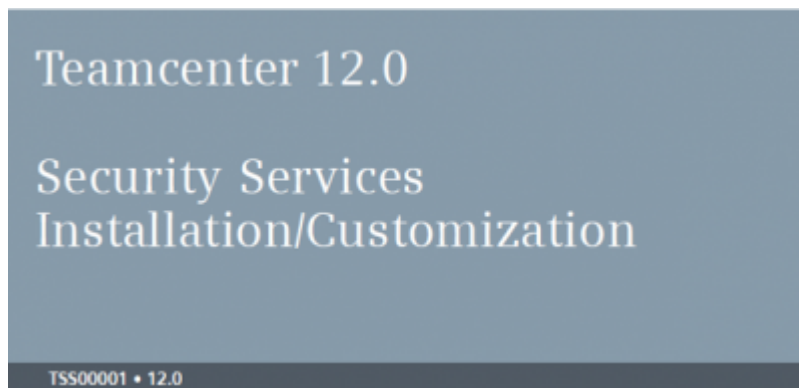


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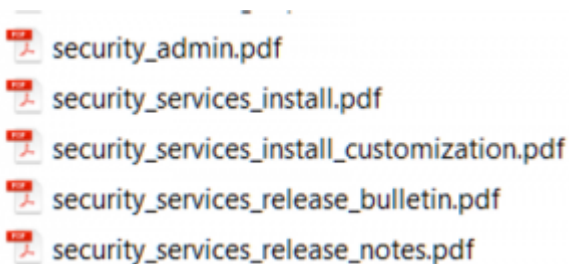
Handbuch Tc 12 Security Services



Oktober 2020 Patrick Granwehr Christoph Bühler

**Achtung:**

Dies ist nur ein Leitfaden. Bitte zusätzlich noch die originalen Dokumente mit einbeziehen...



Impressum

avasis AG
Gemperenstrasse 26
CH-9442 Berneck
Tel.: +41 71 737 99 22



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1. Vorbedingungen Clientinstallation

Wenn Umgebung schon so aufgesetzt ist muss nur noch die Anpassung für SSO gemacht werden.

Ist weiter unten beschrieben.

Dies kann auch später mit der SSO konfiguration nach der web_tier konfiguration gemacht werden.

2. 4-tier Client installation auf tccs umstellen

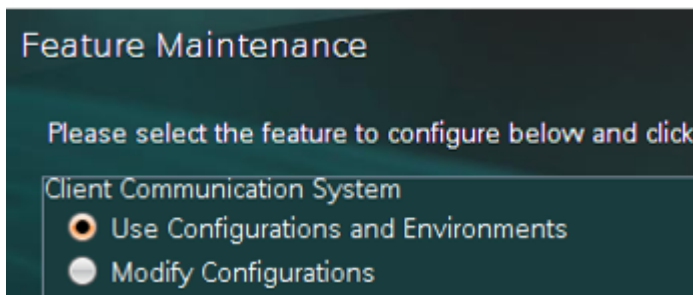
Dieser Schritt ist nur notwendig, falls dieser nicht schon bei Grundinstallation des 4-tier RichClient gemacht wurde.

2.1 Feature Maintenance

Client Communication System Use configurations and Environments



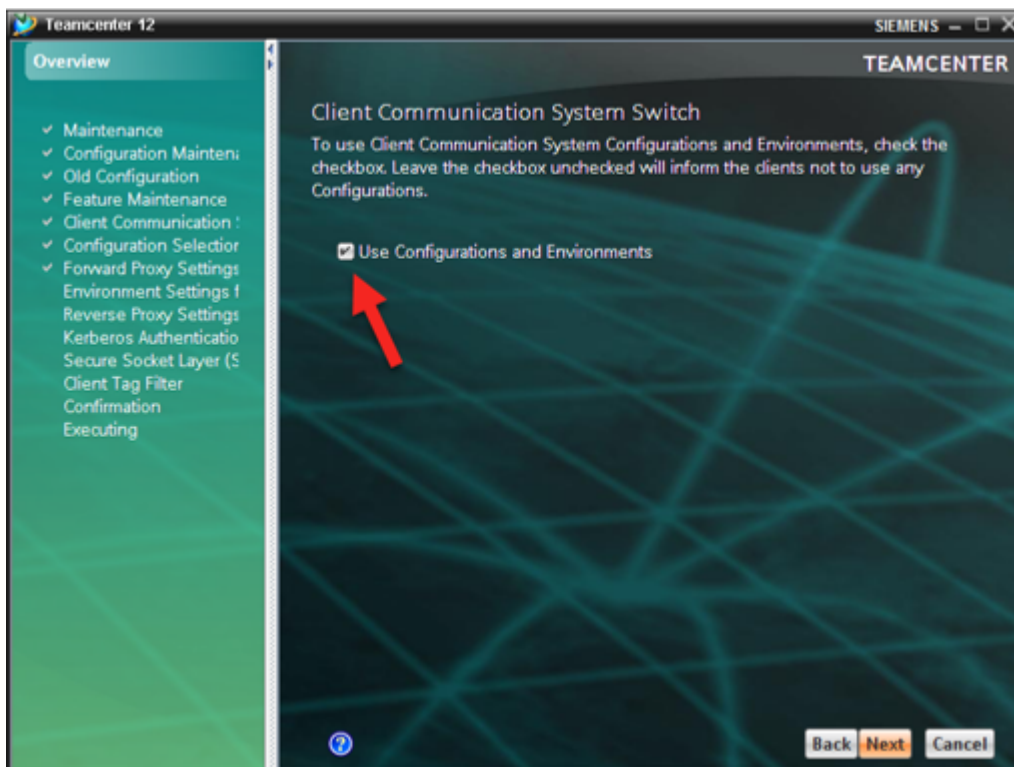
Use configurations and Environments



2.2 Client Communication System Switch



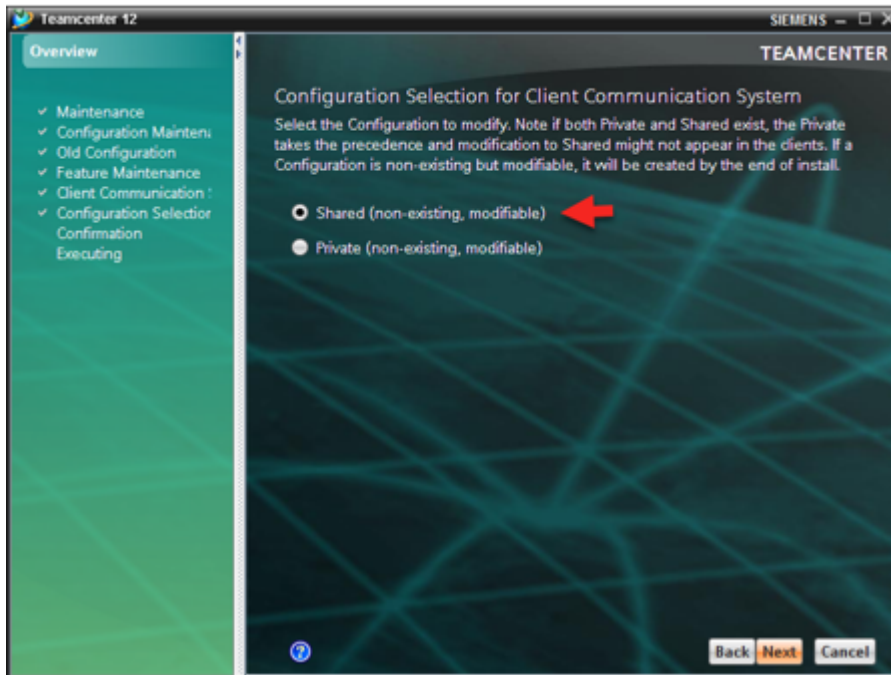
Use Configuration and Environments



2.3 Configuration Selection for Client Communication System



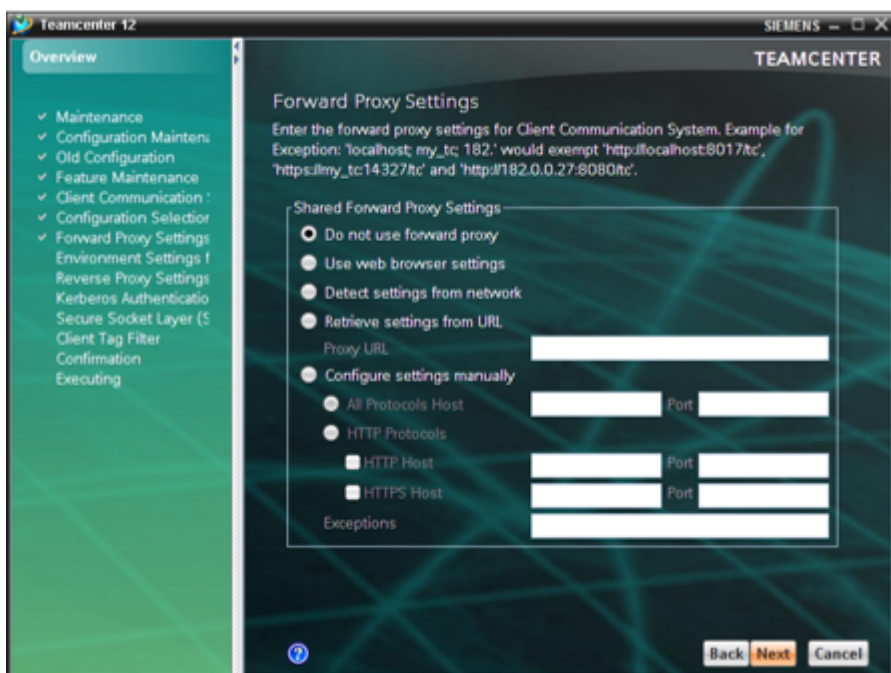
Shared (non-existing, modifiable)



2.4 Forward Proxy Settings



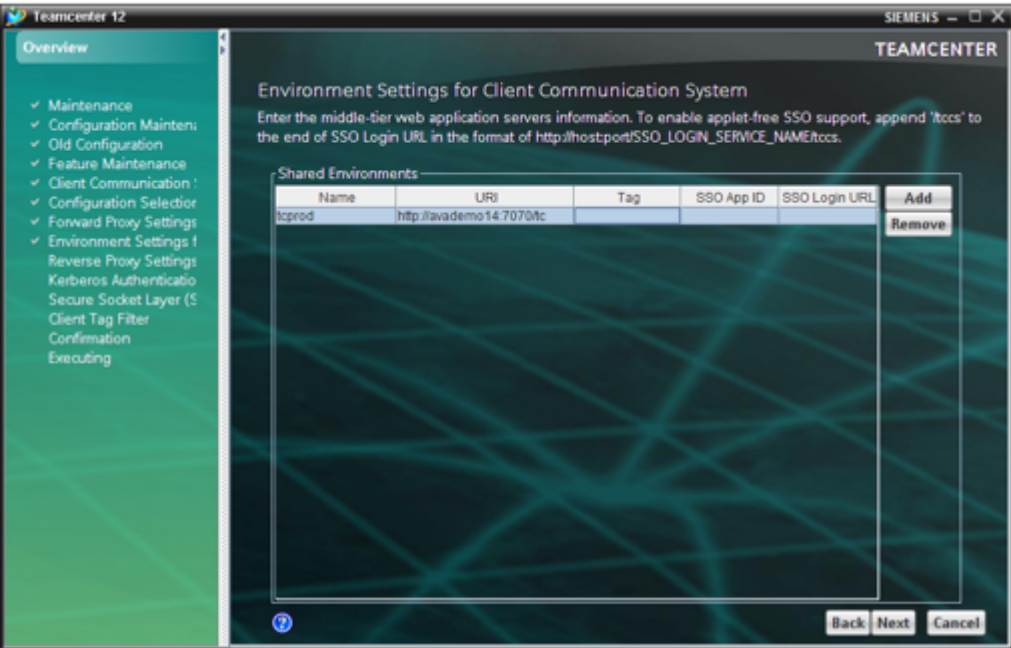
Do not use forward proxy



2.5 Environment Settings for Client Communication System

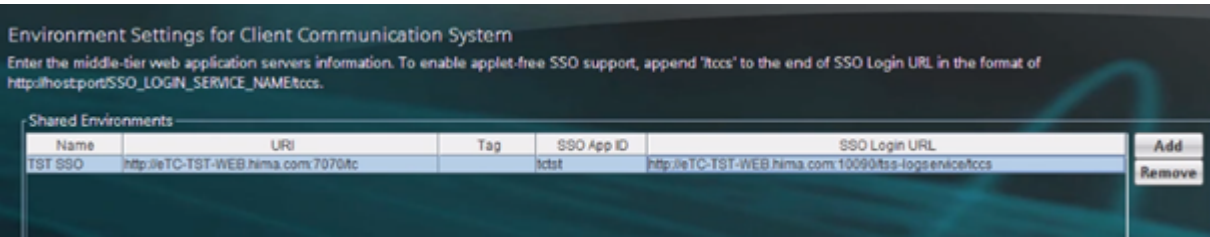
Add...

- Name: tcprod
- URI: <http://avademo14:7070/tc>
- Tag:
- SSO App ID:
- SSO Login URL:



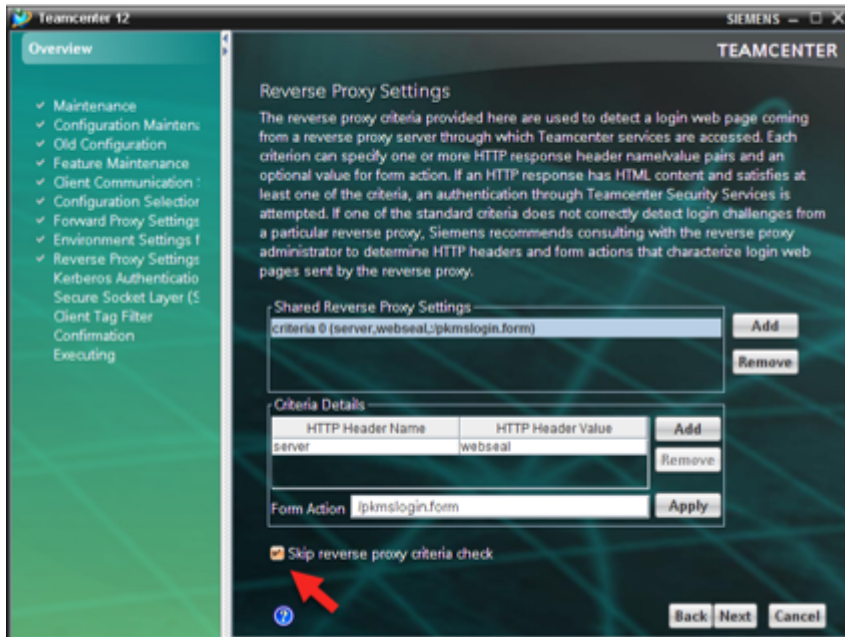
Add...

- Name: TST SSO
- URI: <http://eTC-TST-WEB.hima.com:7070/tc>
- Tag:
- SSO App ID: tctst
- SSO Login URL: <http://eTC-TST-WEB.hima.com:10090/tss-logservice/tccs>



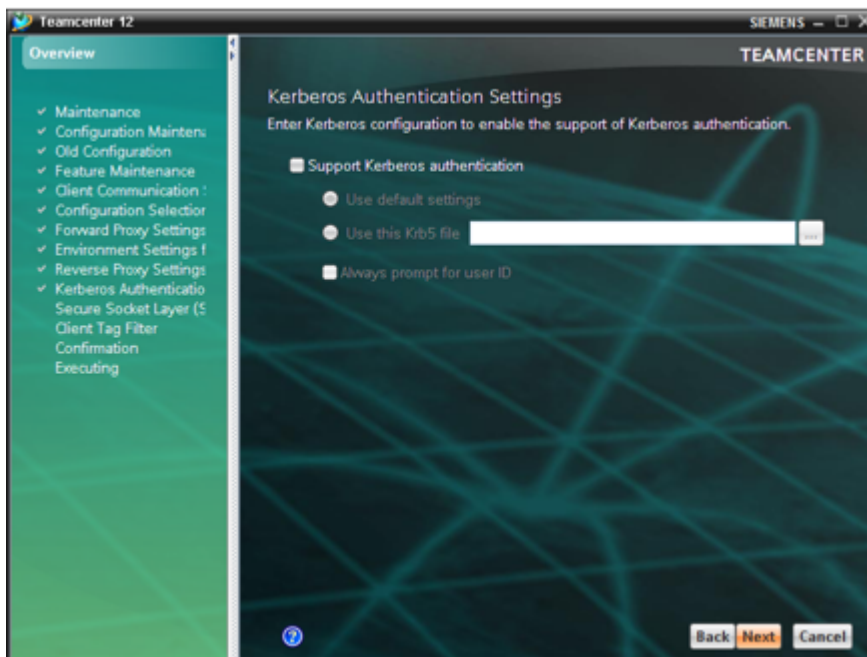
2.6 Reverse Proxy Settings

- ☒ Skip reverse proxy criteria check



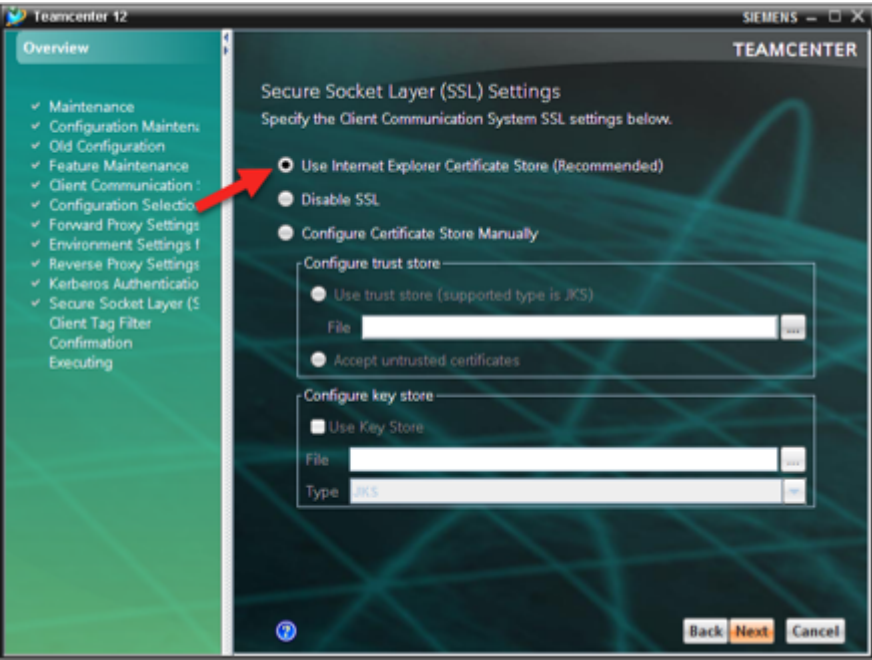
2.6 Kerberos Authentication Settings

Next...



