Universal Archiving Module Installation Guide

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1. General requirements

The UAM is a desktop solution that must be installed on each computer separately.

Before that, MS SQL Express Server (ver. 2005 or higher) together with SQL Server Management Studio, NET Framework (ver. 4 or higher) and Java (ver. 1.5 or higher) must be installed.

2. Installing Microsoft SQL Express Server

Below is a short description of the installation process for MS SQL 2016 Express. This is a standard installation, and you can find detailed information about it at the vendor's website,

http://www.microsoft.com. For example, for the 64-bit version of SQL Server 2016 Express visit https://download.microsoft.com/download/9/0/7/907AD35F-9F9C-43A5-9789-

52470555DB90/ENU/SQLEXPRADV_x64_ENU.exe (accessed at 22.03.2018).

First, download the installation package for Microsoft SQL Server 2016 Express Edition from the vendor's website.

Then start the installation and select "New SQL Server stand-alone installation or add features to an existing installation" (Figure 1)

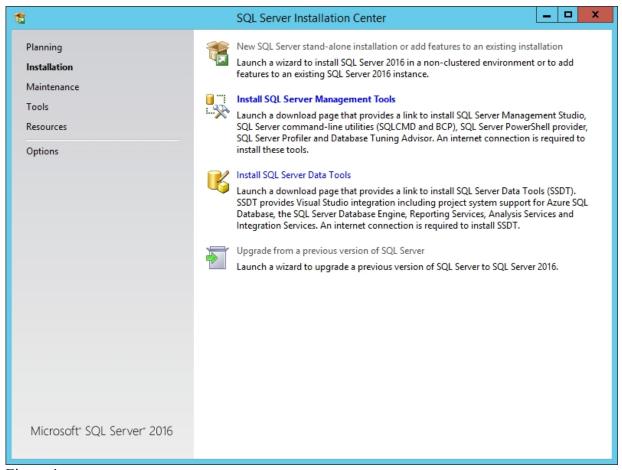


Figure 1.

You will see the text of the license agreement (Figure 2). Read the text, check the box "I accept the licensing terms" and click Next.

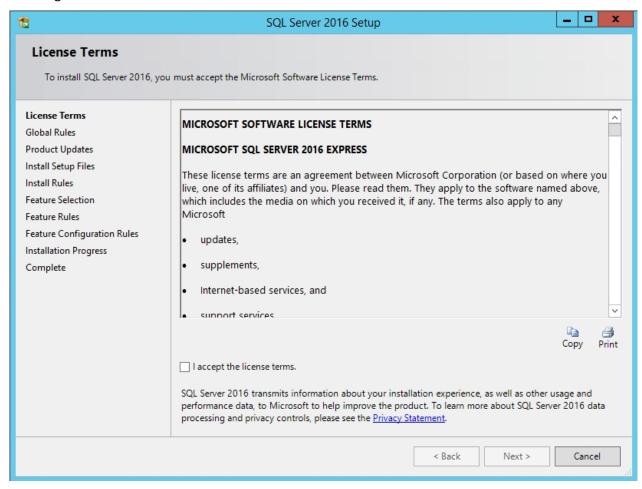


Figure 2.

The System Configuration Check will start. This will confirm that the computer matches the software's requirements (Figure 3).

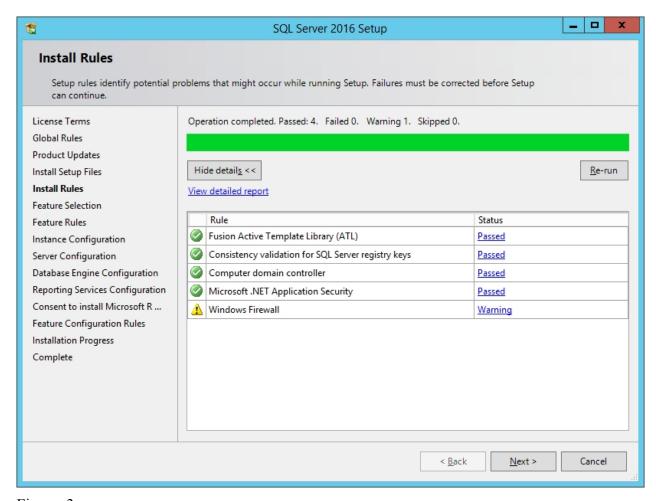


Figure 3.

