ELO Suite for SAP ArchiveLink® (SAP NetWeaver® & SAP S/4HANA®)

ELO Smart Link for SAP® ERP installation guide

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Introduction

This documentation describes how to install the ELO Smart Link for SAP® ERP interface, referred to as ELO Smart Link in the following. This interface also includes the previous functions of ELO Archive Link for SAP®. In detail, ELO Smart Link contains the following functions:

- Filing documents in SAP to ELO
- Barcode upload
- New configuration interface
- Basic functions for ELO Connectivity Pack for SAP® ERP

This installation documentation is intended for the following ELOprofessional and ELOenterprise versions:

- ELOprofessional and ELOenterprise version 10.02.000 and higher

Basics

You must have already installed an ELO server (ELOprofessional or ELOenterprise).

> **Information**
>
> We recommend installing ELO Smart Link on a separate ELO Application Server (Apache Tomcat).

Preparing for installation

ELO user – SAP Service

Fig.: New ELO user – ELO Administration Console

An ELO user with elevated permissions is required to set up the ELO Smart Link interface.

> 1. To do this, create your own user in the ELO Administration Console (e.g. *SAP Service*).

Information

Apply the user rights of the *ELO Service* user.

Modes of operation

The following modes of operation are possible via installation and configuration:

Single-Archive – Single-Instance-System
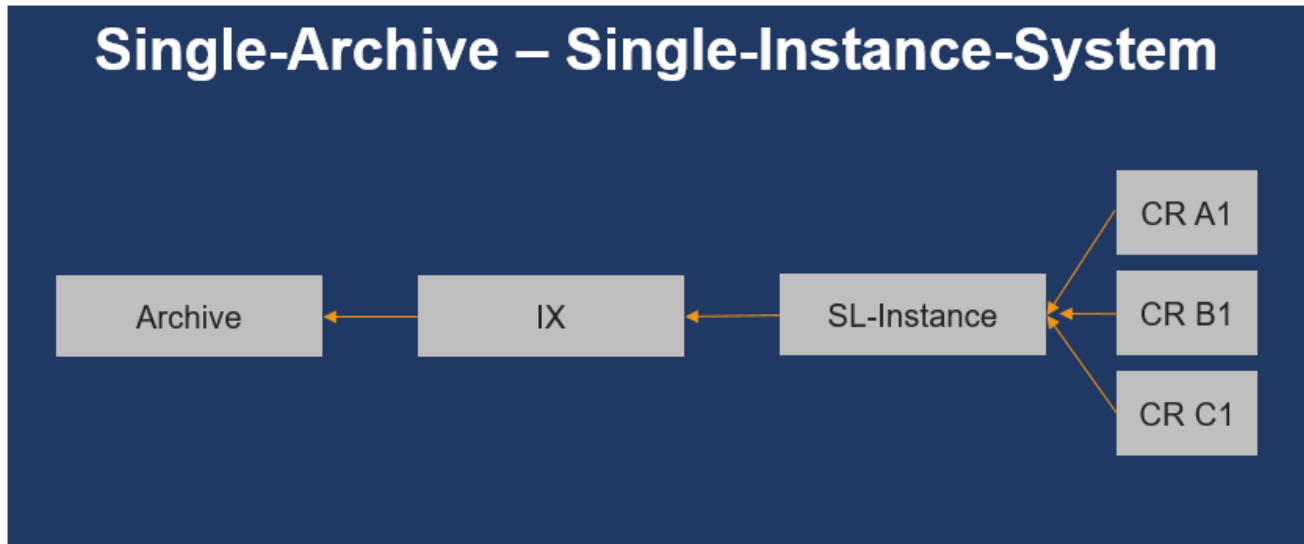

Fig.: Single-Archive – Single-Instance-System
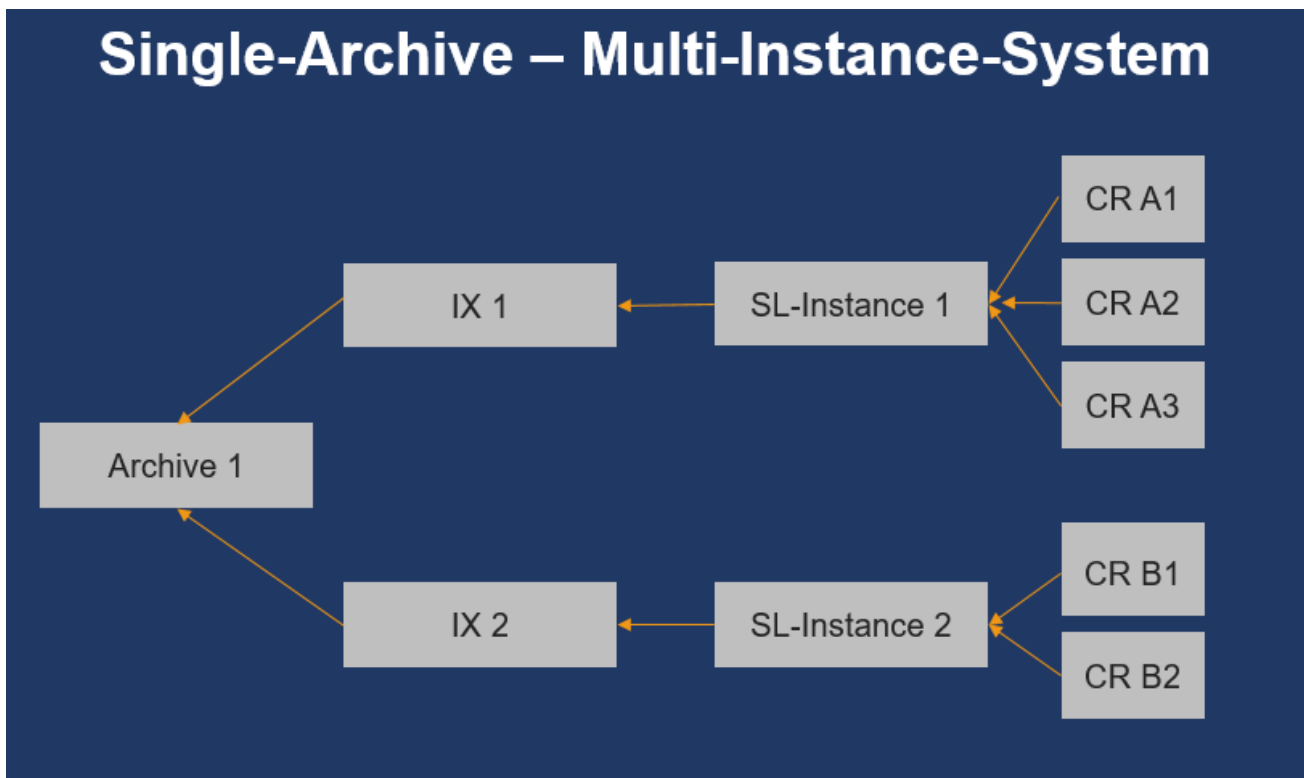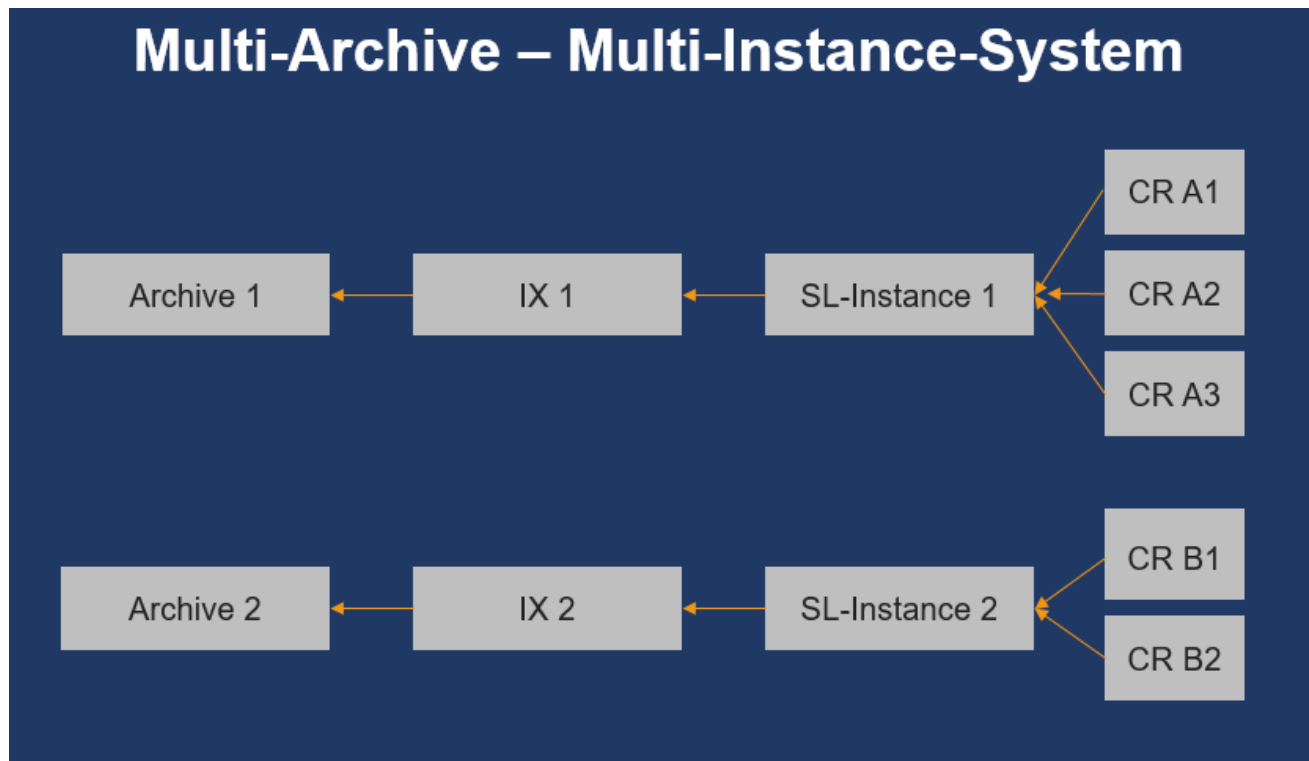
Single-Archive – Multi-Instance-System

