Test protocol for sending a

HomeCareObservation

05-04-24

The test protocol relates to the following standard:

|  |  |  |  |
| --- | --- | --- | --- |
| **Standard’s name ENG** | **Standard’s name DK** | **Version** | **Type** |
| Standard: HomeCareObservation | Kommunale Prøvesvar | v.1.0.0 | HL7 FHIR |

|  |  |  |  |
| --- | --- | --- | --- |
| **Versioning** | | | |
| **Version** | **Initials** | **Date** | **Description** |
| 1.0.0 | KRC/TMS | 05-04-24 | First Release |
|  |  |  |  |

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# Introduction

This is the test protocol for sending a HomeCareObservation (DK: Kommunale prøvesvar).

It is important to note that **HomeCareObservation** in the first place is part of the project [‘Kommunale prøvesvar på ny infrastruktur’](https://medcom.dk/projekter/kommunale-proevesvar-paa-ny-infrastruktur/) with the purpose of carrying out a **production trial**. Therefore, this test protocol will reflect the scope agreed upon with the Sender, and Receiver, of HomeCareObservation in the trial period. **This means that not all requirements in the standard may be part of this test protocol, e.g. the requirements for sending cancellations and corrections as well as sending attachments as part of the HomeCareObservation.**

Documentation concerning HomeCareObservation and Governance (see [Background material](#_Baggrundsmaterialer_1)) will be the subject of testing, and the test protocol will be continuously updated to reflect the requirements in the best way possible.

Versioning of the test protocol will follow the major- and minor-version of the standard but may have a patch version that is different from the standard’s patch-version.

**Regarding receiving an Acknowledgement:** Approval requires, that the system under test (SUT) is approved for receiving FHIR Acknowledgement (DK: Kvittering). This test is managed in a separate test protocol for [Acknowledgement](https://medcomdk.github.io/dk-medcom-acknowledgement/).

## Purpose

The test protocol forms the basis for the tests, which must ensure that SUT complies with the established rules and requirements for the standard. The test protocol also forms the basis for the self-test that vendor conducts prior to a live test.

## Prerequisites for live test

The following prerequisites must be met prior to the live test:

1. The vendor has read the following standard documentation:
   * [Clinical guidelines and documentation](#_Baggrundsmaterialer_1)
   * [Use cases](#_Baggrundsmaterialer_1)
   * [Implementation Guide](#_Baggrundsmaterialer_1)
   * [Governance](#_Baggrundsmaterialer_1)
   * And other relevant materials, cf. the [background material](#_Baggrundsmaterialer_1).
2. The vendor has performed [self-test](#_Documentation_of_self-test) that are approved by MedCom.
3. The vendor has created the [relevant test person](#_Test_examples_and)s in SUT. Please note that one of these test persons must be a citizen with an E-cpr (a replacement personal identification number) in SUT.
4. The vendor uses the same version of SUT during self-test and live test.
5. Approval requires that SUT is approved for receiving FHIR-Acknowledgement (DK: Kvittering).

## Documentation of self-test

**Self-test**

**Prior to the test, the vendor must have performed self-test, including successfully completed TouchStone self-tests, which are approved by MedCom.**

The self-test is documented by the vendor completing this test protocol.

For self-tests, only the following two columns must be completed by the vendor:

* [Test data]: is filled in with the file name(s), which are uploaded and downloaded.
* [Actual result]: is filled in with the results of the self-test and relevant descriptions.

The other columns are reserved for MedCom.

**During the self-test the vendor must document the test results by saving relevant files and screen dumps, and subsequently send these in a combined ZIP file (together with the completed test protocol) to [fhir@medcom.dk](mailto:fhir@medcom.dk).**

All files and screen dumps must be named with:

* Standard name
* The number of the relevant test step
* Consecutive letter
* File type