If no errors are found, click Next.

On the next screen, remove "R Services (In-Database)" and click Next (Figure 4).

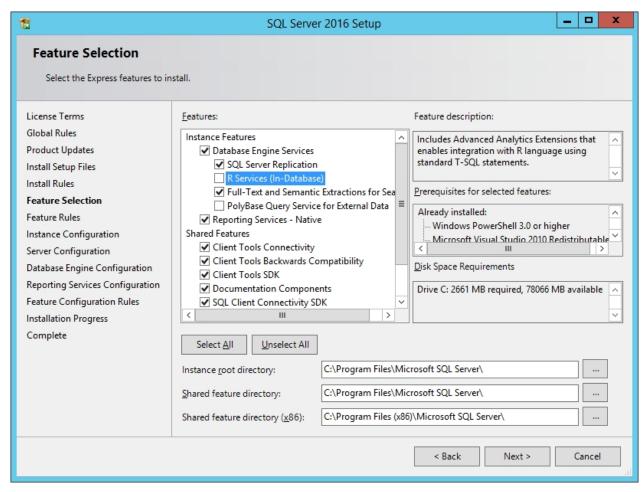


Figure 4.

Next you will see a prompt for the name of the server (Instance Name). If you select Named Instance, you can change the default name (this may be necessary if you will be installing multiple SQL servers). If you are happy with the default name, simply click Next (Figure 5).

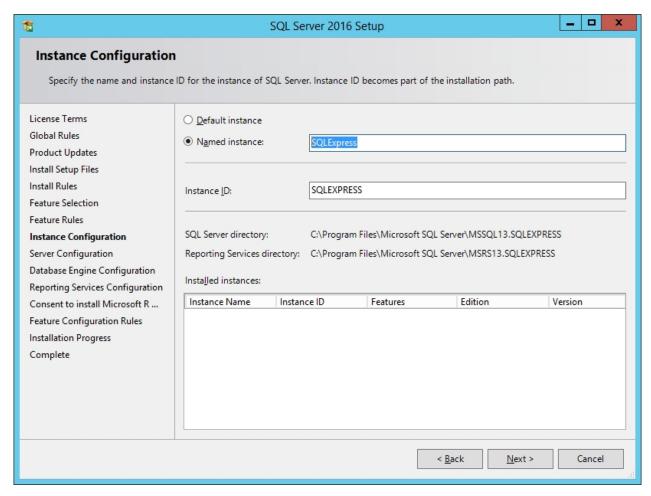


Figure 5.

Click Next (Figure 6).

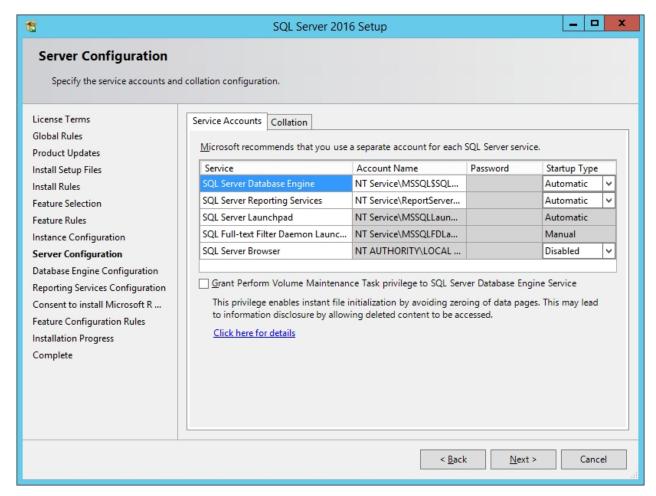


Figure 6.