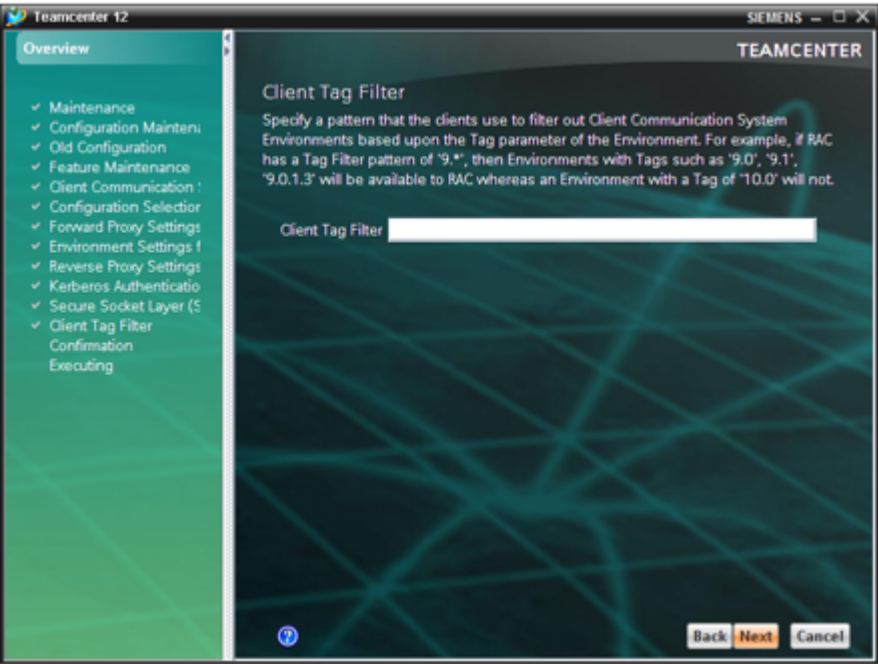
2.7 Secure Socket Layer (SSL) Settings

-  Use Internet Explorer Certificate Store (Recommended)

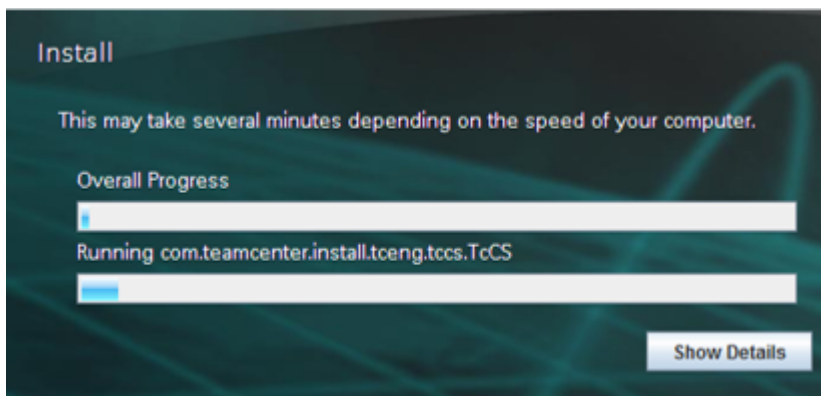
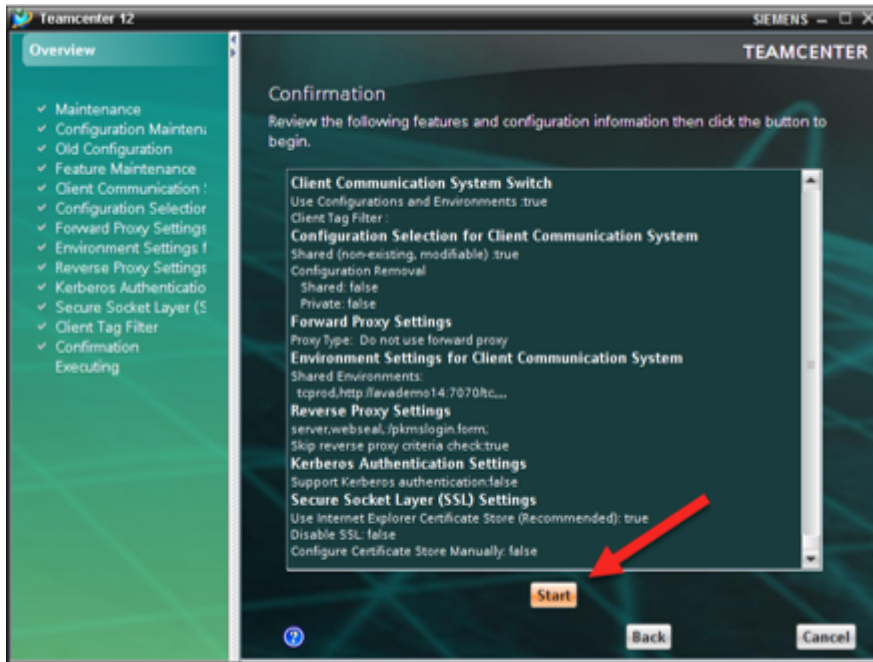


2.8 Client Tag Filter

Next...



Confirmation



close

2.9 Ergebnis

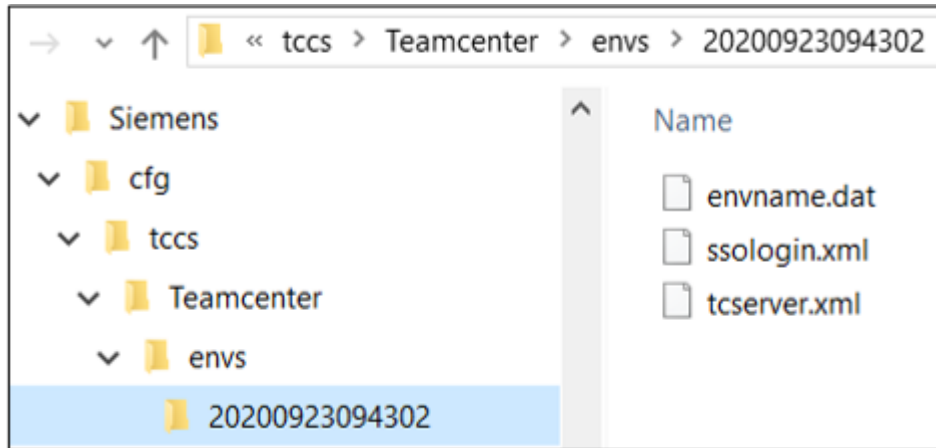
In C:\plm\tc12\portal\plugins\configuration_12000.2.0\client_specific.properties

```

66 #
67 # Runtime and custom entries below this line
68 PortalViewer_Cache=C:/plm/tc12/portal/temp
69 PortalViewer_Optional_Licenses=Simplified_Rendering,ECAD,Concept
70 httpServerCount=1
71 portalCommunicationTransport=tccs
72 tccsVersionFilter=
73 jttoasciiCommand=C:/plm/tc12/jtutilities/bin/jttoascii
74 fileCacheEnabled=true
75 iiopServerCount=0
76

```

Siemens Ordner in C:\ProgramData\

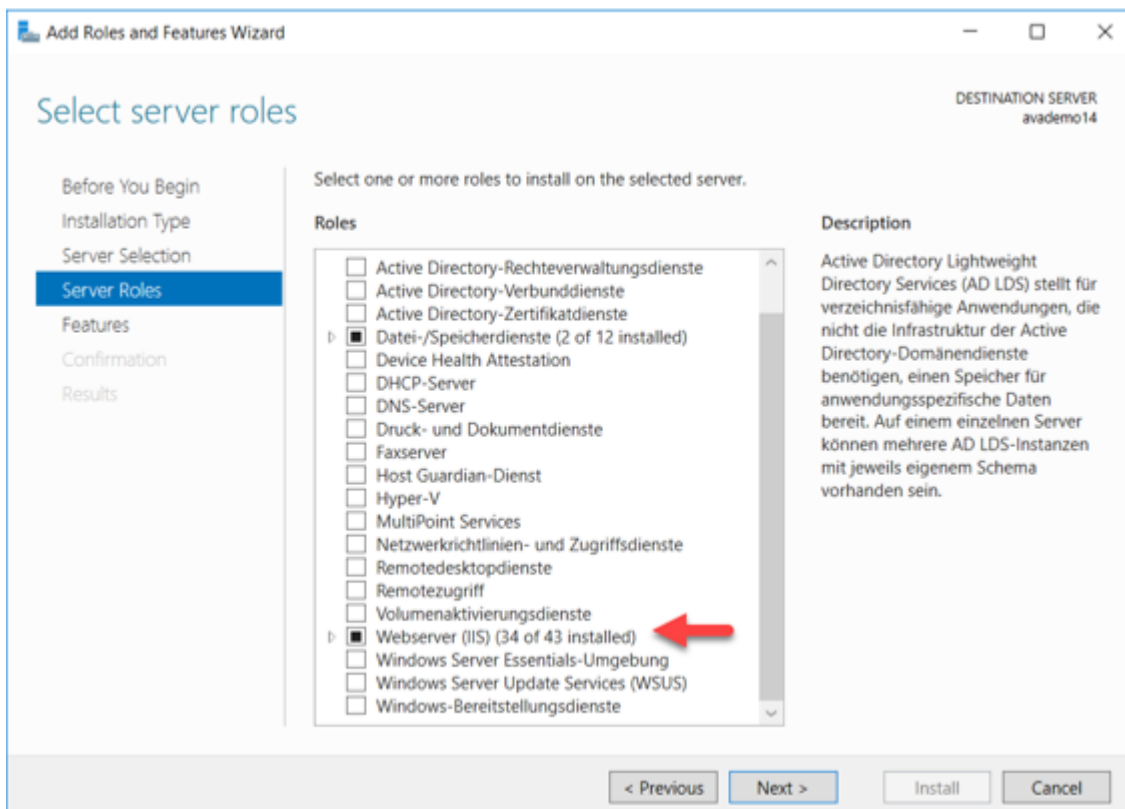
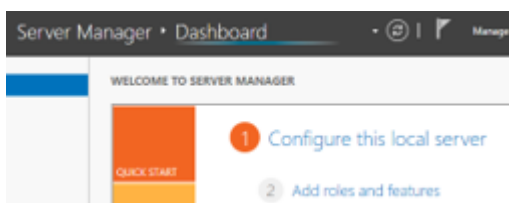


3. IIS auf Webserver konfigurieren

Die IIS Webserverkonfiguration wird wegen der Verifizierung Kerberos authentication benötigt.

3.1 IIS installieren

3.1.1 Configure Microsoft IIS



Common HTTP Features

- Default Document
- Directory Browsing
- HTTP Errors
- Static Content
- HTTP Redirection

Health and Diagnostics

- HTTP Logging
- Logging Tools
- Request Monitor
- Tracing

Performance

- Static Content Compression
- Dynamic Content Compression

Security

- Request Filtering
- Basic Authentication
- Client Certificate Mapping Authentication
- Digest Authentication
- IIS Client Certificate Mapping Authentication
- IP and Domain Restrictions
- URL Authorization
- Windows Authentication

Application Development

- .NET Extensibility 4.x
- ASP
- ASP.NET 4. x
- CGI
- ISAPI Extensions
- ISAPI Filters
- Server Side Includes

Note

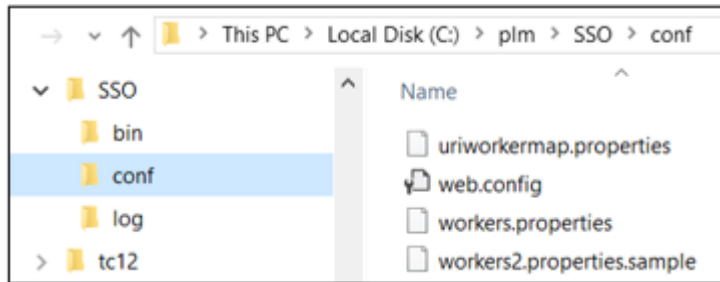
Install only the available ASP.NET 4.x role services. Do not install ASP.NET 3.x role services.

Management Tools

- IIS Management Console

4. C:\plm\SSO einrichten

1. Ordner SSO von ... \avaCentralRepository\avaSSO\c\plm\SSO nach c:\plm kopieren



2. Pfade prüfen in: „C:\plm\SSO\bin\isapi_redirect.properties“

```
isapi_redirect.properties x
1 # Configuration file for the Jakarta ISAPI Redirector
2
3 # The path to the ISAPI Redirector Extension, relative to the website
4 # This must be in a virtual directory with execute privileges
5 extension_uri=/jakarta/isapi_redirect.dll
6
7 # Full path to the log file for the ISAPI Redirector
8 log_file=c:\plm\SSO\log\isapi_redirect.log
9
10 # Log level (debug, info, warn, error or trace)
11 log_level=error
12
13 # Full path to the workers.properties file
14 worker_file=c:\plm\SSO\conf\workers.properties
15
16 # Full path to the uriworkermmap.properties file
17 worker_mount_file=c:\plm\SSO\conf\uriworkermmap.properties
```

3. In „C:\plm\SSO\conf\workers.properties“ host anpassen

```
workers.properties x
10
11 #
12 # Defining a worker named ajp13w and of type ajp13
13 # Note that the name and the type do not have to match.
14 #
15 worker.ajp13w.type=ajp13
16 worker.ajp13w.host=avademol4.hawaii.com
17 worker.ajp13w.port=8009
18 worker.ajp13w.max_packet_size=65536
19
```

5. Modify Tomcat server.xml

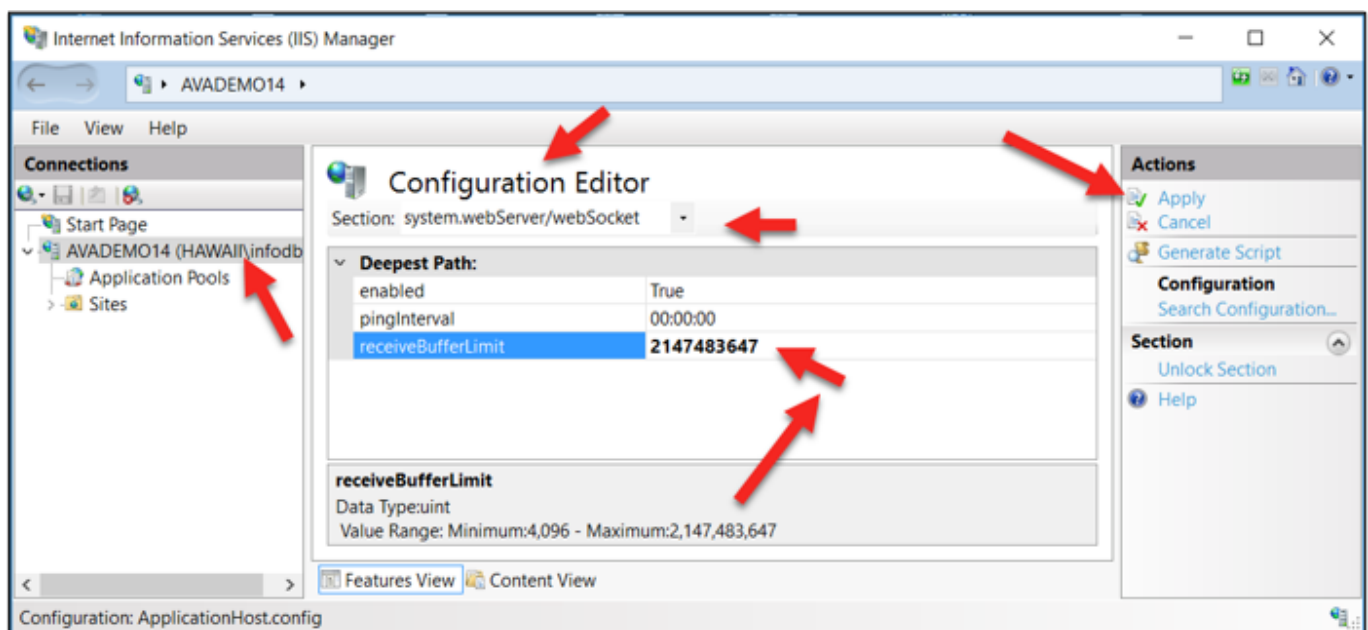
In „C:\plm\webapp\apache-tomcat-9.0.16\conf\server.xml“ anpassen:

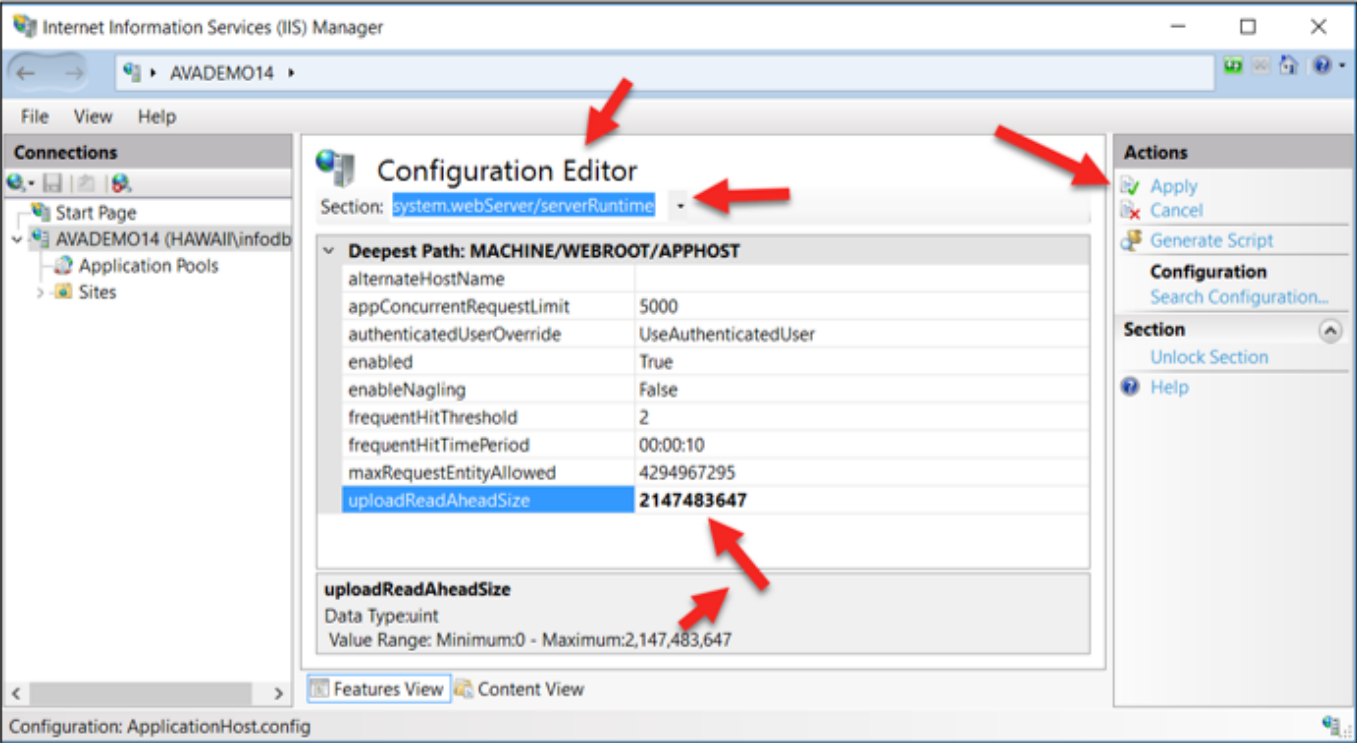

```
server.xml x
114
115      <!-- Define an AJP 1.3 Connector on port 8009 -->
116      <!-- <Connector port="8009" protocol="AJP/1.3" redirectPort="8443" /> -->
117      <Connector port="8009" protocol="AJP/1.3" redirectPort="8443" secretRequired="" maxTh
118
```

```
<!-- <Connector port="8009" protocol="AJP/1.3" redirectPort="8443" /> -->
    <Connector port="8009" protocol="AJP/1.3" redirectPort="8443"
secretRequired="" maxThreads="800" packetSize="65536" URIEncoding="UTF-8"
tomcatAuthentication="false"/>
```

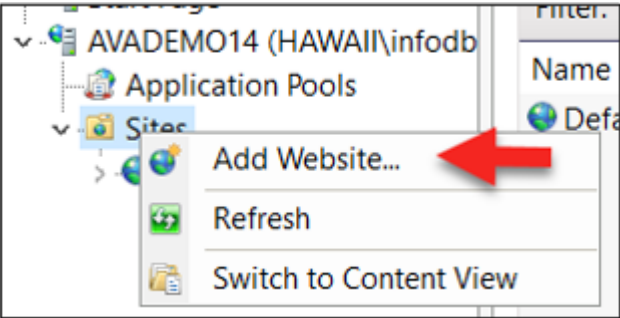
6. IIS konfigurieren

1. Configuration Editor





2. Website hinzufügen



Add Website

Site name: Application pool:

Content Directory

Physical path:

Pass-through authentication

Binding

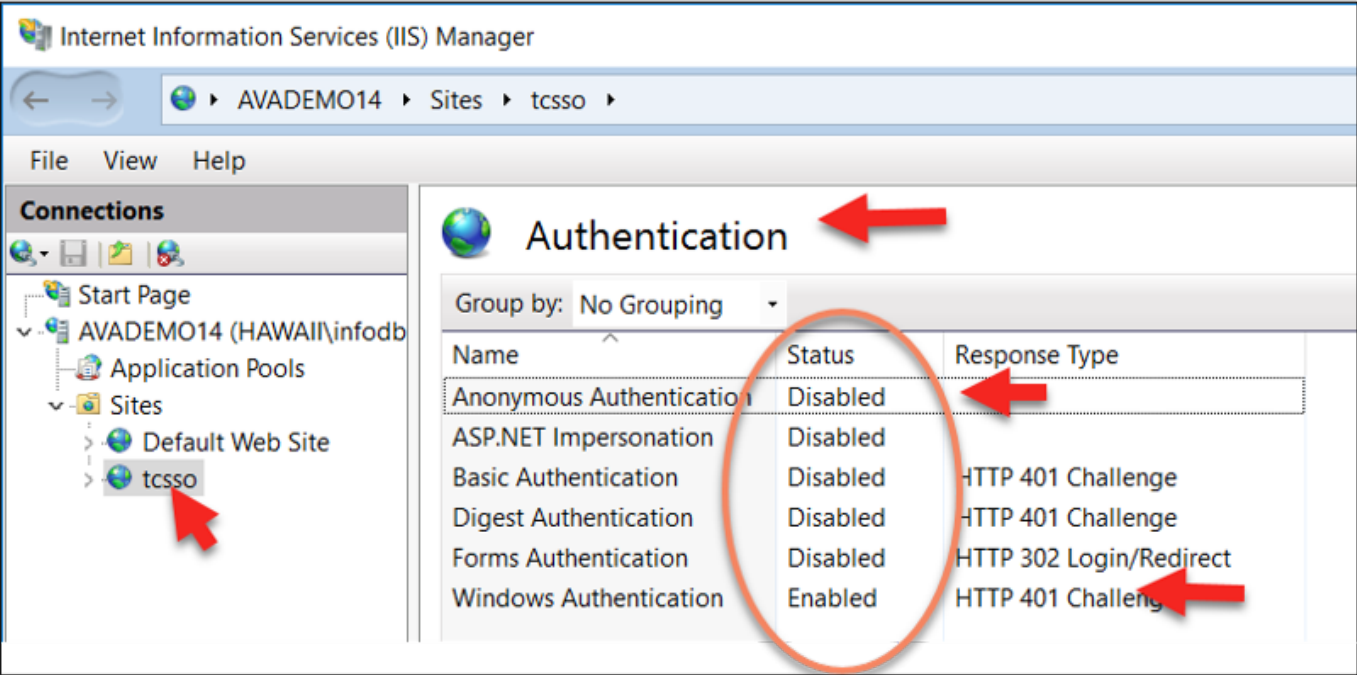
Type: IP address: Port:

Host name:

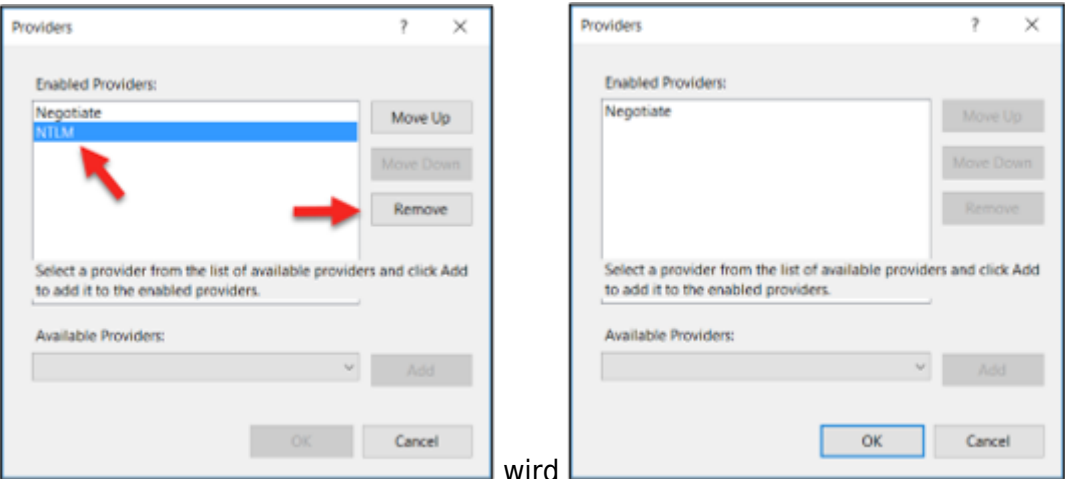
Example: www.contoso.com or marketing.contoso.com

☒ Start Website immediately

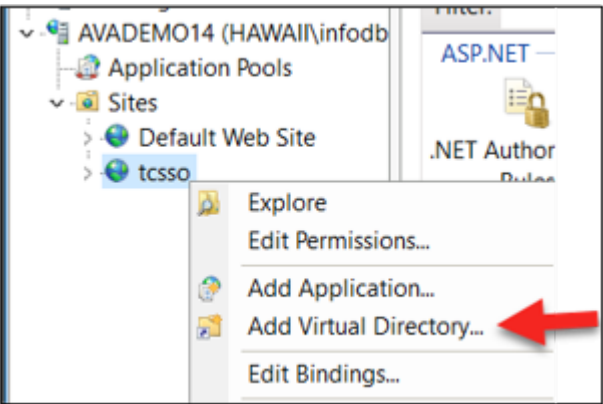
3. Remove NTLM



RMB Windows Authentication, Providers



4. Virtuelle Verzeichnis hinzufügen



Add Virtual Directory ? X

Site name: tcsso
Path: /

Alias:
jakarta

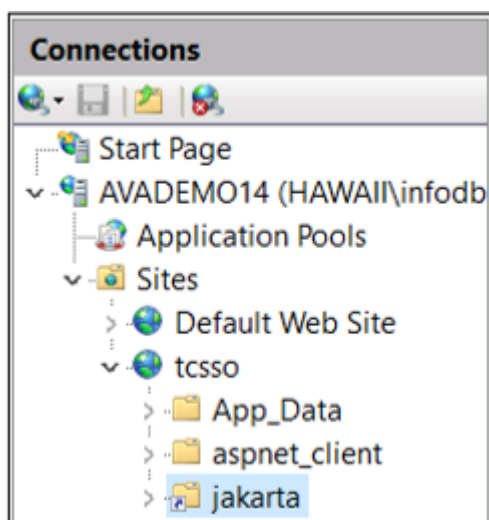
Example: images

Physical path:
C:\plm\SSO\bin

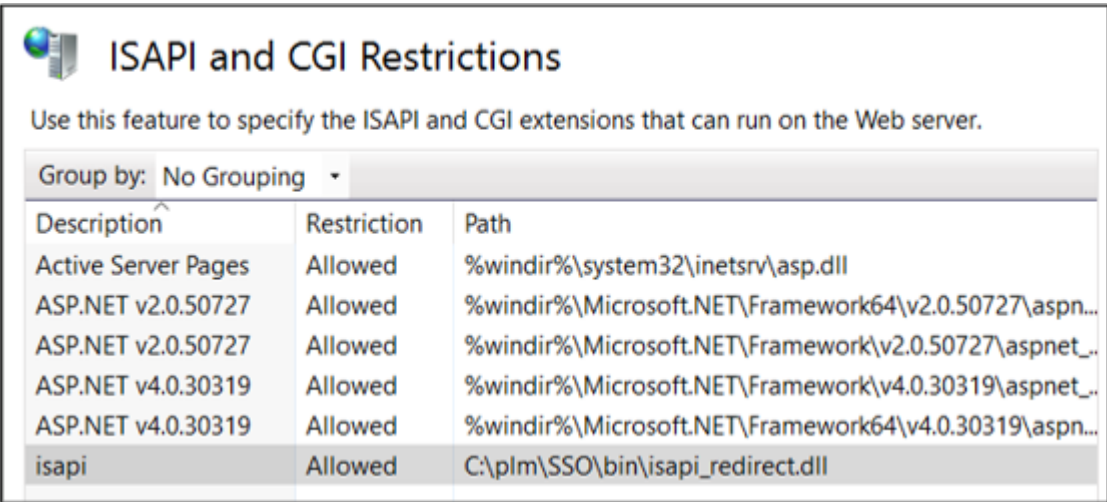
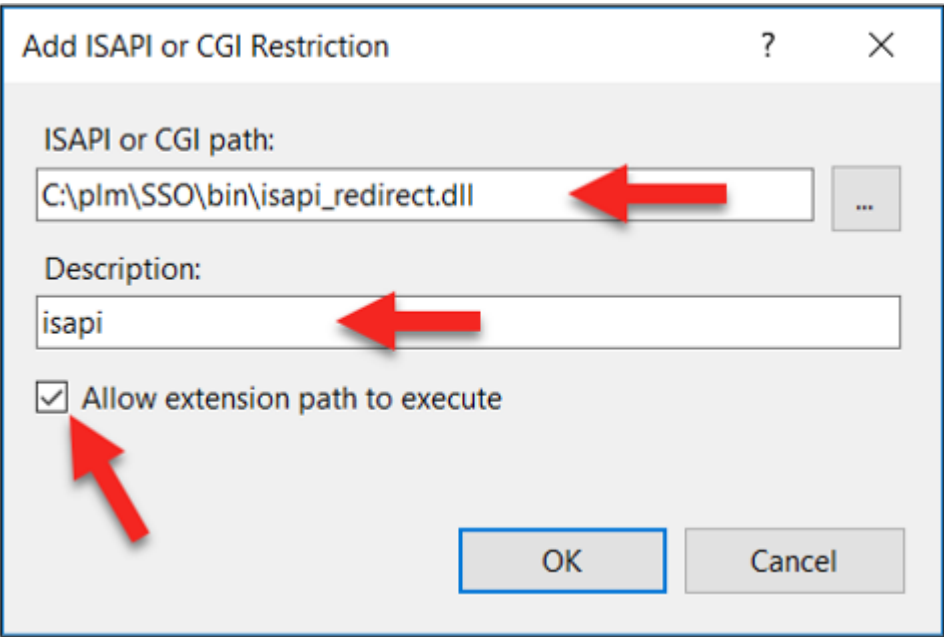
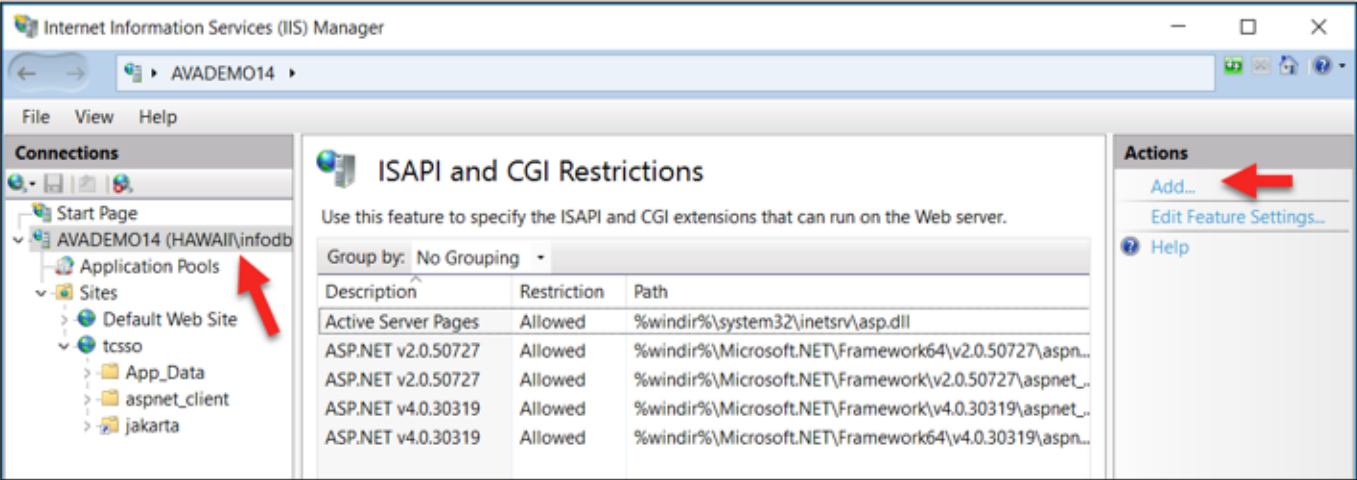
Pass-through authentication

Connect as... Test Settings...

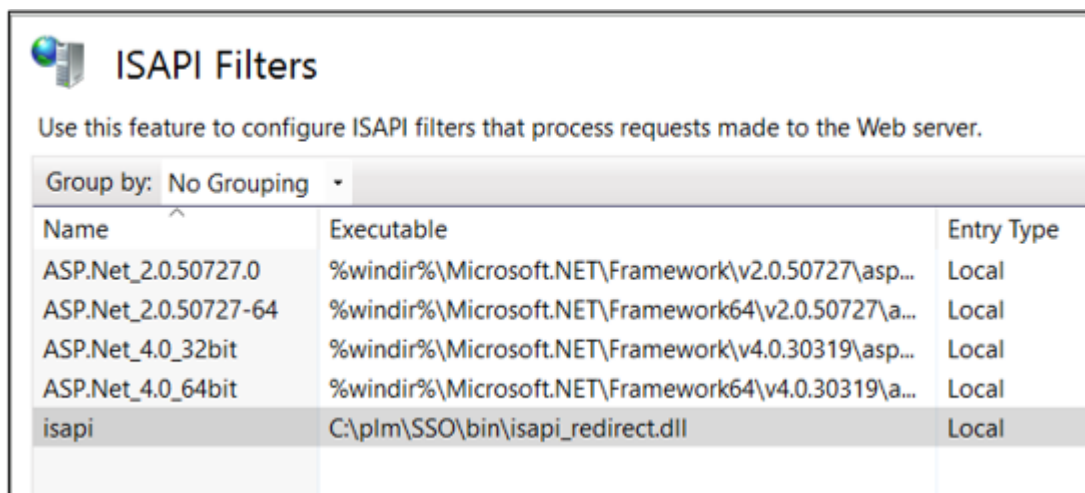
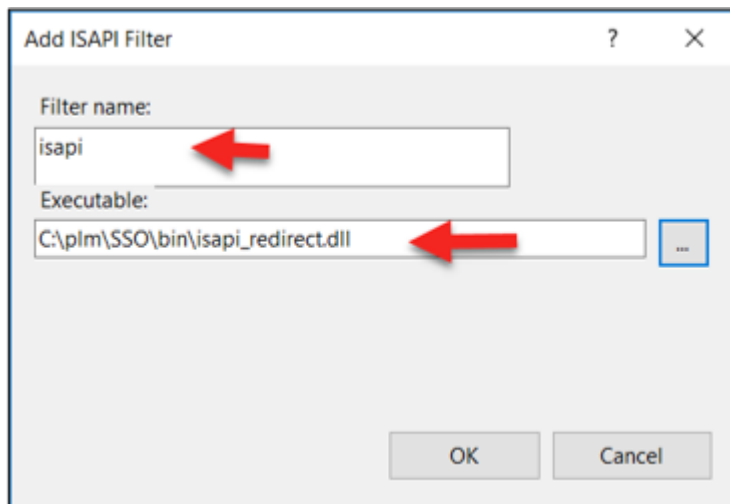
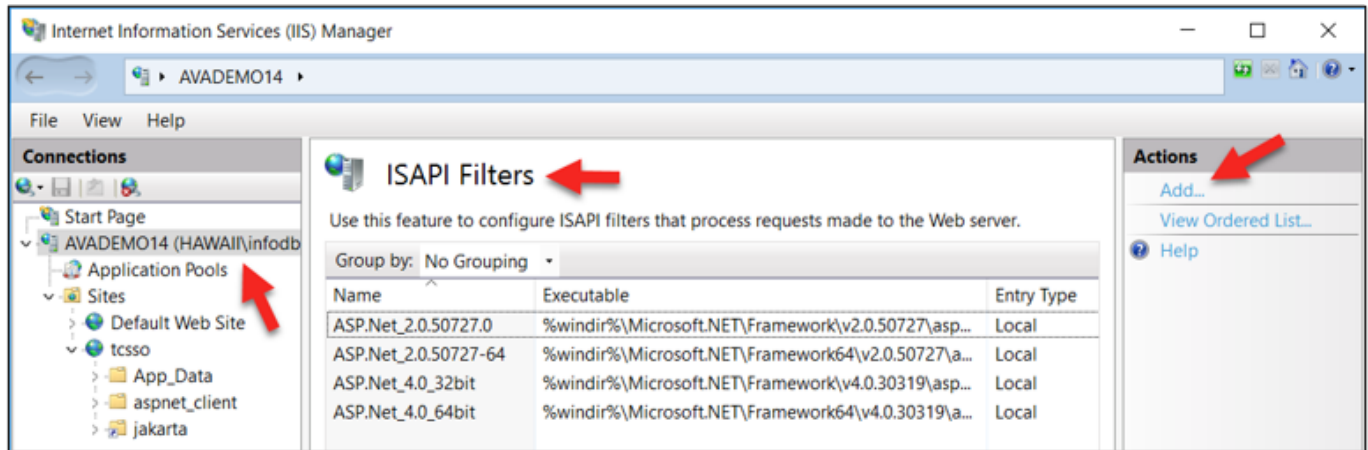
OK Cancel



5. ISAPI and CGI Restrictions



6. ISAPI-Filter



```
Administrator: Command Prompt

Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

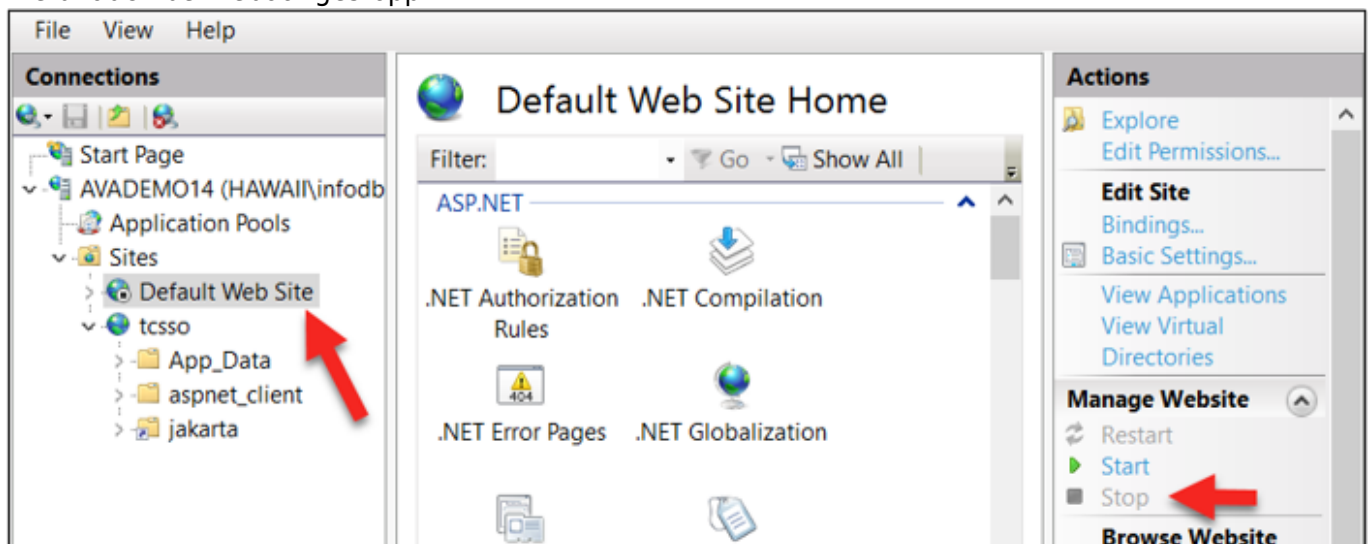
C:\Users\infodba>iisreset ←

Attempting stop...
Internet services successfully stopped
Attempting start...
Internet services successfully restarted

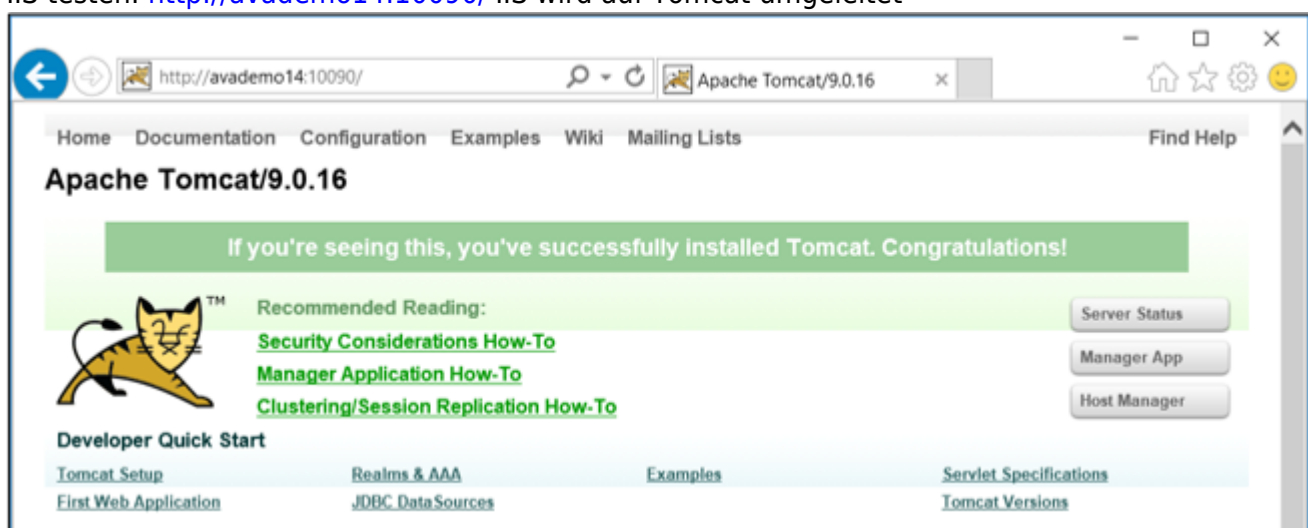
C:\Users\infodba>
```

7. Default Web Site deaktivieren

Bleibt auch bei Reboot gestoppt...



