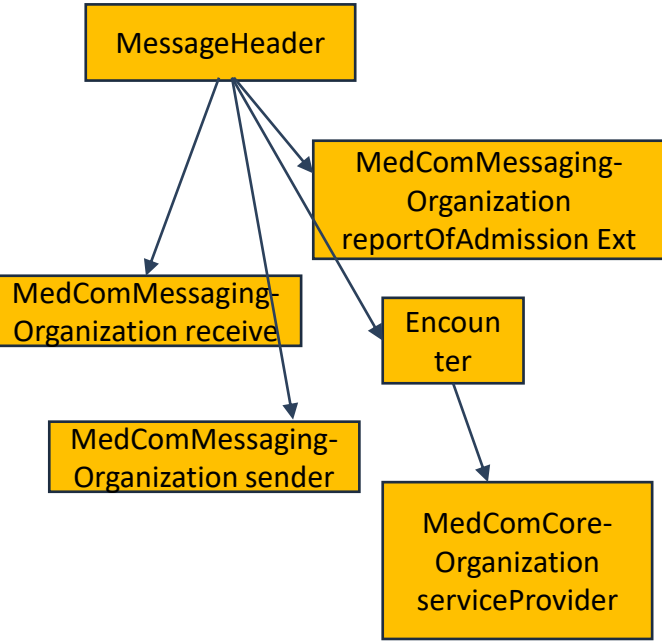




# HospitalNotification and Organizations

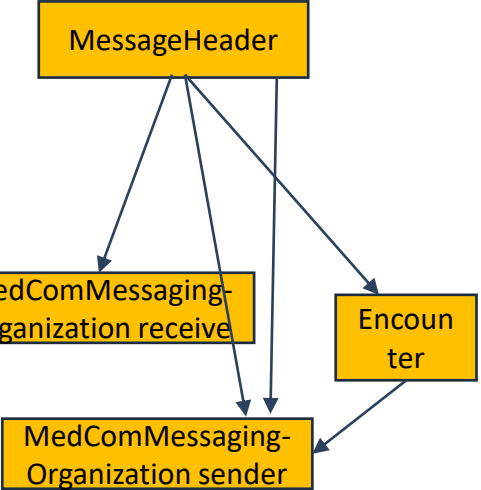
---

# Organization - all different



<Sender>		M	<Sender>	
<EANIdentifier>Afsenders_lokationsnummer</EANIdentifier>	an..35	M	<EANIdentifier></EANIdentifier>	EANIdentifier er kuvertafsenders lokationsnummer det vil normalt sige afsendende organisation. Såvel positiv som negativ kvittering sendes tilbage til dette nummer.
<Identifier>Afsenders_ID_nummer</Identifier>	an..17	M	<Identifier></Identifier>	Identifier er den egentlige afsenders ID-nummer. Alle an..17 formater skal kunne håndteres. Identifier skal altid udfyldes validt. F.eks. sygehusafdelingsklassifikationsnummer hvis afsender er et sygehus (stamafdelingen) og ydernummer hvis afsender er en lægepraksis, en speciallæge, en fysioterapeut eller en kiropraktor. Kommunenummer hvis afsender er en kommune. Hvis afsender ikke har afdelings- eller ydernummer anvendes ofte et lokationsnummer. Alle modtagere skal kunne modtage alle typer på formen an..17, da der fremover vil blive sendt breve mellem alle typer afsendere og modtagere. Alle modtagere skal kunne modtage og behandle "ukendte" numre og f.eks. kunne håndtere hvis numrene ændres.
<IdentifierCode>Afsenders_ID_nummers_type</IdentifierCode>	KVA	M	<IdentifierCode></IdentifierCode>	IdentifierCode er kvalifikator for det anvendte kode- el. klassifikationssystem - ofte "sygehusafdelingsnummer" hvis afsender er en sygehusafdeling, "ydernummer" hvis sygesikringsyder, "kommunenummer" hvis kommune.
<OrganisationName>Afsenders_organisation</OrganisationName>	an..35	M	<OrganisationName></OrganisationName>	OrganisationName er navnet i tekst på afsendende sygehus, lægehus, kommune o.l. Det anbefales at Sygehusnavn, Lægehusnavn, Fysioterapiklinikken o.l. altid udfyldes i OrganisationName - gerne kort, f.eks. "OUH" i stedet for "Odense Universitets Hospital". Hvis amtet ønskes angivet, skal dette indsættes i OrganisationName, f.eks. "Fyns Amt, OUH".
<DepartmentName>Afsenders_afdeling_el_socialomraade</DepartmentName>	an..35	M	<DepartmentName></DepartmentName>	DepartmentName er navnet på sygehusafdelingen hvis afsender er et sygehus, navnet på hjemmepleje distriktet hvis afsender er en kommune, titlen "læge" hvis afsender er et lægehus o.l. Udfyldes ofte med "Gadenavn" ved fysioterapeutklinikker.
<UnitName>Afsenders_afdeling_el_socialdistrikt</UnitName>	an..35	M	<UnitName></UnitName>	UnitName er sygehusafsnit, hvis afdeling er et sygehus, navnet (For- og efternavn) hvis afsender er en person i et lægehus, hjemmeplejegruppe hvis kommune.
<TelephoneSubscriberIdentifier>Afsenders_telefon</TelephoneSubscriberIdentifier>	an..25	M	<TelephoneSubscriberIdentifier></TelephoneSubscriberIdentifier>	TelephoneSubscriberIdentifier er afsenders telefonnummer.
<AnswerTo>		M	<AnswerTo>	
<EANIdentifier>Afsenders_svar_lokationsnummer</EANIdentifier>	an..35	M	<EANIdentifier></EANIdentifier>	EANIdentifier er det lokationsnummer, hvortil sygehuset ønsker ReportOfAdmission fremsendt til.
<AnswerTo>		M	<AnswerTo>	

