compliant concept

MCM-Service Installation

Integration with RAIsoft ePDok – Manual

Release Date: 30.06.2022

INS-000061.en – 1.1.1

Content

1. Scope

This document describes the installation procedure for the software interface "MCM-Service".

MCM-Service is a REST-API for the Mobility & Care Manager database. This enables the integration into 3rd party applications such as RAIsoft ePDok.

Installation of the Mobility & Care Manager application is not covered by this document (→ see M-000011).

2. Terms

Term	Meaning
MCM	Mobility & Care Manager
DB	Database
MCM-Service	Product name of the REST-service
epDok	Nursing documentation software from RAIsoft

3. Preparation

3.1. Update Mobility & Care Manager

Make sure that the latest revision of MCM is installed.

3.2. DB Backup

Take a backup of the database. By default, the DB is named "MobilityMonitoring".

3.3. License for MCM-Service

Apply for an online license for the MCM-Service.

4. Installation procedure

4.1. Installation preparation

- An older Version of MCM-Service is installed
  - Stop then existing Service
  - Deinstall the existing Service
- Make sure **.Net Core 3.1** and **ASP.NET Core Runtime 3.1** are installed

4.2. Run preparation script

When updating from a MCM version < 1.2.6.0, then there are no Patient numbers. This provides a way to mark all existing patients with a dummy "number" string (e.g., 'MCM').

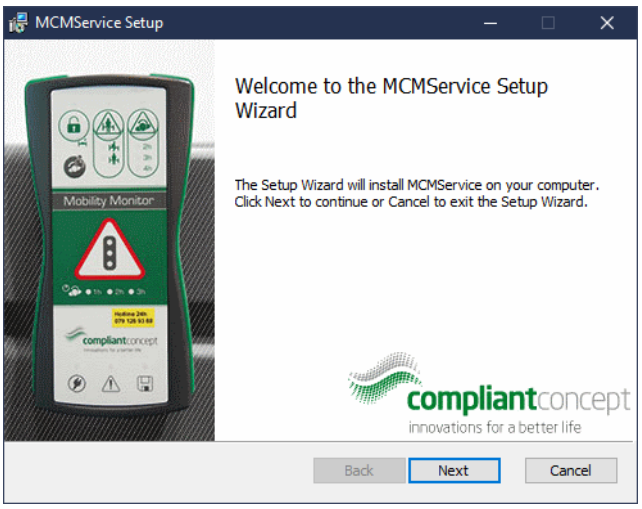
```
Update [dbo].[Patient]
set [PatientNumber] = 'MCM', [Lastname] = [Lastname]+'_'
where [PatientNumber] = null or [PatientNumber] = '';

select p.Lastname, p.Firstname, p.PatientNumber from [dbo].[Patient] p;
```

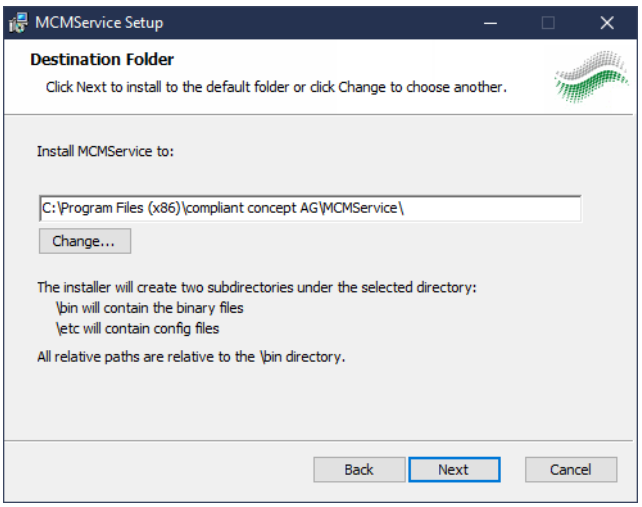
Script_Merge-Patients_01Preparation.sql

4.3. Install MCM-Service

Run the setup wizard for the MCM-Service on the application server.

