - PVR presentation 11



Docman - Electronical archive

FolderFrame Tree - Microsoft Internet Explorer provided by OCVV Angers

Plan de classement

2009-02-10-NoteId - 2903071

Objet

NoteId_2903071.pdf 1.0.0

TWC 2010 Angers – PVR presentation 13

PVR - Plant Variety Rights

Register

Application: 2007 1227 Status: Granted

Application date: 04/06/2007 Detailed: - Expert: UB

Specie: ANG02 Angelonia angustifolia Benth.

Application | Application2 | Denomination | Examination | IQ and TP | IQ Info | Gazette | Docman documents | Financial

Denomination: KLEAA06552 Undefined Code Fancy

Proposal date: 04/06/2007

Status: Published 3 months ago Test N°: 19382 DenominationId: 30098

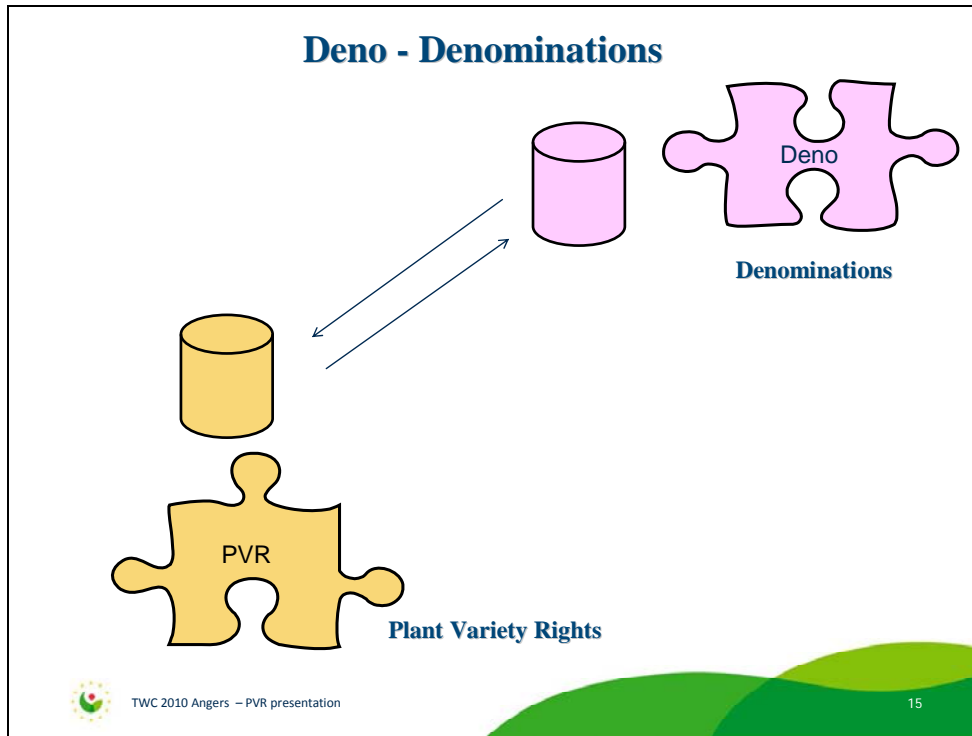
Buttons: Denomination Test, Create a new obser./objection, Prepare decision

Decision: Decision number: Signed date: Approval date: Decision status: No decision

Denominations list of the application

DenominationId	Denomination	Application date	Status	Used
30098	KLEAA06552	04/06/2007	Published 3 months ago	PVR

TWC 2010 Angers – PVR presentation 14



PVR - Plant Variety Rights

Warnings list

Search keys:
 Addressee: Type:
 Writer: Warnings from: to:
 Registerid:

All warnings
 Not read
 Read

❗

Select	Object	Sending date	Register	Note	Nb lines	Invoice	Client
<input type="checkbox"/>	Check automatic surrender publication.	20/06/2010	20020645		0		
<input type="checkbox"/>	Check automatic surrender publication.	21/06/2010	20062631		0		
<input type="checkbox"/>	Check automatic surrender publication.	21/06/2010	20062628		0		
<input type="checkbox"/>	Check automatic surrender publication.	21/06/2010	20062629		0		
<input type="checkbox"/>	Check automatic surrender publication.	21/06/2010	20062630		0		
<input type="checkbox"/>	Check automatic publication chapter 6.	19/06/2010	20030985		0		
<input type="checkbox"/>	Check automatic publication chapter 6.	20/06/2010	20020370		0		
<input type="checkbox"/>	Check publication chapter 6 generated automatically.	21/06/2010	20071826		0		
<input type="checkbox"/>	Check publication chapter 6 generated automatically.	20/06/2010	20020592		0		
<input type="checkbox"/>	Check publication chapter 6 generated automatically.	20/06/2010	20021892		0		
<input type="checkbox"/>	Deed of pledge letter: 1 month for comments - delay passed - If original received, surrender confirmation to be prepared.	18/06/2010	19950220		0		
<input type="checkbox"/>	Deed of pledge letter: 1 month for comments - delay passed - Surrender confirmation to be prepared.	20/06/2010	20041088		0		
<input type="checkbox"/>	Deed of pledge letter: 1 month for comments - delay passed - Surrender confirmation to be prepared.	20/06/2010	20021428		0		
<input type="checkbox"/>	Deed of pledge letter: 1 month for comments - delay passed - Surrender confirmation to be prepared.	20/06/2010	20041086		0		
<input type="checkbox"/>	Deed of pledge letter: 1 month for comments - delay passed - Surrender confirmation to be prepared.	20/06/2010	20041563		0		
<input type="checkbox"/>	Report and invoice to be sent to the authority	27/05/2010					
<input type="checkbox"/>	Invoice paid, report to be sent to authority	18/06/2010					

Object:

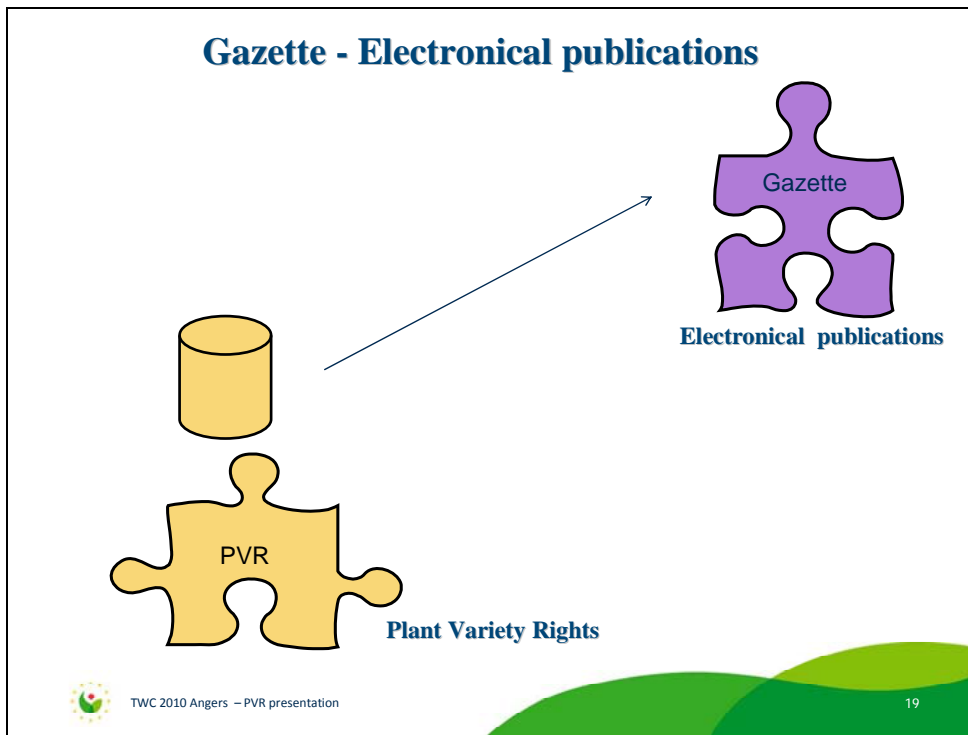
Registerid:

Noteld:

Invoiceid:

TWC 2010 Angers – PVR presentation

16



Gazette - Electronical publications

Official Gazette - Microsoft Internet Explorer provided by OCVV Angers

http://www.cpvo.europa.eu/main/en/home/documents-and-publications/official-gazette

File Edit View Favorites Tools Help

Official Gazette

 **CPVO**
Community Plant Variety Office

About the CPVO News Filing an application Technical Examinations Payment Community Plant Variety Rights Documents Databases

Search Home > Documents > Official Gazette

Official Gazette of the CPVO

After the decision of the President of the Office of 16/11/2009, the 6 official gazettes and the SZ gazette will be exclusively available in digital format, free of charge, on the website of the Office.

2010 issues will be downloadable from this page (see hereunder).

Older issues will be freely downloadable from the Archive page to which you will find a link below and where they will be referenced by years. 2009 to 2001 issues are available in pdf format. Please be aware that gazettes from 2000 to 1995 are scanned versions of hard copies, files are bigger and take longer to download.