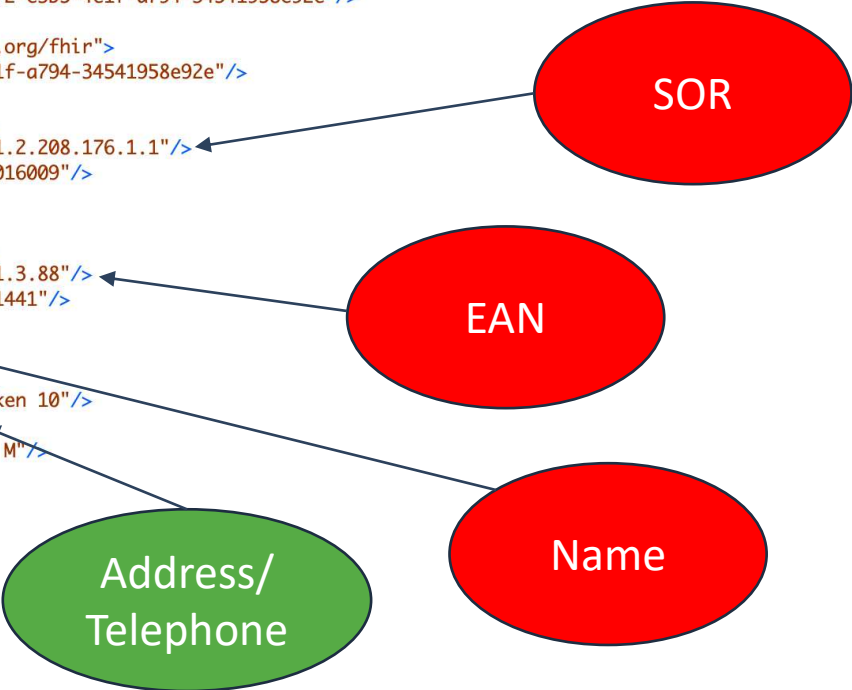
# Organization – one for all (sender)



<Sender>		M	<Sender>	
<EANIdentifier>Afsenders_lokationsnummer</EANIdentifier>	an..35	M	AfsLok	<EANIdentifier></EANIdentifier>
<Identifier>Afsenders_ID_nummer</Identifier>	an..17	M	AfsID	<Identifier></Identifier>
<IdentifierCode>Afsenders_ID_nummers_type</IdentifierCode>	KVA	M	KODE	<IdentifierCode></IdentifierCode>
<OrganisationName>Afsenders_organisation</OrganisationName>	an..35	M	AfsOrg	<OrganisationName></OrganisationName>
<DepartmentName>Afsenders_afdeling_el_socialomraade</DepartmentName>	an..35	M	AfsAfdTitel	<DepartmentName></DepartmentName>
<UnitName>Afsenders_afdeling_el_socialdistrikt</UnitName>	an..35	M	AfsAfsnitNavn	<UnitName></UnitName>
<TelephoneSubscriberIdentifier>Afsenders_telefon</TelephoneSubscriberIdentifier>	an..25		AfsTlf	<TelephoneSubscriberIdentifier></TelephoneSubscriberIdentifier>
<AnswerTo>		M		<AnswerTo>
<EANIdentifier>Afsenders_svar_lokationsnummer</EANIdentifier>	an..35	M	SvarLoknr	<EANIdentifier></EANIdentifier>
<AnswerTo>		M		<AnswerTo>

