



National IT and Telecom Agency

Ministry of Science
Technology and Innovation

Danish standardisation experiences – an early adopters perspective



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Once upon a time...

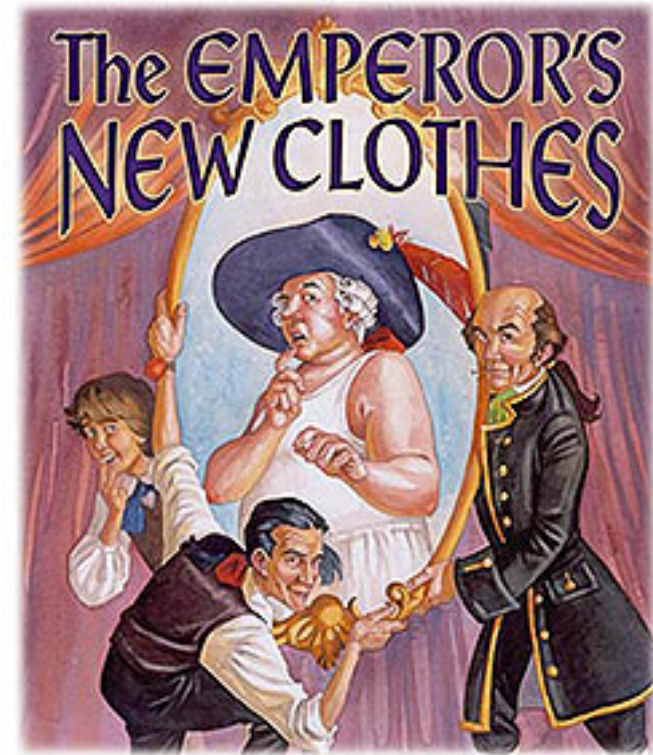
- Early beginnings
 - XML chosen as common format 2001
 - Reg/Rep online 2003
- **Ambition to drive digitisation in Denmark using the public sector as a lever.**
 - eProcurement Project started 2003
 - February 1st 2005: Law stating that all invoices to the public sector have to be sent electronically.





The story so far...

- **Consensus as overriding governance principle**
- **National NDR inspired by UN/CEFACT / ISO**
 - Comprehensive - up to 120 rules
 - Difficult to understand
 - Poor tool support
- **Lego™ approach – every element atomized for reuse**
- **Central quality control by NITA and public hearings**
- **Approx. 5000 approved OIOXML elements**





Who are the players?

- OIO Committee
- Domain specific “sub”-committees
- NITA
- Individual authorities / organisations



WORK IN PROGRESS

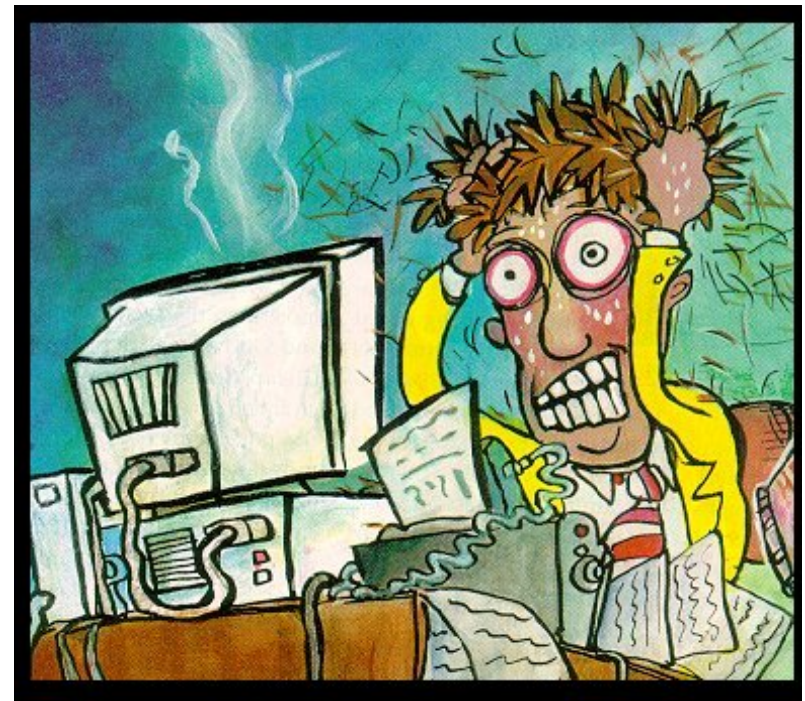


Does it really work?