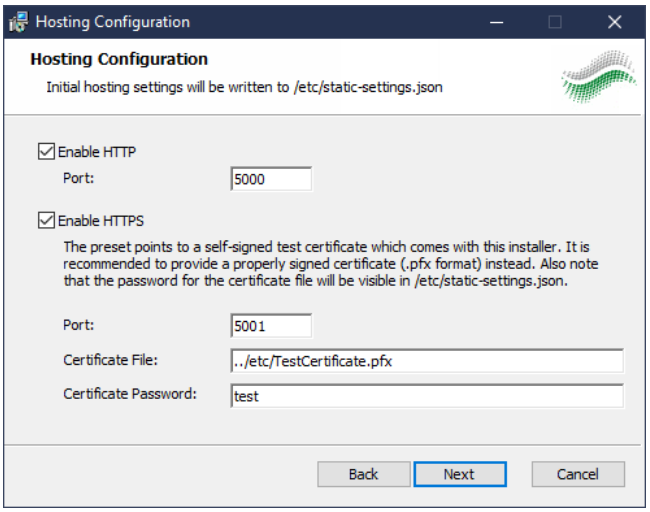


Click Next



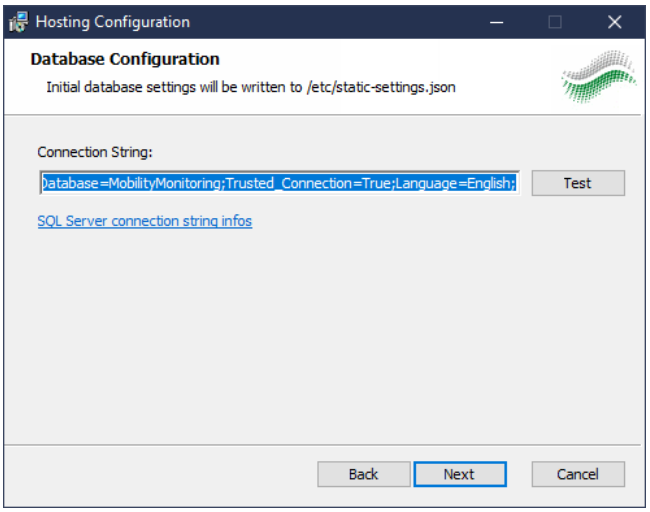
If necessary, you can adjust the installation folder here.

Then click Next.



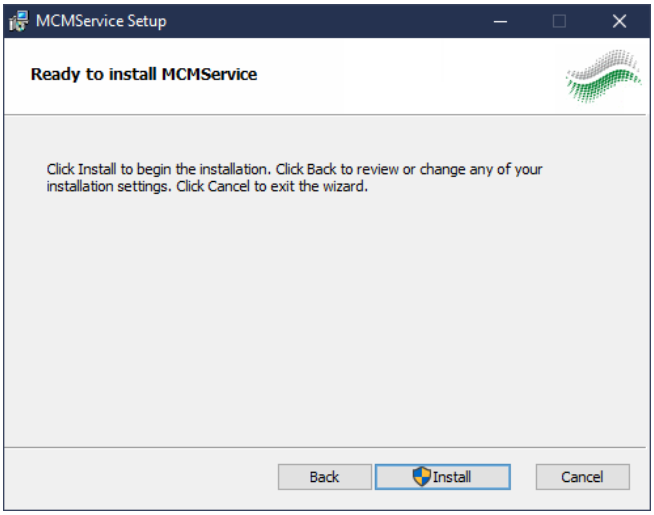
Enable HTTP and adjust the Port.

Then click Next.

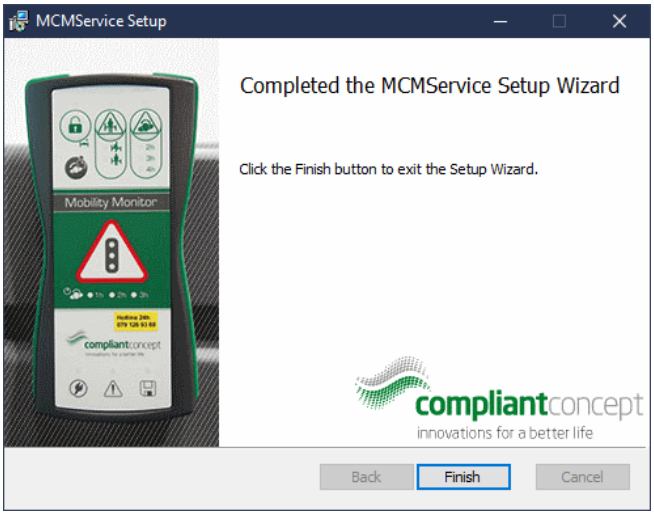


If necessary, Adjust the connection String.

Then click Next.



Click Install.



Click Finish.

4.4. Open Firewall

Open ports 5000 – 5001 for incoming TCP traffic on the server.

4.5. Test service installation

In a web browser, enter the URL of the newly installed MCM-Service.
Example: http://localhost:5000/swagger

5. Integration with ePDok

5.1. Admin settings in ePDok

Enter the MCM-Service endpoint in the ePDok settings.
When successful, then the wards (departments) and patients from ePDok are synchronized to Mobility & Care Manager.