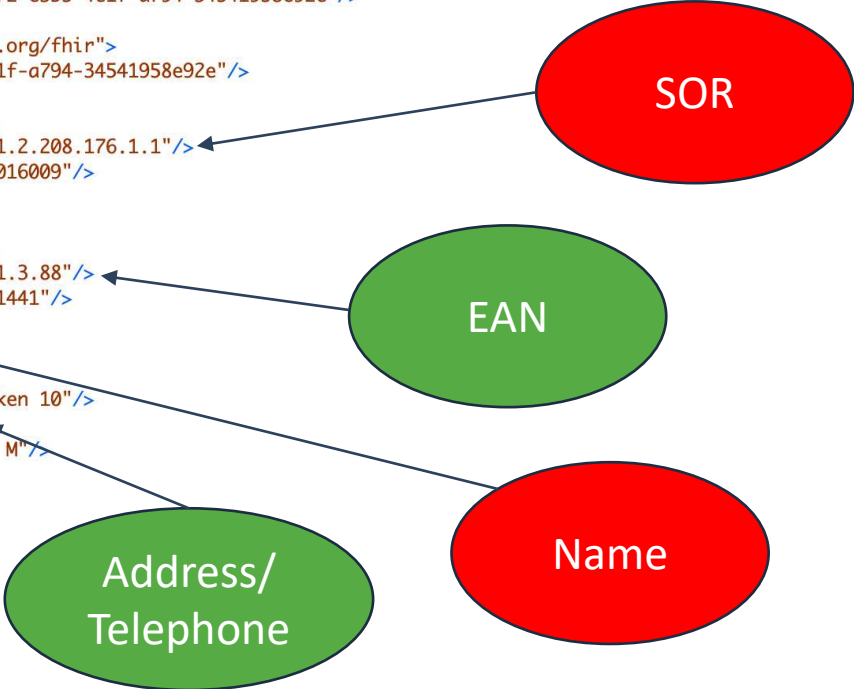
# MedCom Messaging Organization

```
<entry>  
  <fullUrl value="Organization/3e11cd72-e3b5-4e1f-a794-34541958e92e"/>  
  <resource>  
    <Organization xmlns="http://hl7.org/fhir">  
      <id value="3e11cd72-e3b5-4e1f-a794-34541958e92e"/>  
      <identifier>  
        <use value="official"/>  
        <system value="urn:oid:1.2.208.176.1.1"/>  
        <value value="378631000016009"/>  
      </identifier>  
      <identifier>  
        <use value="official"/>  
        <system value="urn:oid:1.3.88"/>  
        <value value="5790000121441"/>  
      </identifier>  
      <name value="MedCom"/>  
      <address>  
        <line value="Forskerparken 10"/>  
        <city value="5230"/>  
        <district value="Odense M"/>  
      </address>  
    </Organization>  
  </resource>  
</entry>
```



# Medcom Core Organization

```
<entry>  
  <fullUrl value="Organization/3e11cd72-e3b5-4e1f-a794-34541958e92e"/>  
  <resource>  
    <Organization xmlns="http://hl7.org/fhir">  
      <id value="3e11cd72-e3b5-4e1f-a794-34541958e92e"/>  
      <identifier>  
        <use value="official"/>  
        <system value="urn:oid:1.2.208.176.1.1"/>  
        <value value="378631000016009"/>  
      </identifier>  
      <identifier>  
        <use value="official"/>  
        <system value="urn:oid:1.3.88"/>  
        <value value="5790000121441"/>  
      </identifier>  
      <name value="MedCom"/>  
      <address>  
        <line value="Forskerparken 10"/>  
        <city value="5230"/>  
        <district value="Odense M"/>  
      </address>  
    </Organization>  
  </resource>  
</entry>
```



# Brief run-through of the test protocol for FHIR HospitalNotification (receiving parties)

---

# Test protocols - status

Test protocol	Send	Receive
HospitalNotification	In preparation	First draft
CareCommunication	In preparation	In preparation