Example: HomeCareObservation\_3.4\_A.xml

## Background material

| **Name** | **Version** | **Link/reference** | **Description** |
| --- | --- | --- | --- |
| HomeCareObservation Documentation site |  | <https://medcomdk.github.io/dk_HomeCareObservations/> | Documentation site with references to all relevant documentation, including:   * Clinical guidelines and documentation (DK: Sundhedsfaglig dokumentation) * Use cases * Technical specifications |
| HomeCareObservation Implementation Guide |  | <https://medcomfhir.dk/ig/homecareobservation/index.html> | The FHIR technical guidelines for the standard. |
| Governance for MedCom FHIR |  | <https://medcomdk.github.io/MedCom-FHIR-Communication/> | Governance for MedCom’s FHIR standards, which describes general rules for all MedCom standards and if relevant specific rules for the standards. |
| Acknowledgement documentation site |  | <https://medcomdk.github.io/dk-medcom-acknowledgement/> | Documentation site with references to all relevant documentation, including:   * Use cases (and matching test scripts) to be used in TouchStone * Technical specifications * Test protocols and test scripts |
| SOP for MedCom’s test and certification |  | <http://svn.medcom.dk/svn/qms/Offentlig/SOPer/SOP-7.2-MedComs%20test%20og%20certificering_godkendelse.docx> | Description of testing and certification of MedCom standards and other tests courses. |

## Test examples and test persons

|  |  |  |
| --- | --- | --- |
| **Name** | **Link/reference** | **Description** |
| Test examples | *In preparation* | Test examples used during the test and approval for the trial. |
| Overview of the test persons to be used | <https://www.medcom.dk/opslag/koder-tabeller-ydere/tabeller/nationale-test-cpr-numre> | Overview of national test personal identification numbers (DK: CPR-numre), that can be used during the test.    **Please notice**: During the test, the vendor must be able to use any of the test persons on the list. |

## Test tools

| **Name** | **Link/reference** | **Description** |
| --- | --- | --- |
| FHIR-server with MedCom-profiles | <https://fhir.medcom.dk/> | Public server that validates against MedCom's FHIR profiles. It is permitted to use the server for testing the upload/download of FHIR resources. |
| TouchStone | <https://touchstone.aegis.net/touchstone/> | Test tool for testing the FHIR standard.  The vendor can get access to TouchStone as an organisation- either through a license that MedCom supplies (inquiry at [fhir@medcom.dk](mailto:fhir@medcom.dk)), or a license that the vendor has acquired itself  Find [instructions for TouchStone](https://medcomdk.github.io/MedComLandingPage/assets/documents/TouchStoneGettingStarted.html) here |
| TouchStone test scripts | *In preparation* | Test scripts relevant for the standard.  Find [instructions for TouchStone](https://medcomdk.github.io/MedComLandingPage/assets/documents/TouchStoneGettingStarted.html) here |

## Test result

The result for each test step is categorised based on the table below:

| **Marking** | **F1** | **F2** | **F3** | **F4** | **Ok** | **Not relevant** |
| --- | --- | --- | --- | --- | --- | --- |
| **Evaluation** | **Critical** | **Serious** | **Significant** | **Less significant** | **Approved** | **Not an error** |

To get the test and certification approved, the test protocol must consist exclusively of [F4] as well as [OK] results. All [F1], [F2] and [F3] must, therefore be fixed prior to final approval.

When a test step isn’t relevant for the test course, it is noted with ‘Not relevant’.

Approval requires that SUT is approved for receiving FHIR Acknowledgement (DK: Kvittering).

For further information, please read [MedCom’s test og certification](#_Baggrundsmaterialer_1) .

# Information about vendor, system under test (SUT) and test result information

## Information about the vendor

This table must be completed by **the vendor** prior to the test.

|  |  |
| --- | --- |
| Company | Completed by vendor |
| Address | Completed by vendor |
| Contact person | Completed by vendor |
| Telephone | Completed by vendor |
| E-mail | Completed by vendor |

## Information about system under test (SUT)

This table must be completed by **the vendor** prior to the test.

|  |  |
| --- | --- |
| System | Completed by vendor |
| Version | Completed by vendor |
| Description | Completed by vendor |
| Test type | Self-test  Final test/certification |

## Information about the test result

Note: This table must be completed by MedCom when the test has been completed.

|  |  |
| --- | --- |
| Test date | 2023-01-01 |
| Test location | Completed by MedCom |
| Approved | Yes  No |
| Remarks | Completed by MedCom |
| Carried out by | Completed by MedCom. The name of the MedCom responsible (initials) for this test is inserted. |

# The Test

This section describes the requirements which SUT must meet before final approval.

