Original: English

Appendix 3

ICCAT IOMS STATUS UPDATE AND PLANNED WORK TOWARDS FINAL DEPLOYMENT (SHORT SUMMARY)

1. IOMS current development status

The ICCAT IOMS phase 1 development was planned for 12 months and started in June 2019. After 5 months of work (as of 23 October 2019), a great portion of the implementation has been already made. The IOMS database, the IOMS core web application (module 1, with the corresponding backend and frontend code components), the IOMS annual report Part II/Section 3 (module 2, with the respective backend and frontend code) achieved the appropriate functionality and level of integration that allowed the IOMS system to be deployed in the ICCAT cloud infrastructure (https://ioms.iccat.int) as a "working prototype" (see details in section 2).

The IOMS core web application module 1 has already working its dashboard, requiring now the adaptation of the various graphical informative features to "real data". Other module 1 components such as, the Security manager (authentication, authorisations, user profiles/roles), the Requirements manager, the Message handler, the Notification manager, the Auditing tool, the master database tables administration, and others, all have already the adequate functionality to work together. The IOMS Annual report module 2, has already implemented its key components namely, the data storage model (for now inside the IOMS core database, but planned to have an independent database), the version control manager, and the import/export tools to handle standard Part II/Section 3 templates completed offline. Overall, the IOMS system is currently under heavy development, integration, optimization, and testing workloads.

The Secretariat aims to use the 2019 Annual Report Part II/Section 3 submissions as "real data", for extensively test the IOMS system. This task (about 1 month) will require a complex and time-consuming work on data transformation, collation, and finally, IOMS integration. However, this is considered a crucial intermediate step to further improve and optimize the IOMS system. This effort will also contribute to the ICCAT CPCs learning phase, by using their own 2019 data to interact with the IOMS on actions like editing, updating, filtering, download/upload Annual Report templates changed off-line.

2. Working environment and versioning

Two working environments have been prepared for the IOMS implementation. The first one (development environment) has a local server in the ICCAT intranet and is mainly used for development (new features, bug corrections, improvements, profiling, etc.). The second one (production environment) has two servers in the ICCAT cloud infrastructure (@rackspace data centre) and is mainly used for deploying "production ready" IOMS versions.

All the IOMS source code is managed with GitLab (https://gitlab.com) using a rolling release development model (CI/CD: continuous integration/continuous deployment) with a unique "master branch" source code. All the IOMS development branches derive from the master branch. A finalised development branch is then merged into the master branch, being the resulting merged code (rolling process) the new master branch. Periodically, after achieving a reasonable level of improved functionality, the master branch will be released in the production environment.

Only the IOMS versions released for production will be tagged with a sequential version number. The versioning nomenclature adopted has three hierarchical levels (format "9.9.9") sequentially numbered (0.1.0, …, 0.6.0, 0.7.0, 0.8.0, …, 1.0.0, 1.0.1, …, 1.1.0, …). The first hierarchy is reserved for major versions. The second hierarchy will contain new functionality. The third hierarchy (omitted when "0") is reserved for bug corrections only. The adopted versioning system aims to capture the progressive evolution of IOMS in time, and at the same time to be used as a reference for any user feedback (questions, advice, suggestions, errors, etc.). The first IOMS version released in the production environment was "IOMS 0.6". Previous versions were only used by the Secretariat. The "production ready" stable IOMS version will be "IOMS 1.0".

3. Release schedule (IOMS phase 1)

The remainder 6 months of work on IOMS development will pass through several development stages. The Secretariat has started the IOMS release with "IOMS 0.6" and plans to deploy the following versions: pre-alfa, alfa, beta, and a release-candidate. The IOMS phase 1 release cycle ends with the stable version "IOMS 1.0" ready by the end of May 2020. **Table 1** presents the preliminary IOMS deployment roadmap, subject to a final decision of the Technical Working Group on Online Reporting: WG-TOR.

Table 1. Preliminary release schedule of IOMS phase 1 (3rd hierarchy omitted)

IOMS version	Date	Meeting ref.	Remarks
0.7 (pre-alfa)	2019-11-13	Commission 2019 annual meeting	Informal demonstration of current functionality using 2019 "real data" working examples (CPCs 2019 Part II/Section 3 annexes).
0.8 (alfa)	Feb/2020 (*)	WG-TOR 2020 intersessional meeting	Preliminary working version aimed to be tested & improved by WG-TOR participants (expected to have all the CPCs 2019 Part II/Section 3 annexes included).
0.9 (beta)	2020-04-15	(intersessional work)	Working version having all the improvements decided by the WG-TOR meeting (IOMS 0.8 (alfa)).
1.0rc (release-candidate)	2020-05-15	(intersessional work)	Release candidate version with the functionality of the stable version (IOMS 1.0). All the complementary information (user profiles, 2020 active requirements, etc.) must be finalised.
1.0 (stable)	2020-05-31	(intersessional tests)	Stable version ("production ready" version to work with 2020 submissions of Part II/Section 3 data). The IOMS system will start with a "cleaned" database, but preloaded with initial data on at least, the authorised CPC users, and the 2019 Part II/Section 3 last submission.

* Pending a final decision of the Technical Working Group on Online Reporting (WG-TOR)