# HospitalNotification - Table of content

## INDHOLDSFORTEGNELSE

- 1 INDLEDNING.....
- 1.1 Formål.....
- 1.2 Forudsætninger for test .....
- 1.3 Tools .....
- 1.4 Testeksempler og testpersoner .....
- 1.5 Baggrundsmateriale .....
- 1.6 Testresultat.....
- 2 OPLYSNINGER OM LEVERANDØR OG SYSTEM UNDER TEST (SUT).....
- 2.1 Oplysninger om leverandøren .....
- 2.2 Oplysninger om system under test (SUT).....
- 2.3 Oplysninger om resultatet af testen.....
- 3 TESTEN .....
- 3.1 Test af generelle krav .....
- 3.2 Test af krav til indhold og flow/arbejdsgange.....
- 3.3 Test af tekniske krav .....

- 1 Introduction
  - 1.1 Purpose
  - 1.2 Preconditions for test
  - 1.3 Tools
  - 1.4 Test examples
  - 1.5 Materials
  - 1.6 Test result
- 2 Information about the vendor
- 3 The test
  - 3.1 Test for general requirements
  - 3.2 Test for content and flow
  - 3.3 Test for technical requirements



# 1.1 Purpose

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### **1.1 Purpose**

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1.3 Tools

1.4 Test examples

1.5 Materials

1.6 Test result

## 2 Information about the vendor

## 3 The test

3.1 Test for general requirements

3.2 Test for content and flow

3.3 Test for technical requirements

To ensure that the vendor has implemented HospitalNotification in a satisfactory way

- Flows
- Content
- Receipts
- Linked messages
- Cancellations and corrections
- Etc.

# 1.2 Preconditions for test

## 1 Introduction

### 1.1 Purpose

### **1.2 Preconditions for test**

### 1.3 Tools

### 1.4 Test examples

### 1.5 Materials

### 1.6 Test result

## 2 Information about the vendor

## 3 The test

### 3.1 Test for general requirements

### 3.2 Test for content and flow

### 3.3 Test for technical requirements

1. The vendor has read the standard documentation and syn&com rules
2. The vendor has created some predefined test persons ready for test
3. The vendor has performed a successful self-test, including completed non-failed **Touchstone test suites**

# 1.3 Tools

## 1 Introduction

1.1 Purpose

1.2 Preconditions for test

### **1.3 Tools**

1.4 Test examples

1.5 Materials

1.6 Test result

## 2 Information about the vendor

## 3 The test

3.1 Test for general requirements

3.2 Test for content and flow

3.3 Test for technical requirements

MedCom HospitalNotification Validation Package

FHIR server with MedCom profiles

**TouchStone**

# 1.4 Test examples

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1.2 Preconditions for test

1.3 Tools

**1.4 Test examples**

1.5 Materials

1.6 Test result

## 2 Information about the vendor

## 3 The test

3.1 Test for general requirements

3.2 Test for content and flow

3.3 Test for technical requirements

TouchStone test examples

Test examples for the manual test

Test persons

# 3.2 Test for content and flow

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1.3 Tools

1.4 Test examples

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1.6 Test result

## 2 Information about the vendor

## 3 The test

3.1 Test for general requirements

**3.2 Test for content and flow**

3.3 Test for technical requirements

## 3.2 Test for content and flow


Purpose: To ensure that the implementation of the standard meets the business requirements for workflow and content

+ receipts

+ cancellations and corrections




# 3.2 Test for content and flow

USE CASES  
HospitalNotification



MedCom  
Version 1.0.2 – 25.02.2021  
**medcom**

2 Patient journeys and use cases

	Patient status	Sender 	Receiver 
Patient journey		Use cases	Use cases
<b>Start of hospital stay</b>			
The patient is admitted	STIN	S1	K1
The patient is in an emergency outpatient setting at the hospital	STAA	S2	K2
<b>Leave</b>			
The patient goes on leave from hospital stay	STOR	S4	K4
The patient returns to the hospital after leave	SLOR	S5	K5
The patient is absent after leave	SLHJ	S4	K3
<b>Transfers</b>			
The patient is transferred to another department at the same hospital	STIN	S6.1 S6.2	No notification
The patient is transferred to another hospital in the same region	STIN	S7.1a S7.2	K7
Transport responsibility: Hospital			
The patient is transferred to another hospital in the same region	SLHJ STIN	S7.1b S7.2	K3 K1
Transport responsibility: Patient			
The patient is transferred to another hospital in another region	STIN	S8.1a S8.2	K8
Transport responsibility: Hospital			
The patient is transferred to another hospital in another region	SLHJ STIN	S8.1b S8.2	K3 K1
Transport responsibility: Patient			
The acute ambulant patient is admitted	STIN	S10	K10
<b>End of hospital stay</b>			
The patient is discharged to home	SLHJ	S3	K3
The patient is discharged to hospice	SLHJ <sup>1</sup>	As a transfer S7.1 – S8.1	As a transfer K7-K8
Manually end the patient's hospital stay (municipality)	-	-	K11
<b>Death</b>			
The patient dies upon arrival at the hospital	MORS	S9.1	K9.1
The patient dies at the hospital	MORS	S9.2	K9.1
The patient dies during leave	MORS	S9.3	K9.2

