



Solar Keymark new database

Web meeting (project team)

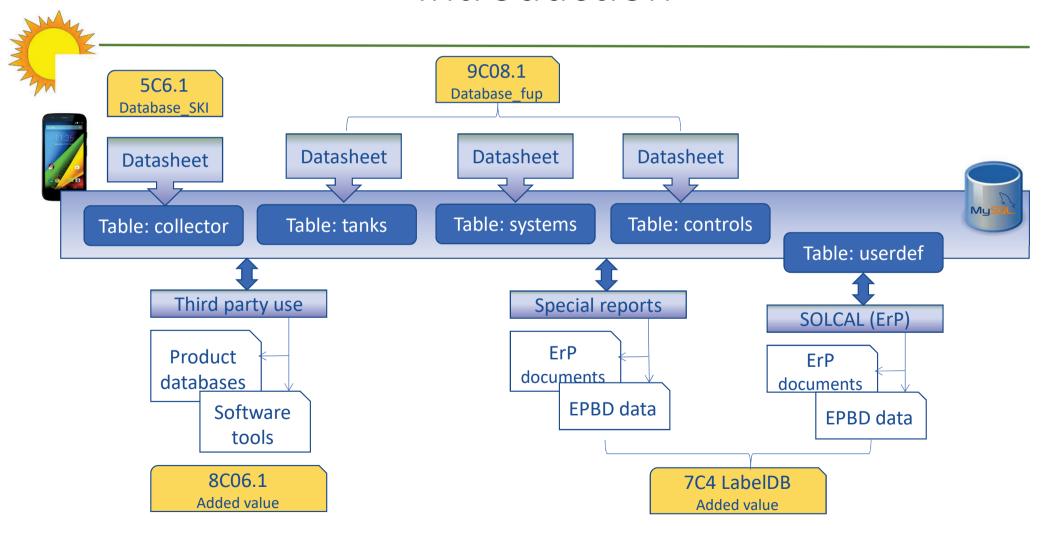
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Introduction



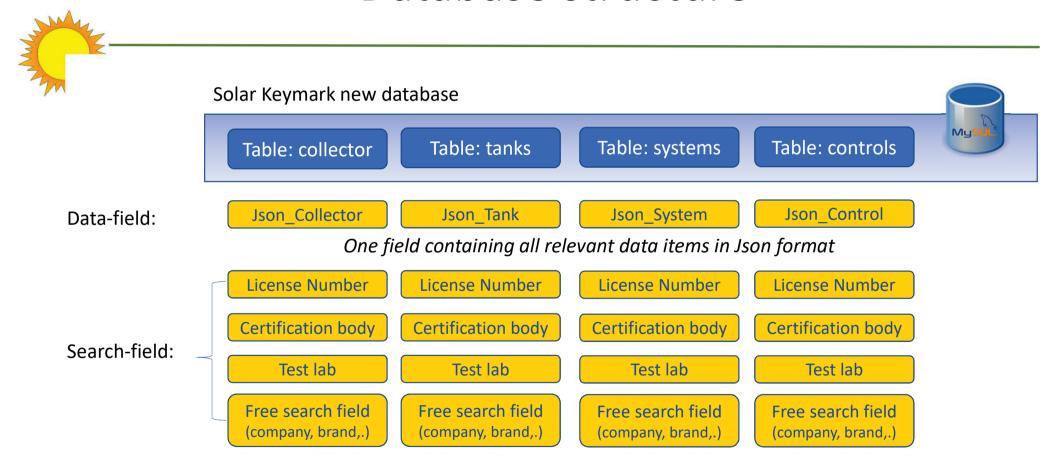


Introduction

- Goal of this meeting:
 - Update on the state of art
 - Comments and proposals for improvement
 - Make some decissions on specific issues
 - Decide on the presentation during SKN meeting



Database structure





Intermezzo on JSON text

- JSON tekst string: open-standard for a collection of datdedicated, human readable, widely applied for data exchange
 - Understandable by: PHP, Javascript, Excel, C++, VB,
- Application for Solar Keymark database:
 - Store data in one field of the database
 - Upload / download datasheets
 - Download third party use
 - ...

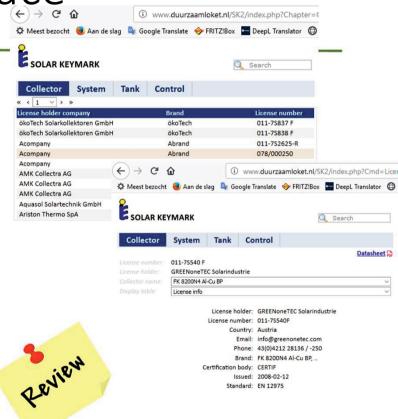
• Example:

```
{"Certification":{"LicenseNumber":"011-7S016 R","LicenseIssueDate":"2015-02-03","CertificationBody":"CERTCO","TestLab":"TZS, ITW University
Stuttgart","TestLabComments":"none","Brand":"Website","Standard":"EN 12975","TestReport":{"Report reference":"report date"},"LicensedCompany":{"Name":"GREENoneTEC Solarindustrie","Address":"Industriepark St. Veit, Energieplatz 1","PostalCode":"9300","City":"St. Veit a.d. Glan","Country":"Ã-sterreich","Website":"www.greenonetec.com","Email":"info@greenonetec.com","Phone":"434241 28 136-0 / 4214 28 136-250","Remarks":null,"Type":2}},"Application":{"CollectorType":"Evacuated tubular collector",
```



