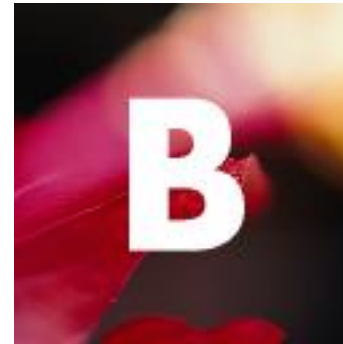# Biological Sequence Submission Application for Patents

Introducing BiSSAP

We are presenting a tool to be used by applicants in the future to prepare sequence listings.
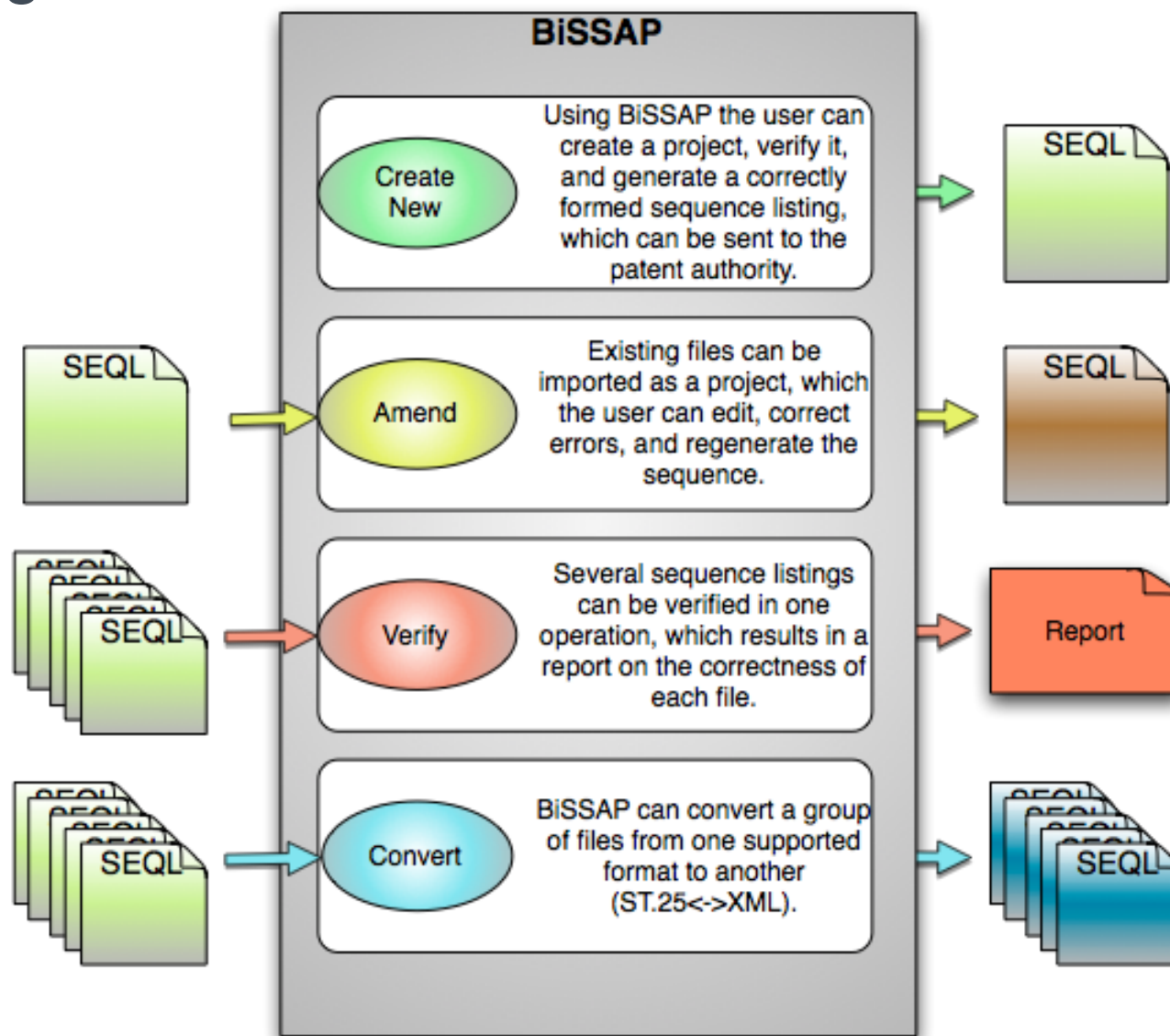
The name of the tool is Biological Sequence Submission Application fo Patents, in short: BiSSAP.

- *Multiplatform*
- *Modular*
- *Multiformat*
- *Built-in verification*
- *Graphical User Interface*
- *Unified for applicants and offices*
- *Built and maintained by the EPO*

Functions

BiSSAP in use

BiSSAP strengths

Abstract data

BiSSAP hides away the details of the actual computer files, letting users to thing not in terms of tags, but data elements, like applicant, priority claim, sequence, etc. The information is entered by filling various forms. The actual files are generated later by the program.

The users of BiSSAP have to think only about the correctness and completeness of the information.

Constant validation

During edition of the data elements, BiSSAP tries to prevent entering wrong values.

Controlled vocabularies

Many elements have controlled vocabularies, meaning the only possible value come from a restricted set.

Extensive set of rules

The BiSSAP has a large set of rules, based on experiences of the EPO Sequence Listing team about common mistakes found in the sequence listings submitted by the applicants.

Feature data

Feature key	modified_base
Feature location	3
Qualifier name	
	mod_base
	allele
Qualifier value	citation
	db_xref
	experiment
	frequency

Sequences Browser

Project name: Grain Project

- 1-Seq_1
- 2-Seq_2 (generated protein)
  - Features (7)
    - [misc_feature]:1..405
    - [DOMAIN]:34..55
    - [DOMAIN]:66..80
    - [DOMAIN]:86..124
    - [DOMAIN]:139..166
    - [DOMAIN]:193..205
    - [SOURCE]:1..405
- 3-Seq_3
- 4-Seq_4 (generated protein)
- 5-Seq_5
- 6-Seq_6 (generated protein)
- 7-Seq_7
- 8-Seq_8 (generated protein)
- 9-Seq_9

Feature data

Feature key	
	HELIX
	INIT_MET
Feature location	LIPID
	MOD_RES
	MUTAGEN
Qualifier name	
Qualifier value	

Expected Effects of using BiSSAP by applicants

– Fewer errors in the submitted sequence listings.

– The time and resources savings for the applicants

– Time and resources savings for the office

General description and requirements

Supported platforms

- Windows XP/Vista/7
- Mac Os X (10.5.5 or newer, 10.6.1 or newer)
- Linux (with GTK libraries)

Requirements

- 1 GB RAM (2GB recommended)
- 100 MB disk space for installation, with additional disk space for data
- Screen resolution 1280x900 (recommended 1680x1200 or higher)
- Java 5 JRE installed

- BiSSAP is a typical desktop application, which does not require internet connection (although help system contains the links to web resources, which work, if the system does have such connection).

BiSSAP Summary

1. BiSSAP was built by the EPO in the EU funded FELICS project
2. EPO maintains the application. It is going to be free for applicants to use.
3. The data handled by BiSSAP is significant for the biological patents.
4. The EPO uses BiSSAP in-house for file verification, but plans are to use only the verification module from BiSSAP as part of another application.
5. BiSSAP does not automatically convert, capture nor feed the data into any application.

Q & A

Thank You