

Meeting on Electronic Applications

EAM/2/3

**Second meeting
Geneva, October 24, 2023**

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UPOV PRISMA

Document prepared by the Office of the Union

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EXECUTIVE SUMMARY

1. The purpose of this document is to report on the following developments and plans concerning UPOV PRISMA:

- (a) developments concerning UPOV PRISMA since the EAM/1 meeting;
- (b) plans for improving CPVO TQ synchronization and the user-friendliness of UPOV PRISMA will be made at the EAM/2 meeting;
- (c) plans for Version 2.10 and Version 3.0, as set out in paragraphs 26 to 32 of this document; and
- (d) possible future developments of UPOV PRISMA, as set out in paragraphs 34 to 36 of this document.

2. The structure of this document is as follows:

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USE OF UPOV PRISMA (AS OF SEPTEMBER 30, 2023)

3. Information on the use of UPOV PRISMA is provided below:

Number of submissions via UPOV PRISMA

	2017	2018	2019	2020	2021	2022	2023
January	1	-	7	18	107	232	206
February	-	3	9	5	107	95	107
March	2	3	6	21	67	121	54
April	-	3	22	11	105	96	102
May	1	1	33	11	65	67	123
June	-	7	10	18	819	78	59
July	-	7	3	9	58	83	58
August	-	1	7	11	379	435	442
September	3	8	16	29	154	91	105
October	1	19	29	16	68	53	
November	3	16	26	41	407	353	
December	3	9	51	32	174	204	
Total	14	77	219	222	2,509	1,907	(1,256)

Number of submissions by participating Authority in UPOV PRISMA

Authority		Number of submissions in UPOV PRISMA in:						Total number of submissions in UPOV PRISMA (as of end 2022)
		2017	2018	2019	2020	2021	2022	
African Intellectual Property Organization (OAPI)	OA			3	1		2	6
Argentina*	AR							0
Australia	AU	2	10	17	36	27	15	107
Bolivia (Plurinational State of)*	BO			2				2
Canada	CA		6	27	17	24	46	120
Chile	CL	3		3	1	9	3	19
China	CN							0
Colombia	CO			4	2	4	1	11
Costa Rica	CR			4	1	2		7
Dominican Republic	DO			2	2	4	3	11
Ecuador	EC				2	4	1	7
European Union	QZ		8	38	13	123	89	271
France	FR			20	-	4	3	27
Georgia	GE			2	1	3	1	7
Kenya	KE		13	6	14	14	26	73
Morocco	MA					7	4	11
Mexico	MX		7	7	13	13	25	65
The Kingdom of the Netherlands	NL	1	8	12	6	1	2	30
New Zealand	NZ	5	3	8	5	18	7	46
Norway	NO	1		5	7	6	6	25
Paraguay*	PY							0
Peru	PE				2	3	1	6
Republic of Moldova	MD			2				2
Republic of Korea	KR			1	1			2
Saint Vincent and the Grenadines	VC							0
Serbia	RS			2	1	3		6
South Africa	ZA		2	3	2	12	17	36
Sweden	SE			1				1
Switzerland	CH	2	3	4	16	13	9	47
Trinidad and Tobago	TT							0
Tunisia	TN		2	4		1		7
Türkiye	TR		6	23	54	65	63	211
United Kingdom	GB		3	18	22	2,138	1,557	3,738
United States of America	US		6	1	3	5	26	41

Authority		Number of submissions in UPOV PRISMA in:						Total number of submissions in UPOV PRISMA (as of end 2022)	
		2017	2018	2019	2020	2021	2022		
Uruguay	UY					6		6	
Viet Nam	VN							0	
Total:		36	14	77	219	222	2,509	1,907	4,948

* Until required information is provided, applicants will not be able to submit application data

LAUNCH OF VERSION 2.9 (SEPTEMBER 2022)

4. UPOV PRISMA Version 2.9, incorporating the following developments, was deployed on September 25, 2023.

Application forms/TQs

5. The application form and technical questionnaire for Lettuce were updated for China.
6. South Africa uses the United Kingdom TQ for Sugar Beet.

