



The International Treaty

ON PLANT GENETIC RESOURCES FOR FOOD AND AGRICULTURE



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IT modules on SMTA operations

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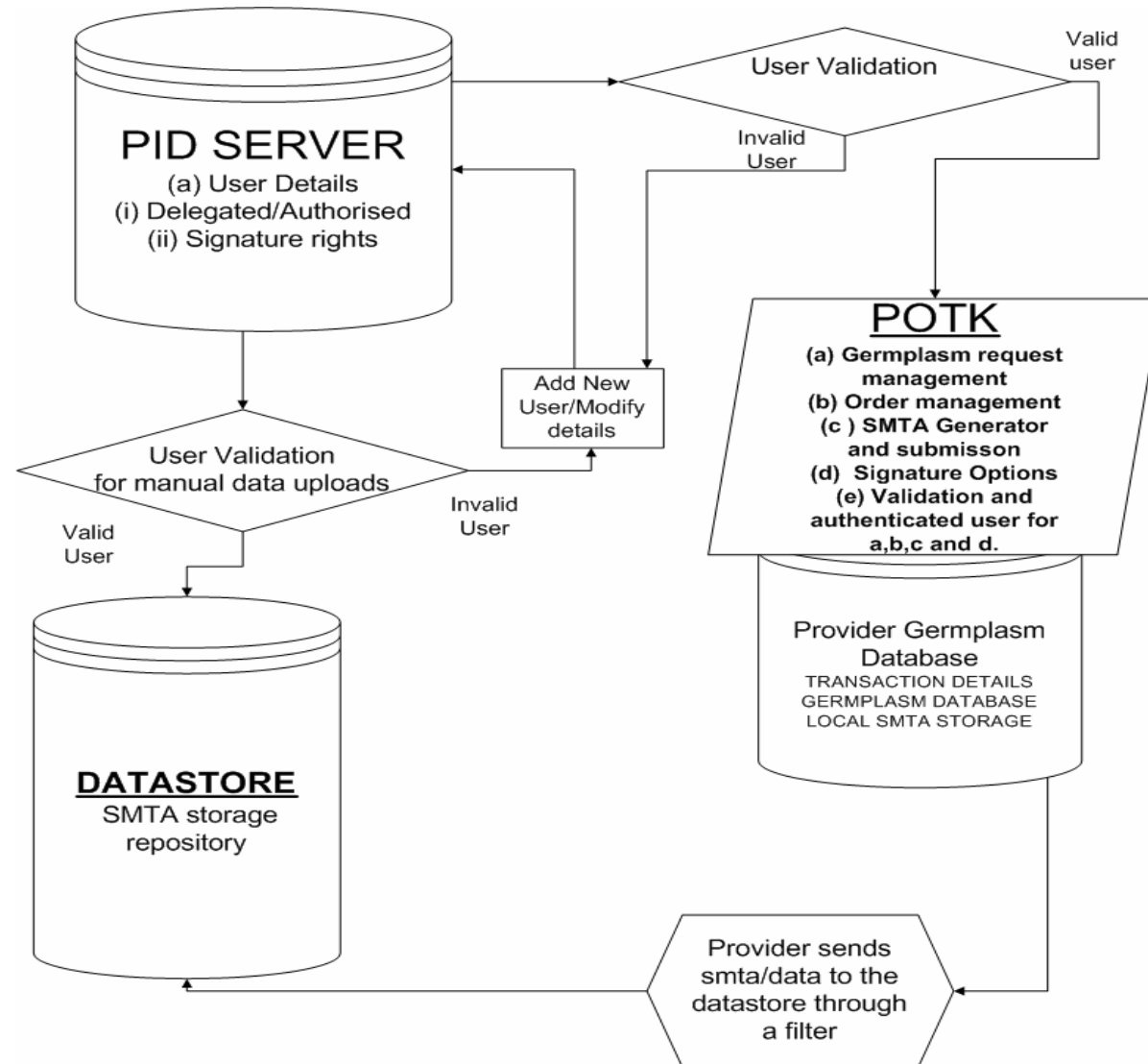
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Default model

- Based on the IT prototype modules presented at GB2
- Full package model : PID server, POTK, Datastore
- Dedicated more specifically to a single genebank :
 - with existing accession database system
 - without ordering system
 - with broadband online connection
 - which wants to report online in real time
- A generic SMTA workflow has been designed for this model
- This default model provides a basis for differentiated and flexible application

S no	Scenario	Brief Scenario Description
A1	Fully integrated	Full integrated system (POTK, PID, DS) mounted on a simple accession database
A2	PID <-- POTK (-->DS)	No realtime connection with DS but connected with PID server in real time
A3	(PID <--) POTK -->DS	No realtime connection with PID but connected with DS in real time
A4	Only POTK required	Only POTK required
A5	PID <-- existing OS--> DS	Integrated system mounted on an existing ordering system
A6	existing OS -->PID	no realtime connection with DS but realtime connection to PID server
A7	existing OS --> DS	no realtime connection with PID but realtime connection to DS
A8	No POTK, PID	Connection to the PID established to uniquely identify the users but information sent to the DS only in periodic uploading
A9	No POTK, No PID	Connection to the PID only to send info to the DS. Sub-users PIDs are then allocated manually by the ITS
B	GENE-IT	offline smta management and generation
C	Paper	

General architecture



Features of the PID server

- User registration
- Genebanks authorised data administrators can add users/co-operators on central PID server at the time of the transaction (through POTK) or independently
- New requestors can also register through central PID server
- User management module available now on PID, PTK, Datastore

Features of the POTK

- Integration with PID server.
- Signature management lookup from PID server.
- Order management and germplasm data handling
- Items can be enhanced and configured as per the provider
- The application allows for high speed of customization.

Features of the DS

- Acts as the SMTA data repository.
- Separately hosted from the PID server.
- Receives upload of documents
- PDF Generation and transmission is automatic through the PTK to the DS
- User validation from central PID server