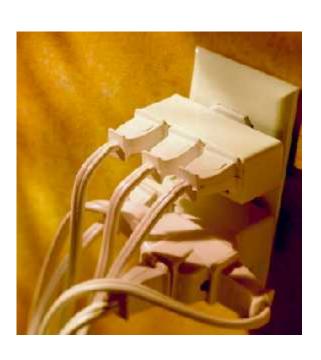


Certification and testing Denmark

- Information exchanged using national standards
- Many vendors, interoperability a must
- Testing
 - Syntax / technical
 - Semantic
 - Clinical
- Test protocols
- Test examples
- Test tools
- Publication
- Labelling
- Results
- Onsite / test camps







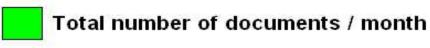
Information exchanged - profiles

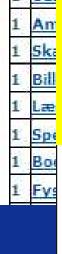
MedCom -The Danish Health Data Network Messages/Month

More than 100 profiles =

Standards with content defined by clinicians

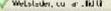






5500000







Messages and webservices

- EDIFACT / HL7
- XML
- Webservices
- Dynamic forms
 - Documented in "Good EDI/XML Letters"
 - Background for non health persons
 - Recommendations from clinicians
 - Technical part
 - Mandatory, Optional, Dependant
 - Content, rules
 - Standard
 - Valid qualifiers and codes
 - Test examples







Software and systems

- More than 60 different, covering some or many profiles
- More than 100 standards/profiles
- Interoperability is a MUST
 - Syntax
 - Semantic
 - Clinical
- Secured through MedCom testing and approval







- Technical interoperability
 - Syntax check in testserver / on-line testtools
- Semantic interoperability
 - testprotocol screen dump / correct and full content
- Clinical interoperability
 - testprotocol, on site, live test, unknown examples
- Publication You are "approved"

