



MY SIRIUS SERVER INSTALLATION PROCEDURE



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I. Description

This document describes JRI MySirius installation on a single server. For a multi-server installation please see section IV.

MySirius is built on of 3 main features:

- The SQL database
- The web application
- Services:
 - Treatment of measurement, alarms and maintenance (reporting)
 - Dispatcher (Central Exchange Engine): Manages all the inputs from devices to allow communication with the different elements of the application (web application and services).

If one the listed features above should be installed on a separate server, the installation procedure remains the same; but all the servers should communicate together to allow data access and exchange between the different components.

II. Prerequisites

1. Operating system:

- Windows Server 2012 R2 / Windows Server 2016 / Windows 10 / Windows Server 2019
- IIS Web Server version 8 minimum
- SQL Server Express 2014 or higher version
- Microsoft Framework.NET 4.7.2 or higher version
- Access to SMTP server for email alerts
- Access to a MultiTech GSM Router for text messages alerts

2. Server configuration:

- **Processor:** 2 cores minimum 2,6GHz
 - **RAM:** 8 GB (4 GB is the minimum required for a small installation, ex: 10 units)
 - **Hard disk:** 4 GB for the installation + 10 GB maximum for stored data.
- (Microsoft SQL Server Express manages 1 physical processor, 1 GB RAM and 10 GB DATA storage)

3. Customer's Network:

- Allow TCP/IP communications on Port 13251:
 - Incoming traffic: in case of single server installation (can be changed in MySirius Configuration)
 - Incoming/Outgoing traffic: in case of multi-server installation. The Services and the IIS Web server should have access to the Dispatcher.
- Allow TCP/IP communications on Port 13252 (Incoming traffic) for configurations with LoRa devices (can be changed in MySirius Configuration)
- Allow customer SMTP server access for email alerts sending
- Allow communication with a Multitech GSM router for text message alerts sending

III. MySirius Server installation procedure

The procedure can be completed in 5 main steps with an Administrator account on the server:

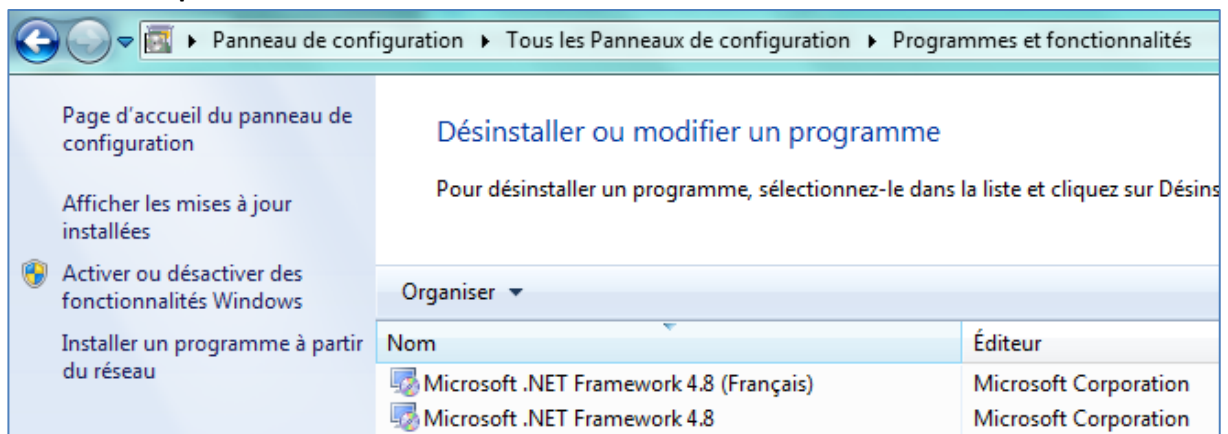
1. IIS Web Server installation
2. SQL server Express installation
3. Data Base restoration with a pre-configuration file.
4. Run the installation tool “MySiriusConfiguration.exe” (see folder InstallationApp)
5. Access to the WEB page and management of the software License.

1. Setup Microsoft.NET Framework 4.7.2 (or later version)

Check the installation of the Framework.NET 4.7.2 before activating IIS.