Paper copies of pre-2010 CPVO Publications will be for sale, if printed versions are still available (please consult the inside back cover of the digital copy for further details)

The *Official Journal* of the Community Plant Variety Office (the Official Gazette) is published in nearly all official languages of the European Union.

 TWC 2010 Angers – PVR presentation

20

PVR - Plant Variety Rights

OnLineRegisterFiche

OnLine application: A200900003

Species: AGE01 Ageratum L. Group: Ornamental

Initial expert: IUB View documents

OnLine application data

Arrival date: 01/11/2009 National Protection Language: DE Geographical origin:

Transitional register: Yes National List Origin: PL

Patent Title language: DC

Reference: agelis GMO

Denomination: (A)k: TS

Undefined Code Fancy

Request for priority: Priority: Not requested Document: Received

Priority date: Arrival date:

Comments EN:


Novelty: Status: Novel Not novel

First inside EU: Country:

First outside EU: Country:

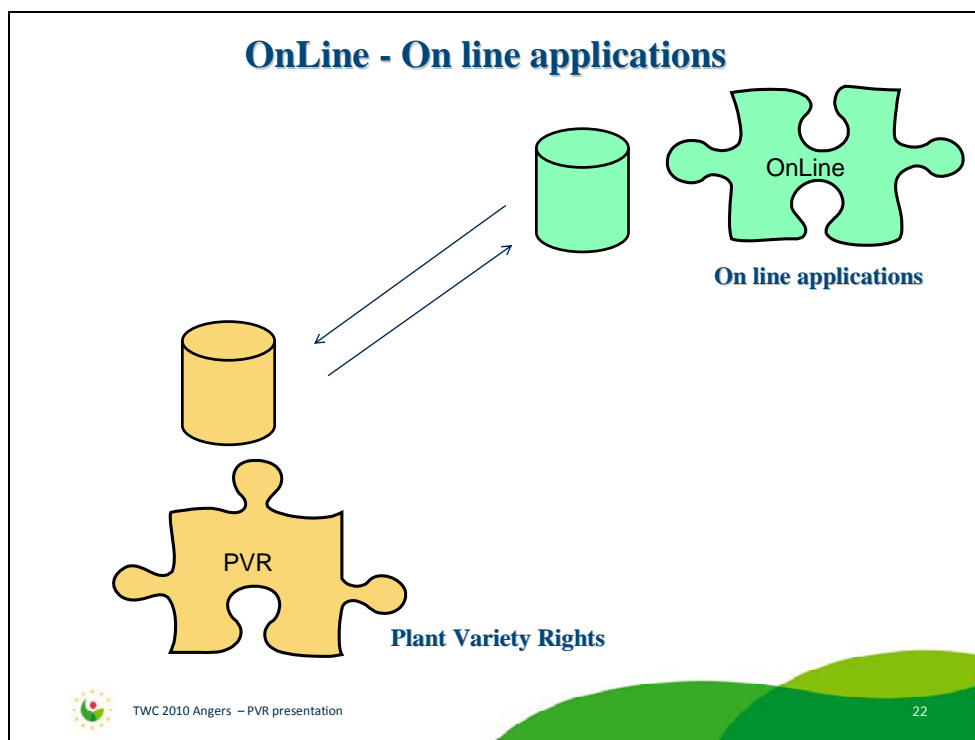
Client	Year	Role	Name	Country	Term	Address	Main	Valid	Comments
00709	1	Applicant	W. KORDES' SÖHNE ROSENSCHULEN G	DE	Klein Offenzeth-Spanieshoop		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	1	Representant	WUESTHOFF & WUESTHOFF	DE	München		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
01307	1	Breeder	TIM-HITMANN KORDES	DE	Klein Offenzeth-Spanieshoop		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
01368	1	Breeder	MARGARITA KORDES	DE	Klein Offenzeth-Spanieshoop		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
01366	1	Breeder	WILHELM KORDES	DE	Klein Offenzeth-Spanieshoop		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Modified by:



TWC 2010 Angers – PVR presentation

21



OnLine - On line applications

Welcome to the CPVO Extranet

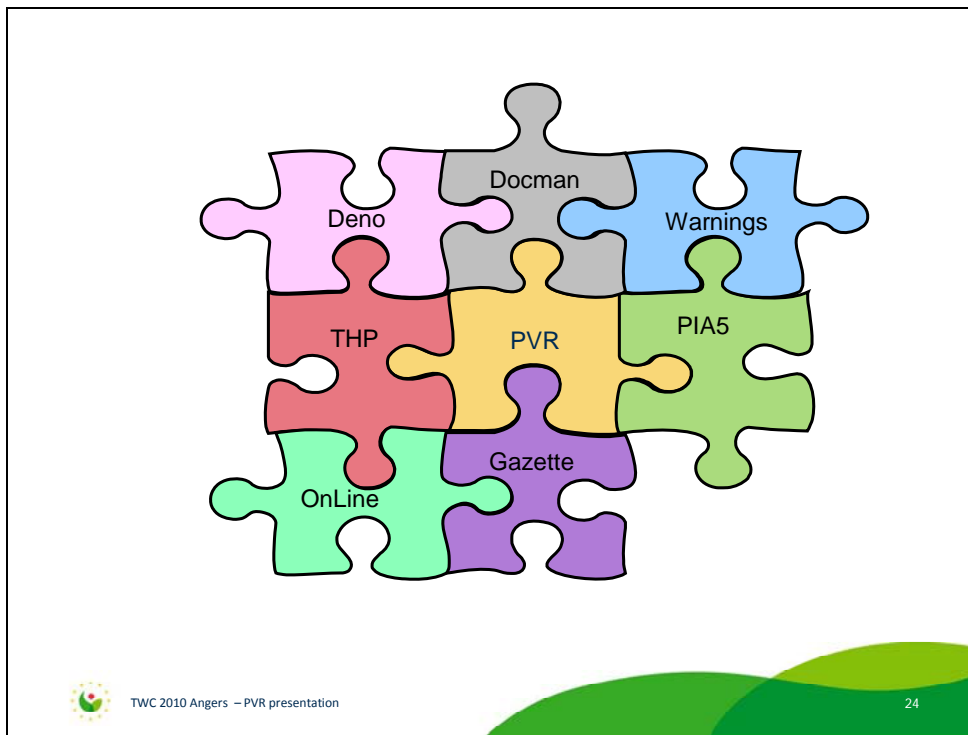
@ WEBMASTER CONTACT

Welcome

- > Change my password
- > Administrative Council Area
- > Client Extranet Area
- > Denominations Database Area
- > TEST V2 Denominations Database Area
- > Technical Liaison Officer Area (WEBEO)
- > Online Application

[READ THE TERMS & CONDITIONS](#)

TWC 2010 Angers - PVR presentation 23



[Annex IV follows]



CPVO Online Applications

28th Session of the TWC

Angers, France - June 29 to July 2, 2010


Marc Rouillard – Webmaster/Web Project Manager

Identification system

- Two-folded:
 - clients known to the CPVO
 - Temporary accounts allowing online applications
- Data volume:
 - around 3500 known users (380 active).
 - low number of temporary users



Identification system



CPVO
Community Plant Variety Office

@ WEBMASTER CONTACT

Sign In

Login

Password

[Forgotten your password?](#)
[Forgotten your login?](#)

Remember me

Sign Up

In order to file an application online, you must first create an account. Please note that Clients already known to the Office should not create a new account as they already have one.

TWC 2010 – Angers – CPVO Online Applications

3

Identification system

Sign Up - Creation of an account

Choose your login * _cpvo (* mandatory field)

Choose your password * Confirm password *

Email * Confirm email *


Surname * Forename

Company Phone

After clicking on "Create an access" you will receive an email with a link to confirm your email address. The confirmation should be done within 48 hours. When the delay is expired, you will have to request another account.

Copy in the box below the 6-letter security code found in the image on the right. If you have difficulties reading it, try another one by clicking on "Generate a new secure code".

Secure code *



[Generate a new secure code](#)

TWC 2010 – Angers – CPVO Online Applications

4

Identification: technical specifications

- Website made with PCSoft's Webdev
- Oracle 10i database
- Microsoft IIS6 webserver



Front Office: overview of client side

Made :TEST / database : PVRT



Community Plant Variety Office

MARC ROULLARD



HOME PAGE

HELP
FAQ
NOTICE
CONTACT

Welcome to the CPVO e-filing system.
E-filing (electronic filing) is a service provided by the CPVO, which enables users to apply for a Community plant variety right online. For the time being this option is only available in English, but the CPVO will make this possibility also available in Dutch, German and French before the end of the year. Currently, e-filing can only be made in respect of varieties:

- *Chrysanthemum* L.
- *Lactuca sativa* L.
- *Prunus persica* (L.) Batsch.
- *Rosa* L.
- *Solanum tuberosum* L.

The e-filing services are only available for documents filed together with the application form. Any further communication with the CPVO during the application procedure must be made as specified in the applicable rules.



CREATE AN APPLICATION

This button leads to the screen where you can create a new application for Plant Variety Rights.



CREATE A DELEGATION

You may delegate to a third person the possibility to fill in an application form that you have initiated. More details explanations can be found in the Notice.