Fig.: Single-Archive – Multi-Instance-System

Multi-Archive – Multi-Instance-System

Fig.: Multi-Archive – Multi-Instance-System

Installation

To install the interface, go to the ELO SupportWeb and download the current version of ELO Smart Link to the ELO server, then extract the files to a temporary folder.

You will find the installation files on the ELO SupportWeb under *Integrations > ELO for SAP® ERP > ELO Suite for SAP ArchiveLink® > ELO Smart Link for SAP® ERP*.

Installing Apache Tomcat

Within ELOprofessional or ELOenterprise, you can install another Apache Tomcat e.g. for the ELO Smart Link interface from the ELO Server Setup. Depending on the installation and version of the system, you will find the server setup in the server's installation directory.

> **Please not**
>
> Make sure to run the ELO Server Setup as administrator.

1. Click the *Application Servers* tab.

2. Under *ELO Server Engines*, click *Add* to create a new entry.

3. Enter a name, the *maximum memory*, and a port for the Tomcat you are creating. In our example, we use the following data:

   - Name: `ELO-ELOCCDEMO11-SL`

   - Maximum memory (MB): `1024`

   - Port: `9060`

> **Information**
>
> The ELO Smart Link instance name should only contain uppercase and lowercase letters, numbers, the minus sign, and underscores. The instance name cannot be longer than 180 characters.

1. Follow the server setup instructions to install the new Apache Tomcats (*ELO-ELOCCDEMO11-SL* in the example). Installation can take several minutes, and you will see the various steps as the installation proceeds. The installation is completed when you see the entry `Finished – SUCCESS`.