Crops/species

7. In Version 2.9, it is possible to apply for all genera and species in Viet Nam.

New functionalities

8. The following functionalities were introduced in Version 2.9:
 - Reference to the authority concerned was added in the confirmation email to applicants (submitted and received);
 - For all questions “this question could be confidential”, changed the current default from ‘No’ to ‘Yes’;
 - View applications waiting for agent’s acceptance;
 - Set up notifications preferences;
 - Allow users to specify the crop group;
 - Application Overview;
 - drop down to select the parent made searchable;
 - display the list of agents in alphabetic order;
 - Same breeder’s reference/submitter’s own reference can be used for the same crop/authority/application type. The original application will not be withdrawn; and
 - Detect the language used in Free text field and warn the user if it is not the expected output form language (for Chinese application data in Version 2.9).

OTHER DEVELOPMENTS

IT Quality Software Audit

9. To improve the quality of the UPOV PRISMA software, it was decided to organize a code audit, which produced the following recommendations:

- (1) Implement best practices in terms of coding in order to avoid concurrency and performance issues;
- (2) Move to the cloud for a better resource management at infrastructure level and keep following the highest security standards;
- (3) Develop a dedicated configuration interface for a controlled management of the forms.

10. Recommendation 1 (best practices in terms of coding) was implemented in Version 2.8. A new tool to assess security at code level has been used since Version 2.9.

11. Recommendation 2 (Migration to the cloud) and Recommendation 3 (Development of a dedicated configuration interface) will be implemented in Version 2.10, subject to available resources.

12. After deployment of Version 2.8, certain issues were reported by the users. Those issues were not identified at the time of regression testing, mainly because the tests were done on TEST data and not real data. In version 2.9, the automatic regression tests were performed on a copy of production data as agreed in EAM/1.

13. Following the implementation of automated regression testing for form generation, it is planned to implement automated tests for all functionalities by the end of 2024 to expand the test coverage.

Improvement of user-friendliness of UPOV PRISMA

14. In order to improve the user-friendliness of UPOV PRISMA, consultations were organized with users to review certain current existing functionalities (copy functionality, assignment of roles) (see documents UPOV/EAF/17/3 "Report", paragraph 22, and UPOV/EAF/18/3 "Report", paragraphs 15 and 16).

15. Participants in the UPOV PRISMA Task Force Group were consulted on the proposals made to improve the interface and the navigation through the system.

16. A second draft of the screens (Start New Application, Copy Application) were circulated to the Task Force Group on June 21, 2022, for feedback. A new proposal was presented during the Task Force Meeting held on June 22, 2022.

17. During the Task Force meeting held on December 11, 2022, the consolidated feedback received from ISF and CIOPORA was presented and considered.

18. At the Task Force meeting held on May 10, 2023, the following was agreed:

- The Office of the Union to report on the technical issues received through UPOV PRISMA mailbox at the TF meetings, in conjunction with an analysis and planned remedial action, if appropriate;
- For matters after the application data has been submitted via UPOV PRISMA (e.g. PVP office administrative procedures), users should report these to the PVP offices concerned; and
- The Office of the Union will present an overview of the following at future Task Force meetings, by authority:
 - Number of applications and proportion made via UPOV PRISMA,
 - Need for original documents,
 - Completeness of PVP office procedure information in UPOV PRISMA.

CPVO Synchronization

19. A meeting of the UPOV PRISMA Task Force Group was organized on May 10, 2023 to report on CPVO participation in UPOV PRISMA.

20. In order to achieve and maintain synchronization of TQs between UPOV PRISMA and CPVO, the following projects have been agreed with CPVO:

- Project 1: "Audit" (current issues/ states of affairs) for exchange of data between UPOV PRISMA and CPVO in both directions (Status: completed);
- Project 2: Part A: Resolving current issues; Part B : Synchronizing changes by UPOV/CPVO (Status: ongoing on the basis of information provided in Project 1);
- Project 3: Implementation of Project 2 outcome: Bi-directional exchange of application data (lettuce, tomato, rose) (Status: ongoing on the basis of information provided in Project 1);
- Project 4: Bulk upload of Maize applications from UPOV to CPVO (Status: ongoing on the basis of information provided in Project 1); and
- Project 5: "Transitional arrangements", to communicate to applicants about the situations in which they can use UPOV PRISMA for applications at the CPVO and the measures that need to be taken until all issues have been resolved (Status: ongoing).