Control Panel → Programs

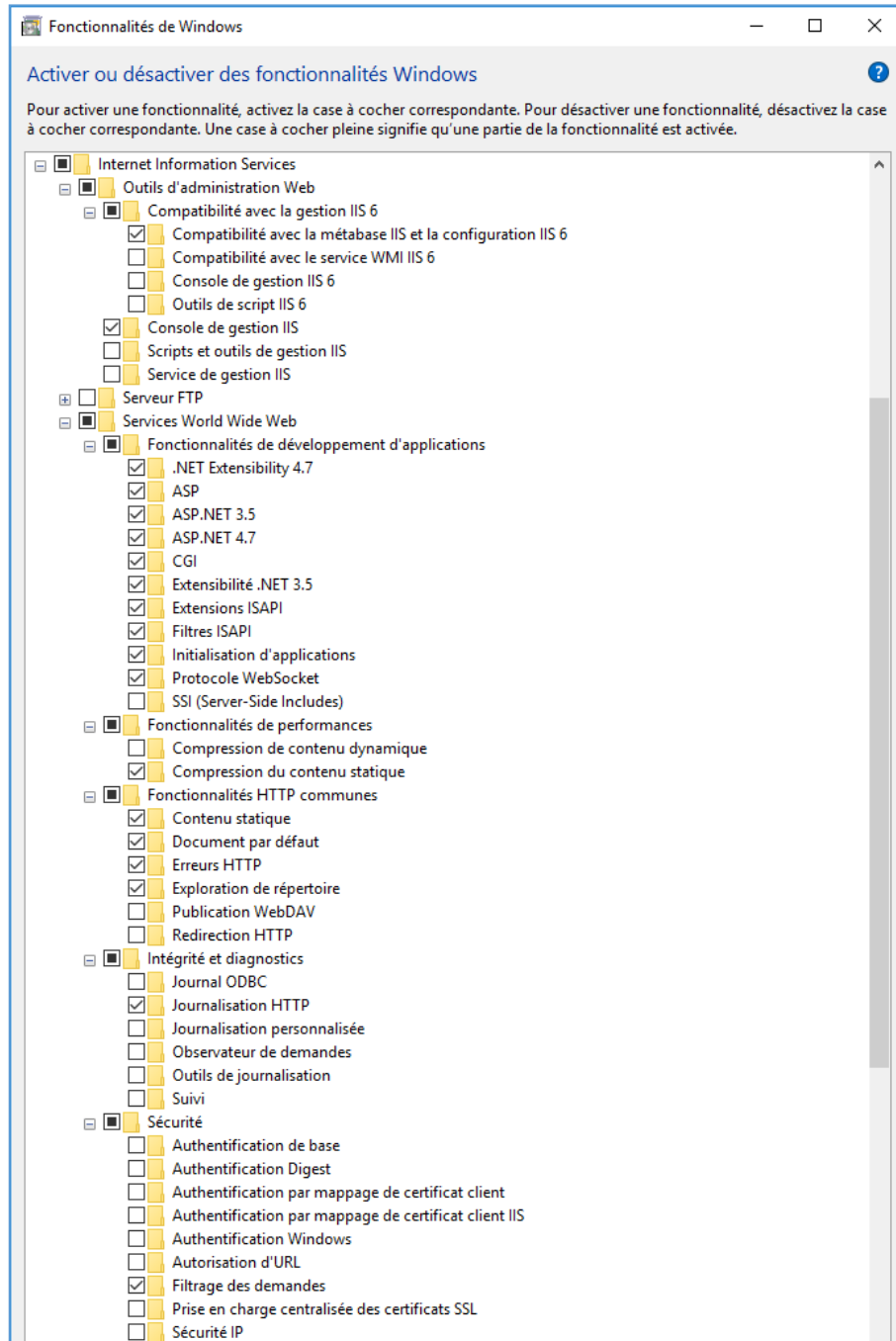
Example:



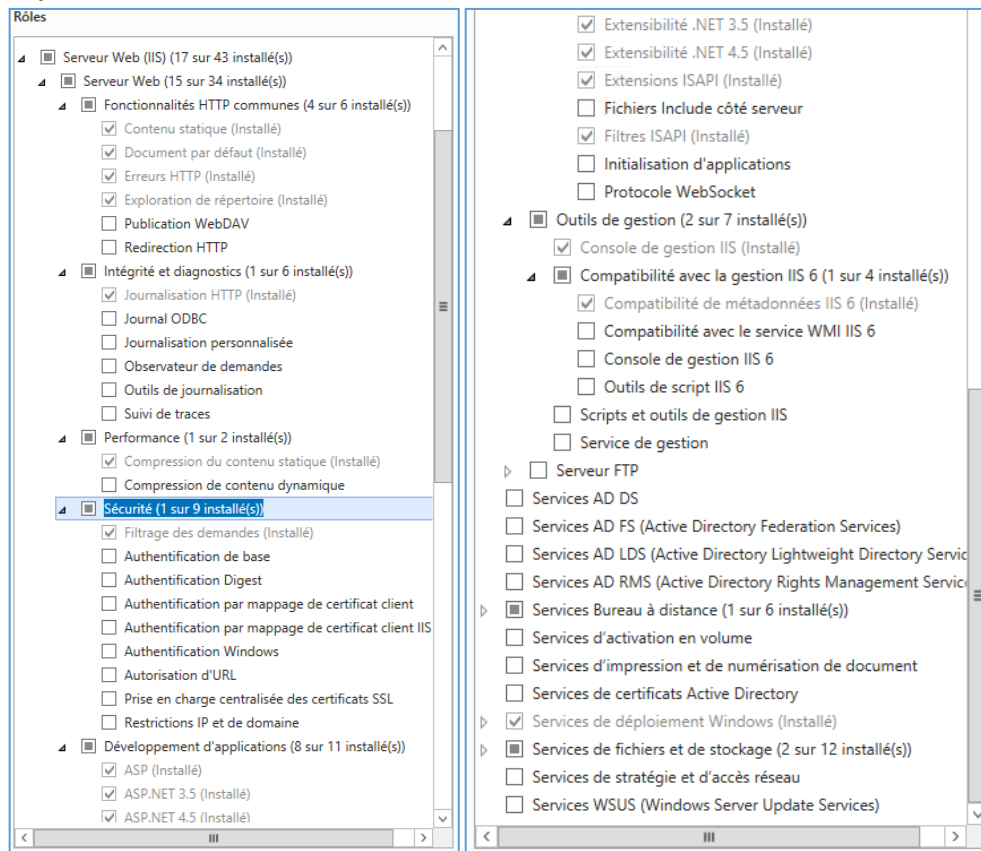
2. IIS WEB Server installation and configuration

Setup IIS 8 by adding the Windows features from “control panel”.

