GENBIS – Powered by Grin-Global
Responsibilities of NordGen with GeNBIS

— Our mandate is to host an Information System (GeNBIS) for the Nordic countries for the seed collection, and their national clonal archives.

— Vi have also a mandate to host the National Genebanks of the Baltic countries of both seed and clonal material with the same IS.
Grin-Global extensions

NordGen has an extended Grin-Global (GENBIS). It can be simplified into the following extension packs.

They’re the following:
- Generic (NPGS-text replacement)
- Full Cultivar naming
- Eurisco MCPD mapping and caching
- Eurisco C&E mapping with extra
- GBIF Biocase mapping
- FAO SMTA and GLIS mapping
- Branding (GENBIS)
**Generic extension pack**

**Goal:** Genericise

**Tasks:**
- Replace hardecoded NPGS-texts with either
  - a site-‐config variable, which we have set to GENBIS
  - (or) site short name, the acronym of the site, when it is more suitable
Full Cultivar Naming extension packet (FCN)

**Goal:** Make it possible to name accessions according to ICNCP

**Tasks:**
- Add a serie accession inv name categories (i.e. Cultivar, Group etc) code values
- Add a Pivot db view that lists all the cultigen epithets as columns
- Add dv view to build full cultivar name
- Add web config parameter that turns on the feature (backwars compatibility)
- Extends Or Adds Web & CT App views
- Update .Net C# MVC code

---

**NGB 12000**

*Brassica oleracea L. var. capitata L.*

*Brassica oleracea L. var. capitata L.* (Rubra Group) 'REGINA', Red Cabbage 'REGINA'
Eurisco MCPD mapping and caching (EURISCO_MCPD)

Goal: Maps all the necessary tables to produce it in MCPD v2.1 format. Since this operation is heavy it will be cached every night.

Dependencies: FCN

Tasks:
- Add a db view to make the major mapping
- Add a stored Procedure to create the complete mapping, which will be called by the nightly event
- Add a second stored Procedure to update mcpd sources, which will be called by the nightly event after the first one
- Add a predefined report with
Eurisco C&E mapping
(EURISCO_C&E)

Goal: To be able to export Crop Trait Observation Data in Eurisco C&E format. Creates project table and its own relation mapping to C&E experiments or other such as collection expeditions.

Tasks:
• Creates code values for project_map table
• Add a project table and a project_map
• Add a db view to generate statistics in crop_trat_observation rows based on crop_trait_observation_data
• Add a db trigger to crop_trait_observation_data. If no rows already exists, then they will be generated.
• Add a set of Eurisco C&E db views for export.
GBIF Biocase mapping (GBIF)

Goal: To map ABCD data as db views, which is a type of Passportdata. This to be use by the BioCASE client application.

Dependencies: EURISCO_MCPD

Tasks:
• Add a db column to mcpd cache
• Add a stored Procedure to create the complete mapping, which will be called by the nightly event after MCPD Sources procedure
• Add dataset table to manage dataset
• Add Utiliy db views
• Add one db view for each data set to be used
• Configure BioCASE with the db views
FAO SMTA and GLIS mapping (FAO)

Goal: To map SMTA and GLIS data as db views. This to be use by the FAO-Toolkit client application.

Dependencies: EURISCO_MCPD, GBIF

Tasks:
• Add a db columns to mcpd cache
• Add each updated “accession_source_glis_map” views
• ALTER a stored Procedure to create the complete mapping, which will be called by the nightly event called mcpd sources
• Add Utility db views
• Add one db view for each data set to be used
• Edit FAO-Toolkit configure file
• Execute FAO-Toolkit terminal command for batch upload SMTAs, Retrieving DOI or Updating GLIS data.
This toolkit handles three things; SMTA, DOI, and WIEWS.

WIEWS

> fao-toolkit wiews/fetch --format=<json/xml> <WIEWS-code>
FAO cont.

FAO-Toolkit Introduction: SMTA

>fao-toolkit help smta

```
OpenSSH SSH client

sysadmin@fregg-model:/var/www/fao-toolkits sudo -u www-data ./yii help smta
(sudo) password for sysadmin:

Description:
Post SMTAs

Usage:
  smta/register [options]

Options:
  --run-as=RUN-AS        The user to run as; defaults to user www-data
  --dry-run              Make a dry run. This run do not contact FAO's Smta API. It just generates the XML and outputs it
  --t, --test            Connect to the test server and make the SMTA registration.
  --from=FROM            From which SMTA date to start report
  --to=TO                To which SMTA date to end report
  --limit=LIMIT          Limit the report to specified numbers of records
  --order-by=[ORDER-BY]  Order of records by column name (multiple values allowed)
  --faa-username=USERNAME FaO account username
  --faa-password=FAO-PASSWORD  FaO account password
  -h, --help             Display help for the given command. When no command is given display help for the list command
  -q, --quiet            Do not output any message
  -V, --version          Display this application version
  --ansi|--no-ansi       Force (or disable --no-ansi) ANSI output
  -n, --no-interaction   Do not ask any interactive question
  --config=CONFIG        Set alternative configuration name
  -v|v|v|v, --verbose      Increase the verbosity of messages: 1 for normal output, 2 for more verbose output and 3 for debug

Help:
Post SMTAs using db config file to connect to database. If no table name is assigned use map config file
sysadmin@fregg-model:/var/www/fao-toolkits
```
FAO cont.

FAO-Toolkit Introduction: DOI
>fao-toolkit help doi/register

Options:
--run-as=RUN AS
--dry-run
-t, --test
--unsigned-doi
--from=[FROM]
--to=[TO]
--filter=[FILTER]
--limit=[LIMIT]
--offset=[OFFSET]
--order-by=ORDER-BY
--fao-username=FAO-USERNAME
--fao-password=FAO-PASSWORD
--sample=SAMPLE
--output-error-file=OUTPUT-ERROR-FILE
--output-success-file=OUTPUT-SUCCESS-FILE
-n, --help
-h, --version
--ansi|--no-ansi
--no-interaction
--config=CONFIG
-u, --verbose

Help:
Post GLISs to register DOI for accessions.

FAO cont.

FAO-Toolkit Introduction: DOI

> fao-toolkit doi/register -t --dry-run
--run-as=SWE054 --filter='NGB %'
--order-by='sampleid' --limit=1

Result to the right ---------------------

Normal run would look like this:
> fao-toolkit doi/register
--run-as=SWE054 --filter='NGB %'
--order-by='sampleid' --unsigned-doi

Or like this with logging:
> fao-toolkit doi/register
--run-as=SWE054 --filter='NGB %'
--order-by='sampleid' --unsigned-doi
--output-error-file=~/.erroroutput.txt > ~/output.txt
FAO cont.

FAO-Toolkit Introduction: DOI

```
```
Branding extension pack

**Goal:** Brand

**Tasks:**
- Branding
  - Changing layout of header
    - to present Web-config name of the instance, i.e. GENBIS.
    - to make it thinner, to be not that space demanding.
  - Adding a footer with logos of all the involved sites
  - Moving down the Grin-Global Logo as a Powered-By Logo.
Thank you for listening!

Questions?
Kjell-Åke Lundblad
IT & Documentation manager
Kjellake.lundblad@nordgen.org
+4640536647

Nordic Genetic Resource Centre
www.nordgen.org

@nordgen @nordgen
@nordgen NordGen