Select "Windows authentication mode" and click Next (Figure 7).

15	SQL Server 2016 Setup	_ D X								
Database Engine Configuration Specify Database Engine authentication security mode, administrators, data directories and TempDB settings.										
License Terms Global Rules Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Reporting Services Configuration Consent to install Microsoft R Feature Configuration Rules Installation Progress Complete	have	Server administrators e unrestricted access he Database Engine.								
	< <u>B</u> ack <u>N</u> ex	ct > Cancel								

Figure 7.

Click Next (Figure 8).

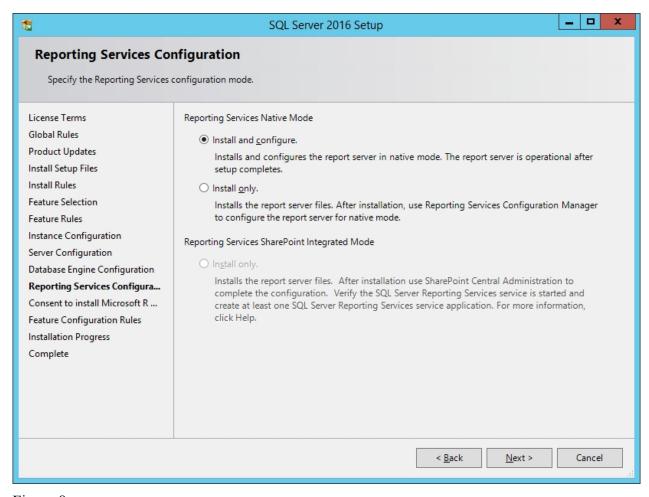


Figure 8.

Click Next (Figure 9).

15	SQL Server 2016 Setup	_ D X
Installation Progress		
License Terms Global Rules 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	Generating ordered dependency feature list.	
	<u>N</u> ext	> Cancel

Figure 9.

After installation, the "SQL Server 2016 Setup" window is displayed. Click Close (Figure 10).

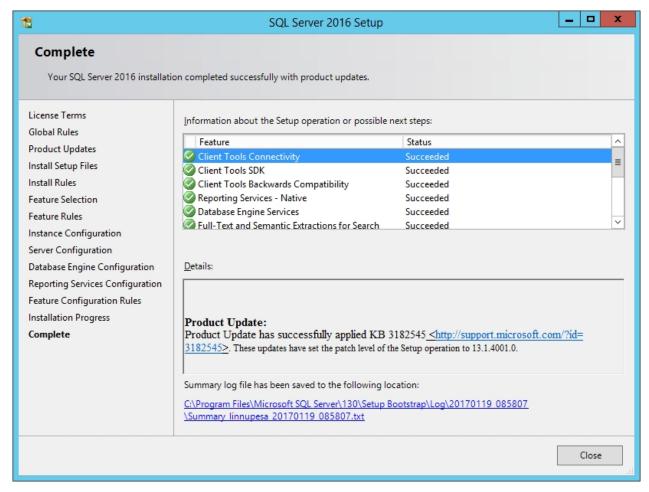


Figure 10.

SQL Express Server has installed.

Next, the SQL Server Management Studio has to be installed.

3. Installing Microsoft SQL Server Management Studio

Download the SQL Server Management Studio from the website (Figure 11).

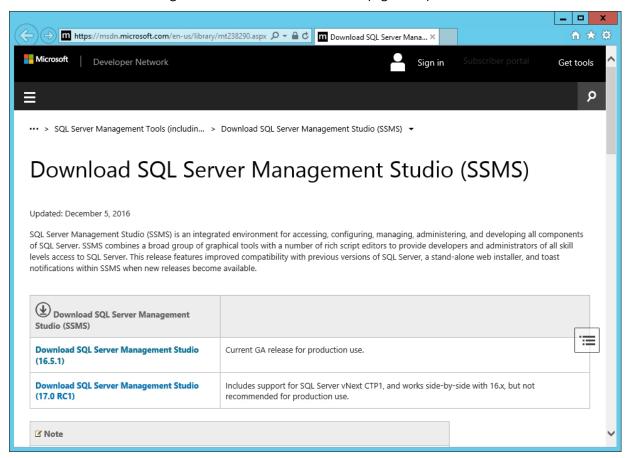


Figure 11.