# 3.2 Test for content and flow

## Overview of test cases and references to test steps, test data and use cases

Case	Test steps	Test data/FHIR example files	Reference til use cases
Start of hospital stay			
The citizen is in an emergency outpatient setting	2.1-2.4	[STAA_1]	K2
The citizen is admitted	2.5-2.8	[STIN_1]	K1
The acute ambulant citizen is admitted	2.9-2.12	[STAA_2] [STIN_2]	K10
Transfers			
The citizen is admitted in another hospital in the same region	2.13-2.16	[STIN_3] [STIN_4]	K7
The citizen is admitted in another hospital in another region	2.17-2.20	[STIN_5] [STIN_6]	K8
Leave			
The citizen goes on leave	2.21-2.25	[STIN_7] [STOR_1]	K4
The citizen returns from leave	2.26-2.29	[SLOR_1]	K5
...	...	...	...

# 3.2 Test for content and flow

## Overview of test cases and references to test steps, test data and use cases

Case	Test steps	Test data/FHIR example files	Reference til use cases
Start of hospital stay			
The citizen is in an emergency outpatient setting	2.1-2.4	[STAA_1]	K2
The citizen is admitted	2.5-2.8	[STIN_1]	K1
The acute ambulant citizen is admitted	2.9-2.12	[STAA_2] [STIN_2]	K10
Transfers			
The citizen is admitted in another hospital in the same region	2.13-2.16	[STIN_3] [STIN_4]	K7
The citizen is admitted in another hospital in another region	2.17-2.20	[STIN_5] [STIN_6]	K8
Leave			
The citizen goes on leave	2.21-2.25	[STIN_7] [STOR_1]	K4
The citizen returns from leave	2.26-2.29	[SLOR_1]	K5
...	...	...	...



# 3.2 Test for content and flow

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The citizen returns from leave	2.26-2.29	[SLOR_1]	K5
...	...	...	...

# 3.2 Test for content and flow

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The citizen returns from leave	2.26-2.29	[SLOR_1]	K5
...	...	...	...

# 3.2 Test for content and flow

## Overview of test cases and references to test steps, test data and use cases

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The citizen is admitted in another hospital in the same region	2.13-2.16	[STIN_3] [STIN_4]	K7
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Leave			
The citizen goes on leave	2.21-2.25	[STIN_7] [STOR_1]	K4
The citizen returns from leave	2.26-2.29	[SLOR_1]	K5
...	...	...	...

## 3.2 Test for content and flow

Step	Action	Test data	Expected outcome	Actual outcome	Assessment
<b>HospitalNotification - admission</b>					
1.	Indlæs testdata og vis: <ol style="list-style-type: none"> <li>1) hvordan SUT-bruger gøres opmærksom på modtagelse af HospitalNotification [STIN]</li> <li>2) at HospitalNotification [STIN] lander på korrekt borger</li> </ol>	FHIR eksempel-fil [STIN_1]	SUT-bruger kan se, at der er modtaget HospitalNotification af typen: "START sygehusophold – Indlagt"  HospitalNotification [STIN] er landet på korrekt borger.		
1.	...	...	...		
<b>HospitalNotification - transfers</b>					
1.	Borgeren er indlagt på nyt sygehus i samme region  Indlæs først FHIR eksempel-fil [STIN_3]	FHIR eksempel-fil [STIN_3]	SUT-bruger kan se, at der er modtaget HospitalNotification af typen: "START sygehusophold – Indlagt"  HospitalNotification [STIN] er landet på korrekt borger.		
1.	...	...	...		
<b>HospitalNotification – start and end leave</b>					