IIS testen: <http://avademol4:10090/> IIS wird auf Tomcat umgeleitet

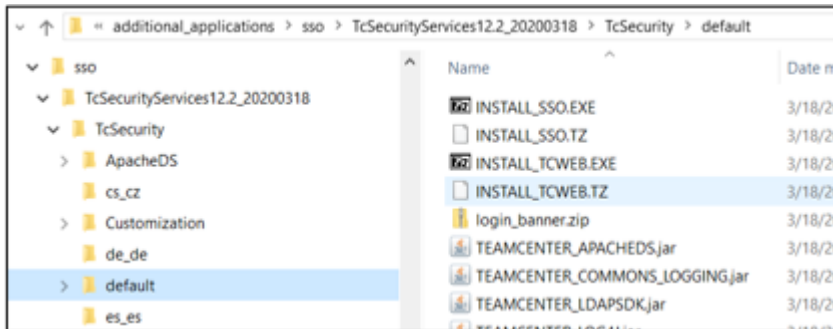


7. Installing Security Services

7.1 SSO Sources vorbereiten

In aktuell installiertem Patch, z.B.

...\Tc12.2.0_patch_8_wntx64\wntx64\additional_applications\sso\TcSecurityServices12.2_20200318.zip
ip
entpacken:

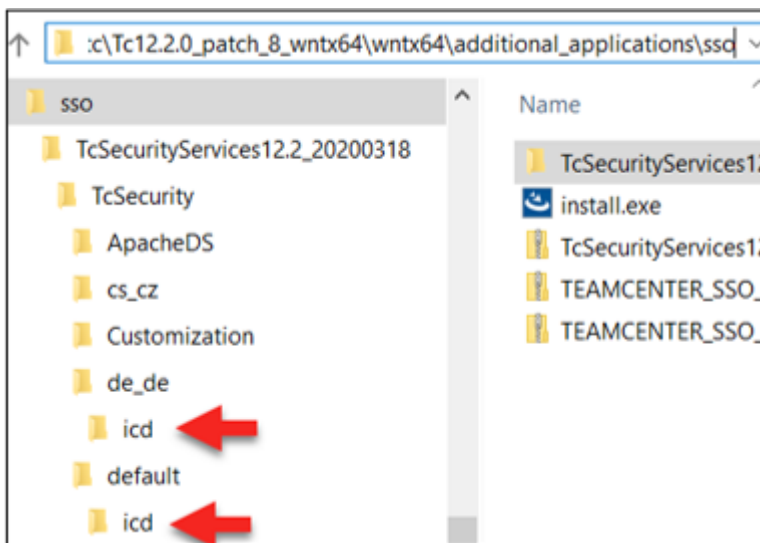


Folgendes ausführen:

...\wntx64\additional_applications\sso\TcSecurityServices12.2_xx\TcSecurity\default\INSTALL_SSO.EXE

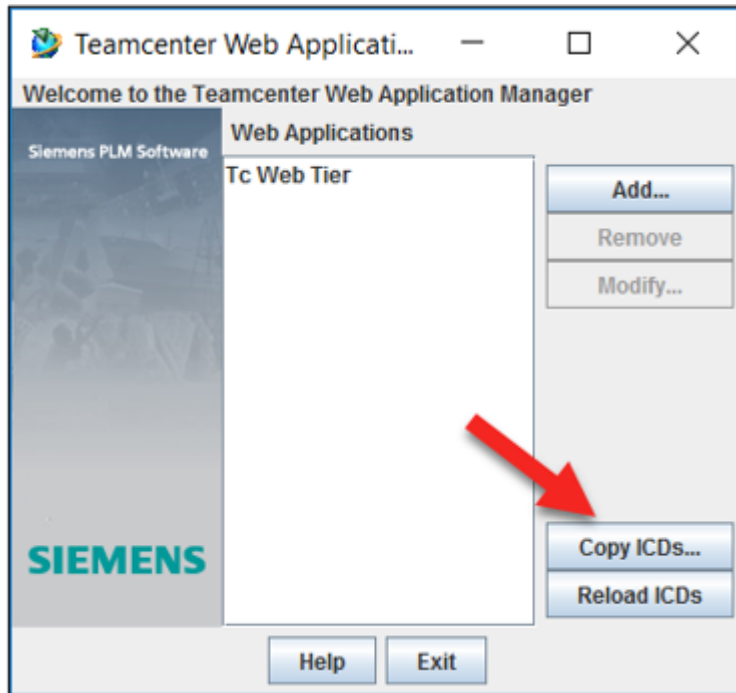
...\wntx64\additional_applications\sso\TcSecurityServices12.2_xx\TcSecurity\de_de\INSTALL_SSO_DE_DE.EXE

Ergebnis: icd Folders

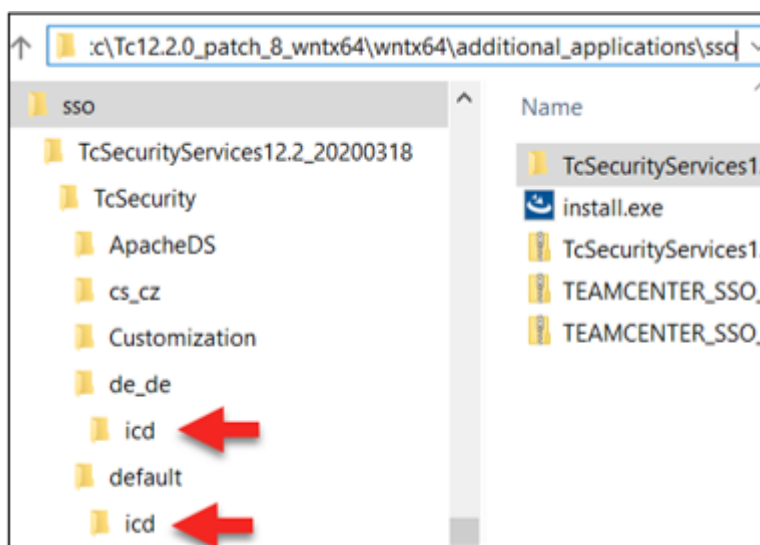


7.2 SSO ICD kopieren

Start „C:\plm\web_tier\insweb.bat«



Zuvor extrahierte ICD einlesen



8. Tss-logiservice erstellen

8.1 Create the Login Service

1. Start the Web Application Manager

- c:\plm\web_tier\insweb.bat

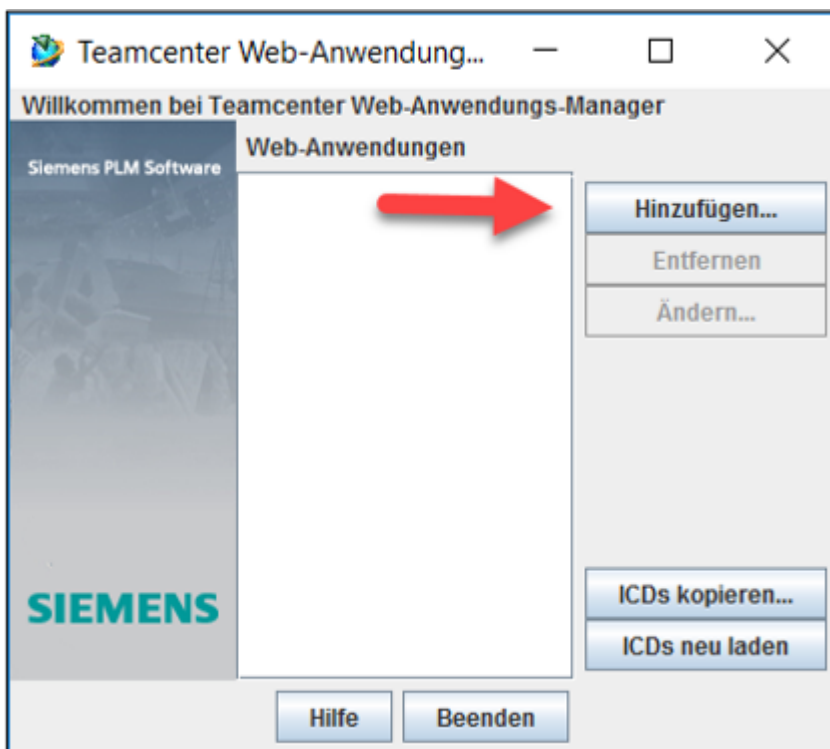
```
C:\Windows\system32\cmd.exe

C:\plm\web_tier>java -mx80m -cp jars\insweb.jar;jars\jdom.jar com.teamcenter.install.insweb.gui.Insweb
Loading of com.teamcenter.install.insweb.gui.TextBundle_de_DE ... succeeded.
Loading of com.teamcenter.install.insweb.struct.TextBundle_de_DE ... succeeded.
Loading of com.teamcenter.install.common.gui.TextBundle_de_DE ... succeeded.
```

Java must be installed...

Teamcenter Web-Anwendungs-Manager

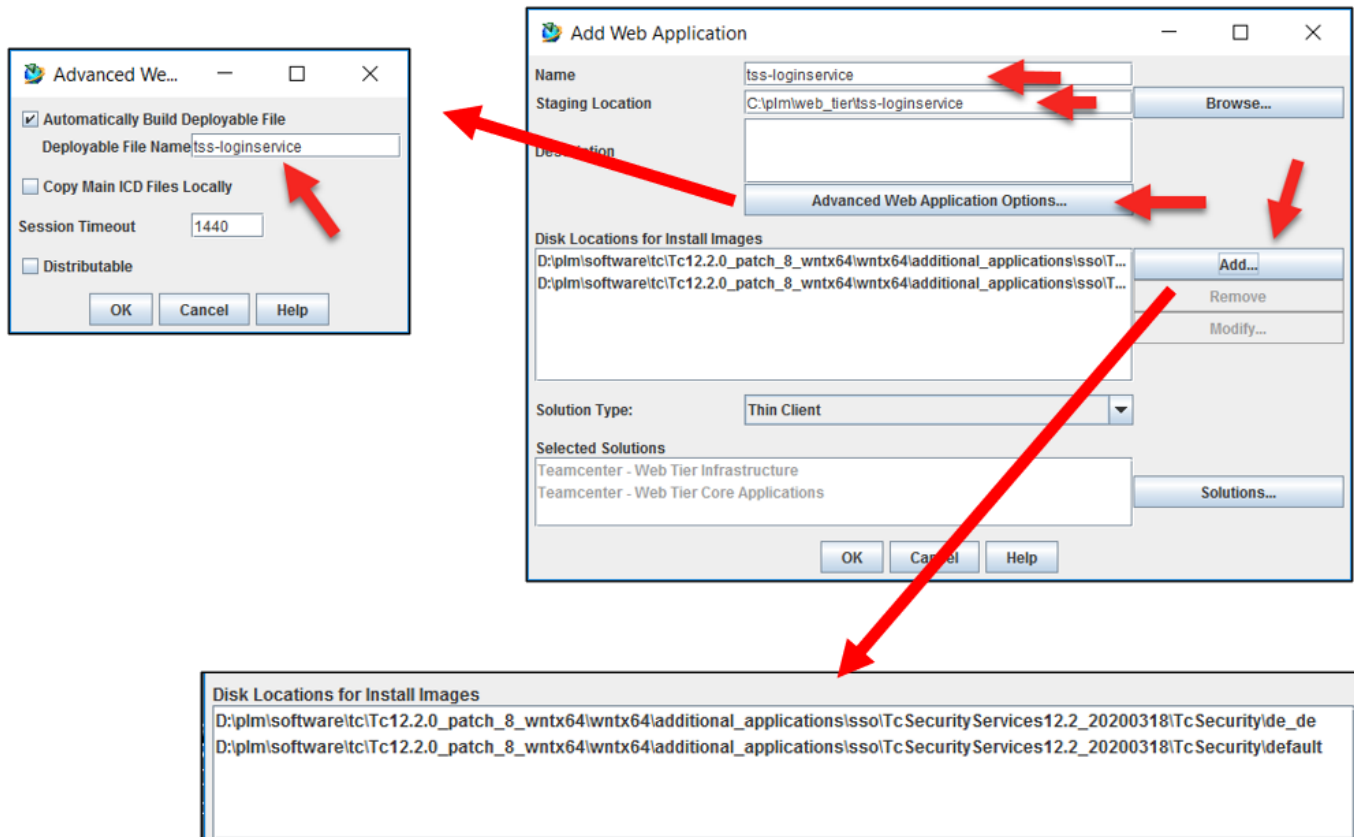
- Select: **Hinzufügen...**



2. Add Web Application

- Name: tss-loginservice
- Staging Location: c:\plm\web_tier\tss-loginservice
- Advanced Web Application Options...

Zu verwendende Datei: tss-loginservice



3. Disk Locations for Install Images

- Add...

Enter disk locations

The Disk Locations for Install Images box contains the default path to the installation files for the Teamcenter solutions on the software distribution image. For this install, select the directory containing the **INSTALL_TCWEB.EXE/TZ** and **INSTALL_SSO.EXE/TZ** files for your system. You can change this default path if necessary by selecting one default path and clicking **Modify**.

Note

Additional language support requires the same process for each **INSTALL_SSO_locale.EXE** file. Add this location to the list of disk locations. For example, the *install-root\de_de* location contains the following files for the German language:

- TEAMCENTER_SSO_LOGINSERVICE_DE_DE.jar
- TEAMCENTER_SSO_LDAPIDPROVIDER_DE_DE.jar
- TEAMCENTER_SSO_LOGINSERVICE_HELP_DE_DE.jar

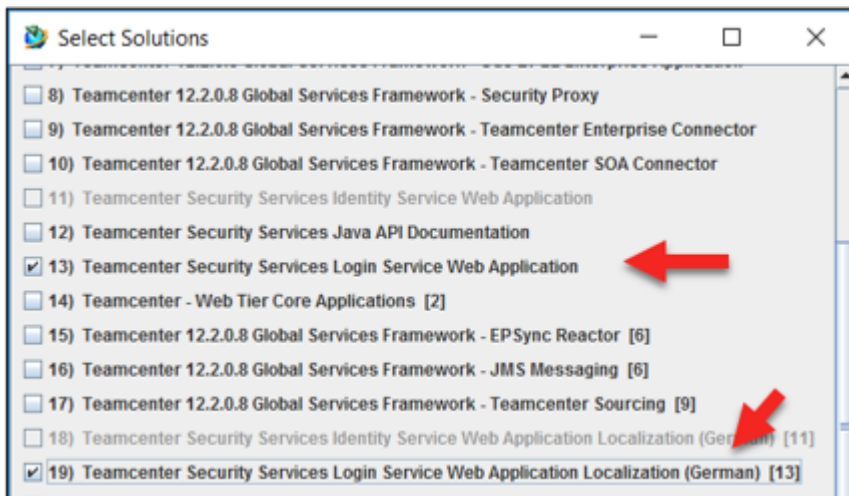
4. Solution Typ: → Thin Client

Lösungstyp: Thin Client

5. Selected Solutions

Solutions...

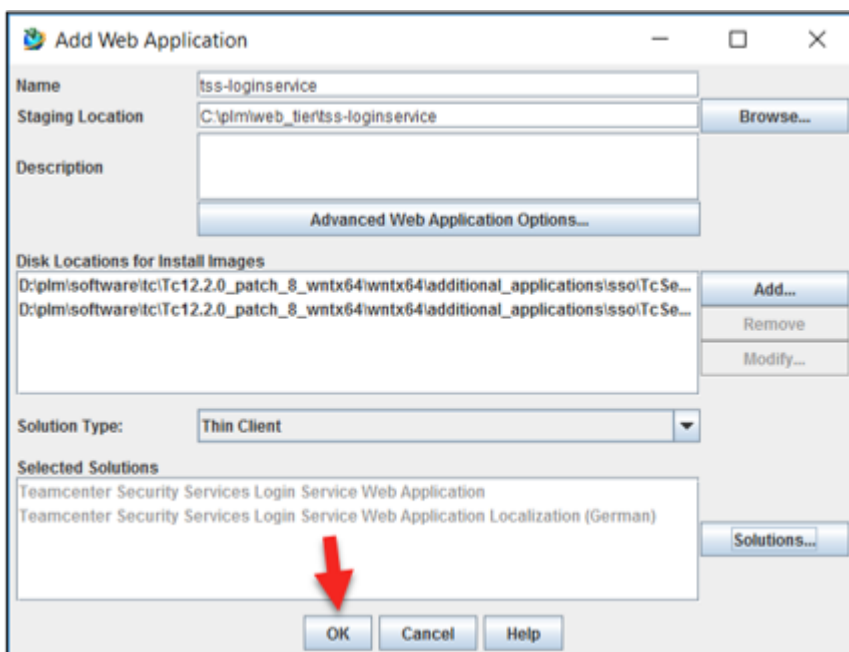
- Select the following:
 - **Security Services Login Service Web Application** (required)
 - **Language** (optional)