The test is divided into three sections:

1. [Test of TouchStone test scripts](#_Test_of_TouchStone)
2. [Test of requirements for content and flow/workflows](#_Test_of_requirements)
3. [Test of technical requirements](#_Test_of_technical)

Test participants will be asked to complete tests as described in the tables.

## Documentation of the test

**Documentation of the test**

As valid documentation, the test participant or test manager must document completion by continuous screen dumps (.png/.jpeg) and/or files/log files (.xml/.json). **Before the test, it is agreed who is responsible for this.**

The following applies:

* The files must be viewable in a standard tool and must not require further processing by MedCom
* All files and screen dumps must be named with:
  + Standard name
  + The number of the relevant test step
  + Consecutive letter
  + File type

Example: HomeCareObservationn\_3.4\_A.xml

If the vendor has documented the test themselves, the files must be sent in a ZIP file to [fhir@medcom.dk](mailto:fhir@medcom.dk).

## Test of TouchStone test scripts

The purpose of these tests is to ensure that SUT generates HomeCareObservartion technically correct and complies with the rules in the [Implementation Guide](#_Baggrundsmaterialer_1).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test step #** | **Action** | **Test data/test person** | **Expected result** | **Actual result** | **MedCom assessment** |
|  | **Optional test step:**  Run all test scripts for use cases and user flows in TouchStone. |  | All test scripts completed without errors. |  | Choose |

## Test of requirements for content and flow/workflows

The purpose of these tests is to ensure that the standard is implemented with a satisfactory quality, i.e. that implementation meets the business requirements for flow and content, as described in the [clinical guidelines for application](#_Baggrundsmaterialer_1)  and [use case-material](#_Baggrundsmaterialer_1)s. These test steps are mainly for testing of the user interface.

As previously described, **HomeCareObservation is part of a production trial** and consequently this test protocol will reflect the scope agreed upon with the Sender, and Receiver, of HomeCareObservation in the trial period. **This means that not all requirements in the standard may be part of this test protocol, e.g. the requirements for sending cancellations and corrections as well as sending attachments as part of the HomeCareObservation.**

The table below lists the cases which are tested in relation to content and flow/workflows. The table contains references to the use cases and the test steps within this test protocol. Furthermore, the table indicates if the cases are mandatory or optional in the standard documentation and shows if they will be part of the production trail to be realized.

The table below lists the cases which are relevant in relation to content and flow/workflows. The cases marked with “N/R” will not be tested in this protocol, as they are not to be part of the production trial.

The table contains references to the use cases and the test steps within this test protocol. Furthermore, the table indicates if the cases are mandatory or optional in the standard documentation and shows if they will be part of the production trail to be realized.

| [**Use case**](#_Baggrundsmaterialer_1) | **Description** | **Section** | **Mandatory (M) / Optional (O)** | **Not relevant (N/R) in production trial** |
| --- | --- | --- | --- | --- |
| S1 | Send HomeCareObservation | 3.3.1 | M |  |
| S1.A1 | Send HomeCareObservation with attached files | NOT PART OF TEST PROTOCOL | M | N/R |
| S1.A2 | Send HomeCareObservation with a clinical comment | 3.3.2 | O |  |
| S1.A3 | Send HomeCareObservation with an analysis comment to a specific observation result | 3.3.3 | O |  |
| S1.A4 | Send HomeCareObservation with refused consent to share observation results | 3.3.4 | M |  |
| S.CANC | Cancel a sent HomeCareObservation | NOT PART OF TEST PROTOCOL | M | N/R |
| S.CORR | Correct a sent HomeCareObservation | NOT PART OF TEST PROTOCOL | M | N/R |