## 3.2 Test for content and flow

Step	Action	Test data	Expected outcome	Actual outcome	Assessment
<b>HospitalNotification - admission</b>					
1.	Indlæs testdata og vis:  1) hvordan SUT-bruger gøres opmærksom på modtagelse af HospitalNotification [STIN] 2) at HospitalNotification [STIN] lander på korrekt borger	FHIR eksempel-fil [STIN_1]	SUT-bruger kan se, at der er modtaget HospitalNotification af typen: "START sygehusophold – Indlagt"  HospitalNotification [STIN] er landet på korrekt borger.		<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <ul style="list-style-type: none"> <li>- Import</li> <li>- Content</li> <li>- Flow</li> </ul> </div>
1.	...	...	...		
1.	Vis, at SUT har afsendt en automatisk indlæggelsesrapport ( <b>XDIS16</b> ) på borgeren, og at dette er synligt for SUT-bruger.	Fortsættelse af 2.1	Der er afsendt en automatisk indlæggelsesrapport ( <b>XDIS16</b> ) på borgeren. Dette er synligt for SUT-bruger.		<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;">XDIS16</div>
1.	Vis, at SUT har sendt <b>positiv kvittering</b> indlejret korrekt i en VANSEnvelope	Fortsættelse af 2.1	Kvittering indeholder et FHIR response med korrekt status metadata og referencer og er indlejret korrekt i en VANSEnvelope		<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;">Receipts</div>

## 3.2 Test for content and flow

Step	Action	Test data	Expected outcome	Actual outcome	Assessment
<b>HospitalNotification - admission</b>					
1.	...	...	...		
<b>Cancellation of HospitalNotification</b>					
1.	Modtag advisering om fejlagtigt sendt avis (HospitalNotification [STIN] sendt på forkert borger)  Indlæs først FHIR eksempelfil [STIN_12]	FHIR eksempelfil [STIN_12]	SUT-bruger kan se, at der er modtaget HospitalNotification af typen: "START sygehusophold – Indlagt  HospitalNotification [STIN] er landet på korrekt borger.		Cancellations
1.	...	...	...		
<b>Correction of HospitalNotification</b>					
1.	Modtag advisering om rettelse til modtaget HospitalNotification [STIN] (forkert tidspunkt for start af indlæggelse)  Indlæs først FHIR eksempelfil [STIN_14]	FHIR eksempelfil [STIN_14]	SUT-bruger kan se, at der er modtaget HospitalNotification af typen: "START sygehusophold – Indlagt  HospitalNotification [STIN] er landet på korrekt borger.		Corrections
1.	...	...	...		

# Summing up/highlights

- New tool (TouchStone) to be used during self-test and manual test
- The test is divided into three subsections
  - Test for general requirements
  - Test for content and flow
  - Test for technical requirements
- “Tests for content and flow” are related to use cases already defined
  - + XDIS16
  - + receipts
  - + cancellations and corrections
- Test protocol for sending parties of HospitalNotification will be structured in the same way

# Table of content

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1.2 Preconditions for test

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1.6 Test result

## 2 Information about the vendor

## 3 The test

**3.1 Test for general requirements**

3.2 Test for content and flow

**3.3 Test for technical requirements**



# Preconditions for test - technically

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### **1.2 Preconditions for test**