APPLICATIONS IN PREPARATION

This button leads to the list of applications currently in preparation.



DELEGATIONS LIST

This icon leads to a screen where you will see the details of all delegations that you have created.



SIGNED APPLICATIONS

This button leads to the list of applications already submitted to the Office using this e-filing website.



Front Office: overview of client side

MY APPLICATIONS UNDER PREPARATION

All
 My requests
 My delegations

All
 Agricultural species
 Vegetable species
 Fruit species
 Ornamental species

Application code :
 Designation :
 Species (latin name) :
 Breeder's reference :

Search results

Legend : AP / AP-Application form / TQ / TQ-Technical questionnaire / S/A / S/A-Sign application / F / Form under preparation / V / Valid form

APPLICATION CODE	SPECIES	APPLICATION STEPS	BREEDER'S REFERENCE	MODIFIED ON	CREATED ON	ACTION
A201000024	Rosa L.	AP TQ	ma reference	21/05/2010	21/05/2010	
A201000023	Solanum tuberosum L.	AP TQ	ma reference	21/05/2010	21/05/2010	

<< First < previous | 1 | next > Last >>

TWC 2010 – Angers – CPVO Online Applications 7

Front Office: application creation

HOME
FAQ
NOTICE
CONTACT

01 / I am

applicant
 representative

02 / Application form

APPLICATION FOR COMMUNITY PLANT VARIETY RIGHT TO THE COMMUNITY PLANT VARIETY OFFICE

03 / Form language

English

04 / Species (latin name) title

05 / Technical questionnaire

Agricultural species
 Vegetable species
 Fruit species
 Ornamental species

Search for appropriate TQ for that species
(Once search results are displayed in the table below, click on the desired TQ to confirm your choice.)

CODE	DESIGNATION
<input type="text"/>	<input type="text"/>

Please select a crop sector.

CODE	DESIGNATION
<input type="text"/>	<input type="text"/>

06 / Questionnaire language

Language of the technical questionnaire

>

TWC 2010 – Angers – CPVO Online Applications 8

Front Office: administrative form

The screenshot shows the 'APPLICATION FORM - ROSA L.' interface. At the top, there are navigation icons for 'CREATE AN APPLICATION', 'APPROVED APPLICATIONS', 'SIGNED APPLICATIONS', 'CREATE A DELEGATION', and 'DELEGATIONS'. Below these is a sidebar with 'HOME', 'FAQ', 'NOTICE', and 'CONTACT'. The main content area is titled 'APPLICATION FORM - ROSA L.' and contains a list of 13 sections, each with a right-pointing arrow and a red asterisk indicating it is mandatory. The sections are: 01 - Applicant(s) *, 02 - Procedural representation, 03 - Botanical description *, 04 - Designation *, 05 - Breeder(s) *, 06 - Details of all other applications concerning this variety made in a Member State of the EU or in a Member of the International Union for the Protection of New Varieties of Plants (UPOV), 07 - Variety *, 08 - Has the variety been sold or otherwise exploited? *, 09 - Technical examination *, 10 - Language *, 11 - Application fee *, 12 - Attached document(s), and 13 - General remark. Below the list are 'SAVE', 'VALIDATE', and 'NEXT STEP' buttons. A 'Document' field is visible with 'Parcoeur' entered and a 'Type' dropdown menu set to 'Priority'. At the bottom, there is a footer with 'TWC 2010 - Angers - CPVO Online Applications'.

Front Office: technical questionnaire

The screenshot shows the 'TECHNICAL QUESTIONNAIRE' interface. At the top, there are navigation icons for 'CREATE AN APPLICATION', 'APPROVED APPLICATIONS', 'SIGNED APPLICATIONS', 'CREATE A DELEGATION', and 'DELEGATIONS'. Below these is a sidebar with 'HOME', 'FAQ', 'NOTICE', and 'CONTACT'. The main content area is titled 'TECHNICAL QUESTIONNAIRE' and contains a list of 9 sections, each with a right-pointing arrow and a red asterisk indicating it is mandatory. The sections are: 01 - Technical questionnaire : ROSA L., 02 - Application code : A201000024, 03 - Breeder's reference : ma reference, 04 - Information on the breeding scheme and propagation of the variety *, 05 - Characteristics of the variety to be indicated *, 06 - Similar varieties and differences from these varieties, 07 - Additional information which may help to distinguish the variety *, 08 - UPOV information *, and 09 - Information on plant material to be examined *. Below the list are 'SAVE', 'VALIDATE', and 'NEXT STEP' buttons. A 'CPVO/TQ-115/3' label is visible. At the bottom, there is a footer with 'TWC 2010 - Angers - CPVO Online Applications' and the number '10'.