5.2. Check Patient list in in MCM

Check if for each patient in the Mobility & Care Manager database, there are two entries. One with the dummy patient number 'MCM' from the preparation script in step → 4.1.

5.3. Merge patients in database

Run the following script:

```
/* Merge Patients from MCM with Patients synced by MCM-Service -- STEP 2 */

/* Move all data assigned to patient
   from: Patient with Lastname ending with '_'
   to: Patient with same Lastname and Firstname and Patientnumber is not 'MCM'
 */

-- Move Data
update [dbo].[MonitoringFile]
set [PatientId] = pRai.[PatientId]
from Patient pRai
join Patient pMCM on (substring(pMCM.Lastname, 0, len(pMCM.Lastname)) = pRai.Lastname
and pMCM.Firstname = pRai.Firstname)
where pRai.PatientNumber not like 'MCM' and [MonitoringFile].PatientId =
pMCM.PatientId;

-- Move Comments
update [dbo].[Comment]
set [PatientId] = pRai.[PatientId]
from Patient pRai
join Patient pMCM on (substring(pMCM.Lastname, 0, len(pMCM.Lastname)) = pRai.Lastname
and pMCM.Firstname = pRai.Firstname)
where pRai.PatientNumber not like 'MCM' and [Comment].PatientId = pMCM.PatientId;

-- Move [dbo].[CustomMonitoringEvent]
update [dbo].[CustomMonitoringEvent]
set [PatientId] = pRai.[PatientId]
from Patient pRai
join Patient pMCM on (substring(pMCM.Lastname, 0, len(pMCM.Lastname)) = pRai.Lastname
and pMCM.Firstname = pRai.Firstname)
where pRai.PatientNumber not like 'MCM' and [CustomMonitoringEvent].PatientId =
pMCM.PatientId;

-- Move [dbo].[Event]
update [dbo].[Event]
set [PatientId] = pRai.[PatientId]
from Patient pRai
join Patient pMCM on (substring(pMCM.Lastname, 0, len(pMCM.Lastname)) = pRai.Lastname
and pMCM.Firstname = pRai.Firstname)
where pRai.PatientNumber not like 'MCM' and [Event].PatientId = pMCM.PatientId;
```

```
-- Move [dbo].[MobilityToleranceSettings]
update [dbo].[MobilityToleranceSettings]
set [PatientId] = pRai.[PatientId]
from Patient pRai
join Patient pMCM on (substring(pMCM.Lastname, 0, len(pMCM.Lastname)) = pRai.Lastname
and pMCM.Firstname = pRai.Firstname)
where pRai.PatientNumber not like 'MCM' and [MobilityToleranceSettings].PatientId =
pMCM.PatientId;

-- Move [dbo].[Observation]
update [dbo].[Observation]
set [PatientId] = pRai.[PatientId]
from Patient pRai
join Patient pMCM on (substring(pMCM.Lastname, 0, len(pMCM.Lastname)) = pRai.Lastname
and pMCM.Firstname = pRai.Firstname)
where pRai.PatientNumber not like 'MCM' and [Observation].PatientId = pMCM.PatientId;

-- Move [dbo].[Observation]
update [dbo].[Observation]
set [PatientId] = pRai.[PatientId]
from Patient pRai
join Patient pMCM on (substring(pMCM.Lastname, 0, len(pMCM.Lastname)) = pRai.Lastname
and pMCM.Firstname = pRai.Firstname)
where pRai.PatientNumber not like 'MCM' and [Observation].PatientId = pMCM.PatientId;
```

Script_Merge-Patients_02.sql

5.4. Cleanup

Run the following script to cleanup the database.

```
/* Merge Patients from MCM with Patients synced by MCM-Service -- STEP 3 */

/* cleanup after Merging Patients */
/* delete Patients where Lastname ends with '_' and PatientNumber = 'MCM' */

-- select Patients without data (and PatientNumber is 'MCM'):
select p.PatientNumber, p.Lastname, p.Firstname, f.* from Patient p
left join dbo.MonitoringFile f on f.PatientId = p.PatientId
where MonitoringFileId is null and p.PatientNumber = 'MCM'
order by p.Lastname asc;

-- now delete!
delete p
from Patient p
left join dbo.MonitoringFile f on f.PatientId = p.PatientId
where MonitoringFileId is null
      and Lastname like '%_' and PatientNumber = 'MCM';

-- remove PatientNumber "MCM":
update Patient
set PatientNumber = null
where PatientNumber = 'MCM';
```

Script_Merge-Patients_02.sql