2. Complete the installation and close the ELO Server Setup.

> **Please note**

Before you start to install and configure the ELO Smart Link interface, you should stop the new service (here: *ELOCCDEMO11-SL*).

Information

The SAP Java Connector libraries can also be installed in the corresponding directories when installing the Tomcat. Simply copy the *.ZIP* file to the temporary installation directory of the ELO Server Setup into the */repository* folder. Example: *C:\temp\ELO server setup\repository*. Refer to the chapter [SAP Java Connector libraries](), which describes how to store these files manually.

Installing additional instances

Please note

Another instance on the same Indexserver or Tomcat is not usually required and does not bring significant advantages. Therefore, only carry out the following steps if you really need to.

If you want to run more than one instance on an ELO Application Server (Tomcat), you will have to provide an additional library on this Tomcat.
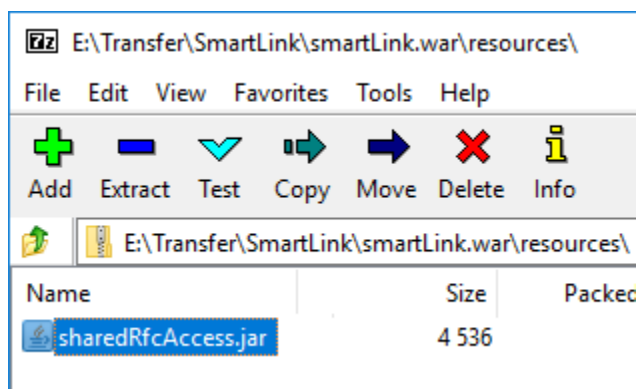
1. Open the ZIP directory.

Fig.: Contents of the 'smartLink.war' file

2. Before starting the Tomcat, extract the *smartLink.war* ZIP file, then copy the *sharedRfcAccess.jar* file located in the *\resources* directory to the Tomcat *lib* directory. This library enables multiple ELO Smart Link instances to access the SAP Java Connector.

Information

The ELO Smart Link instance name should only contain uppercase and lowercase letters, numbers, the minus sign, and underscores. The instance name cannot be longer than 180 characters.

```
!['resources' webapps directory](../../en-us/elo-smart-link-for-sap-installation-guide/installation/resou
```

```
*Fig.: 'resources' webapps directory*
```

```
**Alternative**: A second option for obtaining the *sharedRfcAccess.jar* file is the *webapps* folder of
```

Create a new directory within the Tomcat server for the new instance and then perform the following steps.

If the file is not copied to this folder, you will receive the following error message when testing the connection within an instance.
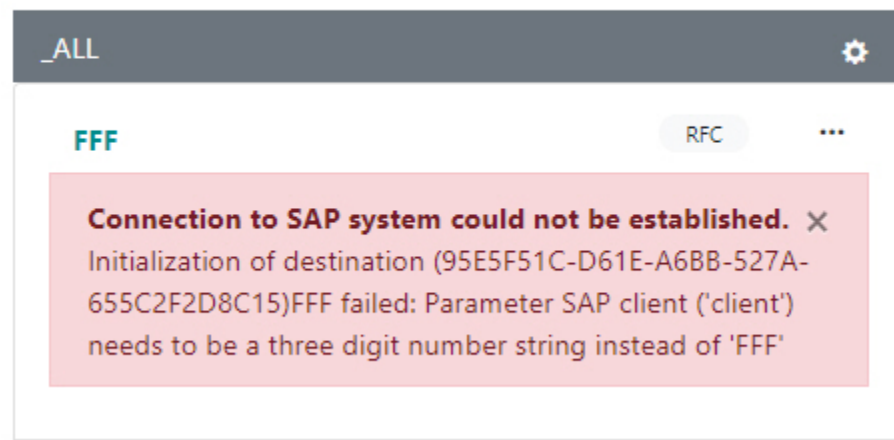
Fig.: Error during connection test