Add the following IIS features: (**Example WINDOWS 10**)

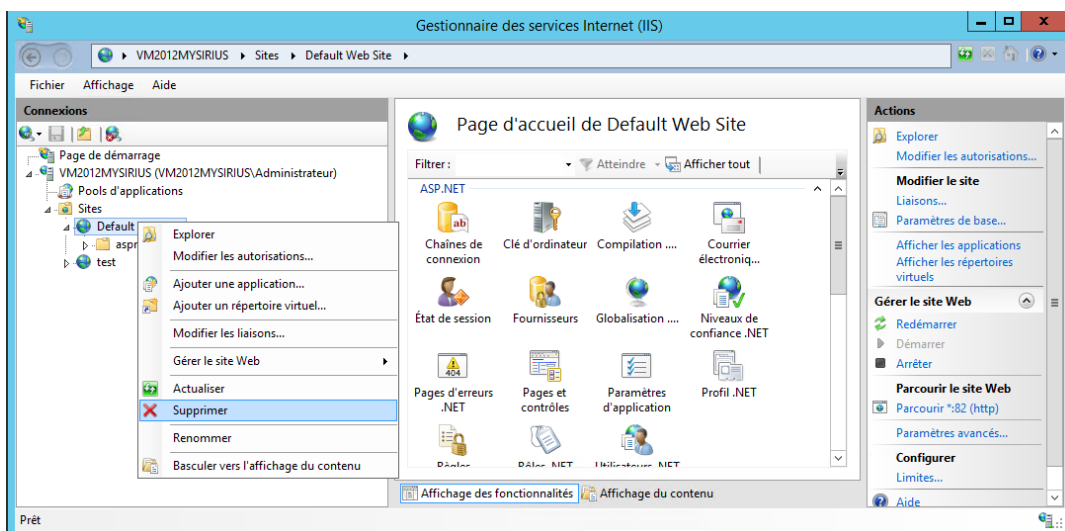


- **Exemple WINDOWS SERVEUR 2012 R2:**



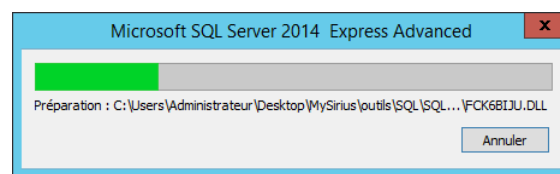
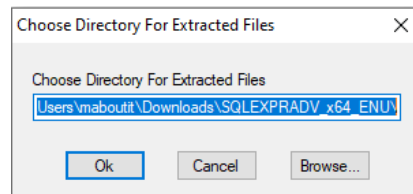
- After the installation of IIS server, a default site is created on port 80. This site should be deleted in order to be replaced by MySirius site. (Replacement done automatically by the installer tool)

Go to IIS server Management → right click on Default Site → Delete

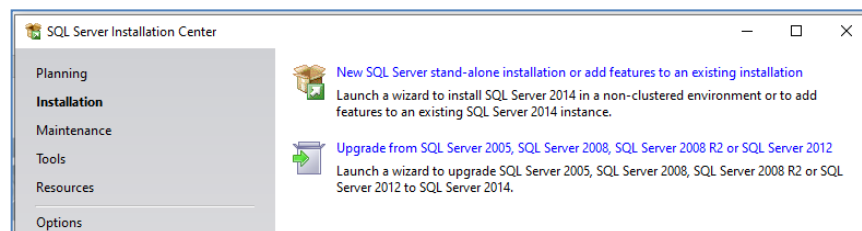


3. Setup SQL Server® Express 2014 or a higher version

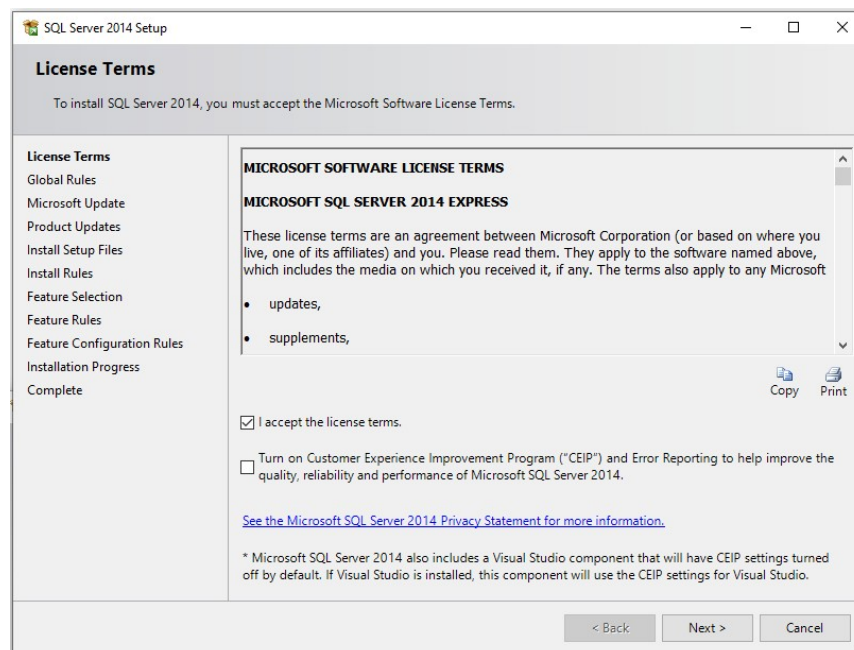
- Available on: <https://www.microsoft.com/fr-fr/download/details.aspx?id=42299>
- Run the downloaded exe file, example: ExpressAdv 64BIT\SQLEXPRADV_x64_FRA.exe