21. CPVO and UPOV agreed to follow three phases for Project 3:

- Phase 1: Lettuce and Rose (in 2024);
- Phase 2: Rollout the approach to other pilot crops where their UPOV TG are under revision (in 2024); and
- Phase 3: Fully automated synchronization for TQ5 (after 2024).

22. A workshop was organized on June 11, 2023 to discuss future improvements related to the bulk upload functionality (Project 4). The outcome of the workshop was presented to CPVO on the same day. It was agreed to:

- Fix pending issues: Stage, language, dropdown validation;
- Simplify the template: Reuse of Applicant/Breeder/Representative/Correspondence Address;
- Add the possibility to use of Purdy's notation for hybrids;
- Implement validation after upload to minimize errors;
- Continue working on synchronization between UPOV PRISMA and CPVO online system; and
- introduce additional integration tests for migration of data to CPVO.

23. To overcome technological limitations arising from the transition to the cloud, a decision was made to utilize the newly developed REST APO for exporting application data from UPOV PRISMA to CPVO online system. As a result, it was needed to revise the planning and give higher priority to migrating to the new API before proceeding with Project 3.

PLANS FOR VERSION 2.10

Release of Version 2.10

24. It is planned to release Version 2.10 of UPOV PRISMA in December 2023.

Crop coverage

25. In Version 2.10, the following new UPOV Technical Questionnaires will be added in UPOV PRISMA and applied to those UPOV members using UPOV TQ¹ or UPOV TG characteristics².

Common Name	UPOV TG
Hardy Geranium, Crane's Bill	TG/330/1
Calendula	TG/331/1
Black Walnut	TG/332/1 Corr.
Gazania	TG/333/1
Ranunculus	TG/334/1
Brown Mustard	TG/335/1
Coreopsis	TG/336/1
Pistachio	TG/337/1
Physic Nut	TG/338/1
Zinnia	TG/339/1

26. In Version 2.10, the following UPOV Technical Questionnaires will be revised in UPOV PRISMA and applied to those UPOV members using UPOV TQ¹ or UPOV TG characteristics².

Common Name	UPOV TG
Wheat	TG/3/12
Field Bean	TG/8/7
Lettuce	TG/13/11 Rev.
Barley	TG/19/11
Oats	TG/20/11
Freesia	TG/27/7
Alstroemeria	TG/29/8

¹ African Intellectual Property Organization, Argentina (Wheat, Barely, Black Radish, Pepper, Cotton, Witloof Chicory, Papaya), Chile, China (Lettuce), Colombia, Costa Rica, Dominican Republic, Ecuador, France, Georgia (Wheat, Field Bean, Barley, Oats, Blueberry), Kenya, Morocco (Blueberry), The Kingdom of the Netherlands, New Zealand, Republic of Korea (Lettuce), Republic of Moldova (Wheat, Lettuce, Oats, Pepper), Saint Vincent and the Grenadines, Serbia (Blueberry), South Africa, Sweden, Switzerland, Tunisia, Türkiye, United Kingdom, Viet Nam.

² Australia, European Union, Mexico, Norway, Peru, United States of America (excluding Zinnia, Field Bean, Barley, Cotton, Triticale), Uruguay.

Common Name	UPOV TG
Radish; Black Radish	TG/63/7-TG/64 /7 TG/63/7-TG/64/7 Rev. Corr.
Pepper	TG/76/8 Rev. 2
Japanese plum	TG/84/4 Corr. 2 Rev. 2
Cotton	TG/88/7
Macadamia	TG/111/4
Mango	TG/112/4 TG/112/4 Corr.
Chestnut	TG/124/4
Broccoli, Calabrese, Sprouting Broccoli, Winter broccoli	TG/151/5
Leaf Chicory	TG/154/4
Witloof, Chicory	TG/173/4
Guzmania	TG/182/4
Fennel	TG/183/4
Artichoke, Cardoon	TG/184/4 Rev.
Lavendula, Lavendar	TG/194/1 Rev.
Petunia	TG/212/2
Agaricus	TG/259/2
Papaya, Pawpaw	TG/264/2
Urochloa	TG/322/1 Corr.
Blueberry	TG/137/5
Portulaca	TG/242/2
Triticale	TG/121/4
Red Clover	TG/5/8
Thimoty	TG/34/7
Lagerstroemia	TG/95/4
Hydrangea	TG/133/5
Chickpea	TG/143/5
Tea	TG/238/2
Turnip	TG/37/11
Berberis	TG/68/4
Apricot	TG/70/5
Eustoma	TG/197/2
Echinacea	TG/281/2
Banana	TG/123/4