Table: Listing of the use cases for the standard

### S1: Send HomeCareObservation

| **Test step #** | **Action** | **Test data** | **Expected result** | **Actual result** | **MedCom-assessment** |
| --- | --- | --- | --- | --- | --- |
|  | Select a test patient and create a HomeCareObservation.  Demonstrate that SUT inserts information about the test patient in the message. |  | The test patient is selected, and a HomeCareObservation containing the following patient information has been created:   * Personal identification number (CPR) * Full Name |  | Choose |
|  | Create and/or choose observation(s) with numerical result.  Demonstrate that SUT includes required information about the observation(s). |  | Observation(s) with numerical result is created and/or inserted in HomeCareObservation  with following information:   * Observation code * Observation result * Unit (if relevant) * Observation not interpreted (DK: ikke reference vurderet) |  | Choose |
|  | Create and/or choose observation(s) with numerical result where including the comparator signs < and/or > is necessary.  Demonstrate that SUT includes required information about the observation(s). |  | Observation(s) with numerical result, including the comparator signs < and/or >, is created and/or inserted in HomeCareObservation  with following information:   * Observation code * Observation result, including the comparator sign < and/or > * Unit (if relevant) * Observation not interpreted (DK: ikke reference vurderet) |  | Choose |
|  | It is mandatory to include the observation(s) sampling date and time.  *It is recommended that SUT automatically inserts the date and time of entry as the observation(s) sampling date and time. The user must be able to change it if necessary.*  Demonstrate how SUT supports this recommendation. |  | HomeCareObservation contains the observation(s) sampling date and time:   * SUT automatically inserts the date and time of entry as the observation(s) sampling date and time. The user must be able to change it if necessary.   Or   * The user must add the sampling date and time for the observation(s). |  | Choose |
|  | Demonstrate that the required status information about the observation(s) and DiagnosticReport is included.  *It is a requirement that the observation status and DiagnosticReport status always must be “final”.* |  | SUT has inserted the status of the observation(s) and the status if the DiagnosticReport in HomeCareObservation  with following information:   * Observation status * DiagnosticReport status |  | Choose |
|  | Demonstrate that SUT automatically inserts producer information in the HomeCareObservation. |  | HomeCareObservation contains producer information:   * Producer-ID |  | Choose |
|  | Demonstrate that signature (author information) is added to the HomeCareObservation.  *It is recommended that SUT automatically inserts the signature of the author/sender of HomeCareObservation. It is also recommended that the user is able to change the telephone number added by SUT and insert a more relevant telephone number e.g. a specific number to the acute care team or to a specific nurse.* |  | HomeCareObservation contains signature information:   * Author’s name * Author’s Role * Relevant telephone number |  | Choose |
|  | Demonstrate that it is mandatory for the user to insert a receiver of the HomeCareObservation.  *It is recommended that the initials of the general practitioner are included (if known). If not, it is a requirement that a status code indicating that the initials are “unknown” is included.* |  | HomeCareObservation contains visible receiver and receiver information:   * Receiver name * Initials of the general practitioner (if known) OR status indicating that the initials are “unknown” |  | Choose |
|  | Demonstrate that SUT adds the required receiver information to the HomeCareObservation. |  | HomeCareObservation contains following receiver information:   * Ydernummer * Initials of the general practitioner (if known) OR status code indicating that the initials are “unknown” * GLN number * SOR-ID |  | Choose |
|  | Demonstrate that Sut includes the required timestamps. |  | HomeCareObservation contains the following timestamps:   * Observation sampling date and time * DiagnosticReport generation date and time * Sending date and time |  | Choose |
|  | Demonstrate that the message can be sent once the message reaches the requirements for content as well as maximum limitation of 100 MB. |  | The HomeCareObservation is sent correctly. |  | Choose |