- Confirm with: OK

6. Terminate Add Web Application

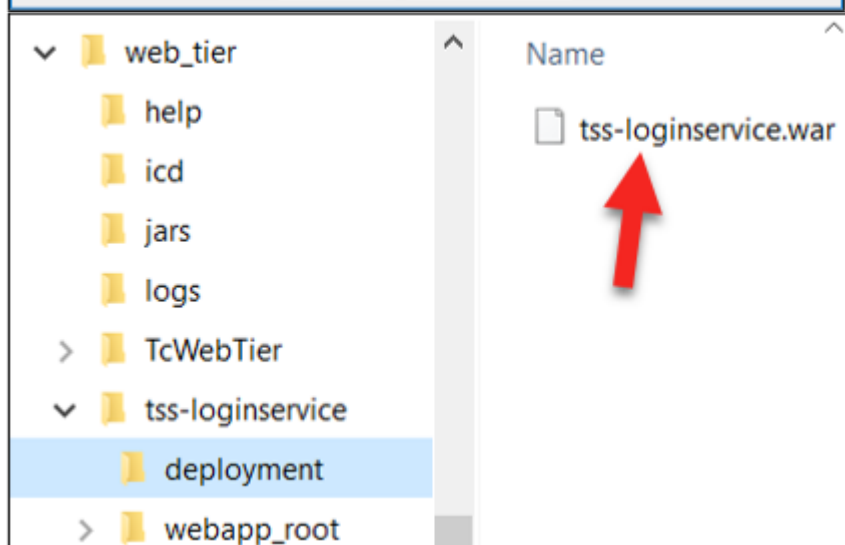
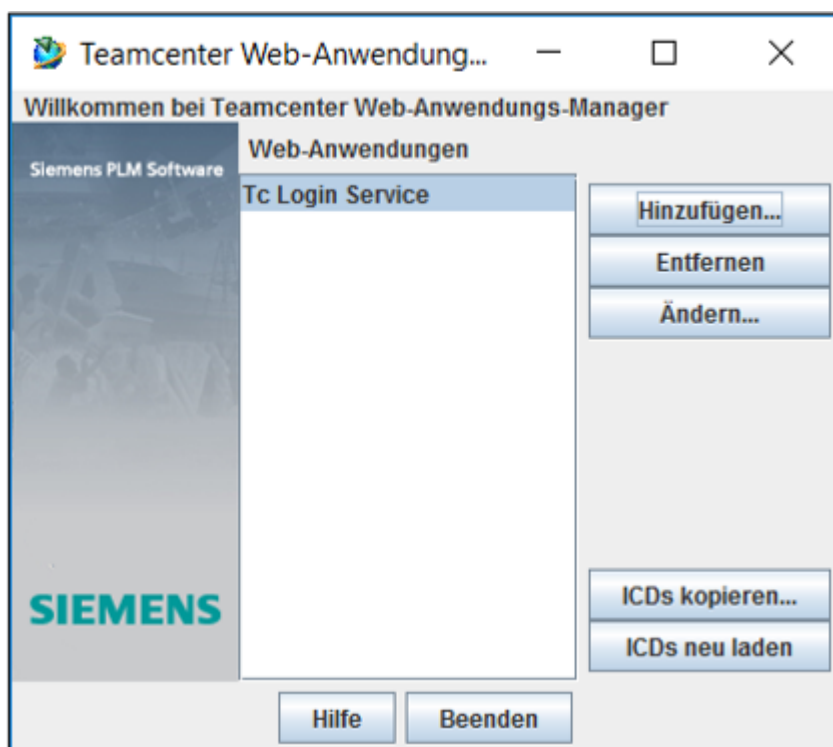
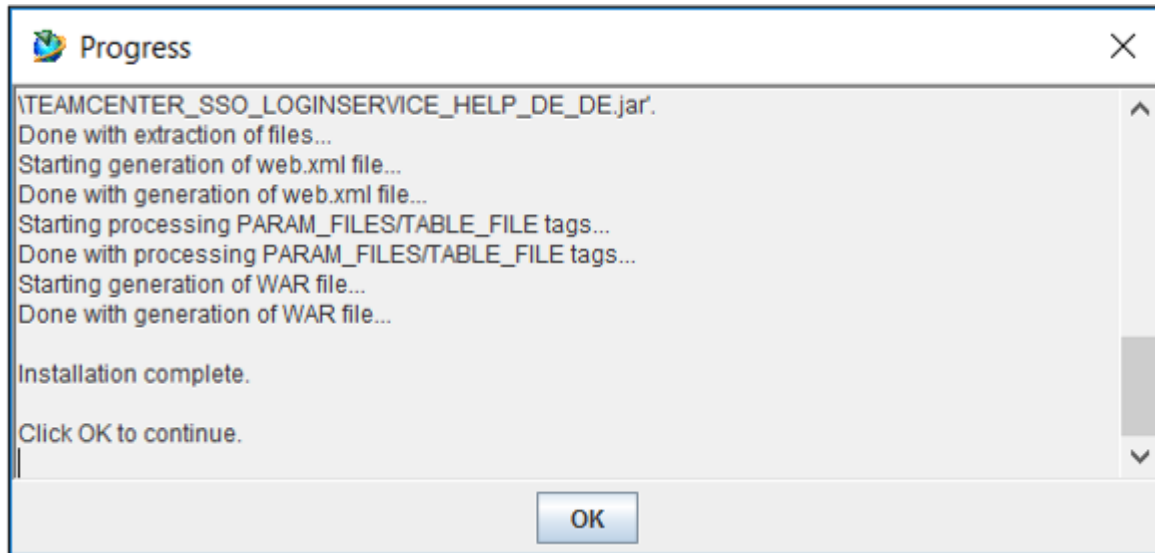
- Check entries...



- Confirm with: OK

7. Progress:

- Confirm with: OK

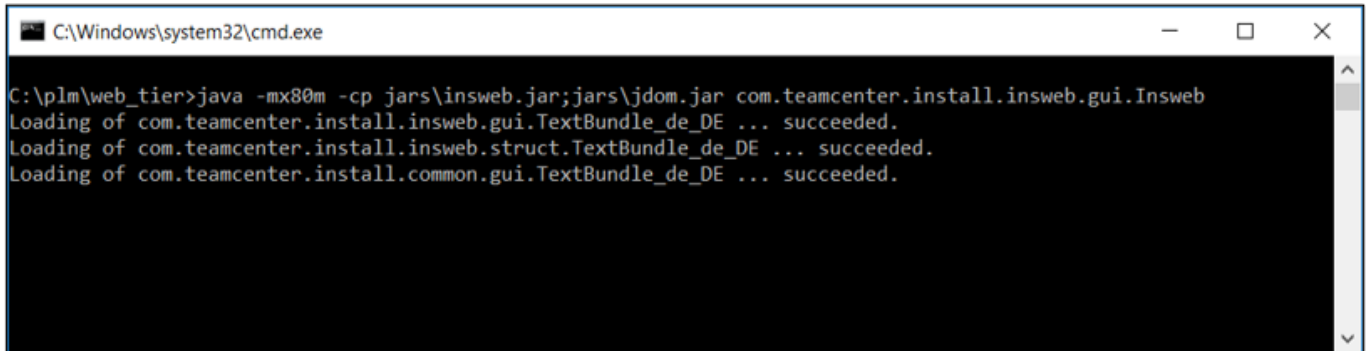


9. Tss-idservice erstellen

9.1 Create the Identity Service

1. Start the Web Application Manager

- c:\plm\web_tier\insweb.bat

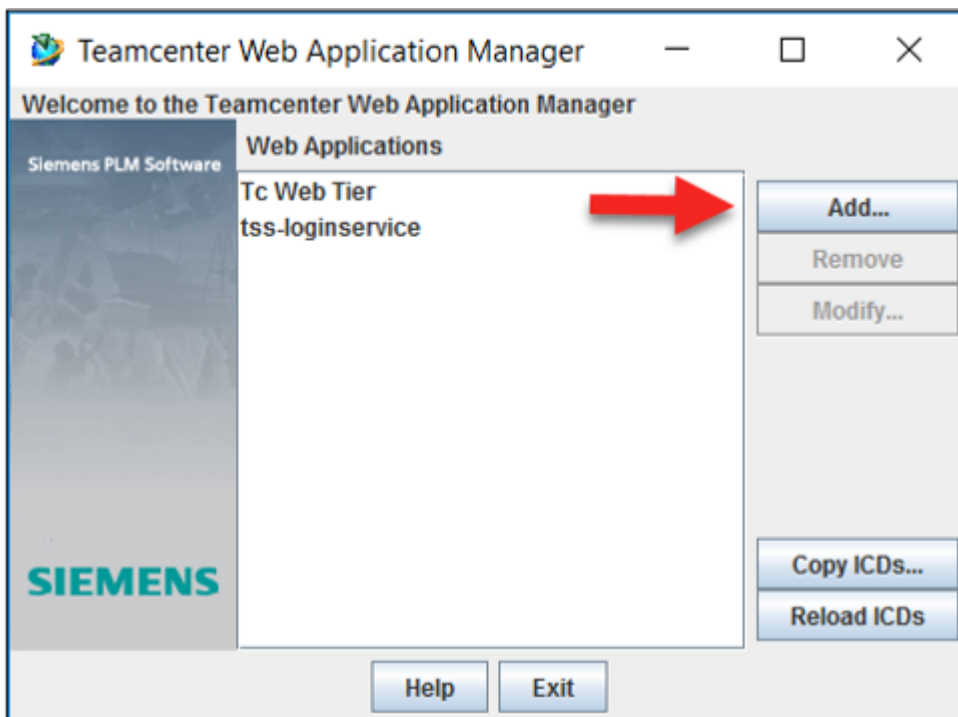


```
C:\Windows\system32\cmd.exe

C:\plm\web_tier>java -mx80m -cp jars\insweb.jar;jars\jdom.jar com.teamcenter.install.insweb.gui.Insweb
Loading of com.teamcenter.install.insweb.gui.TextBundle_de_DE ... succeeded.
Loading of com.teamcenter.install.insweb.struct.TextBundle_de_DE ... succeeded.
Loading of com.teamcenter.install.common.gui.TextBundle_de_DE ... succeeded.
```

Teamcenter Web-Anwendungs-Manager

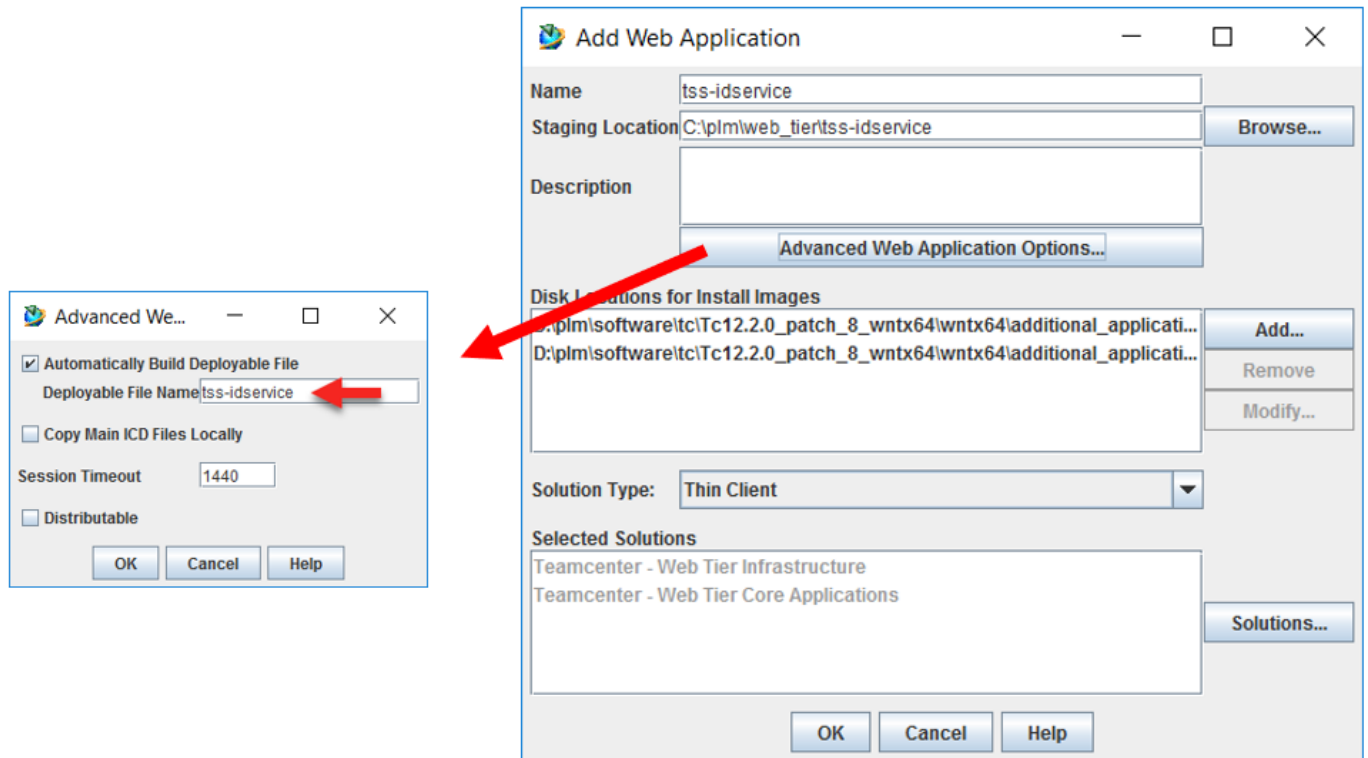
- Select: **Hinzufügen...**



Add Web Application

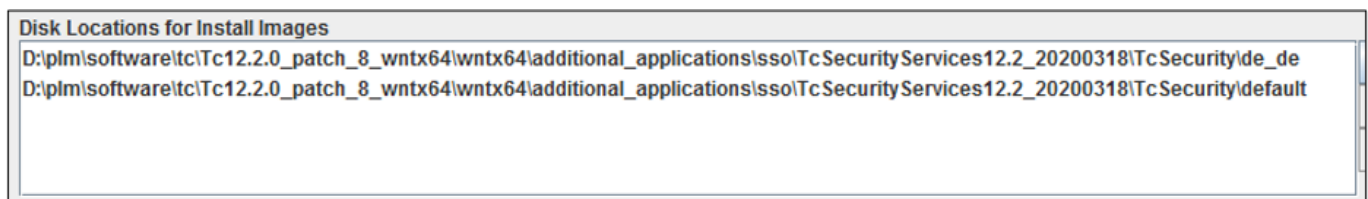
- Name: tss-idservice
- Staging Location: c:\plm\web_tier\tss-idservice
- Advanced Web Application Options...

Zu verwendende Datei: tss-idservice

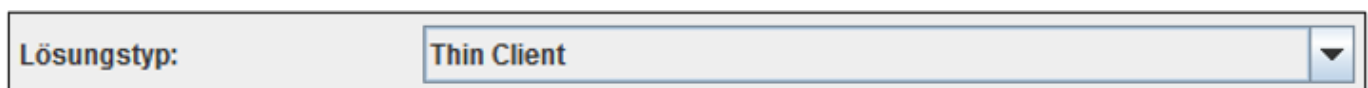


2. Disk Locations for Install Images

- Add...



3. Solution Typ: → Thin Client

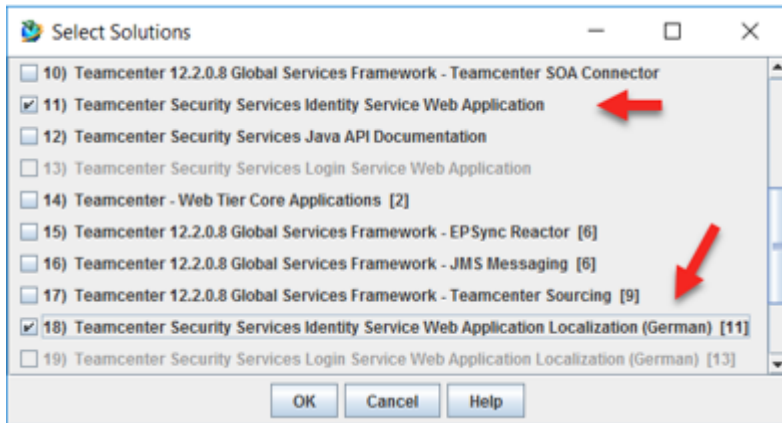


4. Selected Solutions



Select the following:

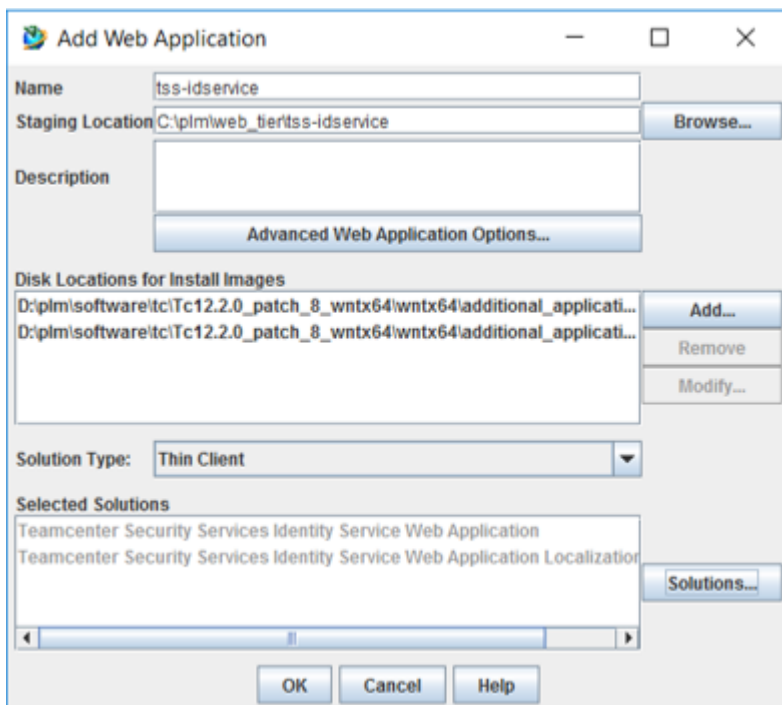
- **TC Security Services Identity Service Web Application** (required)
- **Language** (optional)



- Confirm with: OK

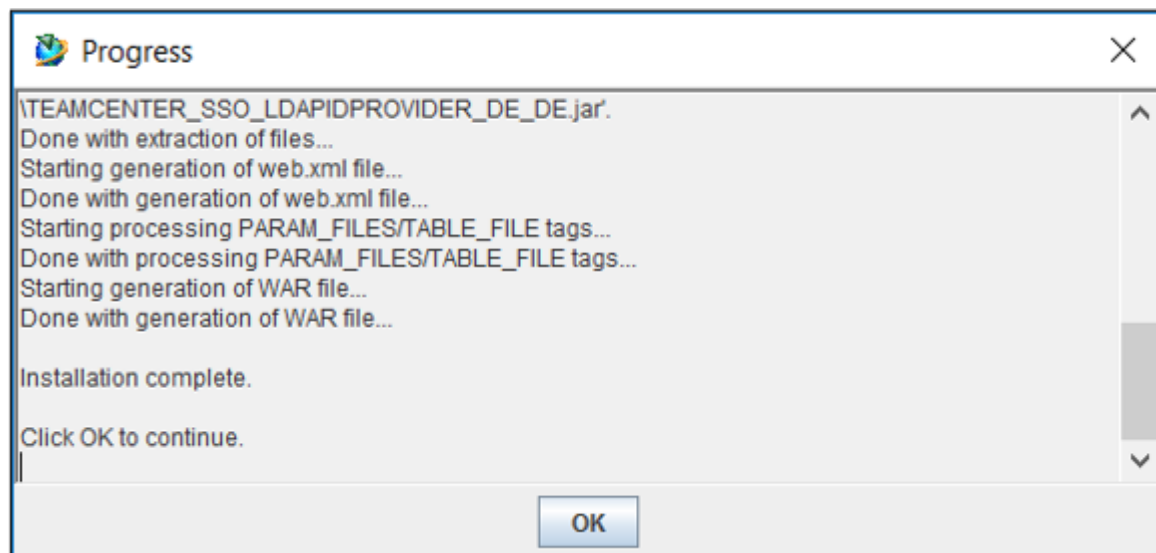
Terminate Add Web Application

- Check entries...

