

Meeting on Electronic Applications

EAM/3/3

**Third meeting
Geneva, March 18, 2024**

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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. In 2023, the volume of application data transferred via UPOV PRISMA amounted to 1,873, marking a 1.78% decrease compared to 2022. Notably, the United Kingdom received the highest number of applications, with 1,562 applications received in 2023 and 1,557 in 2022.
2. Scheduled for April 2024, Version 2.10 is set for release, featuring the addition of two new authorities: Ghana and the Republic of Tanzania, and the extension of crop coverage for four authorities: China, Morocco, Serbia and United States of America. Responding to user feedback from the UPOV PRISMA Task Force, development is underway for Version 3.0, slated for release in 2025.
3. The structure of this document is as follows:

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USE OF UPOV PRISMA (AS OF FEBRUARY 29, 2024)

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

Number of submissions via UPOV PRISMA

	2017	2018	2019	2020	2021	2022	2023	2024
January	1	-	7	18	107	232	206	235
February	-	3	9	5	107	95	107	122
March	2	3	6	21	67	121	54	

	2017	2018	2019	2020	2021	2022	2023	2024
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	57	
August	-	1	7	11	379	435	442	
September	3	8	16	29	154	91	104	
October	1	19	29	16	68	53	58	
November	3	16	26	41	407	353	341	
December	3	9	51	32	174	204	220	
Total	14	77	219	222	2,509	1,907	1,873	(357)

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 2023)
		2017	2018	2019	2020	2021	2022	2023	
African Intellectual Property Organization (OAPI)	OA			3	1		2		6
Argentina*	AR								0
Australia	AU	2	10	17	36	27	15	17	124
Bolivia (Plurinational State of)*	BO			2					2
Canada	CA		6	27	17	24	46	56	176
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	1	8
European Union	QZ		8	38	13	123	89	78	349
France	FR			20	-	4	3	2	29
Georgia	GE			2	1	3	1	3	10
Kenya	KE		13	6	14	14	26	23	96
Morocco	MA					7	4		11
Mexico	MX		7	7	13	13	25	17	82
Netherlands (Kingdom of the)	NL	1	8	12	6	1	2		30
New Zealand	NZ	5	3	8	5	18	7	7	53
Norway	NO	1		5	7	6	6	1	26
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	24	60
Sweden	SE			1					1
Switzerland	CH	2	3	4	16	13	9	6	53
Trinidad and Tobago	TT								0
Tunisia	TN		2	4		1			7
Türkiye	TR		6	23	54	65	63	57	268
United Kingdom	GB		3	18	22	2,138	1,557	1,562	5,300
United States of America	US		6	1	3	5	26	18	59
Uruguay	UY					6			6
Viet Nam	VN							1	1
Total:	36	14	77	219	222	2,509	1,907	1,873	6,821

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

LAUNCH OF VERSION 2.10 (APRIL 2024)

5. UPOV PRISMA Version 2.10, incorporating the following developments, will be deployed in April 2024.

Crop coverage

6. In Version 2.10, the following new UPOV Technical Questionnaires have been 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

7. In Version 2.10, the following UPOV Technical Questionnaires have been 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
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 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.

¹ African Intellectual Property Organization (OAPI), 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), Netherlands (Kingdom of the), 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, Uruguay.

Common Name	UPOV TG
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

8. In Version 2.10, the coverage for China has been 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 annuum 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

9. In Version 2.10, 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

10. In Version 2.10, the coverage for Serbia has been increased to include lettuce (*Lactuca sativa* L.) and potato (*Solanum tuberosum* L.).

11. In Version 2.10, the coverage for United States of America has been increased to cover all crops and species.

Functionalities

12. The following functionality has been 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 Netherlands (Kingdom of the)).

OTHER DEVELOPMENTS

IT Quality Software Audit

13. A code audit was organized to improve the quality of the UPOV PRISMA software, resulting in the following recommendations:

- (a) to implement best practices in terms of coding to avoid concurrency and performance issues;
- (b) to move to the cloud for a better resource management at infrastructure level and keep following the highest security standards;
- (c) to develop a dedicated configuration interface for a controlled management of the forms.

14. Recommendation (a) (best practices in terms of coding) was implemented in Version 2.8. A new tool to assess security at code level is used since Version 2.9.

15. Recommendations (b) (migration to the cloud) and (c) (development of a dedicated configuration interface) will be implemented in Version 3.0, subject to available resources.

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

17. 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

18. 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).

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

20. In the UPOV PRISMA Task Force meeting of November 14, 2023, the Office of the Union presented an overview of the following:

- Number of applications, and proportion of applications filed via UPOV PRISMA against those not filed via UPOV PRISMA in each participating authority;
- Need for original documents: it is planned to revise the PVP office procedure with participating authorities to:
 - clarify participating authorities' requirements in terms of non-digital documents (original documents, paper submissions) and ink signatures, and
 - clarify any impact on the filing date if such requirements are not met when filing via UPOV PRISMA;
- The PVP office procedure information in UPOV PRISMA will be updated along with the revision referred to above.

21. Two design thinking workshops on User management were organized on December 4 and 7, 2023. After an online consultation, a final version was presented on January 30, 2024.

22. It was agreed to split the user hierarchy into two dimensions:

- User types: applicant and agent
- User roles: the different actions that a user type is entitled to carry out.

CPVO Synchronization

23. A meeting of the UPOV PRISMA Task Force Group was organized on November 14, 2023 to report on CPVO participation in UPOV PRISMA.

24. 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).

25. CPVO and UPOV are discussing the timelines in relation to the above projects taking into account the available resources. The agreed timelines will be presented at the EAM/3 Meeting.

26. To overcome technological limitations arising from the transition to the cloud, a decision was made to utilize the newly developed REST API for exporting application data from UPOV PRISMA to the CPVO online system. Testing of retrieving application data from UPOV PRISMA by the CPVO online system has been completed. The new communication was deployed on February 20, 2024.

PLANS FOR VERSION 3.0

Release of Version 3.0

27. It is planned to release Version 3.0 of UPOV PRISMA in March 2025.

Crop Coverage

China:

Morchella	Morchella Dill. ex Pers.	National TG
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Functionalities

28. The following functionalities are planned to being introduced in Version 3.0:

- (a) Migration of UPOV PRISMA to the cloud;
- (b) Bulk invoice upon request;
- (c) Notification/alert when a change is made to the application form or the technical questionnaire of the United Kingdom;
- (d) PDF accessibility:
 - (i) add document's title and language in the properties
 - title: application data for "crop common name" in "authority name"
 - language,
 - (ii) all elements should be tagged and follow a proper reading order;
- (e) Implement the new screen design for Start New Application and Copy Application;
- (f) Improve user management functionality;
- (g) Add a "floating" menu for chapters in the generated form page; and

- (h) Bulk upload improvements:
- (i) fix pending issues: stage, language, dropdown validation,
 - (ii) simplify the template: reuse of applicant/breeder/agent correspondence address,
 - (iii) add the possibility to use Purdy's notation for hybrids,
 - (iv) implement validation after upload to minimize errors.

POSSIBLE FUTURE DEVELOPMENTS

User-friendliness of the tool

29. 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

30. 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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