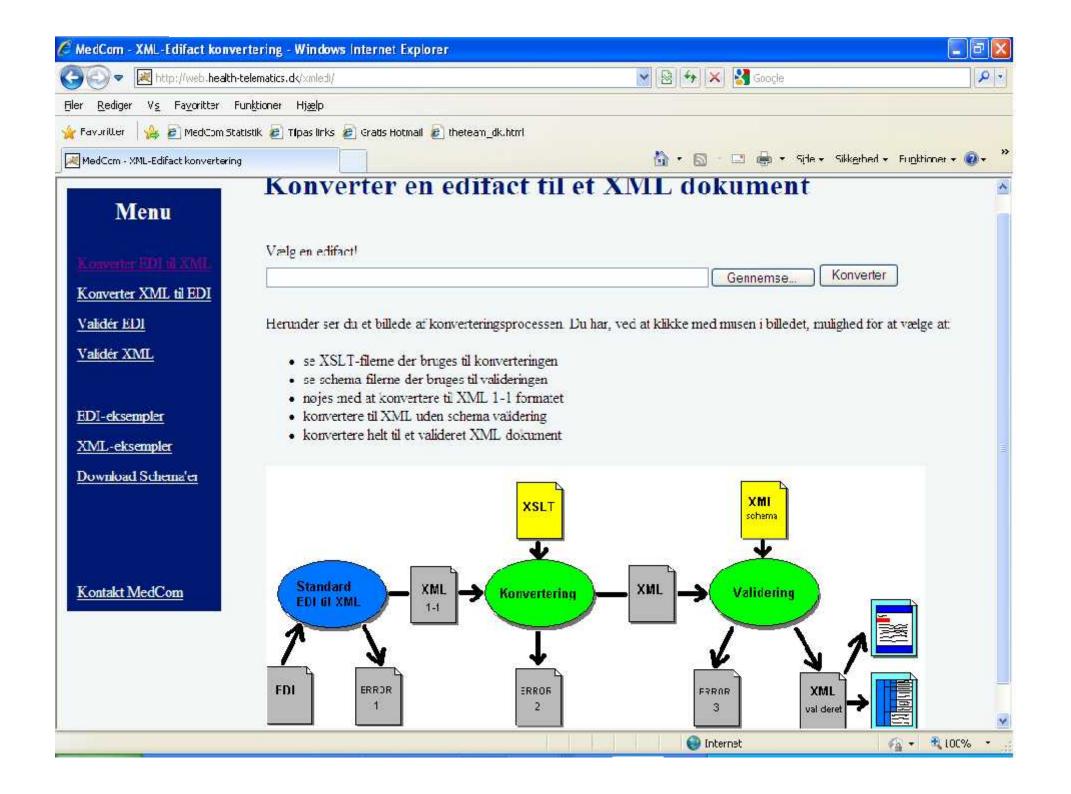




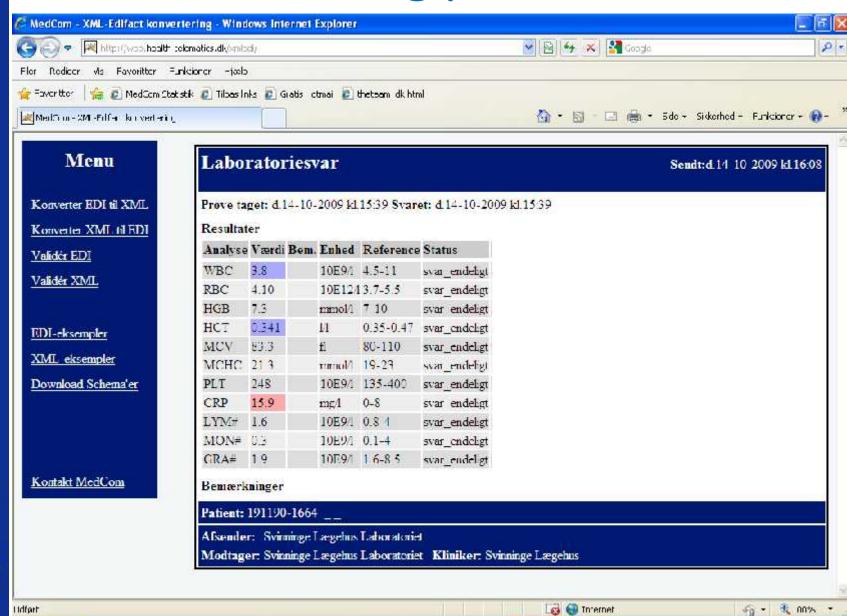


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Hdfart





Menu

Konverter EDI til XML

Konverter XML til EDI

Validér EDI

Validér XML

EDI-eksempler

XML-eksempler

Download Schema'er



Der er fundet følgende fejl:

Fejl 1

cvc-complex-type.2.4.a: Invalid content starting with element 'ReferenceInterval'. The content must match '(("http://rep.oio.dk/sundcom.dk/medcom.dk/xml/schemas/2007/02/01/":ResultStatusCode),

("http://rep.oio.dk/sundcom.dk/medcom.dk/xml/schemas/2007/02/01/":Analysis),

("http://rep.oio.dk/sundcom.dk/medcom.dk/xml/schemas/2007/02/01/":ProducerOfLabResult),

("http://rep.oio.dk/sundcom.dk/medcom.dk/xml/schemas/2007/02/01/":ReferenceInterval){0-1},

("http://rep.oio.dk/sundcom.dk/medcom.dk/xml/schemas/2007/02/01/":ResultType),

("http://rep.oio.dk/sundcom.dk/medcom.dk/xml/schemas/2007/02/01/":Operator){0-1},

("http://rep.oio.dk/sundcom.dk/medcom.dk/xml/schemas/2007/02/01/":Value),

("http://rep.oio.dk/sundcom.dk/medcom.dk/xml/schemas/2007/02/01/":Unit) {0-1},

("http://rep.oio.dk/sundcom.dk/medcom.dk/xml/schemas/2007/02/01/":ResultValidation){0-1}.

(("http://rep.oio.dk/sundcom.dk/medcom.dk/xml/schemas/2007/02/01/":ResultTextValue)

("http://rep.oio.dk/sundcom.dk/medcom.dk/xml/schemas/2007/02/01/":ResultComments)){0-20},

("http://rep.oio.dk/sundcom.dk/medcom.dk/xml/schemas/2007/02/01/":Reference){0-10})'.

- / UNA:+.? '
- 2 UNB+UNOC:3+5790000120284:14+5790000125012:14+000116:1247+00114124637002++++(
- 3 UNH+80901082504859+MEDRPT:D:93A:UN:R0130K+RPT01
- 4 BGM+LRP++9+NA'
- 5 DTM+137:200001161252:203'
- 6 S01+01'