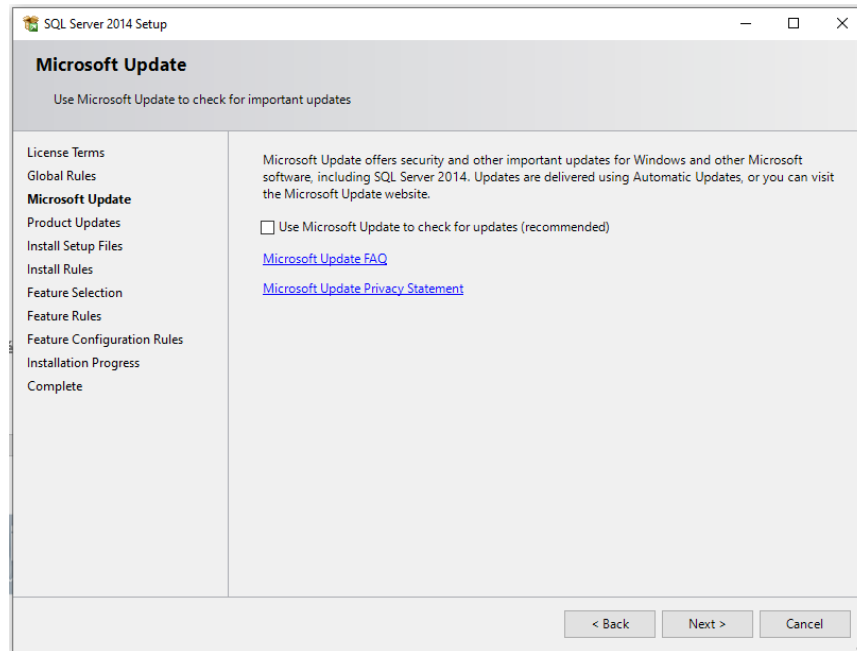
- Choose “New SQL server stand-alone installation”



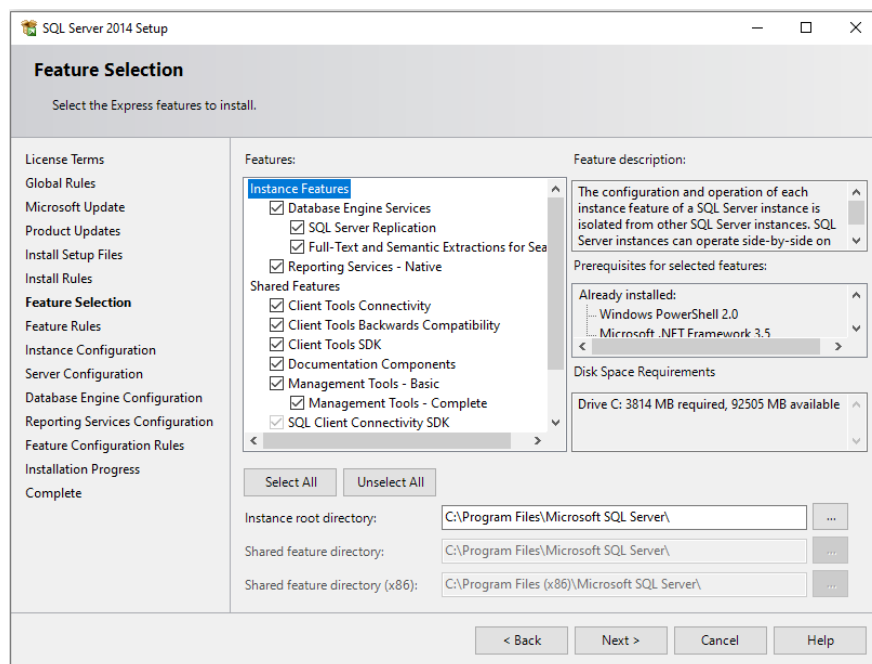
- Accept the license terms. Click on next



- Activate the Windows updates. Click On next Disabling the updates won't stop the installation.



- Select the default features. Click on next





- Name the instance. Click on next

SQL Server 2014 Setup

Instance Configuration

Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.

License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Installation Progress
Complete

☐ Default instance
☒ Named instance:

Instance ID:

SQL Server directory: C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER
Reporting Services directory: C:\Program Files\Microsoft SQL Server\MSRS12.MSSQLSERVER

Installed instances:

Instance Name	Instance ID	Features	Edition	Version
SQLEXPRESS	MSSQL14.SQLEXPRESS	SQLEngine_VNext	Express	14.0.1000.169
MYSIRIUS	MSSQL14.MYSIRIUS	SQLEngine_VNext	Express	14.0.1000.169

< Back Next > Cancel Help

- Server configuration. Click on next

SQL Server 2014 Setup

Server Configuration

Specify the service accounts and collation configuration.

License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Installation Progress
Complete

Service Accounts Collation

Microsoft recommends that you use a separate account for each SQL Server service.

Service	Account Name	Password	Startup Type
SQL Server Database Engine	NT Service\MSSQLSERVER		Automatic
SQL Server Reporting Services	NT Service\ReportServer		Automatic
SQL Full-text Filter Daemon L...	NT Service\MSSQLFDLauncher		Manual
SQL Server Browser	NT AUTHORITY\LOCALSERVICE		Disabled

< Back Next > Cancel Help



- **Data base engine configuration:**

It's important to select « Mixed Mode » authentication.

Enter the server windows Administrator password, confirm and click on next

SQL Server 2014 Setup

Database Engine Configuration

Specify Database Engine authentication security mode, administrators and data directories.

License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Feature Configuration Rules
Installation Progress
Complete

Server Configuration | Data Directories | User Instances | FILESTREAM

Specify the authentication mode and administrators for the Database Engine.

Authentication Mode

☐ Windows authentication mode

☒ Mixed Mode (SQL Server authentication and Windows authentication)

Specify the password for the SQL Server system administrator (sa) account.

Enter password:

Confirm password:

Specify SQL Server administrators

JRI\Administrateur (Administrateur)

SQL Server administrators have unrestricted access to the Database Engine.