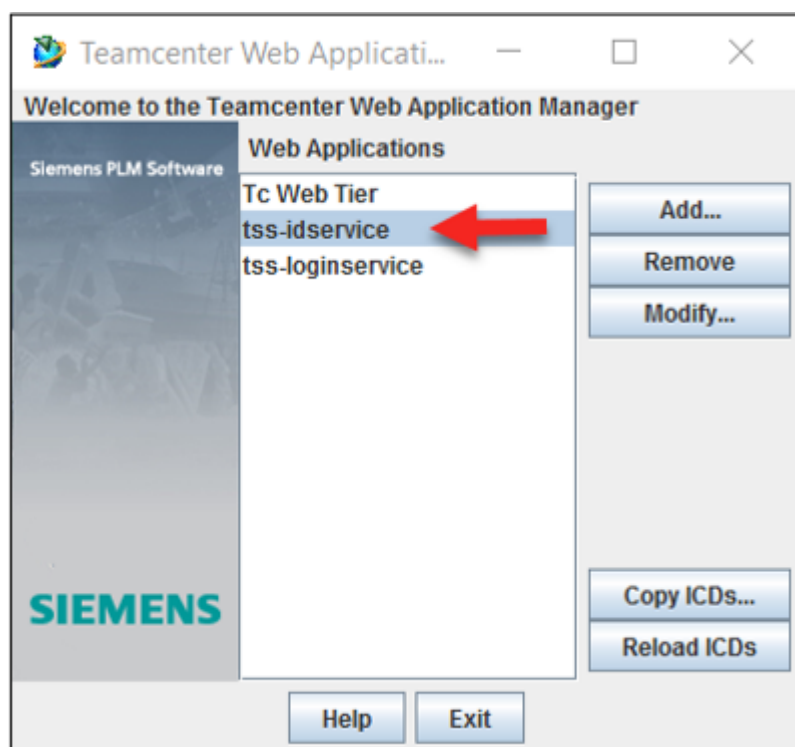


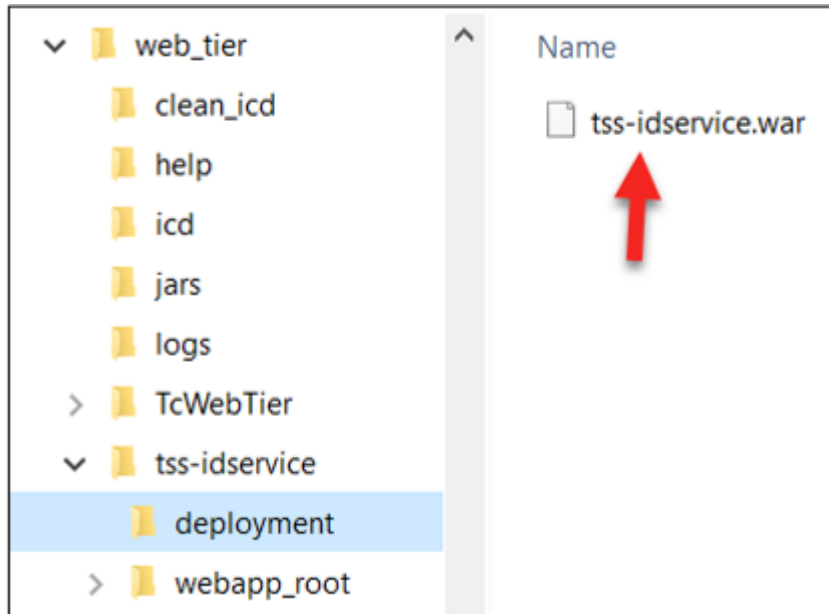
- Confirm with: OK

5. Progress:



- Confirm with: **OK**

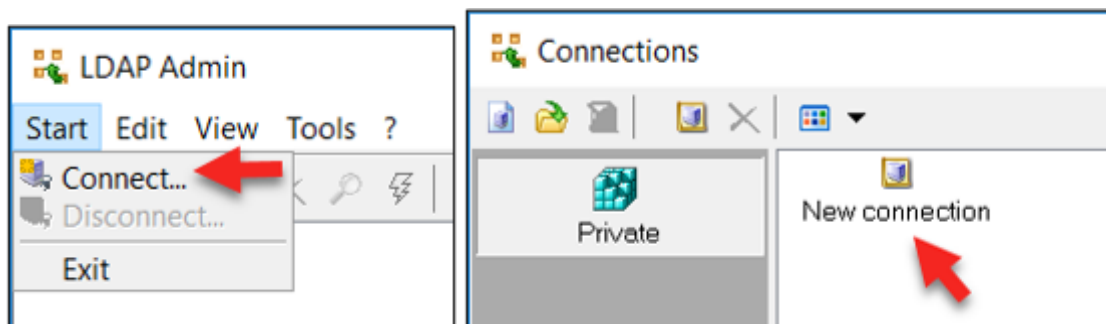




10. Tss-loginservices anpassen

10.1 LdapAdmin

10.1.1 Mit LdapAdmin Loginuser überprüfen



Connection properties

Connection name:

General Options Attributes

Connection:

Host: Port: Version:

Base:

☒ Simple authentication
☐ GSS-API

Account

Username:

Password:

☐ Anonymous connection

Ldapadmin

Connection is successful.

10.1.2 tss-loginservice anpassen, Modify Tables

Teamcenter Web Applicati...

Welcome to the Teamcenter Web Application Manager

Web Applications

Siemens PLM Software

Tc Web Tier

tss-idservice

tss-loginservice

Modify Web Application

Name:

Staging Location:

Description:

Solution Type: **Thin Client**

Installed Solutions:

- Teamcenter Security Services Login Service Web Application
- Teamcenter Security Services Login Service Web Application Localization (German)

ICD Files Last Copied: <No copy done>

Buttons: OK, Cancel, Help

Right Panel Buttons:

- Modify Web Application Information...
- Modify Disk Locations...
- Modify Context Parameters...
- Modify Tables... (indicated by a red arrow)
- Add Solutions...
- Reinstall Solutions...
- Generate Deployable File...
- Copy ICD Files...
- View Component Versions...

Modify...

Tables

Login Input Definitions

Buttons: OK, Cancel, Help

Modify...

Modify Table

Table: Login Input Definitions

name	where	required	idpkey
tcsso_username	form	true	User
tcsso_password	form	false	Password
tcsso_newpassword	form	false	NewPassword
tcsso_confirmpass...	form	false	NotNeeded
tcsso_locale	form	false	UserLocale

Buttons: Add Row..., Remove Row

Table Description:

The value must be of type 'BOOLEAN'. This column requires a value in each field.

* idpkey: This defines the corresponding key name as known within the underlying identity provider.

The value must be of type 'STRING'. This column requires a value in each field.

Buttons: OK, Cancel, Help

10.1.3 tss-loginservice anpassen, Modify Context Parameters

Modify Web Application

Name: tss-loginservice

Staging Location: C:\plm\web_tier\tss-loginservice

Description:

Solution Type: Thin Client

Installed Solutions

- Teamcenter Security Services Login Service Web Application
- Teamcenter Security Services Login Service Web Application Localization (German)

ICD Files Last Copied: <No copy done>

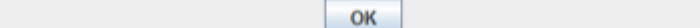
Buttons on the right:

- Modify Web Application Information...
- Modify Disk Locations...
- Modify Context Parameters...
- Modify Tables...
- Add Solutions...
- Reinstall Solutions...
- Generate Deployable File...
- Copy ICD Files...
- View Component Versions...

Buttons at the bottom:

- OK
- Cancel
- Help

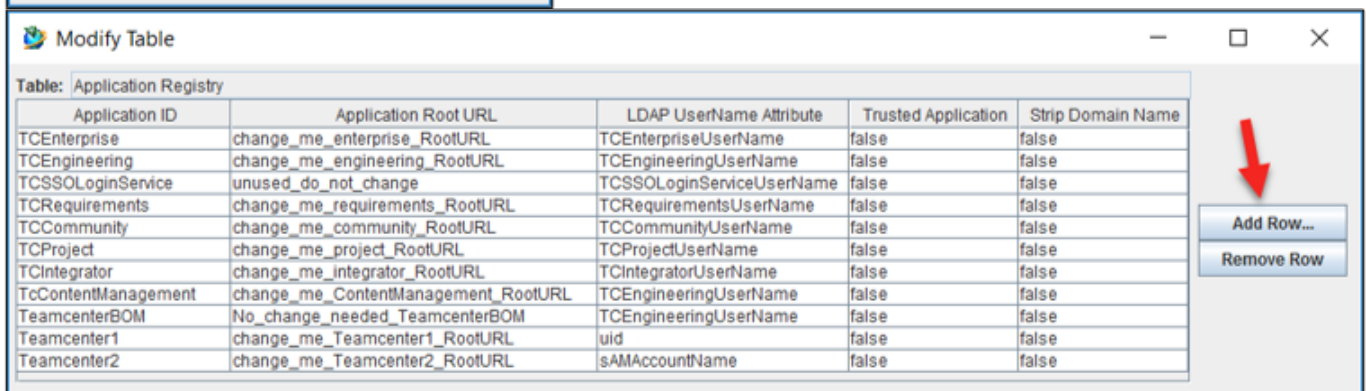
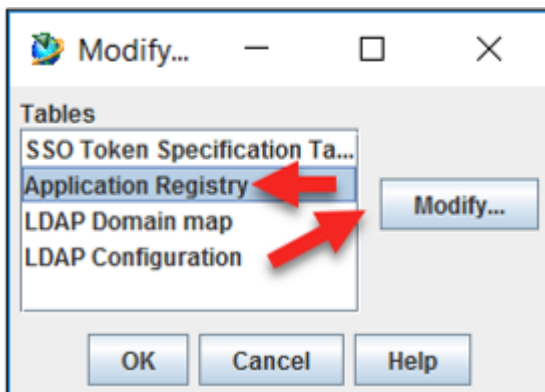
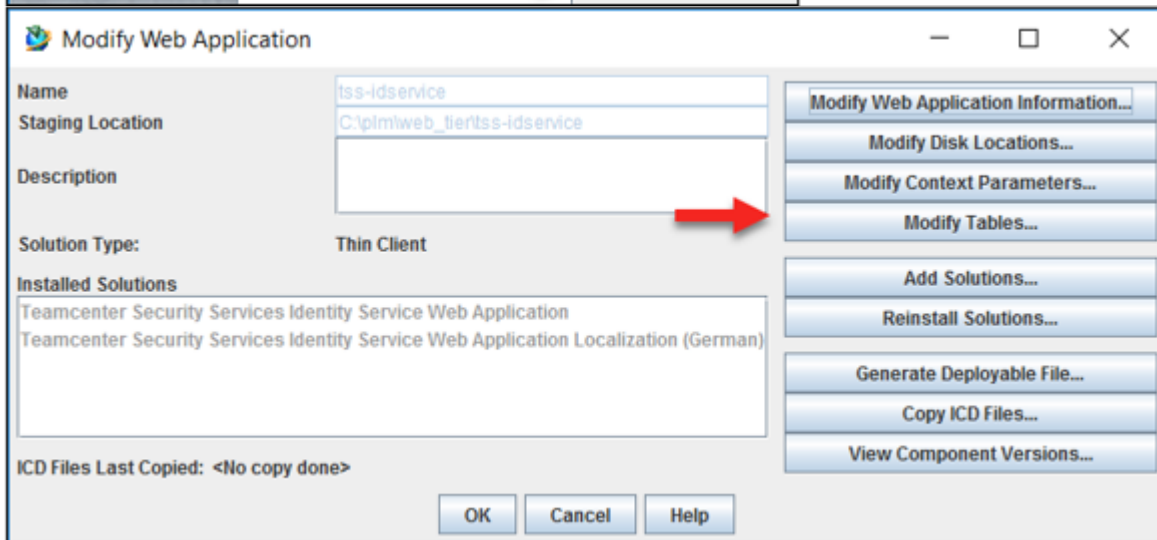
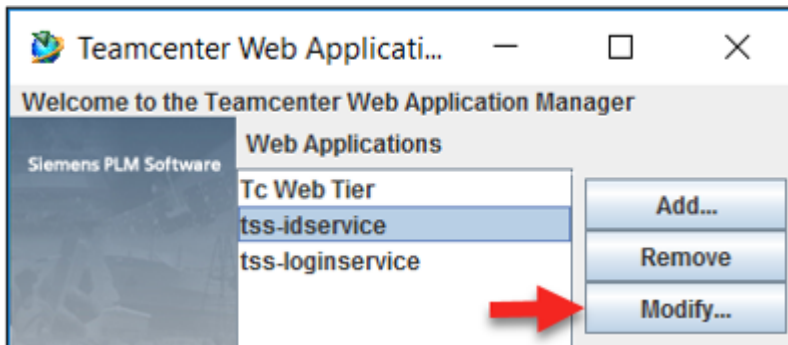
tcsso.login_service.sso_service_url:	http://avademo14.hawaii.com:7070/tss-idservice
identityServicePassword:	sicheres Passwort eingeben: 1nFodbAA
tcsso.behind_sso_gateway:	true
tcsso.gateway.field.type:	remote_user
tcsso.gateway.field.name:	REMOTE_USER
tcsso.login_service.enable_session_agent_applet:	false
tcsso.login_service.enableCsrf:	false



Context Parameters		
Req	Name	Value
☐	webmaster	change_me_webmaster_name@change_me_email_domain
☐	tcsso.login_service.appid	TCSSOLoginService
☐	tcsso.login_service.http_connection_close	keep-alive
☐	tcsso.login_service.rp_cookieNamePattern	PD-H-SESSION-ID, PD-S-SESSION-ID, SMSESSION
☐	tcsso.login_service.proxyURL	
☐	tcsso.login_service.sso_service_url	http://avademio14.hawaii.com:7070/tss-idservice
☐	identityServicePassword	*****
☐	tcsso.behind_sso_gateway	true
☐	tcsso.gateway.field.type	remote_user
☐	tcsso.gateway.field.name	REMOTE_USER
☐	tcsso.username.filter.class	
☐	tcsso.client.enable.notice.consent.logon.banner	false
☐	tcsso.forgotten.password.URL	
☐	tcsso.online_help.enable	true
☐	tcsso.login_service.enable_session_agent_applet	false
☐	tcsso.login_service.force_web_browser_login	false
☐	tcsso.frame_ancestors	none
☐	tcsso.federation_type	none
☐	tcsso.federation_url	
☐	tcsso.federation_reply_url	
☐	tcsso.federation_logout_url	
☐	tcsso.cors_whitelist	
☐	DEBUG	warn
☐	tcsso.login_service.enableCsrf	false

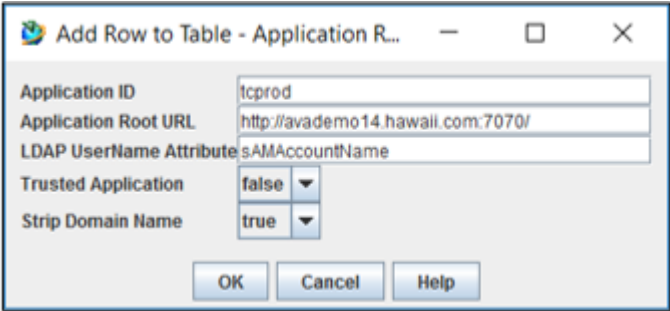
10.2 Tss-idservices anpassen

10.2.1 tss-idservice anpassen, Modify Tables

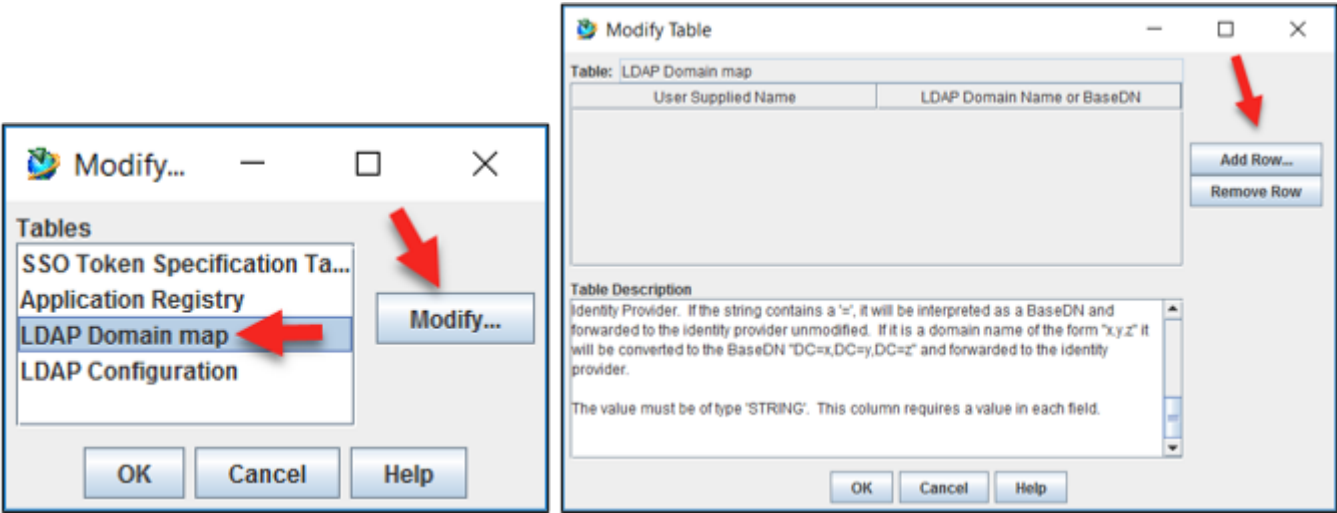
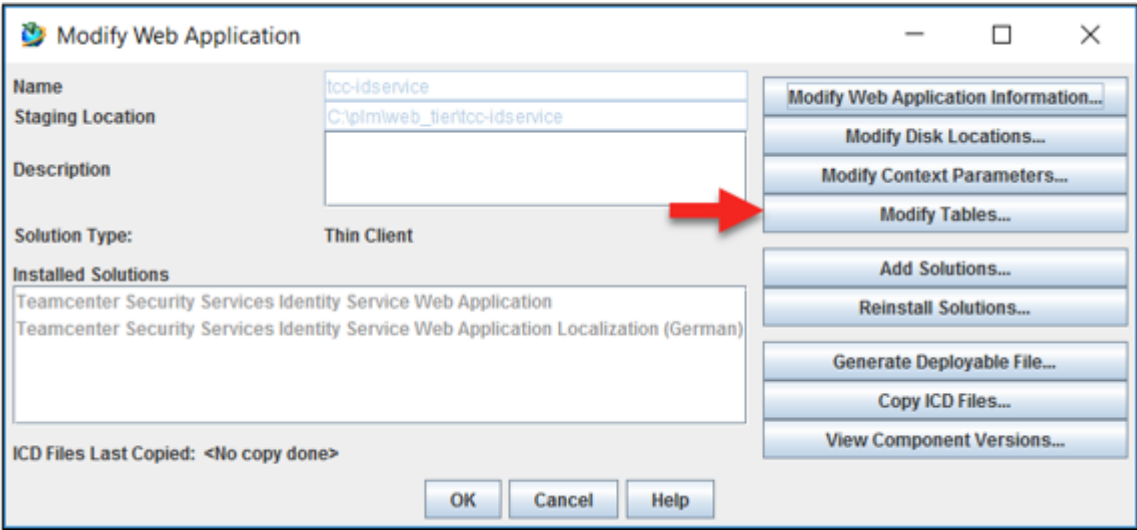


Application ID:	tcprod (SID...)
Application Root URL:	http://avademo14.hawaii.com:7070/

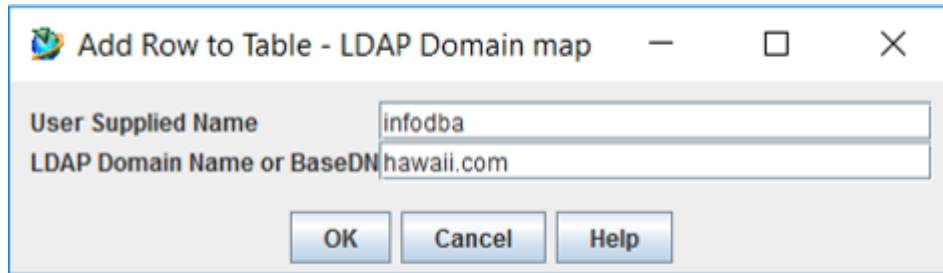
LDAP UserName Attribute:	sAMAccountName
Trusted Application:	false
Strip Domain Name:	true



10.2.2 tss-idservice anpassen, Modify Tables



User Supplied Name:	infodba (Domänenbenutzer welcher abfragen darf ob TC-User Mitglied in Domäne ist)
LDAP Domain Name or BaseDN:	hawaii.com



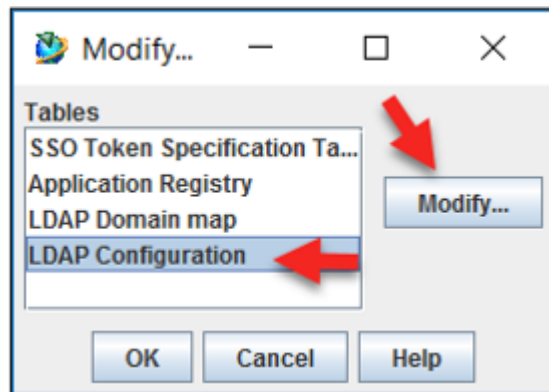
Add Row to Table - LDAP Domain map

User Supplied Name: infodba

LDAP Domain Name or BaseDN: hawaii.com

OK Cancel Help

10.2.3 tss-idservice anpassen, Modify Tables



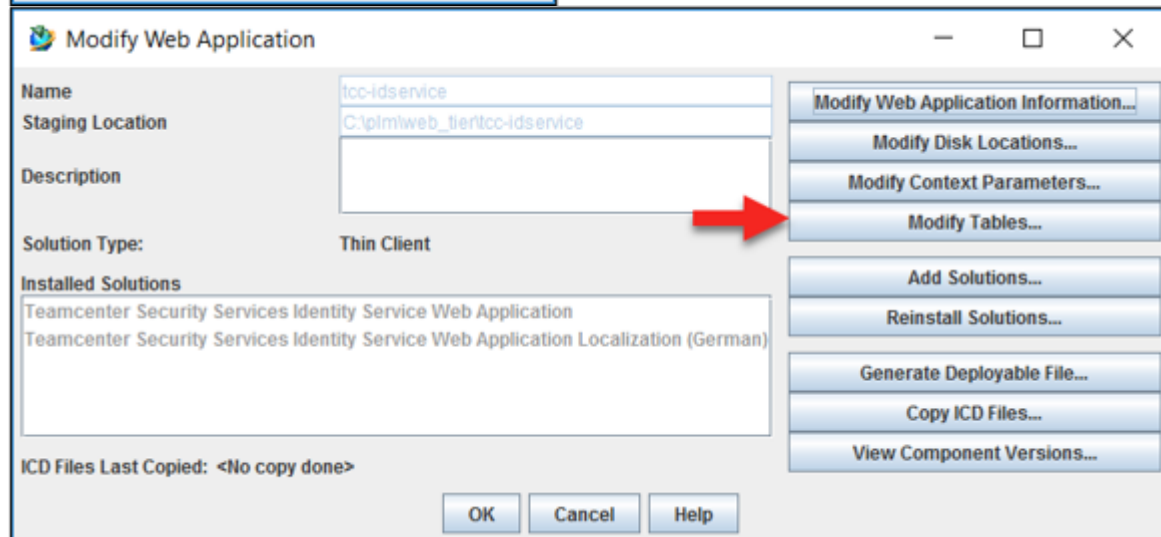
Modify...