Run it and select Install (Figure 12).

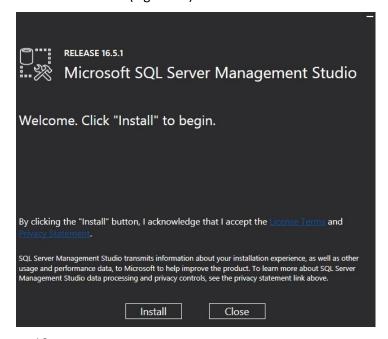


Figure 12.

Select Close.



Figure 13.

SQL Management Studio has properly installed.

Next, the access rights to the server have to be configured. Open SQL Server Management Studio (Figure 14) and log in.

Connect to Server							
SQL Server							
Server type:	Database Engine	~					
Server name: LINNUPESA\SQLEXPRESS Authentication: Windows Authentication							
				<u>U</u> ser name:		¥	
Password:							
Remember password							
	Connect Cancel Help Options	>>					

Figure 14.

Open Security->Logins, right click on BUILTIN\Users and select Properties (Figure 15).

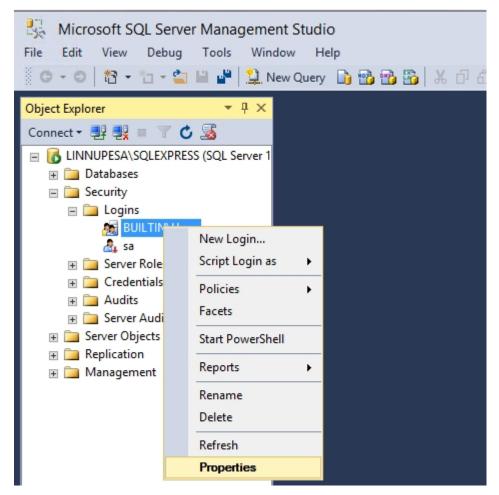


Figure 15.

Select Server Roles, check sysadmin and click OK (Figure 16).

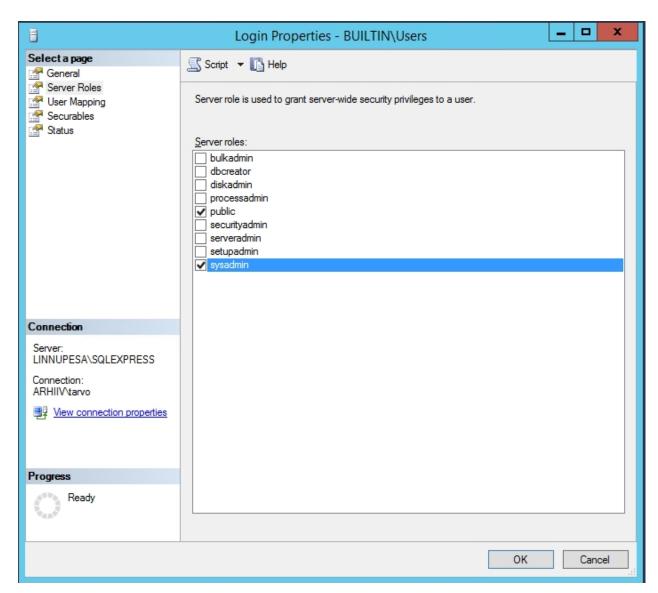


Figure 16.

Checj the status of Remote Access and TCP/IP.

- 1. Allow Remote Access by
 - opening SQL Management Studio;
 - right clicking and selecting Properties;
 - selecting Connections and Allow remonte connections to this server.
- 2. Allow TCP/IP by
 - opening Start -> Programs -> Microsoft SQL Server -> SQL Server Configuration Manager -> SQL Server Network Configuration;
 - selecting Protocols for SQLEXPRESS;
 - right clicking on TCP/IP and selecting Enable.