### 1.3 Tools

### 1.4 Test examples

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### 1.6 Test result

## 2 Information about the vendor

## 3 The test

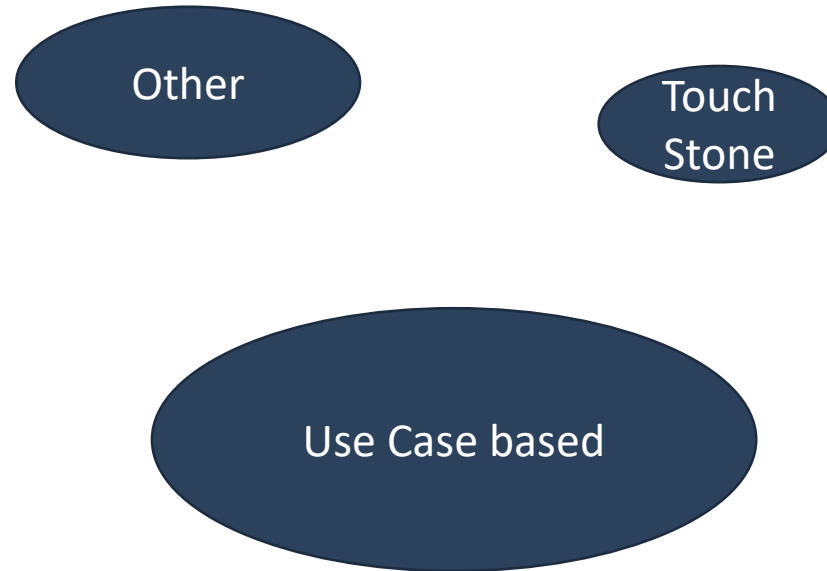
### 3.1 Test for general requirements

### 3.2 Test for content and flow

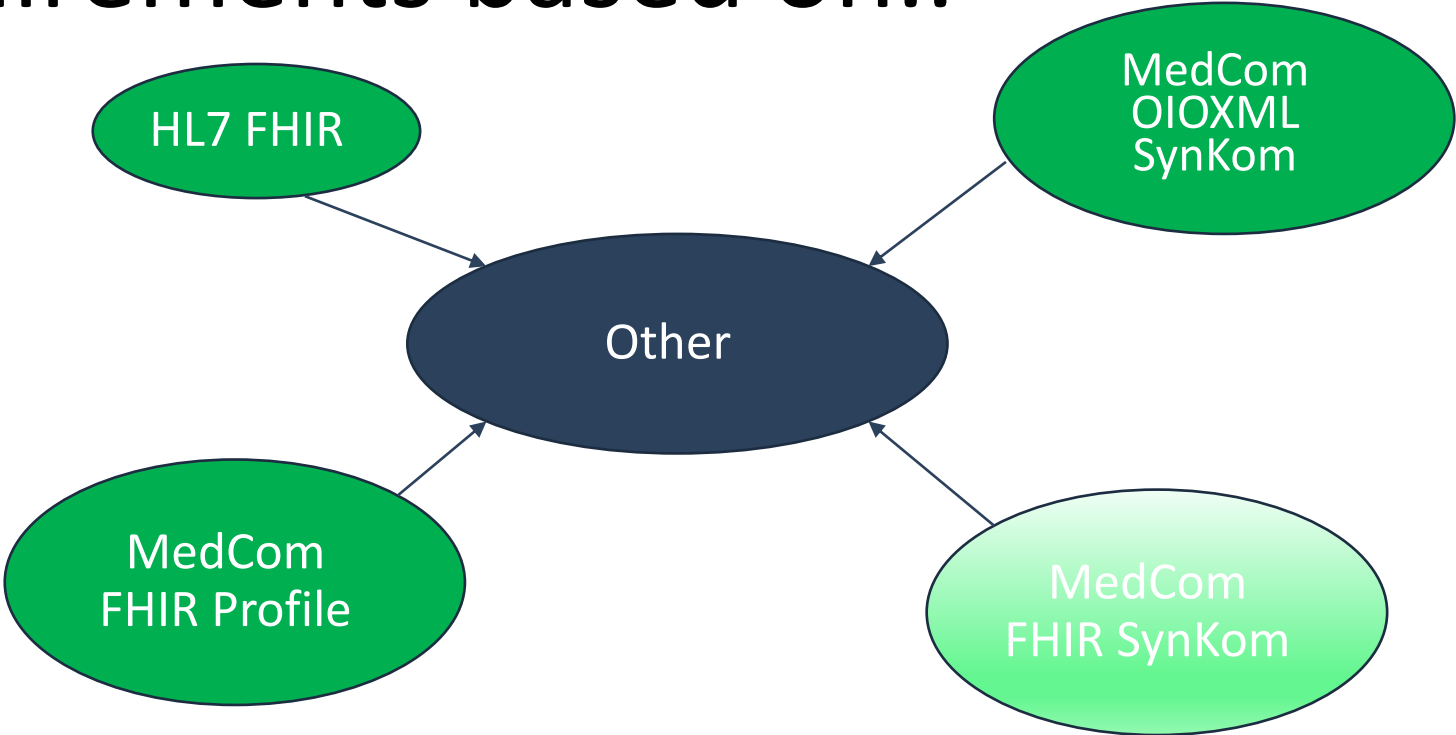
### 3.3 Test for technical requirements

4. The FHIR responses shall be transmitted embedded in a VANSEnvelope

# Technical Requirements Overview



# Requirements based on..



# General Requirement

- As usual a test showing that the SUT(System Under Test) is able to receive FHIR messages and show the content in the UI
- A TouchStone Test Suite link to a successful result