Add Current User | Add... | Remove

< Back | Next > | Cancel | Help

- **Reporting Services Configuration. Click on next**

SQL Server 2014 Setup

Reporting Services Configuration

Specify the Reporting Services configuration mode.

License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Reporting Services Configura...
Feature Configuration Rules
Installation Progress
Complete

Reporting Services Native Mode

☒ Install and configure.
Installs and configures the report server in native mode. The report server is operational after setup completes.

☐ Install only.
Installs the report server files. After installation, use Reporting Services Configuration Manager to configure the report server for native mode.

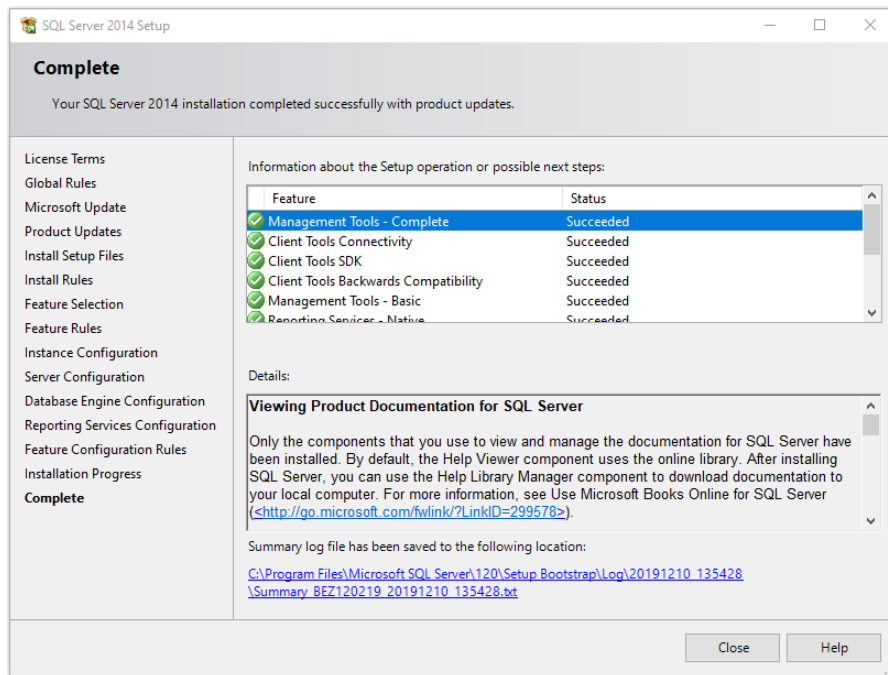
Reporting Services SharePoint Integrated Mode

☐ Install only.
Installs the report server files. After installation use SharePoint Central Administration to complete the configuration. Verify the SQL Server Reporting Services service is started and create at least one SQL Server Reporting Services service application. For more information, click Help.

< Back | Next > | Cancel | Help

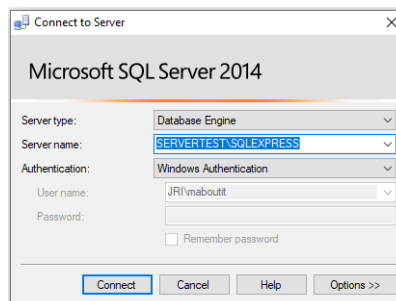


- This step could take few minutes. Wait till the next window is displayed then click on “close”.

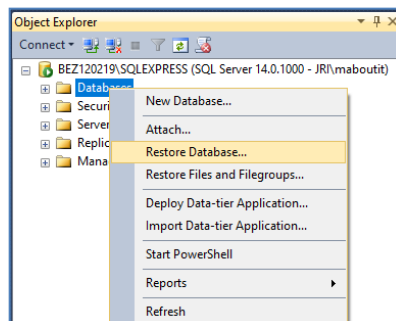


4. Restore the Data base

- After SQL installation, open Microsoft SQL Server Management Studio and login with the Windows Administrator credentials.

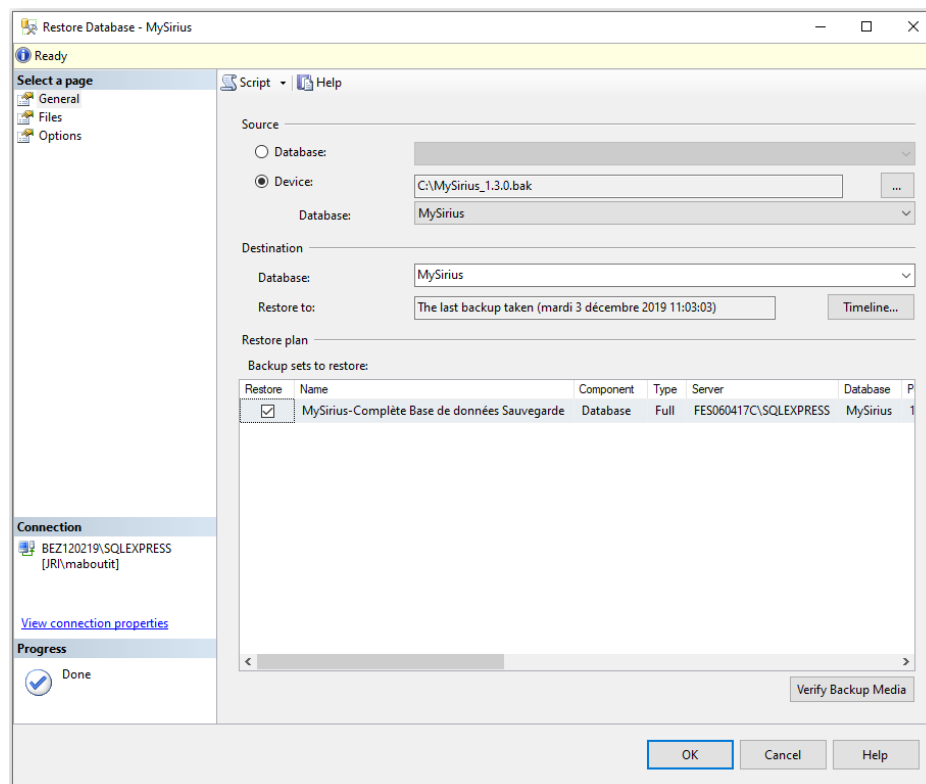


- Right click on « Data base », then « Restore Data Base »





- Choose the file « MySirius_X.X.X.bak » from Device and click on « OK » to start the import.