SQL Express Server has properly configured. Next step is UAM installation.

4. Installing UAM

Download UAM installer¹ and run it.

Click Next (Figure 17).



Figure 17.

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¹ Available at http://www.ra.ee/en/information-management/universal-archiving-module/.

Choose the destination for installation (Figure 18) and click Next.

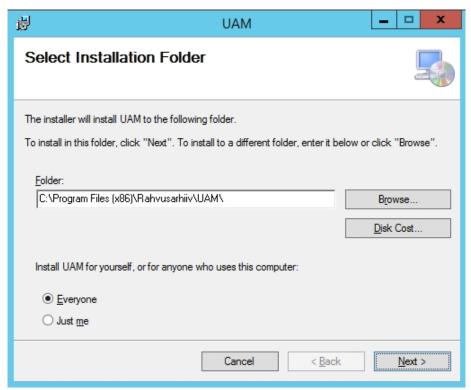


Figure 18.

Click Next (Figure 19).

谩		UAM		_ □ X
Confirm	nstallation			
The installer is	ready to install UAM on your c	omputer.		
Click "Next" to	start the installation.			
		Cancel	< <u>B</u> ack	<u>N</u> ext >

Figure 19.

When installing the UAM, you can choose between two options: Standard and LITE (Figure 20). We recommend using Standard.

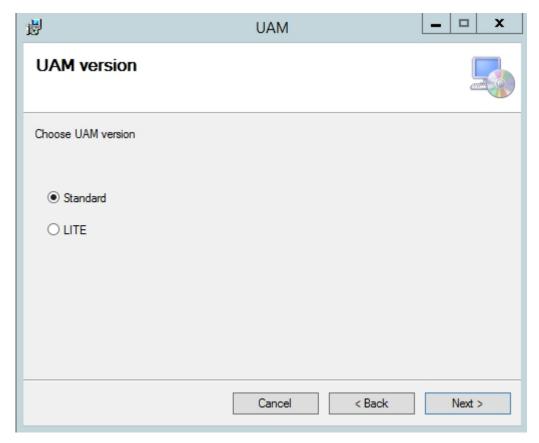


Figure 20.

The LITE version of the UAM can be used to process archival material without immediately transmitting the materials to an archive.

Differences in the LITE version:

- No archival project status;
- No restrictions based on the archival project status;
- The function level may be missing from the archival structure;
- Series can be added to fonds/sub-fonds;
- Fonds can have both sub-fonds and functions at the same time.

Next, you will be asked to select the system's language.



Figure 21.

Finally, you will need to select the server where the UAM database will be created and click OK (Figure 22).



Figure 22.

See the next page for more information!

All fields in the Settings window must be filled:

- Server location of the database server. You can select between locations that have been
 previously defined in this computer, or enter the name of the desired server manually. If the
 desired server is not in the list, enter the server name or address manually, for example
 192.168.0.50\SQLEXPRESS.
- Refresh refreshes the list of options in the Server field.
- SQL server authentication connections to the database are subject to SQL Server authentication, and the username and password must be provided.
- Windows authentication connections to the database are subject to Windows
 authentication. No username or password are required. The connection can only be
 established if the user's Windows account has been granted access rights to the server
 database. Using the Windows authentication option is recommended for UAM installation.
- Username the database username for SQL Server authentication.
- Password the database password for SQL Server authentication.
- *Test connection* Click the button to confirm that the provided information is sufficient to access the Server.
- Database the name of the database stored on the server, containing UAM data.

During installation, the existence of the database with the provided name on the server will be confirmed. If the database does not exist, it will be created. If the database exists, its structure version will be checked, and if necessary, updated to match the UAM version being installed. The database user must have the following rights:

UAM installation

- If the provided Database does not exist, the database user must have the right to create a database, such as the server role dbcreator or sysadmin.
- If the provided Database exists, the database user must have the role db_owner at that database's level.
- o If the same UAM version is already installed on that database, the database user may have only the roles db_datareader and db_datawriter at that database's level.
- To use the UAM, the database user must have the roles db_datareader ja db_datawriter at that database's level.

