

ST.26 Software Development Project

CWS/5

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Project Objectives

- Develop a new common software tool to enable applicants to prepare sequence listings and verify that such sequence listings are in compliance with WIPO Standard ST.26, for Offices to facilitate processing of the application containing these sequence listings
- Support smooth transition from ST.25 to ST.26 for national and international patent applications
- Put the new common software tool in production by the end of 2018

Project Scope

- Development of ST.26 software, including
 - business analysis
 - architecture
 - proof of concept
 - coding software application
 - acceptance test
- This project excludes:
 - training applicants and IPOs' staff
 - integration of the software into IPOs' IT system



Expected Benefits

- Enable applicants to prepare sequence listings and verify that such sequence listings are in compliance with the new Standard ST.26
- Facilitate processing of the application containing sequence listings by IPOs
- Increase quality at source by using a common software tool by applicants and IPOs
- Raise cost efficiency in the whole data flow of sequence listings, which benefits all IP and biotech communities

Project Plan

- The project will be conducted with four phases:

2017

- Phase 1: Business analysis

- Phase 2: Architecture and Proof of concept

2018








- Phase 3: Development of application

- Phase 4: Delivery of acceptance and production environments









Functional Requirements

- Editing or importing sequences in ST.26 format
- Validation of sequences
- Transformation of ST.25 sequences to ST.26
- Displaying sequences in xml for human viewing
- Importing sequence data in industry format, e.g. EMBL and FASTA
- Multi language support

Architecture Options

Requirement	Online	Offline	
Deployment, updates and compatibility			Some kind simpler in the online solution but feasible for the offline option
Unpublished Data Security			Though security can be achieved for the online solution, perception for the user and the assumed risk for WIPO is higher
Large data files transfer			The solution on the offline option is simpler to implement
Performance			Performance for a desktop application tend to be easier to acquire
User experience			Both options can deliver a similar user experience
Availability			For the offline solution no HA architecture is required
Multisite deployment			No special requirements for the offline option

Transition Roadmap (draft)

	2017	2018	2019	2020	2021	2022
ST.26 Software Development						
Revision of PCT Admin. Instructions						
Modification of national regulations						
Upgrade of IPOs' IT systems						
Training of applicants and IPOs' staff						
Maintenance of the ST.26 software						
Users support						
Transition from ST.25 to ST.26						

Challenges

- Collaboration with IPOs (regulations, training, IT systems integration, etc)
- Communication with applicants and other stakeholders
- Continuous maintenance to be aligned with industry standard (INSDC updates twice per year) and new technologies
- Users support

Key for success

- Working as ONE



Questions and Discussions

■ Thank you for your attention!