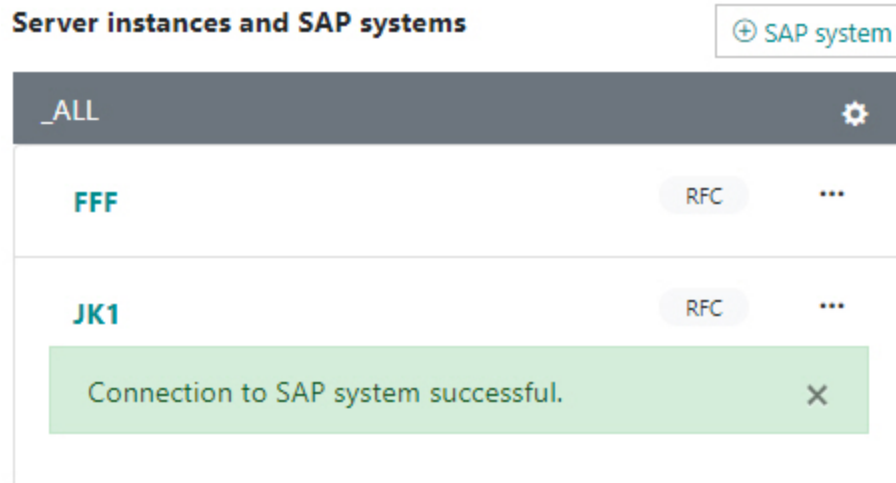After copying this file, the connection test is successful.

Fig.: Connection test successful

Deploy the '.xml' file

1. Switch to the directory that you just created on the Tomcat server (in our example *ELO-ELOCCDEMO11-SL*) and then to the file path *conf\Catalina\localhost*.
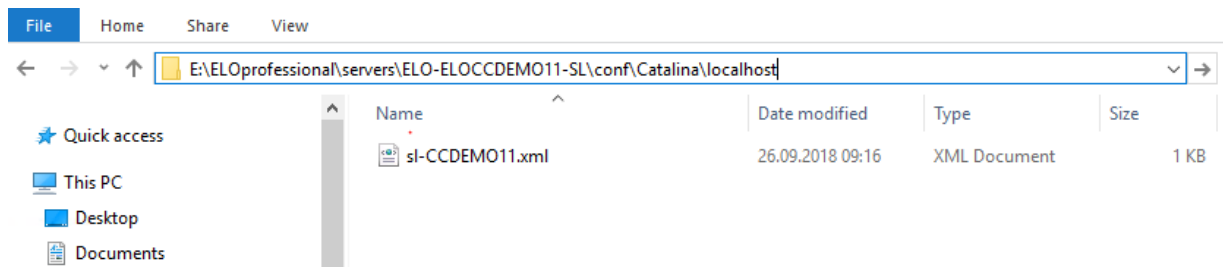

Fig.: ELO Smart Link – Tomcat 'localhost' folder

2. Copy the XML file *sl-<repository>.xml* to this location, replacing *<repository>* with the name of the repository where you want to file ELO Smart Link documents.

    In our example, this is the following path:

    E:\ELOprofessional\servers\ELO-ECLOCCDEMO11-SL\conf\Catalina\localhost

> **Information**
>
> If you need to connect multiple ELO repositories with ELO Smart Link, create a separate *.xml* file for each repository. Use the naming convention *sl-<repository>.xml*.

1. Open the copied file – in our example *sl-CCDEMO11.xml* – with the following contents:

```
<?xmlversion="1.0" encoding="UTF-8" standalone="no"?>
```

```
<Context docBase="D:\ELOenterprise\prog\webapps\smartLink.war" path="/sl-<repository>"

<Environment name="webappconfigdir" override="false" type="java.lang.String" value="D

</Context>
```

2. Edit the paths of the following parameters:

   ◦ docBase= always points to the ELO Smart Link *.war* file in the *webapps* directory.

   ◦ path= *sl-<Repository>* indicates the path segment of the ELO Smart Link URL.