Front Office: miscellaneous actions

- Duplicate application: AF only
- Attach files (PDF, JPEG, PNG)
- Print application (PDF documents AF TQ)
- Delegate access
 - Define list of applications
 - Define access period
 - Delegate can modify, save/validate but not sign



Front Office: technical specs

- Framework: Zend Framework (PHP)
 - Open source, free, MVC paradigm
- Application server: Zend Server
 - Caching, monitoring, debugging
- Oracle 10i database
- Microsoft IIS6 webserver
- Helicon Isapi Rewrite extension



Back Office: overview

ID	Name	Name common	Status	Version code	Version date	Proposed date to AC	Begin of validity	End of validity	
129	Solanum tuberosum L.	Potato	Active	CHVQ/TQ-023	01/12/2008		26/02/2010	AW	
131	Lactuca sativa L.	Lettuce	Active	CHVQ/TQ-012	01/04/2009		19/05/2010	SPS	
(5) APPLICATION FOR COMMUNITY APPLICATION FOR COMMUNITY									
				APP_P039	01/01/2009		26/02/2010	34	
130	Chrysanthemum L.	Chrysanthemum	Active	CHVQ/TQ-026	13/03/2008		26/02/2010	LB	
1	Rosa L.	Rose	Active	CHVQ/TQ-011	01/04/2009		26/02/2010	TK	
130	Prunus persica (L.) Batsch.	Peach, nectarine	Active	CHVQ/TQ-053	27/03/2003		26/02/2010	SPS	
136	Pteris caudata (L.) Presl	Worm-Fern	In preparation	CHVQ/TQ-136	21/02/2007			SPS	
311	PERENNIALS (Ornamental)	PERENNIALS (Ornamental)	In preparation	CHVQ/TQ-099	15/02/2006				
310	POTPLANTS (Ornamental)	POTPLANTS (Ornamental)	In preparation	CHVQ/TQ-091	15/02/2006				
147	Psittacus sativa L.	Parrot	In preparation	CHVQ/TQ-218	01/04/2009			SPS	
170	Polygonum Donale Group, Pella, Zonal polygonum and ivy-leaf		In preparation	CHVQ/TQ-026	07/10/2009			3w	
471	Persea americana Mill.	Avocado	In preparation	CHVQ/TQ-097	11/03/2010			SPS	
189	Persea Juss.	Persea	In preparation	CHVQ/TQ-212	06/11/2003			TK	
139	Oryza sativa L.	Rice	In preparation	CHVQ/TQ-016	18/11/2004			AW	
3	Phalaris (Blade and) (Elytra) Phalaris and derivatives		In preparation	CHVQ/TQ-213	14/11/2007			LB	
240	Phaseolus coccineus L.	Runner bean	In preparation	CHVQ/TQ-309	21/03/2007			SPS	
146	Phaseolus vulgaris L.	French bean	In preparation	CHVQ/TQ-012	01/04/2009			SPS	
103	Prunus sativa L.	Pee	In preparation	CHVQ/TQ-007	11/03/2010				
404	Portulaca oleracea L.	Portulaca	In preparation	CHVQ/TQ-242	10/10/2008			3w	
142	Prunus L.	Prunus rosifolia	In preparation	CHVQ/TQ-187	13/03/2008			SPS	



TWC 2010 – Angers – CPVO Online Applications

13

Back Office: group level

ID	Name	Order display
21	Applicant(s)	03
22	Procedural representative	02
23	Botanical name	01
24	Designation	04
1	Information on the breeding scheme and propagation of the variety	04
25	Breeder(s)	05
2	Characteristics of the variety to be indicated	05
26	Details of all other applications concerning the variety made in a Member State of the EU or in a Member of the International Union for the Protection of	06
3	Similar varieties and differences from these varieties	06
4	Additional information which may help to distinguish the variety	07
27	Priority	07
5	CPVO information	08
28	Has the variety been sold or otherwise exploited?	08
6	Information on plant material to be examined	09
29	Technical examination	09
30	Language	10
31	Application fee	11
32	Attached document(s)	12
43	Electronic service	13
40	General remark	13



TWC 2010 – Angers – CPVO Online Applications

14

Back Office: question level

The screenshot shows the 'Fiche Question' window. At the top, it displays the question identifier '1 532' and its status 'General question? Yes No'. Below this, the question group is '05 Characteristics of the variety to be indicated'. The question name is 'Plants: height of foliage'. The help text states: 'The height of the foliage is the distance from the substrate surface to the highest point of the foliage.' The question type is 'Multi-Choice' with 'number of response allowed' set to 0. Below the question details is a table of responses:

Id	Label	Score	Order Display	Remark Allowed	Remark Mandatory	Status
6 169	very short	1	01	<input type="checkbox"/>	<input type="checkbox"/>	In preparation
6 170	very short to short	2	02	<input type="checkbox"/>	<input type="checkbox"/>	In preparation
6 383	short	3	03	<input type="checkbox"/>	<input type="checkbox"/>	In preparation
6 172	short to medium	4	04	<input type="checkbox"/>	<input type="checkbox"/>	In preparation
6 384	medium	5	05	<input type="checkbox"/>	<input type="checkbox"/>	In preparation
6 172	medium to tall	6	06	<input type="checkbox"/>	<input type="checkbox"/>	In preparation
6 385	tall	7	07	<input type="checkbox"/>	<input type="checkbox"/>	In preparation
6 173	tall to very tall	8	08	<input type="checkbox"/>	<input type="checkbox"/>	In preparation
6 174	very tall	9	09	<input type="checkbox"/>	<input type="checkbox"/>	In preparation

Back Office: question level > types

The screenshot shows the 'Question types' window. It displays a table of document types with columns for 'Name', 'Docman Directory', 'Docman Type', and 'Order Display'. Below the table is a dialog box for 'Docman parameters (Directory / Type) for application form/technical questionnaire confidential/no confidential':

	Confidential		No confidential	
	Directory	Type	Directory	Type
Application form	15	63	15	58
Technical questionnaire	15	63	15	58

Back Office: response level

The screenshot shows the 'Fiche Response' application window. The 'Identifiant' field contains '4 155'. The 'Question' field contains 'Breeding scheme'. The 'CPVU TP code' field is empty. The 'Name' field contains 'self-pollination'. The 'Remark' field is empty. The 'Help' field is empty. The 'Default score' field contains '0'. The 'Order display' field contains '01'. The 'Remark allowed' checkbox is checked. The 'Remark mandatory' checkbox is unchecked. The 'Table Logics' table is displayed below the form fields.

Check	Logic name	Parameters	Type
<input type="checkbox"/>	Auto complete Species		autocomplete
<input type="checkbox"/>	Control list Species		controllist
<input type="checkbox"/>	Auto complete Countries		autocomplete
<input type="checkbox"/>	Control list Countries		controllist
<input type="checkbox"/>	Auto complete Languages		autocomplete
<input type="checkbox"/>	Control list Languages		controllist
<input type="checkbox"/>	Control list Language		controlbox
<input type="checkbox"/>	Mask Phone/Fax		regularexpression
<input type="checkbox"/>	Mask Email		emailaddress
<input type="checkbox"/>	Length		length



Back Office: response level

The screenshot shows the 'Fiche Response' application window. The 'Identifiant' field contains '4 155'. The 'Question' field contains 'Breeding scheme'. The 'CPVU TP code' field is empty. The 'Name' field contains 'self-pollination'. The 'Remark' field is empty. The 'Help' field is empty. The 'Default score' field contains '0'. The 'Order display' field contains '01'. The 'Remark allowed' checkbox is checked. The 'Remark mandatory' checkbox is unchecked. The 'Table Logics' table is displayed below the form fields.

Check	Logic name	Parameters	Type
<input type="checkbox"/>	Auto complete Species		autocomplete
<input type="checkbox"/>	Control list Species		controllist
<input type="checkbox"/>	Auto complete Countries		autocomplete
<input type="checkbox"/>	Control list Countries		controllist
<input type="checkbox"/>	Auto complete Languages		autocomplete
<input type="checkbox"/>	Control list Languages		controllist
<input type="checkbox"/>	Control list Language		controlbox
<input type="checkbox"/>	Mask Phone/Fax		regularexpression
<input type="checkbox"/>	Mask Email		emailaddress
<input type="checkbox"/>	Length		length



Back Office: response level > logics

Table Logics

Logic name	Logic type	Logic parameters	Checked by default	Order Display
Auto complete Species	autocomplete	on:species	<input type="checkbox"/>	2
Control list Species	controllist	on:species	<input type="checkbox"/>	3
Auto complete Countries	autocomplete	on:countries	<input type="checkbox"/>	4
Control list Countries	controllist	on:countries	<input type="checkbox"/>	5
Auto complete Languages	autocomplete	on:languages	<input type="checkbox"/>	6
Control list Languages	controllist	on:languages	<input type="checkbox"/>	7
Combo list Language	combobox	on:languages	<input type="checkbox"/>	9
Mask Phone/Pass	regularexpression	regexp:/"(0-9 1-9 0 1)*"/	<input type="checkbox"/>	10
Mask Email	emailaddress		<input type="checkbox"/>	11
Length	length		<input type="checkbox"/>	12
Number	number		<input type="checkbox"/>	13
Date	date		<input type="checkbox"/>	14
Client Code	identcode		<input type="checkbox"/>	15
Text - number of line	area	rows=4	<input type="checkbox"/>	16
Optional	optional		<input type="checkbox"/>	17
Disabled	disabled		<input type="checkbox"/>	18
Width column	widthcolumn		<input type="checkbox"/>	19
Upload filter	uploadfilter		<input type="checkbox"/>	