In a word: **NO**

What's the matter, then?

- **Too expensive**
 - Difficult rules raise development costs
 - Cost of approval process
- **Too slow**
 - Iterative rejections of XML
 - public hearing process
- **Not enough action**
 - Sowing/Reaping problem
 - Hen/Egg problem: Value comes from reuse – which requires existing components
- **Insufficient resources**
 - Manpower and funds difficult to divert from authorities' main tasks
 - Difficult to get funding for central/common effort





The general feeling:





What do we need now?

- **More focus on semantic content of data**
- **Cheaper development and deployment**
 - **Better XML with less effort**
- **Less bureaucracy**
- **More direct user involvement**
- **Better (understanding of) business case**





The way forward...

■ **Web 2.0 approach**

- New reg/rep is community based with
 - Tagging, Groups, Commenting
 - Open API supported by PoC tools

■ **Focus on semantics**

- Atomic semantic definitions used to build many things: information models, message models, taxonomies, ontologies, ...
- XML: Production schema generated from semantic definitions

■ **Self management**

- I'll show you mine if you show me yours

■ **Fewer rules – more iterations**

- “Next best shot” method
- Direct dialogue between resource owner and interested parties





Where are we today?

- **Web 2.0 reg/rep in public beta**
- **Work commencing on next generation of NDR**
- **Tools available for**
 - Upload
 - NDR Validation
 - Schema generation from semantic definitions
- **PoC integrations with standard tools underway**
- **User community alive and growing**

How
to Be
Happy

*Finding a
Future in
Your Past*

JENNY SMEDLEY



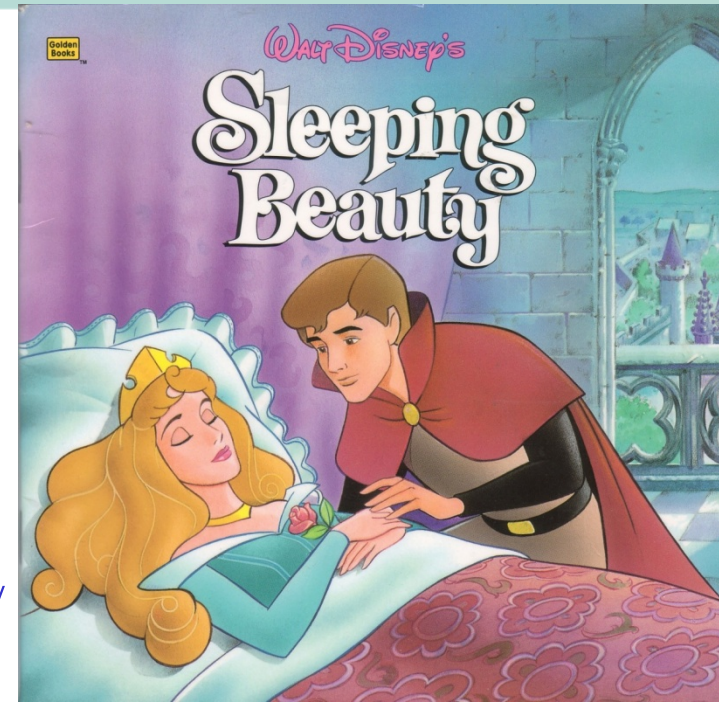
Thank you for your time!

Read about the Danish approach at:

<http://en.itst.dk/architecture-and-standards/>

See our new repository (in Danish) at:

<http://www.digitaliser.dk/>



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