   ◦ value= points to the directory of the configuration files.

> **Information**
>
> These are file path examples. You should also check the drive letters.

SAP Java Connector libraries

To use the ELO Smart Link functions in conjunction with SAP, you need the SAP Java Connector (JCo). For licensing reasons, ELO Digital Office GmbH is unable to supply the SAP Java Connector. Notify your customers or SAP partners to this regard, as customers/partners require access to the *SAP Software Downloads* area to download it.

Provided you have the relevant permissions, you can download the required SAP Java Connector at the following link. As the components contain both packages and system class libraries, the system class libraries are platform-dependent.

SAP Support Portal: SAP Java Connector

For more information, go to the following link:

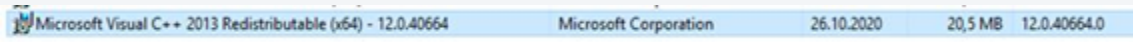SAP documentation: SAP JCo installation

Information

The SAP Java Connector 3.1 SDK released by SAP requires Windows systems to have Microsoft Visual Studio 2013 C/C++ runtime libraries (see also SAP Note *2786882*).

After installing this required environment, you will have to restart ELO Smart Link for SAP® ERP.

As an example, after installing the environment in the Control Panel of a 64-bit Windows system, you will see the following entry under *Programs*:

| Microsoft Visual C++ 2013 Redistributable (x64) - 12.0.40664 | Microsoft Corporation | 26.10.2020 | 20,5 MB | 12.0.40664.0 |

Fig.: Control Panel entry under 'Programs'

1. Once you have obtained the SAP Java Connector SAP JCo 3 libraries, extract them to a temporary directory.
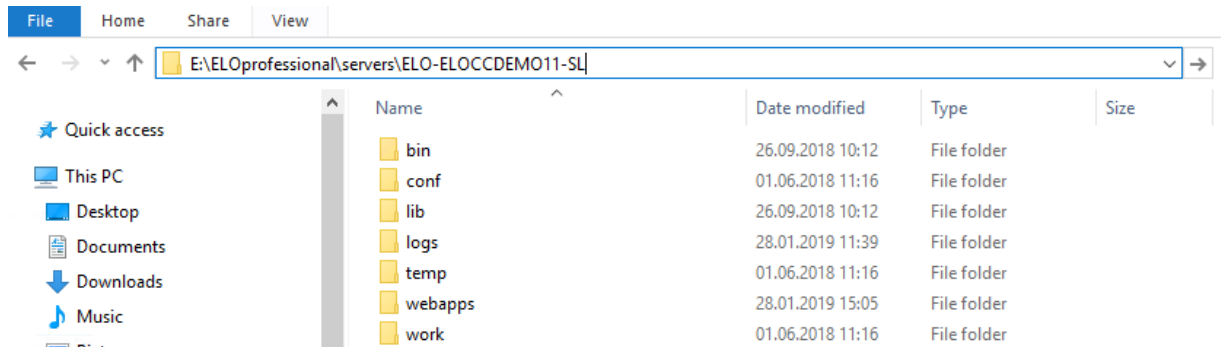

Fig.: Tomcat – 'lib' and 'bin' directories

2. Copy the *sapjco3.jar* file to the *lib* directory of the Tomcat server and the *sapjco3.dll* file to the *bin* directory of the Tomcat server.

ELO Smart Link is now installed.

Information

This is an example implementation. The native libraries of the JCo may not be DLL files on other operating systems. For example, the native libraries on Linux have the extension *.so* and have to be copied to either the *LIB* or *BIN* directory.

The platform-dependent requirements also have to be met for the respective version (example: on Windows, the C/C++ runtime library).