### S1.A2: Send HomeCareObservation with a clinical comment

| **Test step #** | **Action** | **Test data** | **Expected result** | **Actual result** | **MedCom-assessment** |
| --- | --- | --- | --- | --- | --- |
|  | Select a test patient and create a HomeCareObservation.  Demonstrate that SUT inserts information about the test patient in the message. |  | The test patient is selected, and a HomeCareObservation containing the following patient information has been created:   * Personal identification number (CPR) * Full Name |  | Choose |
|  | Create and/or choose observation(s) with numerical result.  Demonstrate that SUT includes required information about the observation(s). |  | Observation(s) with numerical result is created and/or inserted in HomeCareObservation  with following information:   * Observation code * Observation result * Unit (if relevant) * Observation not interpreted (DK: ikke reference vurderet) |  | Choose |
|  | Create and/or choose observation(s) with alphanumerical result.  Demonstrate that SUT includes required information about the observation(s). |  | Observation(s) with alphanumerical result is created and/or inserted in HomeCareObservation  with following information:   * Observation code * Observation result * Observation not interpreted (DK: ikke reference vurderet) |  | Choose |
|  | It is mandatory to include the observation(s) sampling date and time.  *It is recommended that SUT automatically inserts the date and time of entry as the observation(s) sampling date and time. The user must be able to change it if necessary.*  Demonstrate how SUT supports this recommendation. |  | HomeCareObservations contains the observation(s) sampling date and time:   * SUT automatically inserts the date and time of entry as the observation(s) sampling date and time. The user must be able to change it if necessary.   Or   * The user must add the sampling date and time for the observation(s). |  | Choose |
|  | Demonstrate that it is possible for the user to write and/or insert a clinical comment in the HomeCareObservation. |  | The user has created and included the clinical comment in the HomeCareObservation. |  | Choose |
|  | Demonstrate that the required status information about the observation(s) and DiagnosticReport is included.  *It is a requirement that the observation status and DiagnosticReport status always must be “final”.* |  | SUT has inserted the status of the observation(s) and the status of the DiagnosticReport in HomeCareObservation  with following information:   * Observation status * DiagnosticReport status |  | Choose |
|  | Demonstrate that SUT automatically inserts producer information in the HomeCareObservation. |  | HomeCareObservation contains producer information:   * Producer ID |  | Choose |
|  | Demonstrate that signature (author information) is added to the HomeCareObservation.  *It is recommended that SUT automatically inserts the signature of the author/sender of HomeCareObservation. It is also recommended that the user is able to change the telephone number added by SUT and insert a more relevant telephone number e.g. a specific number to the acute care team or to a specific nurse.* |  | HomeCareObservation contains signature information:   * Author’s name * Author’s Role * Relevant telephone number |  | Choose |
|  | Demonstrate that it is mandatory for the user to insert a receiver of the HomeCareObservation. |  | HomeCareObservation contains visible receiver and receiver information:   * Receiver name * Initials of the general practitioner (if known) OR status indicating that the initials are “unknown” |  | Choose |
|  | Demonstrate that receiver information is added to the HomeCareObservation.  *It is recommended that the initials of the general practitioner are included (if known). If not, it is a requirement that a status code indicating that the initials are “unknown” is included.* |  | HomeCareObservation message contains following receiver information:   * Ydernummer * Initials of the general practitioner (if known) OR status code indicating that the initials are “unknown” * GLN number * SOR-ID |  | Choose |
|  | Demonstrate that the required timestamps are included. |  | HomeCareObservation contains the following timestamps:   * Observation sampling date and time * DiagnosticReport generation date and time * Sending date and time |  | Choose |
|  | Demonstrate that the message can be sent once the message reaches the requirements for content as well as maximum limitation of 100 MB. |  | The HomeCareObservation is sent correctly. |  | Choose |