27. The coverage for China will be increased as follows:

Common Name	Botanical Name	UPOV TG
Soya bean	Glycine max (L.) Merrill	TG/80/6
Kiwifruit	Actinidia Lindl.	TG/98/7
Sunflower	Helianthus annuus L.	TG/81/6
Tomato	Solanum lycopersicum L.	TG/44/11
Hot pepper	Capsicum annum L	TG/76/8
Anthurium	Anthurium Schott	TG/86/5
Guzmania	Guzmania Ruiz et Pav.	TG/182/4
Cucumber	Cucumis sativus L.	TG/61/7
Melon	Cucumis melo L.	TG/104/5
Morchella	Morchella Dill. ex Pers.	National TG

28. The coverage for Morocco will be increased as follows:

Common Name	Botanical Name	UPOV TG
French Bean	Phaseolus vulgaris L.	TG/12/9 Rev.2
Hot pepper	Capsicum annuum L.	TG/76/8
Lettuce	Lactuca sativa L.	TG/13/x
Squash	Cucurbita pepo L.	TG/119/4 Corr.2
Tomato	Solanum lycopersicum L.	TG/44/11
Tomato Rootstocks	Solanum habrochaites S. Knapp & D.M. Spooner; Solanum lycopersicum L. x Solanum habrochaites S. Knapp & D.M. Spooner; Solanum lycopersicum L. x Solanum peruvianum (L.) Mill.; Solanum lycopersicum L. x Solanum cheesmaniae (L. Ridley) Fosberg; Solanum pimpinellifolium L. x Solanum habrochaites S. Knapp & D.M. Spooner	TG/294/1 Rev.3

29. The coverage for Serbia will be increased to include lettuce (*Lactuca sativa* L.) and potato (*Solanum tuberosum* L.).

Functionalities

30. The following functionalities are planned to be introduced in Version 2.10:

- Restriction on the selection of crops for National listing according to the list provided by the authority: (United Kingdom; and the Kingdom of the Netherlands);
- Bulk invoice upon request;
- Receive notification / alert when a change is made to the application form and the technical questionnaire for the United Kingdom; and
- PDF accessibility:
 - a. Add document's title and language as properties
 - i. Title : Application data for "crop common name" in "authority name"
 - ii. Language
 - b. All elements should be tagged and with a proper reading order.

PLANS FOR VERSION 3.0

Release of Version 3.0

31. It is planned to release Version 3.0 of UPOV PRISMA in September 2024.

Functionalities

32. The following functionalities are planned to be introduced in Version 3.0:

- Migrate UPOV PRISMA to the cloud;
- Implement the new screen design for Start New Application and Copy Application;
- Improve user management functionality;
- Add a "floating" menu for chapters in the generated form page; and
- Bulk Upload improvements:
 - a. Fix pending issues: Stage, language, dropdown validation
 - b. Simplify the template: Reuse of Applicant/Breeder/Representative/Correspondence Address
 - c. Add the possibility to use of Purdy's notation for hybrids
 - d. Implement validation after upload to minimize errors

POSSIBLE FUTURE DEVELOPMENTS

User-friendliness of the tool

33. It was agreed at the EAF/19 meeting that the following elements would be considered to increase the user-friendliness of UPOV PRISMA:

- Addition of non-UPOV TQ characteristics in TQ Section 7 instead of TQ Section 5 (see document EAF/17/3 “Report” paragraph 19); and
- Crop-specific TQs beyond Test Guidelines (see document EAF/16/3 “Report” paragraph 18).

New functionalities

34. The following new functionalities will be considered for possible development:

- Bulk Upload (for maize, United Kingdom); and
- Machine translation (see document EAF/16/3 “Report” paragraph 18).

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