- Once the Data base restored, Click on OK.

5. Create a MySirius Administrator account:

The script bellow adds a user in "Security"/"Users" with the Role "db_owner":

- In the menu, select "New request"

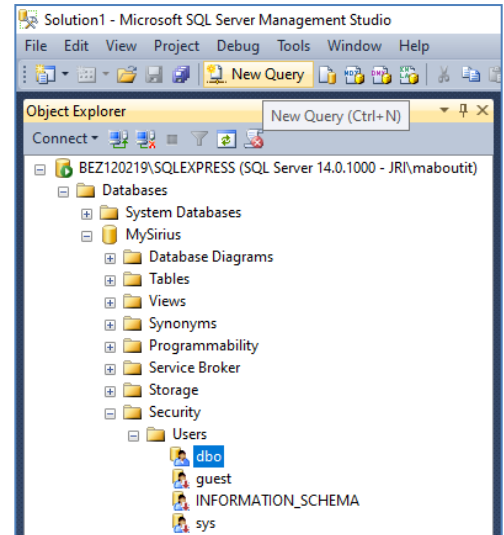
Copy and paste the code bellow (You can change the password)

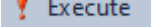
```
-- Create login on Server
CREATE LOGIN MySiriusUser
WITH PASSWORD = 'pwd!123';
GO

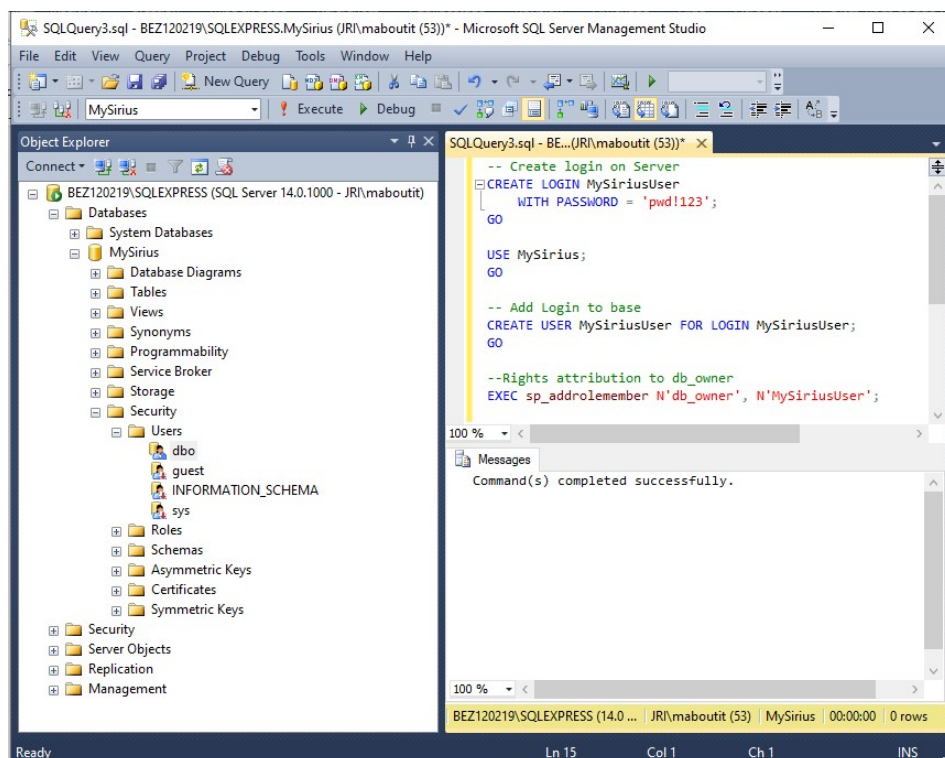
USE MySirius;
GO

-- Add Login to base
CREATE USER MySiriusUser FOR LOGIN MySiriusUser;
GO

--Rights attribution to db_owner
EXEC sp_addrolemember N'db_owner', N'MySiriusUser';
```



- Click on  to run the script.