Back Office: handling messages

Table FICHE Message

Search key: Identifiant 1270

Cont: Type Question

Type: Flowing stem: lateral branching (above foliage)

Lang: 10.%, 5210, 1 813, 620, 1 701, 1 330, 1 764, 1 770, 5 154, 1 774, 5 675, 4 073, 4 052

Display: FR - French

- DE - German
- ES - Spanish
- CS - Czech
- DA - Danish
- EL - Greek
- ET - Estonian
- FI - Finnish
- HU - Hungarian
- IT - Italian
- LT - Lithuanian
- LV - Latvian
- MT - Maltese
- NL - Dutch
- PL - Polish
- PT - Portuguese
- SK - Slovak
- SL - Slovenian
- SV - Swedish
- RO - Romanian
- BG - Bulgarian

Back Office: general questions and versioning

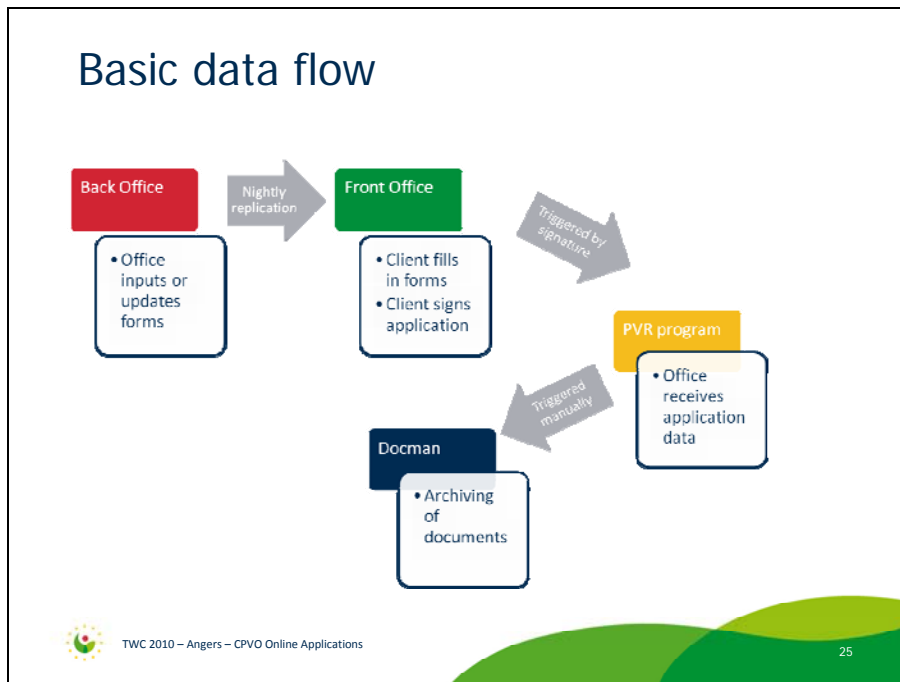
- General questions: shared between forms. Less maintenance but heavier developments.
- Versioning
 - at forms level
 - at question level



Back Office (updating forms): specs

- Windows client developed w/ PCSoft Windev (speed and rich interface)
- Oracle 10i database
 - Use of constraints, triggers, jobs and replication
- Front office used for preview and production of blank PDFs





- ### Key points
- For the Office:
 - Less typing, staff focus on control
 - Automatic controls on forms: less needs to go back to applicants
 - Faster: no more scanning stage
 - Integrated in PVR Back Office and Docman (Electronic Document Management System)
 - In the future:
 - More automatic controls on forms (cross-questions)
 - Developments to meet breeders' wishes after 1st experience
 - Extension of the system to other species
 - Possibly e-signature
- TWC 2010 – Angers – CPVO Online Applications 26

Key points

- For the clients:
 - Re-use previous applications (faster)
 - Apply 24/24*7/7, no more postal delays
 - Online help
- In the future:
 - Possible fees reduction?
 - Re-use of applications in several EU countries (share with National Offices) and possibly UPOV? [not cost neutral]
 - Possible e-signature for all documents?



Thank you for your attention.

[End of Annex IV and of document]