Public user interface

- www.duurzaamloket.nl/SK2/index.php
- Targeting:
 - BtoB (license check, prod. specs.,...
 - Governments (support schemes, surveillance,...)
 - Installers, composing ErP devices/packages
- Not targeting:
 - Selection of best performing product
 - For SK all certified products are good
- Website available for evaluation
 - Please comment





Status

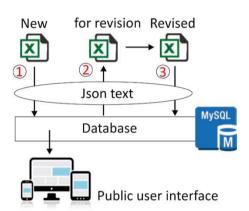
	 Database ready for evaluation Tables defined Json text data collection structures defined Filled with temporary data for illustration purposes only 	Not for controls yet Annex I report. Please comment
	 Public web user interface ready for evaluation Designed in PHP 	Not for controls yet Please comment Safety analyses to do
	 Uploading the current datasheets: none as yet Datasheets are not yet available This may appear to be a very intensive and risky task 	Please send me the datasheets!
	Ready enough for presentation during next SKN	If we agree on this status



LET 'S DISCUSS

SK procedure: data into the database

- Upload data from current datasheets (JSON)
 - Excel datasheets extended with software: new templates
- For data revisions:
 - Download data to new templates, revise and upload
- Practical solution that can be improved in future
 - Fast implementation possible
 - Fits the current SCF budget
 - No complications with (e.g.) ScenoCalc
- Revision needed in SK procedures
 - Assistance from experts is required!
 - Volunteers?



To do's:

- Software addition datasheet
- Fit into SK procedure
- Implementation



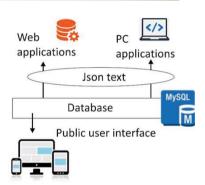
START

Illustration: Download datasheet



Third party access

- Communication protocol: Json text string
 - Access through dedicated API's
- Examples:
 - From web application: e.g. LabelPack A+
 - From web Product database: e.g. VdZ, BIM, ...
 - From ST software: e.g. Trnsys, Transol, SolTherm
- Indirect access to data:
 - Special PHP script designed as an interface
 - Mainly to maintain control and for safety purposes
- Several functions have been implemented
 - See Annex II of the report
 - Please try it for evaluation



- Any urgent new requests an API?
- Add passeword?





Illustration: Excel -> Json



Additional data services



- Several reports available through the public user interface (links)
- Aimed at ErP and EPBD and to download a datasheet
- ErP technical document and product fiche
 - Solar device: only available for DST tests and ErP references (none available yet)
 - Tanks: to be implemented

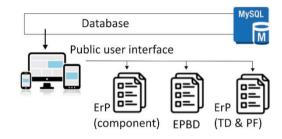






Illustration: Collector ErP



Additional services with user data

- Collector:
 - partial Technical document and Product fiche (SOLICS)
- System (DST/ErP):
 - Technical document and Product fiche
- Tank:
 - Technical document, Product fiche and label
- Collector + tank + control + additional user input data:
 - Technical document, Product fiche and label (SOLCAL)
 - SolTherm (or EN 12977-2) performance
 - •

Additional user data:

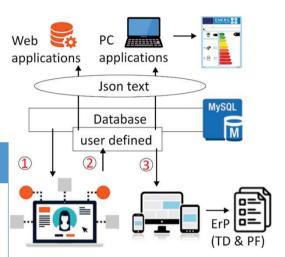
- Pump power consumption
- Number of collector modules
-
- None certified data
- Needs be stored



Additional services with user data

Dilemma: where to store the user data?

Options:	Pro's	Contra's
In SK database (+ table)	Web app possible Sharing data is possible One database to manage	Database integrity Safety & management issues
	Binding new SK customers	
In separate database	Web app possible	Safety & management issues
	Sharing data is possible	Two databases to manage
	Binding new SK customers	
On the user computer	User manages his own data	No web tool possible
	Bind customers through App	Sharing data is difficult
	(exclusive use)	Software distribution needed





Database management

- Update data in the database
 - By the certification institutes through uploads ??
 - This can be improved in the future (e.g. mixed upload test lab and acceptance by CI)
 - Certification institutes are responsible for the data
- Revision of data structures (e.g. new test element result)
 - Mostly on the level of data sheets.
 - The database structure is flexible up to the level of Json packages
 - Possible revisions in the user interface software
- Help desk
 - From the database manager (public, test labs, certification bodies)
- Third party access
 - Development of specific "API's" for data transfer (if needed) by database manager
 - If decides as such: management of contracts for granting access and financial things





Final



THANKS FOR YOUR TIME AND ATTENTION