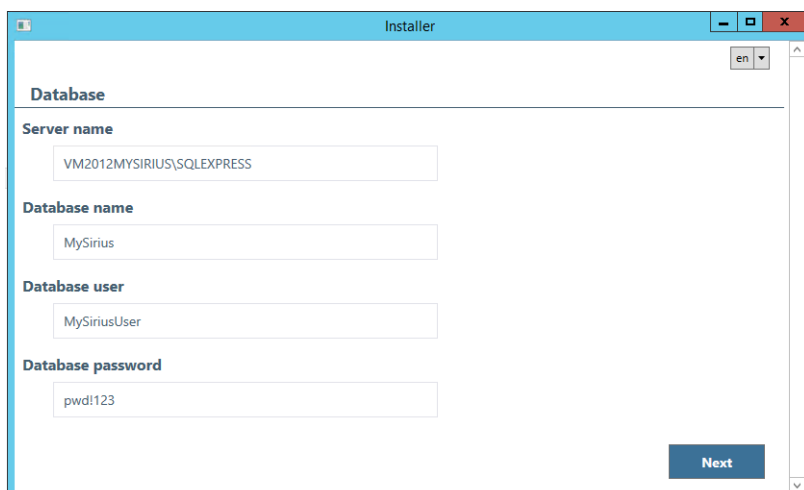
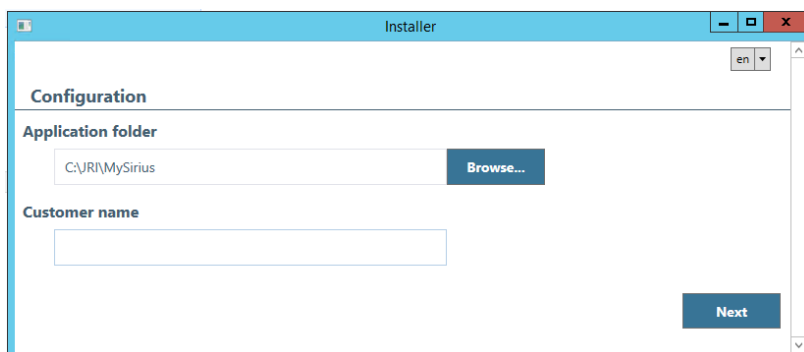
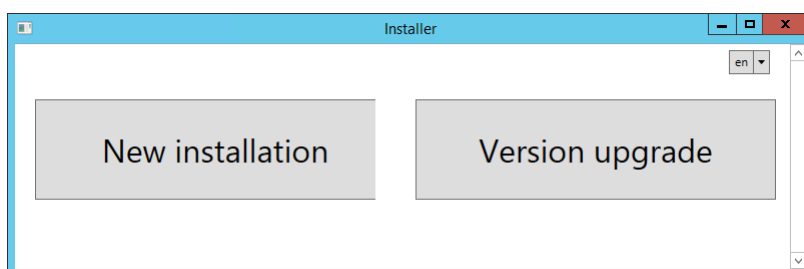
A backup of the request can be done at the end of the procedure.

6. MySirius Installation

The tool « MySiriusConfiguration.exe » allows the modification of several parameters in the data base simply by fill-in the required fields. It's in the InstallationApp folder (MySirius USB stick)

Nom	Modifié le	Type	Taille
configs	12/4/2019 4:39 PM	Dossier de fichiers	
sql	12/4/2019 4:39 PM	Dossier de fichiers	
EntityFramework.dll	12/21/2018 10:02 ...	Extension de l'app...	5,075 Ko
EntityFramework.SqlServer.dll	12/21/2018 10:02 ...	Extension de l'app...	607 Ko
EntityFramework.SqlServer	12/21/2018 10:02 ...	Fichier XML	152 Ko
EntityFramework	12/21/2018 10:02 ...	Fichier XML	3,568 Ko
Microsoft.AspNet.Identity.Core.dll	11/7/2018 4:38 PM	Extension de l'app...	163 Ko
Microsoft.AspNet.Identity.Core	11/7/2018 4:38 PM	Fichier XML	123 Ko
Microsoft.Web.Administration.dll	3/8/2016 10:28 AM	Extension de l'app...	144 Ko
MySiriusConfiguration	12/9/2019 11:28 AM	Application	117 Ko
MySiriusConfiguration.exe	12/6/2019 4:14 PM	XML Configuratio...	1 Ko

- Launch the tool. The default installation language is selected according to the server configuration (FR or EN).
- Start New installation and follow the installation wizard:





Installer

IIS Configuration

IP address (or domain name)

172.30.18.201

Http port

80

Next

Installer

User "System Administrator"

System Administrator login

xxxx

System Administrator password

xxxx

System administrator email

xxxxx@xxxx.com

System administrator doamin

xxxx

Next

Installer

Service Configuration

Dispatcher server IP

172.30.18.201

Dispatcher port (TCP)

13251

LoRa® SPY communication port

13252

Next



Installer

Alert systems Configuration

SMTP server name / IP for email sending

remote.jri.fr

Port

25

Sender email address

noreply@mysirius.com

SSL/TLS security ?

☐

With Authentication ?

☐

SMS alerts using Multitech Router ?

☒

Next

Installer

Installation in progress ...

successdirectoryCopy

successconfigFileUpdate

successdatabaseUpdate

successiisInstallation

MySirius - Dispatcher : successserviceInstalled

MySiriusLoRaListener : success_serviceInstalled

MySirius - MessageManagement : successserviceInstalled

MySirius - CommandManagement : successserviceInstalled

MySirius - Maintenance : successserviceInstalled

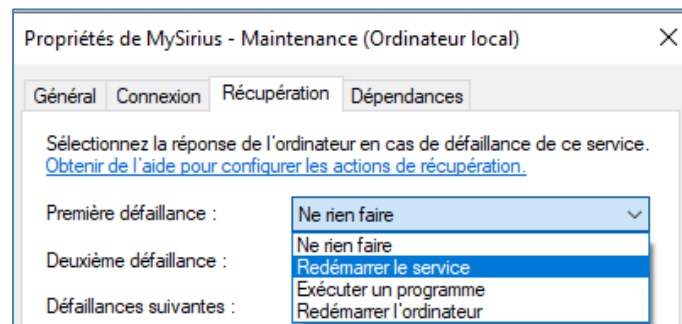
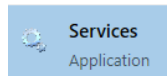
installFinished

Quit

- Click on "Quit" button at the end of the installation.