### S1.A3: Send HomeCareObservation with an analysis comment

| **Test step #** | **Action** | **Test data** | **Expected result** | **Actual result** | **MedCom-assessment** |
| --- | --- | --- | --- | --- | --- |
|  | Select a test patient and create a HomeCareObservation.  Demonstrate that SUT inserts information about the test patient in the message. |  | The test patient is selected, and a HomeCareObservation containing the following patient information has been created:   * Personal identification number (CPR) * Full Name |  | Choose |
|  | Create and/or choose observation(s) with numerical result.  Demonstrate that SUT includes required information about the observation(s). |  | Observation(s) with numerical result is created and/or inserted in HomeCareObservation  with following information:   * Observation code * Observation result * Unit (if relevant) * Observation not interpreted (DK: ikke reference vurderet) |  | Choose |
|  | It is mandatory to include the observation(s) sampling date and time.  *It is recommended that SUT automatically inserts the date and time of entry as the observation(s) sampling date and time. The user must be able to change it if necessary.*  Demonstrate how SUT supports this recommendation. |  | HomeCareObservations contains the observation(s) sampling date and time:   * SUT automatically inserts the date and time of entry as the observation(s) sampling date and time. The user must be able to change it if necessary.   Or   * The user must add the sampling date and time for the observation(s). |  | Choose |
|  | Demonstrate that it is possible for the user to write and/or insert an analysis comment to specific observation(s) in the HomeCareObservation. |  | The user has created and included the analysis comment to specific observation(s) in the HomeCareObservation. |  | Choose |
|  | Demonstrate that the required status information about the observation(s) and the DiagnosticReport is included.  *It is a requirement that the observation status and DiagnosticReport status always must be “final”.* |  | SUT has inserted the status of the observation(s) and the status of the DiagnosticReport in HomeCareObservation  with following information:   * Observation status * DiagnosticReport status |  | Choose |
|  | Demonstrate that SUT automatically inserts producer information in the HomeCareObservation. |  | HomeCareObservation contains producer information:   * Producer ID |  | Choose |
|  | Demonstrate that signature (author information) is added to the HomeCareObservation.  *It is recommended that SUT automatically inserts the signature of the author/sender of HomeCareObservation. It is also recommended that the user is able to change the telephone number added by SUT and insert a more relevant telephone number e.g. a specific number to the acute care team or to a specific nurse.* |  | HomeCareObservation contains signature information:   * Author’s name * Author’s Role * Relevant telephone number |  | Choose |
|  | Demonstrate that it is mandatory for the user to insert a receiver of the HomeCareObservation. |  | HomeCareObservation contains visible receiver and receiver information:   * Receiver name * Initials of the general practitioner (if known) OR status indicating that the initials are “unknown” |  | Choose |
|  | Demonstrate that receiver information is added to the HomeCareObservation.  It is recommended that the initials of the general practitioner are included (if known). If not, it is a requirement that a status code indicating that the initials are “unknown” is included. |  | HomeCareObservation message contains following receiver information:   * Ydernummer * Initials of the general practitioner (if known) OR status code indicating that the initials are “unknown” * GLN number * SOR-ID |  | Choose |
|  | Demonstrate that the required timestamps are included. |  | HomeCareObservation contains the following timestamps:   * Observation sampling date and time * DiagnosticReport generation date and time * Sending date and time |  | Choose |
|  | Demonstrate that the message can be sent once the message reaches the requirements for content as well as maximum limitation of 100 MB. |  | The HomeCareObservation is sent correctly. |  | Choose |

### S1.A4: Send HomeCareObservation with refused consent to share observation results

| **Test step #** | **Action** | **Test data** | **Expected result** | **Actual result** | **MedCom-assessment** |
| --- | --- | --- | --- | --- | --- |
|  | Select a test patient and create a HomeCareObservation.  Demonstrate that SUT inserts information about the test patient in the message. |  | The test patient is selected, and a HomeCareObservation containing the following patient information has been created:   * Personal identification number (CPR) * Full Name |  | Choose |
|  | Create and/or choose observation(s) with numerical result.  Demonstrate that SUT includes required information about the observation(s). |  | Observation(s) with numerical result is created and/or inserted in HomeCareObservation  with following information:   * Observation code * Observation result * Unit (if relevant) * Observation not interpreted (DK: ikke reference vurderet) |  | Choose |
|  | It is mandatory to include the observation(s) sampling date and time.  *It is recommended that SUT automatically inserts the date and time of entry as the observation(s) sampling date and time. The user must be able to change it if necessary.*  Demonstrate how SUT supports this recommendation. |  | HomeCareObservations contains the observation(s) sampling date and time:   * SUT automatically inserts the date and time of entry as the observation(s) sampling date and time. The user must be able to change it if necessary.   Or   * The user must add the sampling date and time for the observation(s). |  | Choose |
|  | Demonstrate that the required status information about the observation(s) and DiagnosticReport is included.  *It is a requirement that the observation status and DiagnosticReport status always must be “final”.* |  | SUT has inserted the status of the observation(s) and the status of the DiagnosticReport in HomeCareObservation  with following information:   * Observation status * DiagnosticReport status |  | Choose |
|  | Demonstrate that SUT automatically inserts producer information in the HomeCareObservation. |  | HomeCareObservation contains producer information:   * Producer ID |  | Choose |
|  | Demonstrate that signature (author information) is added to the HomeCareObservation.  *It is recommended that SUT automatically inserts the signature of the author/sender of HomeCareObservation. It is also recommended that the user is able to change the telephone number added by SUT and insert a more relevant telephone number e.g. a specific number to the acute* *care team or to a specific nurse.* |  | HomeCareObservation contains signature information:   * Author’s name * Author’s Role * Relevant telephone number |  | Choose |
|  | Demonstrate that it is mandatory for the user to insert a receiver of the HomeCareObservation. |  | HomeCareObservation contains visible receiver and receiver information:   * Receiver name * Initials of the general practitioner (if known) OR status indicating that the initials are “unknown” |  | Choose |
|  | Demonstrate that receiver information is added to the HomeCareObservation.  *It is recommended that the initials of the general practitioner are included (if known). If not, it is a requirement that a status code indicating that the initials are “unknown” is included.* |  | HomeCareObservation message contains following receiver information:   * Ydernummer * Initials of the general practitioner (if known) OR status code indicating that the initials are “unknown” * GLN number * SOR-ID |  | Choose |
|  | Demonstrate that the patient refused consent to share the observation results.  *It is mandatory to insert information about a patients refused consent when the patient does not wish to share the observation results.*  *The patients general practitioner is always allowed to receive and see the results as the requester of the HomeCareObservation. However the patient can refuse consent to further share the observation results.* |  | SUT demonstrates registration of patients refused consent and displays that the patients refused consent is inserted in the HomeCareObservation. |  | Choose |
|  | Demonstrate that the required timestamps are included. |  | HomeCareObservation contains the following timestamps:   * Observation sampling date and time * DiagnosticReport generation date and time * Sending date and time |  | Choose |
|  | Demonstrate that the message can be sent once the message reaches the requirements for content as well as maximum limitation of 100 MB. |  | The HomeCareObservation is sent correctly. |  | Choose |