Click Close (Figure 23).

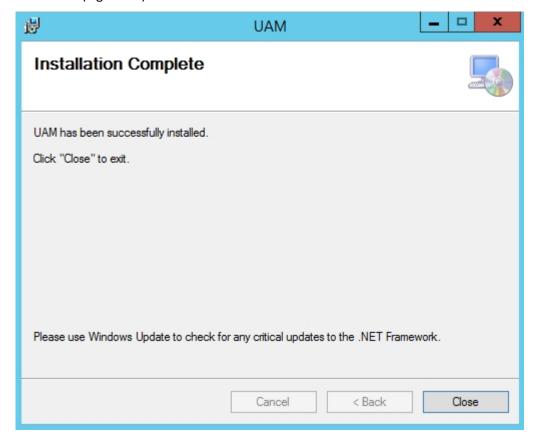


Figure 23.

The installation of UAM was successful.

Please see the next page for further configuration.

5. UAM Settings

UAM settings for the first time use (Figure 24).

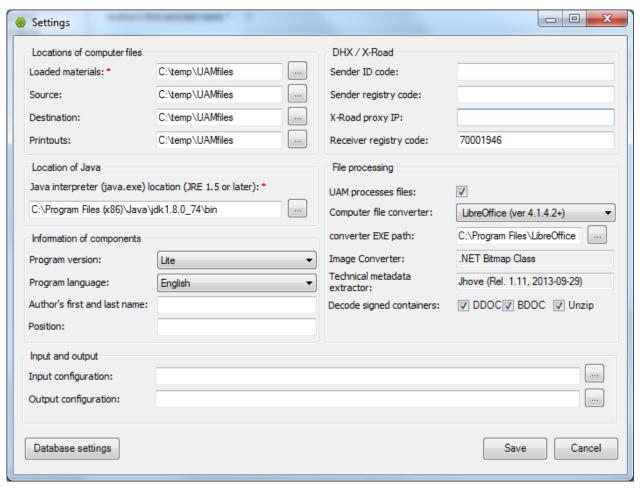


Figure 24.

Please see the next page for further information.

To use the UAM, you must provide the system settings. The initial configuration must be performed when the UAM is started for the first time.

Locations of computer files

- Loaded materials [mandatory] where the uploaded material files are held.
- Source the default folder for all uploads.
- Destination the default folder for transmitting the data to external media.
- *Printouts* the default location for saving all printout files.

Location of Java

• Java interpreter (java.exe) location (JRE 1.5 or later) [mandatory] — when importing records (along with files), the files will be checked to ensure that they match the correct archival format. The validation uses Java, so it requires the location of the java.exe file, usually located in C:\Program Files\Java\jre_ver\bin.

DEC / X-Road – if the agency's records are being transmitted to the National Archives, the following data must be provided:

- Sender ID code
- Sender registry code
- X-Road proxy IP
- Receiver registry code

Input and output

- Input configuration the configuration file used when converting the uploaded material. This file describes the conversion of XML elements of the specific electronic record management system's output to UAM elements.
- Output configuration the configuration file used when converting material for export.

File processing

- *UAM processes files* enable or disable the file processing section.
- Computer file converter defines the document file converter used when uploading material files. Currently the OpenOffice or LibreOffice can be used.
- Image Converter defines the image file converter used when uploading material files.

 Currently the value is restricted to .NET Bitmap Class.
- *Technical metadata extractor* currently the value is restricted to Jhove (Rel. 1.11, 2013-09-29).
- Decode signed containers enable or disable digital signature decoding and file unpacking.

Information of components

- *Program version* possible to change the version of the application.
- *Program language* possible to change the language of the application.

To update the settings, open the File menu and select Settings in UAM.