# Technical Requirements section

- Some test are only for the final test and certification session, it will be noted in the teststep if the test is not part of the “selftest”.
- Some teststep is just describing how messages are handled
- Test that linked messages are correct displayed in the UI
- Test that corrections and errors are handled correct

# Technical Requirements tests

- Test correct map between a FHIR HospitalNotification and XDIS16
- Test that the EOJ system is able to handle a wrong FHIR message order
- Test more complex corrections and errors
- Test that EOJ handles replicate correct
- Test that EOJ is unable to show hospital contact of unknown citizen

# Testing

Touchstone and local testing

/Anders Jensen anj@medcom.dk



# Agenda

---

- Touchstone
  - Test Suites
  - Background documents
  - License
  - Hands on workshop
- FHIR validation
  - Local validation
  - Fhir.medcom.dk



# Touchstone (TS)



# TS test flows

- <https://touchstone.aegis.net/touchstone/conformance/suites?name=FHIR4-0-1-Hospitalnotification-sent-Client>
- 18 test scripts with 2-4 test steps included each = SUT must generate between 36-72 Hospitalnotification instances.
- Test scope EpisodeOfCare, Proverence and Encounter.Identifier
- Overall Validation will be enabled later.
- Send suggestions please – fhir@medcom.dk

# TS- Background documents

## Background documents

**-spreadsheet of Userflows:** <https://github.com/hl7dk/dk-medcom/raw/master/doc/message/common/Touchstone%20User%20Flows.xlsx>

**-Use cases:** [https://github.com/hl7dk/dk-medcom/raw/master/doc/message/HospitalNotification/published/Use%20cases Hospital%20Notification eng.pdf](https://github.com/hl7dk/dk-medcom/raw/master/doc/message/HospitalNotification/published/Use%20cases%20Hospital%20Notification%20eng.pdf)

**-Notification codes:** [https://github.com/hl7dk/dk-medcom/raw/master/doc/message/HospitalNotification/published/Over-sigt adviskoder HL7 FHIR.pdf](https://github.com/hl7dk/dk-medcom/raw/master/doc/message/HospitalNotification/published/Over-sigt%20adviskoder%20HL7%20FHIR.pdf)

# TS License

- Request a Touchstone “Starter” license from MedCom:  
[fhir@medcom.dk](mailto:fhir@medcom.dk) 1 license = Vendor  
Subscription options:  
<https://touchstone.aegis.net/touchstone/subscription>
- Buy a Touchstone Course and get 3-month Starter subscription  
<https://aegis.net/touchstonetraining.html>

# TS Hands on workshop

TS hands on workshop 26. May for Vendors – MedCom will invite you

- Test your own implementations or try Code examples provided by MedCom
- MedCom will make specific guides about how to use Touchstone.
- If your interested in Touchstone - Get a Touchstone presentation from Aegis (Touchstone) -send an e-mail to [fhir@medcom.dk](mailto:fhir@medcom.dk) with you contact information's and MedCom will provide Aegis with your information.

# Validation

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# Local Validation

<https://confluence.hl7.org/display/FHIR/Using+the+FHIR+Validator>  
(java cli tool )

Local HAPI server in Docker –get inspired:  
<https://github.com/hl7dk/dk-medcom-fhir-starter>

# Fhir.medcom.dk


Validation on fhir.medcom.dk – demo



Next step..

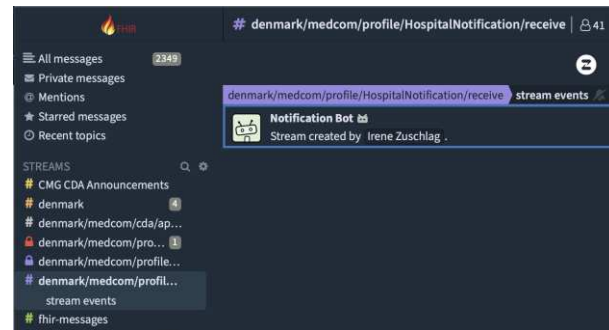
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# Test protocols – status (danish)

Test protocol	Send	Receive
HospitalNotification	Ultimo June	First draft 
CareCommunication	Ultimo June	Ultimo June

# Test protocols review process

- Test protocol for HospitalNotification – Receive: released in “Draft” version to day
- Review process during april 2021 – Please post comments on zulip before May 1st



- <https://chat.fhir.org/#narrow/stream/283119-denmark.2Fmedcom.2Fprofile.2FHospitalNotification.2Freceive>

# Zulip Question and FHIR MedCom News..

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