## Test of technical requirements

The purpose of these test steps is to ensure that the technical sending of HomeCareObservation is implemented with satisfactory quality, i.e. supports governance for message communication at a general level.

| **Test step #** | **Action** | **Test data** | **Expected result** | **Actual result** | **MedCom-assessment** |
| --- | --- | --- | --- | --- | --- |
| **E-CPR** | | | | | |
|  | Select a test patient with an E-cpr (a replacement personal identification number) and create a HomeCareObservation.  Complete the test steps 3.3.1.2– 3.3.1.11to create and send a HomeCareObservation with an E-cpr. |  | The test steps 3.3.1.2– 3.3.1.11has been completed and a HomeCareObservation, with an E-cpr, has been created and sent. |  | Choose |
| **Observation result limitation** | | | | | |
|  | Complete the test steps 3.3.1.1– 3.3.1.11to create and send a HomeCareObservation.  Make sure that a random observation is created as part of the test steps and demonstrate that the result of the observation cannot exceed the limit of 12 characters. |  | The test steps 3.3.1.2– 3.3.1.11has been completed and the observation cannot be created and/or inserted/sent in HomeCareObservation because the limit of 12 characters has been exceeded. |  | Choose |
| **Use of terminology** | | | | | |
|  | Explain how SUT uses terminology from MedCom’s terminology server. |  | For example: “SUT *has a local copy of relevant ValueSets. This is retrieved for SUT via MedCom’s terminology server*.” |  | Choose |
|  | Explain how terminology in SUT is updated. For example, if the list of observations codes is updated. |  | For example: “*It requires an update of the codes, which can be published with a new release*” |  | Choose |
|  | Use of terminology - Observation code and analysis long name  Create a random observation.  Demonstrate or account for how Observation code and analysis long name is added to the HomeCareObservation. |  | For example: *“SUT has a copy of the relevant valueSets and uses this to insert the observation code along with the analysis long name, in accordance with the inserted observation(s).”* |  | Choose |
| **Message embedding in SBDH-envelope (TO BE COMPLETED ALONG WITH TEST OF EHMI-INTEGRATIONS)** | | | | | |
|  | Correct message embedding in SBDH-envelope.  Create a HomeCareObservation containing information from test step 3.3.1.1 – 3.3.1.11 and demonstrate that the message is embedded correctly in a SBDH-envelope. |  | The HomeCareObservation message contains valid information and is correctly embedded in a envelop. |  | Choose |
| **Check of message size (Not relevant in production trial)**  As for example attachments not will be part of the production trial to be realized, it is not appropriate or necessary to check handling of too large a message size, as the limit for message size is 100 MB. | | | | | |