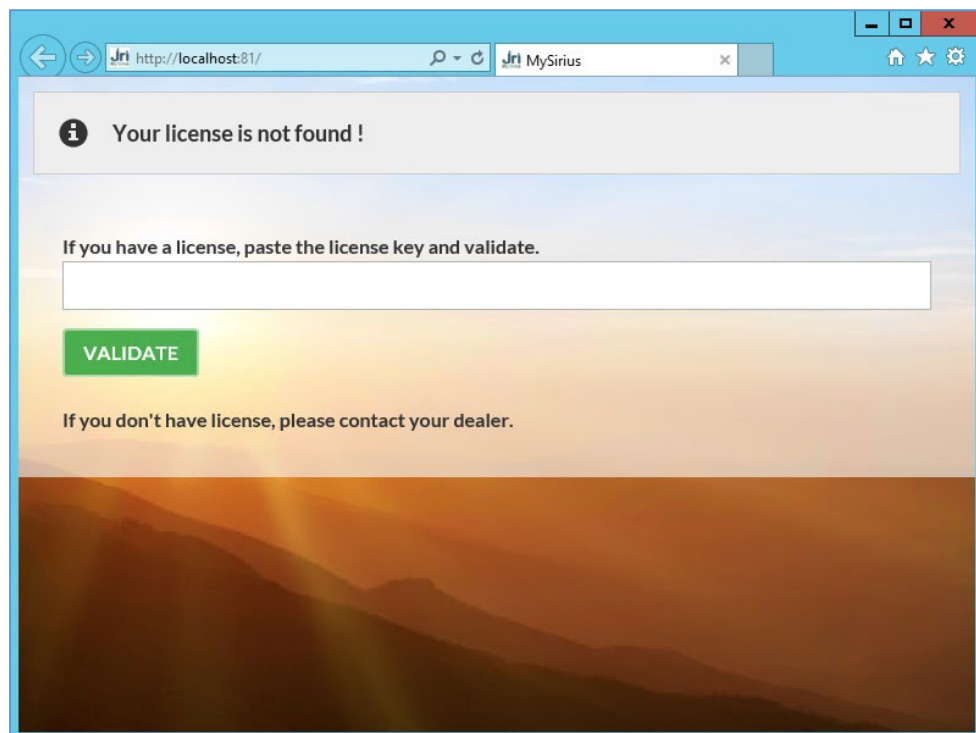
7. Services configuration:

- Open services management tool and check that all the MySirius Services are started. If not, start them manually starting by the Dispatcher service.
- Right click on each service → Properties → Recovery → Failure → Restart the service



8. License activation

- Open a web page using a web browser (CHROME), key in the address bar LOCAL HOST if you're connected on the server or use the DNS or IP of the server to connect from another computer on the same network.





- On MySirius web page, copy and paste the temporary key from the USB Stick, click on “VALIDATE” and follow the License activation wizard:
Each License is linked to a device (LoRa GateWay or Link). Make sure the device is always connected on the network after the License activation.

License activation
To activate your MySirius license, please fill this form

License to activate	XXXX-XXXX-XXXX-XXXX
Gateway or NanoSPY LINK Serial	A01234
Customer name	BEZONS
Customer country	PARADISE
Customer contact email	mail@email.com

Keep informed ! ☒
By ticking this box, i accept that information about the installation (version, active modules,...) will be sent to the software publisher to be informed of news.

VALIDATE

Activation of MySirius license
Your license is activated !
Copy and paste this license key in your application

BAHB6N6EO2AUE8IAAS72L3CE0CEE0EO2AUE8IAAS72L3CE0CEE0PBEO2AUE8IAAS72L3CE0CEE0PB6EO2AUE8IAAS72L3CE0CEE0PB

Copy

- Copy and Paste the generated Key:

Votre licence n'a pas été trouvée !

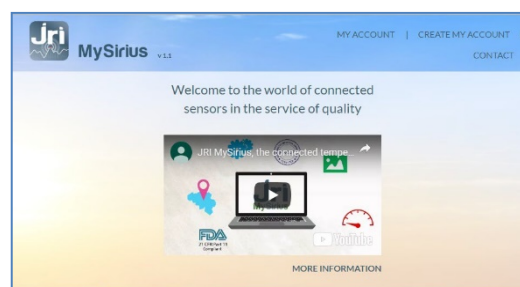
Si vous avez une licence, coller la clé de licence et validez

BAHB6N6EO2AUE8IAAS72L3CE0CEE0PB6V90F70L

VALIDER

Si vous n'avez pas de licence, contactez votre revendeur

After validation, MySirius Web page is operational.





- Log in with the MySirius Administrator account created with configuration tool.

- The Distributor's page opens

- Select a Distributor "NODE" and click on "EDIT to modify general parameters"


- Select a Distributor "NODE" and click on "ADD" a single customer for each license:



- Fill in the different information and click on “Save and Activate”
- Site information are displayed and generated in a PDF file which can be sent to the customer


ADD A CUSTOMER

You can download the customer information sheet

 [_newCustomerInfo_1_en-GB.pdf](#)

[RETURN TO CUSTOMER LIST](#) [OPEN THE CUSTOMER](#)

Traçabilité, surveillance et métrologie

 **Information sheet**

Below is the information regarding the creation of a new customer account

Customer name	BEZONS
Number of measurement points	Up to 100 points
Subscription type	Advanced
Administrator ID	admin
Administrator password	TSYKTKYN
Domain	domain
Number of SMS purchased	0
Number of calls purchased	0

- A click on OPEN THE CUSTOMER gives access to the site in order to start the configuration:
 - Add GateWays for automatic detection of the recorders
 - Create Monitored Units, Batches, Users
 - Configure the Alerts

www.jri.fr | info@group-mms.com

Technical Support : 0892680933 | support@group-mms.com

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