

CONCEPT EVS Scenarios Medication Scheme

- Abbreviations used
- Medication scheme
 - Read
 - Write
- Above testcases into categories:
 - Daily medication scheme
 - Weekly medication scheme
 - Patient or Caretaker print

Abbreviations used

Abbreviation	Meaning
SUT	Software Under Test
EVS	External Validation Tool, a reference test tool developed by imec's interop lab to facilitate testing for software vendors
MS	Medication Scheme
Sumehr	Summarised Electronic Healthcare Record
GP	General Practitioner

Medication scheme

During the execution of the tests, EVS will often be used. Whenever this is the case, a file will be made available for use in EVS and the test itself will explain which action to use.

The tests are generally split between reading tests and writing tests, each labeled with 'R-' and 'W-' respectively. Whenever a 'W-' test is finished, it is advisable to perform an EXPORT action with EVS. This will generate several files in the 'processed' folder and among these files is the validation file (with a .val extension). This file should not contain any validation fails.



If something is incorrect in these scenarios (e.g. medicationscheme doesn't work), send us an email at hie@imec.be with the necessary information. We'll sort it out as soon as possible.

Underneath READ and WRITE tests need to be executed in the Jira Test Management Suite where all test executions accompanied by their results, issues and screenshots are registered so a manual validation can be done by the HIE interop lab.

The software packages who generate their own print version of the medication scheme (for patient or caregiver) need to execute some extra tests and can be found in [this](#) block at the bottom of this page.

#	Test
S01	Basic testing of the usage of Kmehr tables
S02	Testing of the required combinations of frequency and day
S03	Testing of the interpretation of treatment suspensions
S06	Testing of the calculation of the endmoment for administration
S07	Testing of the identification of the medication
S08	Testing of the visualisation of the begincondition and endcondition
S09	Testing of the behaviour after uploading an empty scheme

S10	Testing of the behaviour when using discontinuous schemes
S11	Testing of the behaviour with unusual transaction builds
S12	Testing of the interpretation of temporality
S13	Testing of the behaviour with conflicting medicationschemes
S15	Testing which medication is shown with ' delivered ' medication
S16	Testing of the interpretation of fields with maximum characters
S17	Testing of the calculation of the daily medicationscheme
S18	Testing of the retention of the Kmehr Structure
S19	Testing of the sorting of the medication lines
S21	Testing of the synchronisation with the vault .
S22	Testing of the calculation of the weekly medicationscheme

All application that integrate with the regional vaults have to do these tests.

Read

The Read-tests are for applications that read medication schemes from the vault.

Write

The Write-tests are for applications that write medication schemes to the vault.

#	ID	Test
S 01	W-30	Writing CD-ADMINISTRATIONUNIT Minimal Change
S 01	W-35	Writing CD-DAYPERIOD Minimal Change
S 01	W-40	Writing CD-DRUG-ROUTE Minimal Change
S 01	W-45	Writing CD-PERIODICITY Minimal Change
S 01	W-50	Writing CD-ADMINISTRATIONUNIT Constructing From Scratch
S 01	W-55	Writing CD-DAYPERIOD Constructing From Scratch
S 01	W-60	Writing CD-DRUG-ROUTE Constructing From Scratch
S 01	W-65	Writing CD-PERIODICITY Constructing From Scratch
S 03	W-30	Writing Treatment Suspensions Minimal Change
S 09	W-15	Empty the medicationscheme using the application
S 10	W-25	Writing Discontinuous Minimal Change
S 11	W-15	Writing Gateway Validation Fails
S 11	W-25	Writing Single Validation Fail

#	ID	Test
S01	R-10	CD-ADMINISTRATIONUNIT
S01	R-15	CD-DAYPERIOD
S01	R-20	CD-DRUG-ROUTE
S01	R-25	CD-PERIODICITY
S02	R-10	Combined use of Frequency and Day
S03	R-10	MSE vs TS. MSE with endmoment
S03	R-15	MSE vs TS. MSE without endmoment
S03	R-20	TS vs TS. MSE with endmoment
S03	R-25	TS vs TS. MSE without endmoment
S06	R-10	The calculated endmoment
S07	R-10	Change medication name
S07	R-15	Change medication uri
S08	R-10	Combinations of begincondition and endcondition
S09	R-10	Testing of the behaviour after uploading an empty scheme
S10	R-10	Discontinuous with increasing quantities
S10	R-15	Discontinuous with decreasing quantities
S10	R-20	Discontinuous with treatment suspensions
S11	R-10	Reading Gateway Validation Fails
S11	R-20	Reading Single Validation Fail
S12	R-10	Temporality without alteration
S15	R-10	Intended vs Delivered Medication
S16	R-10	Reading fields with maximum characters
S19	R-10	Sorting Temporality
S19	R-15	Sorting Daily
S19	R-20	Sorting Weekly
S19	R-25	Sorting Monthly
S19	R-30	Sorting Yearly
S21	R-10	Reading updated scheme

S 12	W- 15	Temporality with alteration
S 13	W- 10	Collision altering different medication
S 13	W- 15	Collision altering same medication same field
S 13	W- 20	Collision altering same medication different field
S 13	W- 25	Collision adding medication
S 13	W- 30	Collision removing medication
S 14	W- 10	Reading and Writing with Connector and Gateway
S 16	W- 15	Writing fields with maximum characters
S 18	W- 10	Retaining Kmehr Structure
S 21	W- 15	Alteration new line
S 21	W- 20	Alteration delete line
S 21	W- 25	Alteration change line

Above testcases into categories:

Daily medication scheme

Every application that offers a daily medication scheme, have to perform these tests.

#	ID	Test
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S17	R-10	Daycalculation
S17	R-15	Daycalculation with Treatment Suspensions

Weekly medication scheme

Every application that offers a weekly medication scheme, have to perform these tests.

#	ID	Test
S22	R-10	Weekly scheme with daily medication
S22	R-15	Weekly scheme with medication every # days

Patient or Caretaker print

Every application that allows their local medication scheme (not synced with a vault) to be shown to the patient, has to perform these tests.

#	ID	Test
S20	R-10	Generate print after adding new line
S20	R-15	Generate print after altering existing line
S20	R-20	Generate print after adding private line
S20	R-25	Generate print after changing existing line to private
S04	R-10	General test of medication scheme information
S04	W-15	Medication scheme information after local modification
S04	W-20	Medication scheme information after removal of medication
S05	R-10	Visualisation of specific times
S05	W-15	Altering specific times
S09	R-10	Behaviour with empty medicationscheme