Start the service
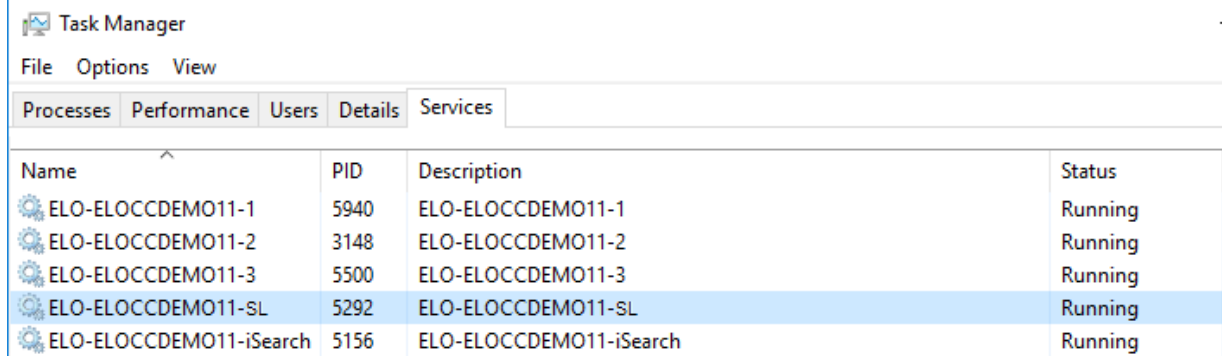
1. Open the Windows Task Manager.

Fig.: Windows Task Manager – Services

2. Click the *Services* tab, and start the Tomcat server service (example: *ELO-ELOCCDEMO11-SL*).

As soon as the service has the status `Running`, you can access the ELO Smart Link configuration interface from the browser.

Information

Before you proceed with configuring ELO Smart Link, make sure that the Windows user configured in the service has write access to the Tomcat directories.
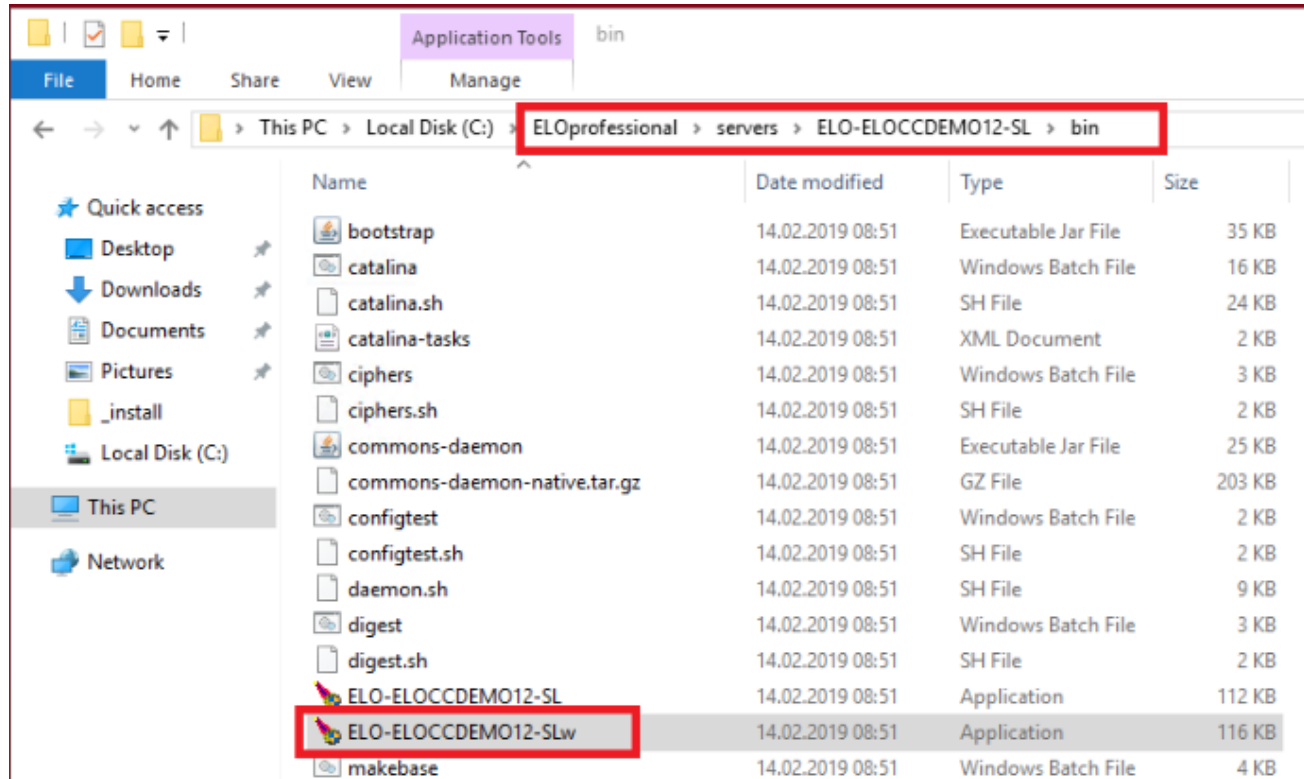
Information

