



Association of Decentralized Information Management for Industry THTH ry

Open Source service framework for ISO 15926 compliant data

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THTH is an association founded in 2006

THTH aims at the development and take-up of decentralized information management in industry

THTH develops industrial projects and coordinates research

THTH hosts Open Source software products



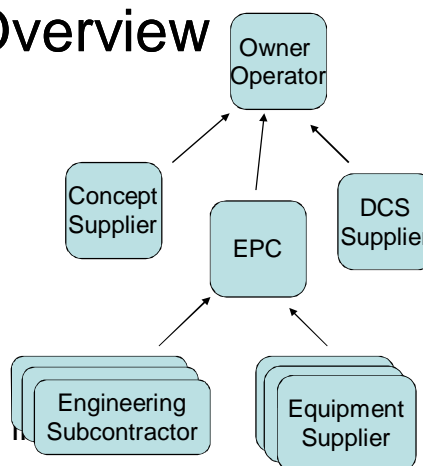
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Challenges in project information management

- Email and spreadsheets
 - No structure
 - Lack of version management
 - Not a real solution
- Many trials and development projects
 - STEP AP227, etc.
- In Finland many trials and development projects
 - Each project had own data model
 - Development focus on work processes
- Data harmonization needed
 - ISO 15926 and XMpLant is one solution
 - Finnish process standards harmonized with ISO 15926
- Need common data transfer platform
 - For all project participants
 - Series of development projects started in Finland before ADI and iRING
 - Need support for ISO 15926 and XMpLant

Sefram Overview

- Network of databases
 - Master – Supplier
 - Sharing an object model
 - Managing changes
 - Validity rules
- Adapter framework
 - Contents are maintained in background systems



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Why Service Framework

Get rid of

- Merging conflicting spreadsheets
 - Share a data model
 - Manage versions on object level
- Overlapping designations
 - Multiple designations for each object
 - Multilingual names

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Implementing ISO 15926

Different ways:

Version control
Distribution control
Adapter API

Structure and context
specified in schema

Terms and definitions

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Why Open Source

- Lesser dependency on specific software suppliers
 - Long time spans
 - Business critical contents
- Reference implementation for commercial products
- Keep SME's involved
 - Basic functionality free of license charge
- Market for value adding services
- Building up a community
 - See Eclipse



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Sefram in Investment Projects

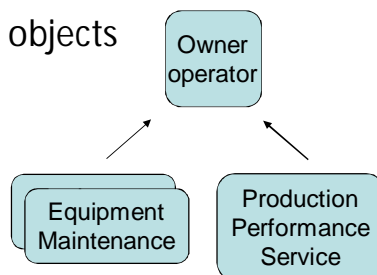
- Benefits
 - Up-to-date information
 - Data is replicated
 - Version management
 - Access rights
 - Distribution control
 - Use of standards ISO 15926 with XMPLant structure
 - Ruleset can be modified from project to project
 - API is easy to use with different applications
- New way of working
 - Changes in work processes
 - Smaller increments, faster cycle
 - Re-thinking of data ownership, distribution, responsibilities
- Easy to adopt other platforms
 - After developing internal maturity



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Sefram in Life-cycle Services

- Common plant model for all service providers
- Exchange of notifications
- Attaching discussion to plant objects
- Mapping of designations



Conclusions

- Lessons learned
 - Establishing data exchange is hard work
 - The process itself is rewarding
 - ISO 15926-4 is comparably easy to use
 - XMpLant is easy to understand
- Next steps
 - Identify limited scope cases, e.g.
 - Drawing list
 - Equipment list



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Thank you

For more information, please contact:

THTH association

<http://www.thth.fi>

Sefram

<http://www.sefram.org>



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