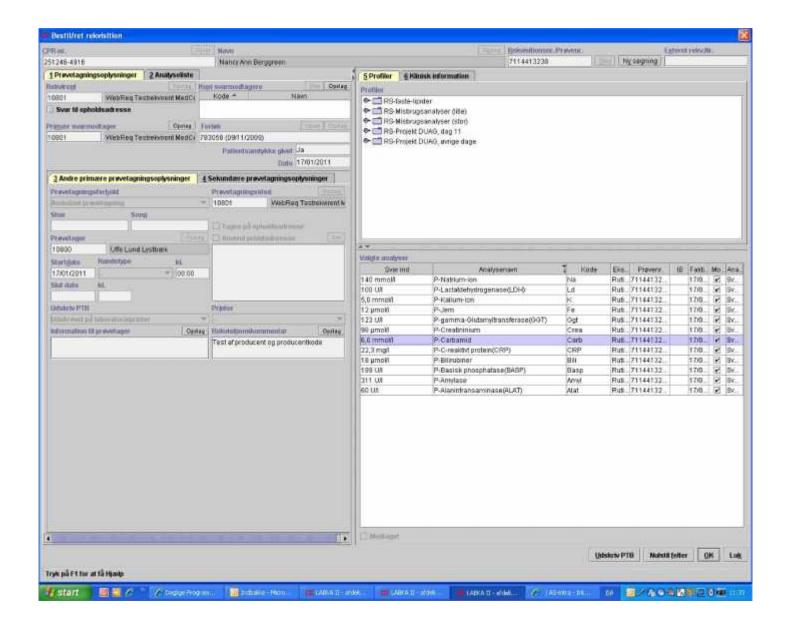




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	Opgave	Forventet resultat
	100	nur H
est 22 -1 modtagels	af rekv fra sekundær rekvirent , svar til primærrekv, ı	rekv samt kopisvar
	Vlodtag rekv 22-1	
2 2	vis primærrekvirent	Vis rekvirenten som promærrekvirent incl adresse Skal have svar tilhage
	vis rekvirent	Vic rekvirenten den der tager prøverne. Skal have svar tilbage
	vis person i org	Initialeme skal med - sendes videre i svaret.
	Vis prøvetagers labnr	Vis korrekt rekv nr
	Vis prøvetagers glasnr	Vis evt glasnumre fra prøvetager
	Vis betaler	Vis betaler information
	Vis kopisvarmodtager	Kopisvar til en kodet kopisvarmodtager
	vis evt kodede promptopm/svar	vis hvis med. Incl koden.
est 22-2 - modtagels	vio primærrekvirent omen ikke svar til prøvetager(rekvirent)	Vis rekvirenten som promærrekvirent incl adresse Skal have svar tilbage Vis rekvirenten - den der tager prøverne . Skal IKKE





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Status 09 February 2011	Laboratorysystems approved by MedCom											
2		Labka	Labka II	BCC ab	Notlab 2	ADBakt	SCAM	Misyc	Safir LIS	Procong	Blodfløcct	3CC 0 00
Labproject 1, WebReg		MedComit Godten#t Approved	Godkendy Approved	Godkend/ Approved	Godkendt/ Approved	Godkendt/ Approved	Godkerdy Approved	Godkendt/ Approved	Godbendt/ Approved			MartComit Godkendt Approved
Labproject 2, Interlab order-Triangel	Receive	vers on	MedComili Godkendy Approved	MedComili Gockendy Approved				MedCom/6 GodNengt/ Approved	MedCom6 Godtenat Approved			
-	Send	vers on	MedCom/B GodkendV Approved	Godkendy Approved	version						7	7
Labproject 3, Requisition Hotel, "Webservi	Upload	II	RedCom/8 GodkendV Approved	ED								
A	Download	=61	MedComill Godkendt/ Approved									
Labproject 4, Interlab results	Send	MadCom/S Godbendt/ Approved	Godkendt/ Approved	Gorkend/ Approved				MadComil Godkendt/ Approved	MedComis Codtendt Approved			
-	Receive	MedCorn® Godtendy Approved	MedComilia Godkendy Approved	MedCorne Gookendy Approves		?			?	7	2	?
Labproject 5, Producer, Producercode	Send	MedCorn® Godkendt Approved	MedCom® GodkendV Approved	MedCons8/ Godkends/ Approved	MedComili Godkendty Approved		MedCome Codkendy Approved	MadComili Godkendt/ Approved	MedCom8 Godkendt Approved		MedCom/ Godkendt/ Approved	Godkendt Approved
Labproject 6, National shortname		0-010	Medicannal Godkendt/ Approved	Godkendt/ Approved	MedComili Godkendt Approved			MedComit Godkendt/ Approved	10010-00-00-00-00-00-00-00-00-00-00-00-0		MedCome Godkendt/ Approved	
Labproject 7, URL Interpretation												
Labproject B. National sample ID				MedCornill Godkendt/ Approved		MedComili Godkendt/ Approved						
Labproject 9. Webquality		?	MedCom8 GodkendV Approved	MecComs Godkendt/ Approved	MedCorns Godkendt Approved							
Labproject 10, Results national labportal	XRPT01			MedCom6 Godkendt/ Appreved						7	7	7
	KFII		?	Medicentil Godkandt/ Approved								
Labproject 11, Sample receiving	Automatic	?	* *** **	MedComB Gockendy Approved	MedCom8 Godkeney Approved							
		ПППТТП										
		MedComil	Not releva	ant								
		Approved	Approved									
	Appro		Approved	old stand	lard							
			Not appro	wed								
			testing									
			? No info									





Testing proces RESULTS

- Interoperability a MUST
- Real interoperability a reality= it works
- Accepted by
 - SW vendors,
 - Clinicians,
 - Customers
- Vendors very satisfied with testing process
- MedCom certified "A MUST" in tenders
- Webservice testing is difficult.





Lesson learned

- Important with structure in testing
- More strict test plans, QA manual
- Implemented in all profiles/standards
- Important to have test tools for all profiles