Temporary ELO Smart Link directory
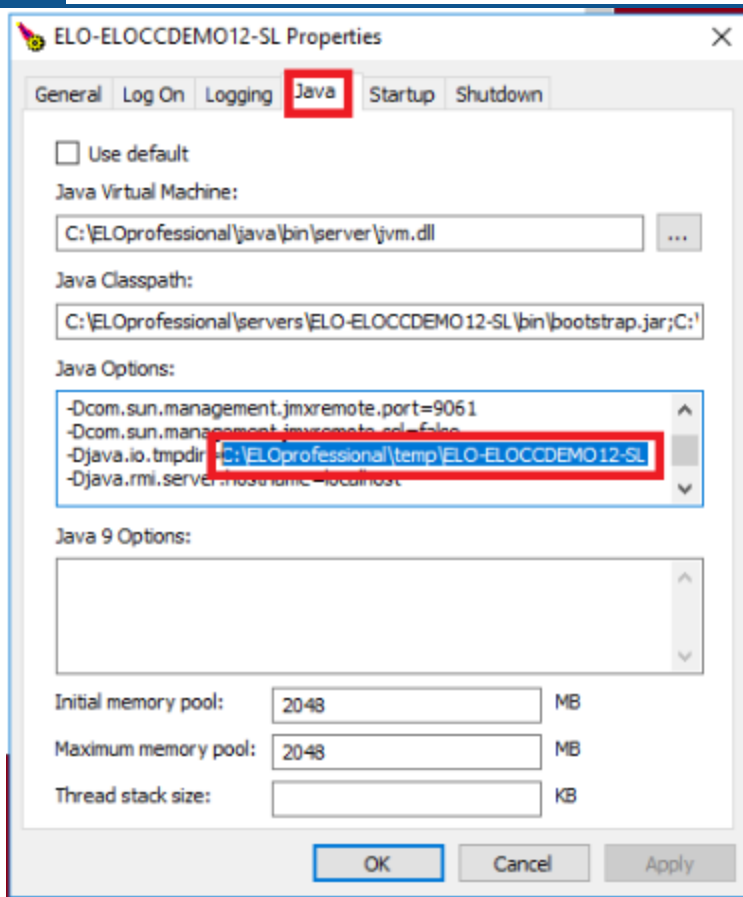

Fig.: Path to Java options

Fig.: Tomcat Java options

ELO Smart Link requires a temporary directory. The standard directory of the Tomcat is used here (Fig. *Tomcat Java options*). If this directory does not exist or the user does not have write rights to this directory, errors will occur.

Log messages

RF_erp_sap_conn_service_GetInstanceUrls

You may find a message for the *RF_erp_sap_conn_service_GetInstanceUrls* function in the ELO Smart Link log. In the ELO Smart Link interface in the content repository, this function shows information on other instances that are configured and used with the *Data transfer* function in the ELO Connectivity Pack for SAP®. If ELO Connectivity Pack for SAP® – Datatransfer was not installed on the system, a message may appear in the ELO Smart Link log indicating that the corresponding script could not be found.