Tables

- SSO Token Specification Ta...
- Application Registry
- LDAP Domain map
- LDAP Configuration**

Modify...

OK Cancel Help



Modify Web Application

Name: tcc-idservice

Staging Location: C:\pim\web_tier\tcc-idservice

Description:

Solution Type: Thin Client

Installed Solutions:

- Teamcenter Security Services Identity Service Web Application
- Teamcenter Security Services Identity Service Web Application Localization (German)

ICD Files Last Copied: <No copy done>

OK Cancel Help

Modify Web Application Information...

Modify Disk Locations...

Modify Context Parameters...

Modify Tables...

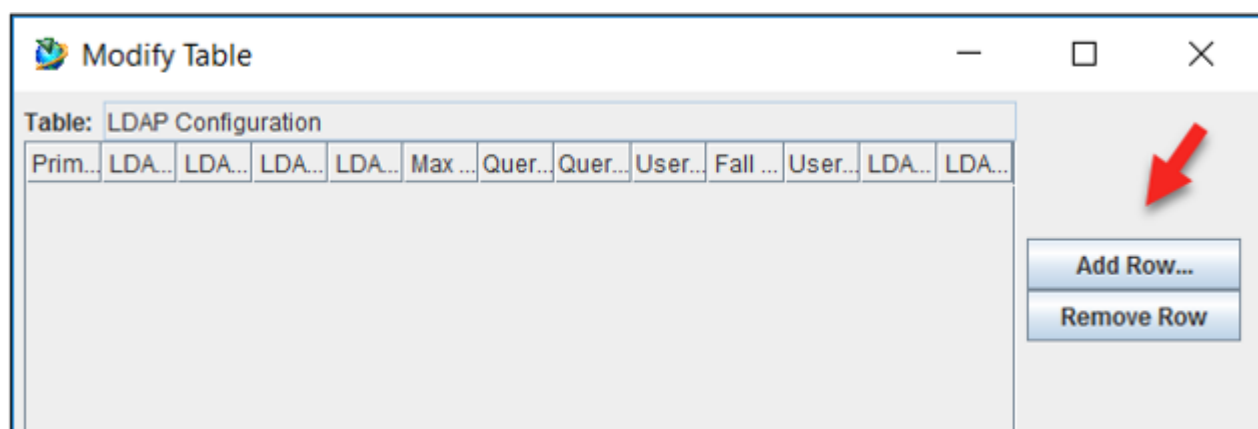
Add Solutions...

Reinstall Solutions...

Generate Deployable File...

Copy ICD Files...

View Component Versions...



Modify Table

Table: LDAP Configuration

Prim...	LDA...	LDA...	LDA...	LDA...	Max ...	Quer...	Quer...	User...	Fall ...	User...	LDA...	LDA...

Add Row...

Remove Row

Add Row to Table - LDAP Configurati...

Primary LDAP

LDAP Host

LDAP Port Number

LDAP Port Number Override?

LDAP Connect Type

Max LDAP Connections

Query DN

Query DN Password

UserObjectClass

Fall back to User Attribute

User Attribute

LDAP Connection Setup Delay

LDAP Connection Timeout

Y

avademo14.hawaii.com

389

N

ldap

20

infodba@hawaii.com

.....

user

Y

sAMAccountName

-1

0

OK

Cancel

Help

Primary LDAP:	Y
LDAP Host:	avademo14.hawaii.com
LDAP Port Number:	389
LDAP Port Number Override?:	N
LDAP Connect Type:	ldap
Max LDAP Connections:	20
Query DN:	infodba@hawaii.com
Query DN Password:	infodba (Passwort User)
UserObjectClass:	user
Fall back to User Attribute:	Y
User Attribute:	sAMAccountName
LDAP Connection Setup Delay:	-1
LDAP Connection Timeout:	0

10.2.4 tss-idservice anpassen, Modify Context Parameters

Modify Web Application

Name: tcc-id-service
 Staging Location: C:\plm\web_tier\tcc-id-service
 Description:
 Solution Type: Thin Client
 Installed Solutions:
 Teamcenter Security Services Identity Service Web Application
 Teamcenter Security Services Identity Service Web Application Localization (German)
 ICD Files Last Copied: <No copy done>

Buttons on the right:
 Modify Web Application Information...
 Modify Disk Locations...
 Modify Context Parameters...
 Modify Tables...
 Add Solutions...
 Reinstall Solutions...
 Generate Deployable File...
 Copy ICD Files...
 View Component Versions...

Buttons at the bottom: OK, Cancel, Help

identityServicePassword:	sicheres Passwort eingeben: 1nFodbAA (gleiches wie bei loginservice!!!)
tcsso.LogLevel	Authentication failures
tcsso.AuthLogDir	c:\plm\SSO\log

All authentication events

- None
- Authentication successful
- Authentication failures
- All authentication events

Modify Context Parameters

Req	Name	Value
☐	webmaster	change_me_webmaster_name...
☐	identityProvider	com.teamcenter.ss.identity.spi...
☐	identityServicePassword	
☐	passwordLifetime	30
☐	mediatorPassword	
☐	tokenLifetime	600
☐	sessionLifetime	600
☐	tcsso.LogLevel	All authentication events
☐	tcsso.AuthLogDir	c:\plm\SSO\log
☐	LDAPVersion	3
☐	PasswordResetEnabled	false
☐	PasswordResetMessage	
☐	GatewayAliasingEnabled	false
☐	ReferralsEnabled	false
☐	ReferralHopLimit	5
☐	DEBUG	warn

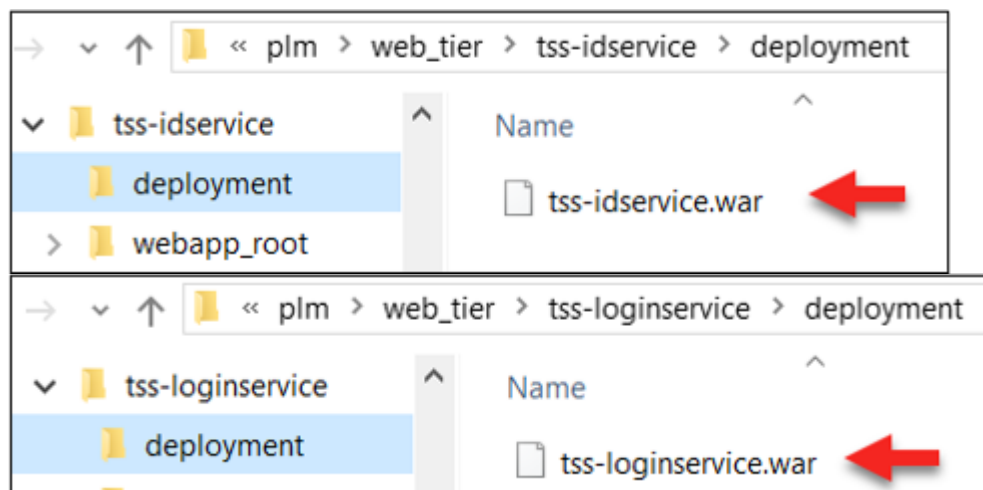
Progress

File generation complete.
 Click OK to continue.

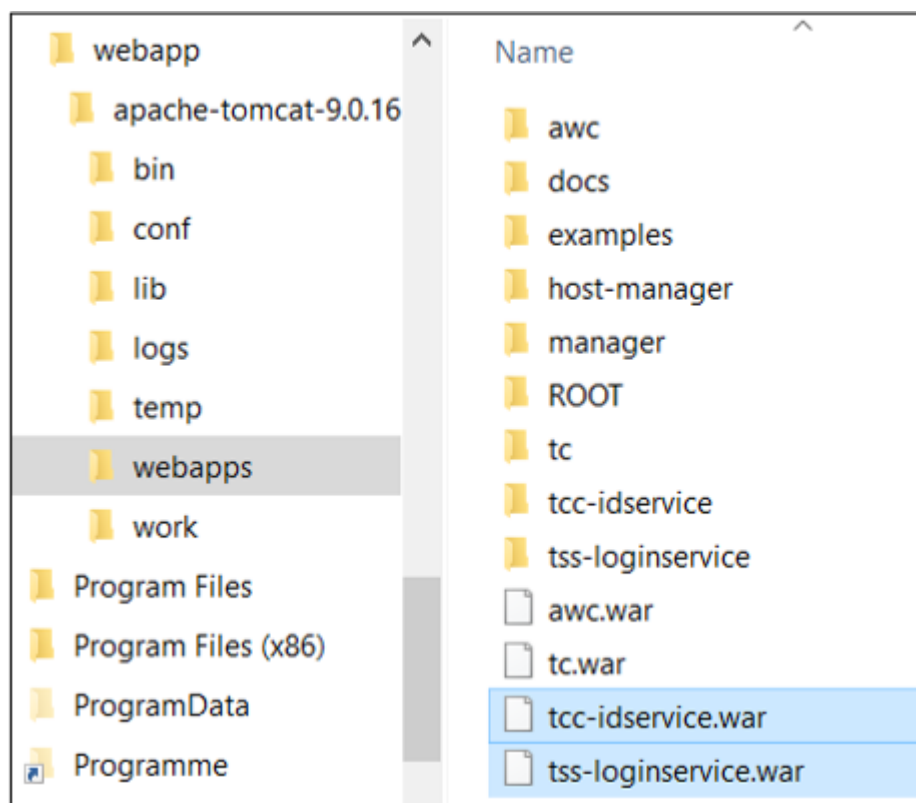
OK

10.2.5 Deploy war-Files

Kopieren



nach



11. TCServer Manager changes

11.1 tcenvpre.bat

In Ordner C:\plm\tc12\pool_manager\confs\tcprod eine Datei mit folgendem Namen erstellen:

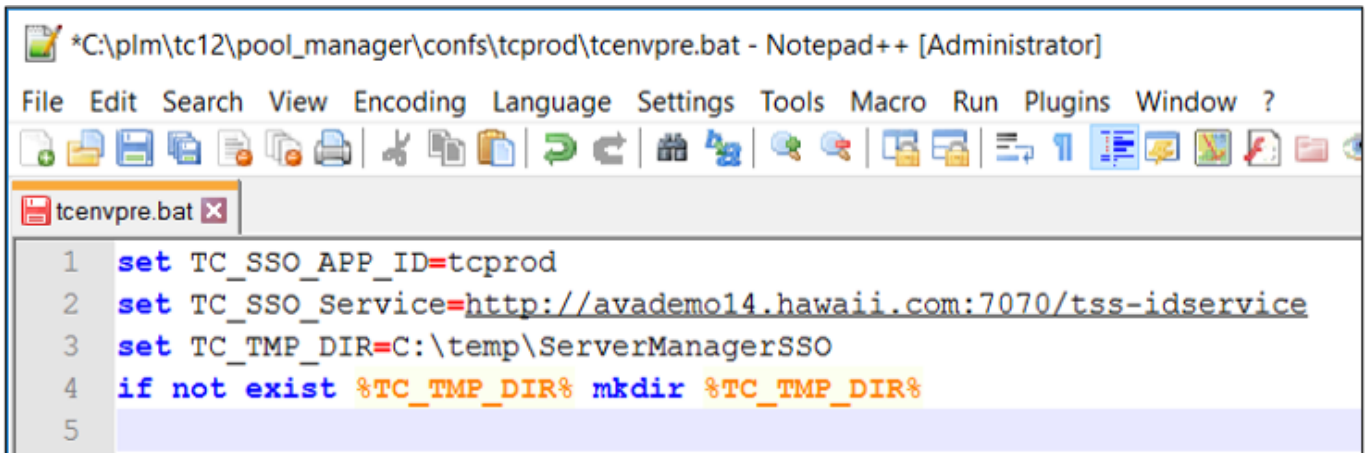
tcenvpre.bat

Inhalt:

```

set TC_SSO_APP_ID=tcprod
set TC_SSO_Service=http://avademo14.hawaii.com:7070/tss-idservice
set TC_TMP_DIR=C:\temp\ServerManagerSSO
if not exist %TC_TMP_DIR% mkdir %TC_TMP_DIR%

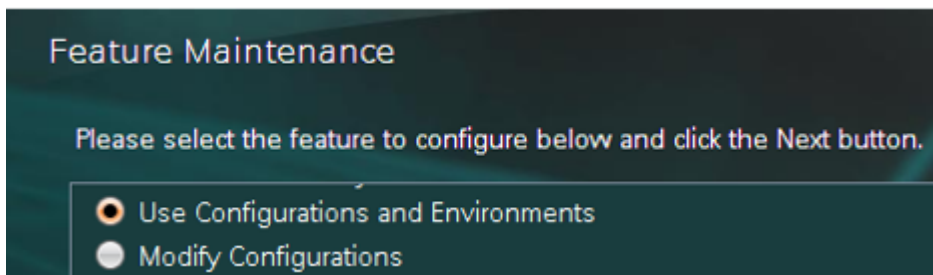
```



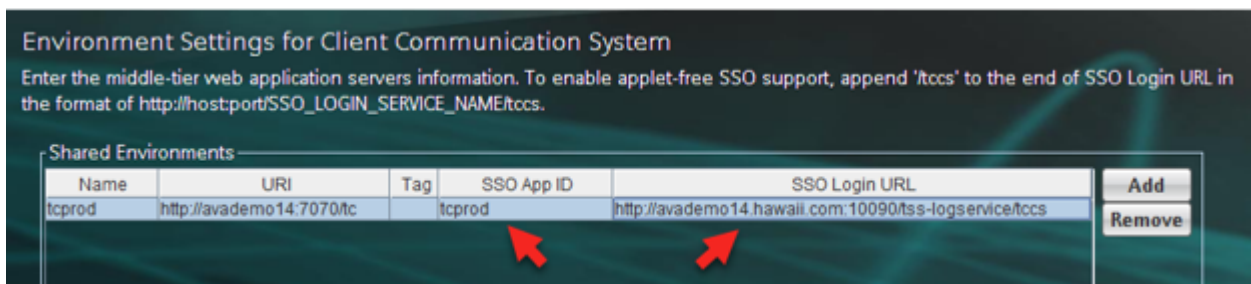
12. TCServer Manager changes

12.1 4-tier Client installation auf tccs umstellen

Feature Maintenance



Environment Settings for Client Communication System

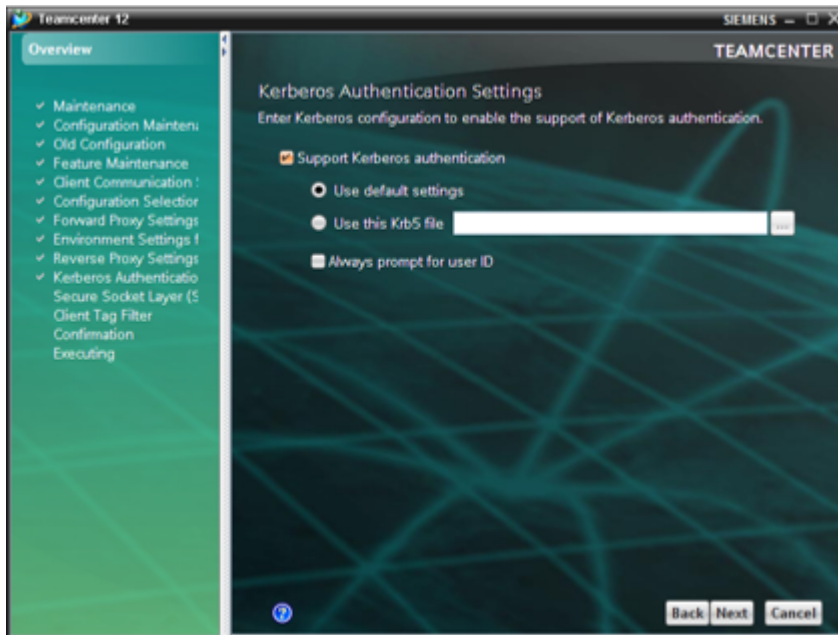


Anpassen:

Name:	tcprod
URI:	http://avademo14:7070/tc
Tag:	
SSO App ID:	tcprod
SSO Login URL:	http://avademo14.hawaii.com:10090/tss-loginservice/tccs

Kerberos Authentication Settings

- ☒ Support Kerberos authentication
 - ☒ Use default settings



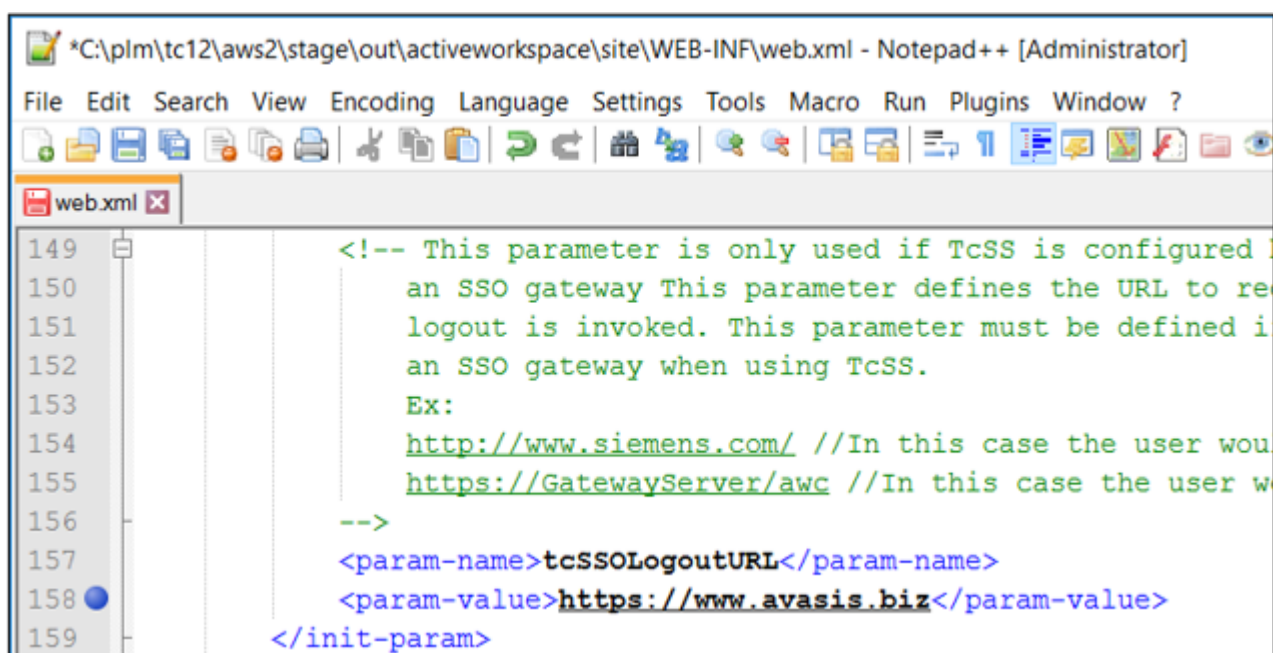
12.2 Richclient 4-tier

Einmal anmelden:

Sollte nun ohne Passworteingabe funktionieren

13. AWC auf SSO umstellen

1. Datei „C:\plm\tc12\aws2\stage\out\activeworkspace\site\WEB-INF\web.xml“ anpassen Am besten Firmenwebsite eintragen



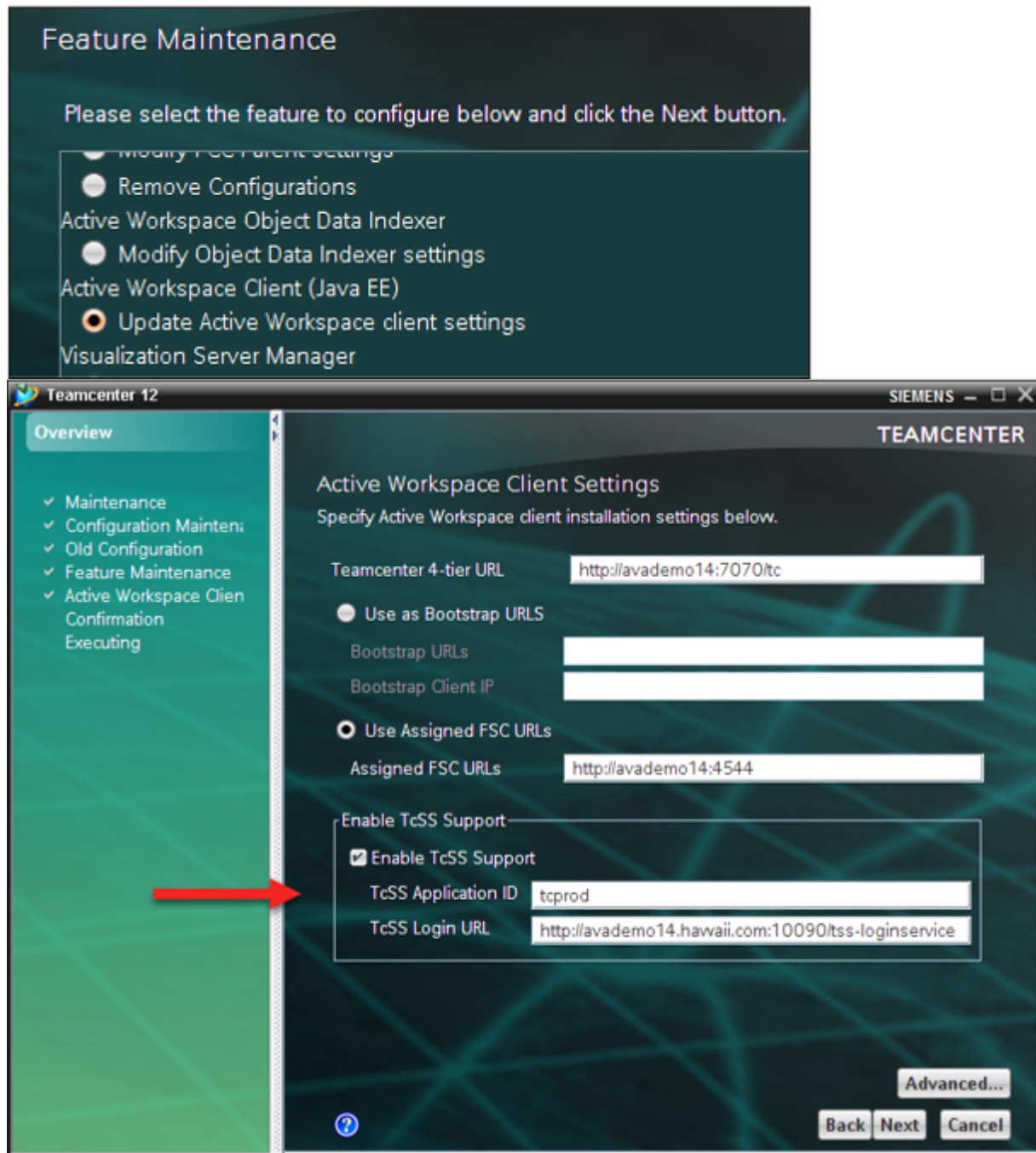
2. In C:\plm\tc12\aws2\stage\components\activeworkspace\repo\kit\tc-aw-

solution\src_j2ee\WEB-INF\web.xml

gleiche Anpassung:

Das erstere wird beim compilen überschrieben

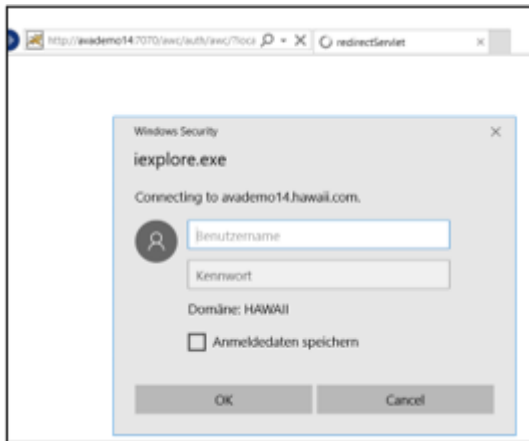
3. TEM: Feature Maintenance, Update Active Workspace client settings



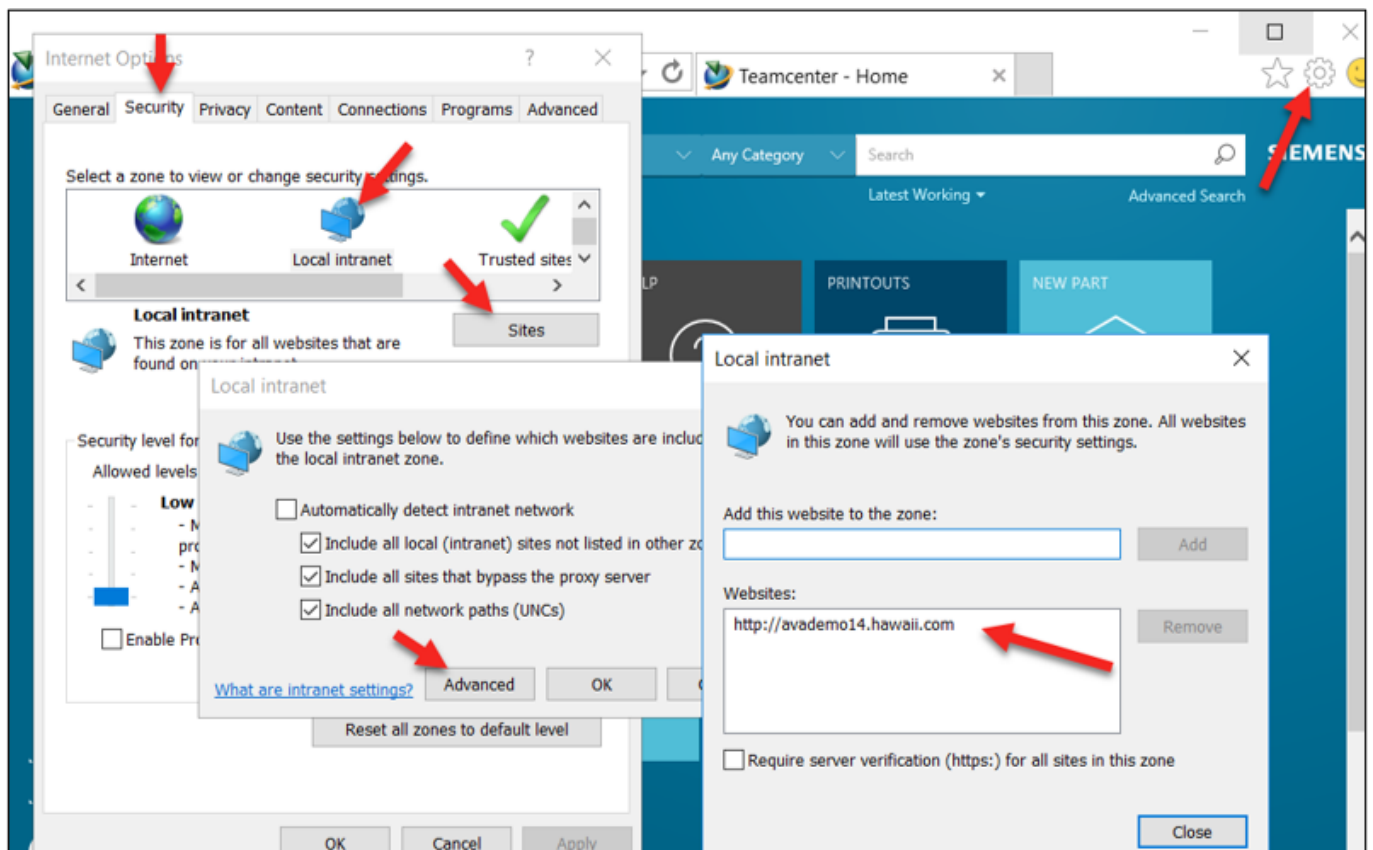
☒ Enable TcSS Support	
Tcss Application ID:	tcprod
TcSS Login URL:	http://avademo14.hawaii.com:10090/tss-loginservice

War-File deployen...

4. Fehlermeldung im IE

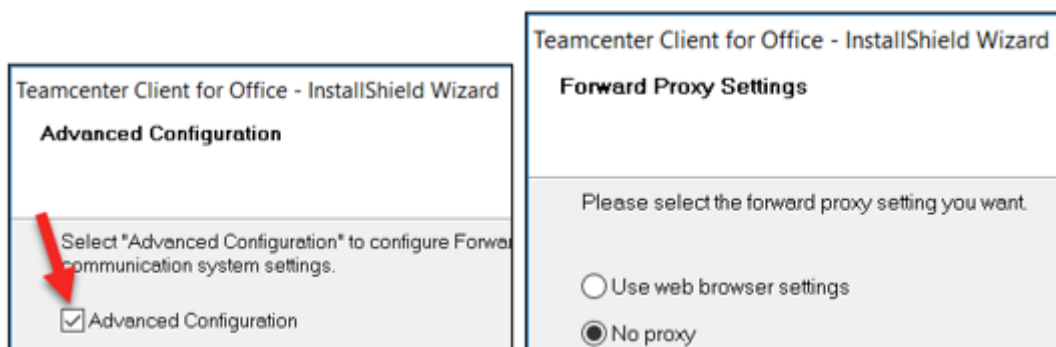


Lösung:



14. Office integration auf SSO umstellen

14.1 Neu installieren



Teamcenter Client for Office - InstallShield Wizard

TCCS Environments Information

Enter TCCS Environments information below.

Use "Add" button to add TCCS environment to the list. Use "Edit" button to modify the selected TCCS environment. Use "Remove" button to remove selected TCCS environment from the list. Use "Up" or "Down" button to move selected TCCS environment up or down. To enable applet-free SSO support, append '/tccs' to the end of SSO Login URL in the format of http://host:port/SSO_LOGIN_SERVICE_NAME/tccs.

http://evademo14.7070/tc

Teamcenter Client for Office - InstallShield Wizard

Please enter Tccs environment information.

Name

URL

Filter Text

SSO URL

SSO App ID

InstallShield

Teamcenter Client for Office - InstallShield Wizard

Reverse Proxy

TCCS Reverse proxy Setting

☐ Enable Reverse Proxy

Teamcenter Client for Office - InstallShield Wizard

Kerberos authentication support.

Enter Kerberos configuration to enable the support of Kerberos authentication.

☒ Support kerberos authentication

☐ Use this Krb5 file

☒ Use default settings

☐ Always prompt for user ID

Teamcenter Client for Office - InstallShield Wizard

Secure Socket Layer (SSL) Settings

Enter the SSL settings for Client Communication System

☒ Use Internet Explorer Certificate Store (Recommended)

☐ Disable SSL

☐ Configure Certificate Store manually

☐ Use trust store (Supported type is JKS)

File:

☒ Accept untrusted certificates

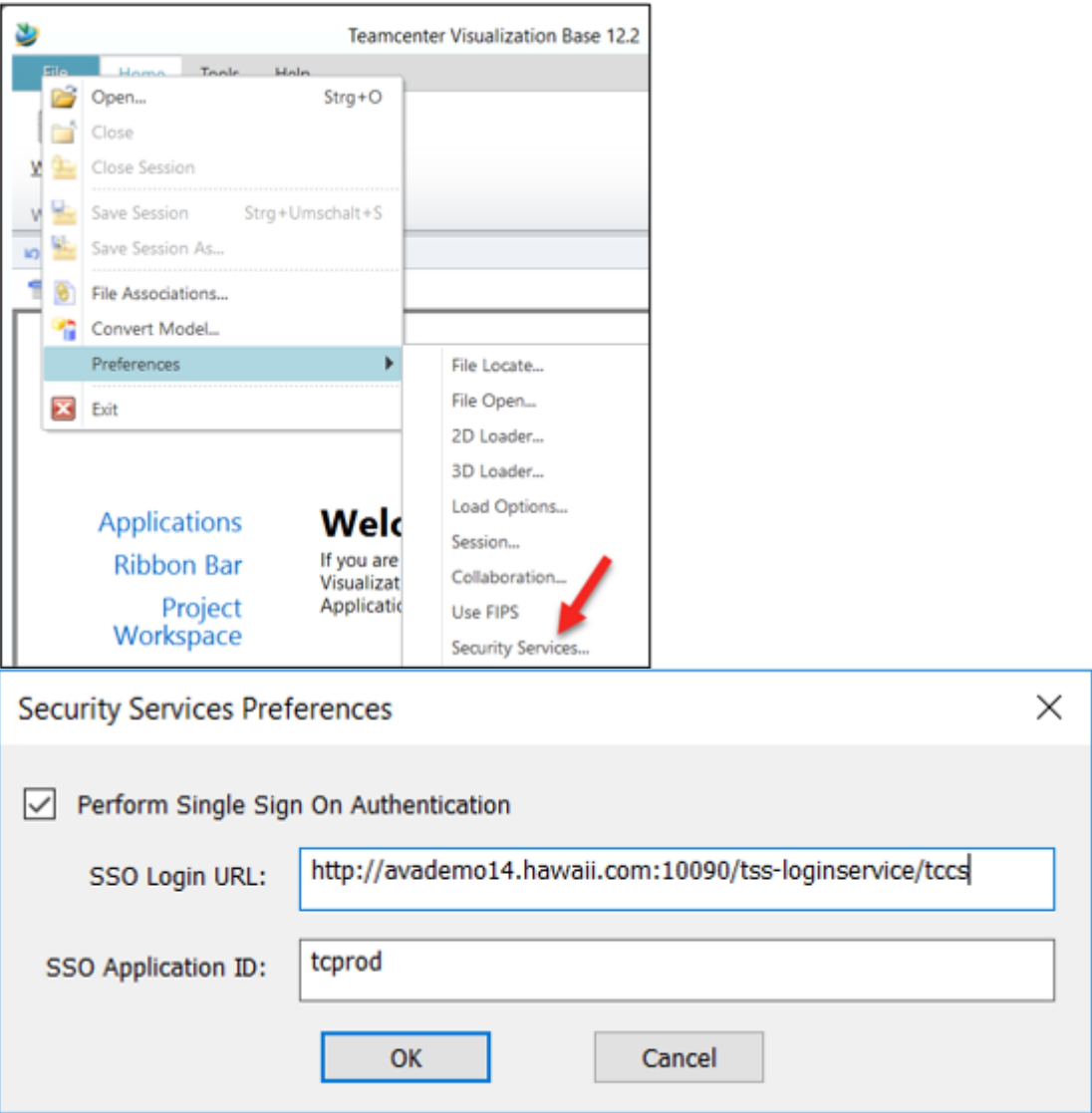
☒ Configure key store

File:

Type:

InstallShield

15. Teamcenter Visualization auf SSO umstellen



SSO App ID:	tcpod
SSO Login URL:	http://avademo14.hawaii.com:10090/tss-loginservice/tccs

16. Solid Edge SEEC

Teamcenter-Datenbanken definieren

Aktuelle Teamcenter-Datenbankauswahl:

Teamcenter-Datenbank-URL	Datenbankbeschreibung	Standard Parts SAC-Datei	TcCS	SSO
http://plmsrv:8080/tc	prod		Nein	Ja

Teamcenter-Datenbank-URL:

☐ 2-Tier

Datenbankbeschreibung:

Standard Parts SAC-Datei:

Teamcenter Security Services (SSO)

☒ Einschalten

Anwendungs-ID:

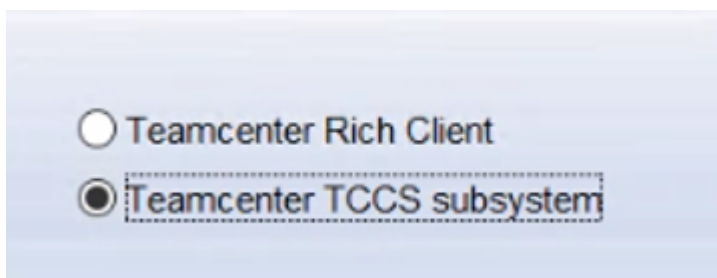
Anmeldungsdienst-URL:

☒ Aktivieren

☐ Standarddatenbank

SSO App ID:	tcprod
SSO Login URL:	http://avademo14.hawaii.com:10090/tss-loginservice/tccs

17. Solid Works Integration auf SSO umstellen



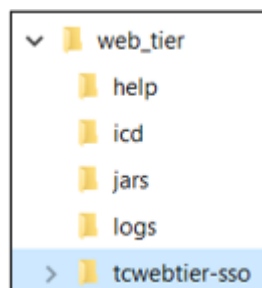
SSO App ID:	tcprod
SSO Login URL:	http://avademo14.hawaii.com:10090/tss-loginservice/tccs

18. Zweiter Strang NOSSO

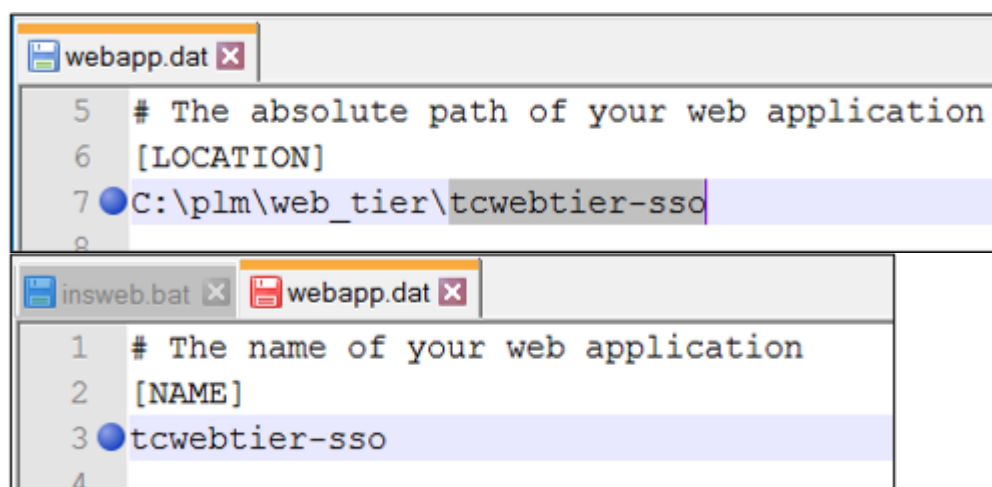
- Nur für administrative Zwecke und **nicht für Testing**
- Benutzer infodba und dcproxy (müssen so nicht in Domain erfasst werden)
- Hintergrunddienste die nicht über SSO laufen dürfen
- Kein AWC (nur SSO)

18.1 Web_tier, TcWebTier für SSO umbenennen

Ordner C:\plm\web_tier\TcWebTier in C:\plm\web_tier\tcwebtier-ss0 umbenennen



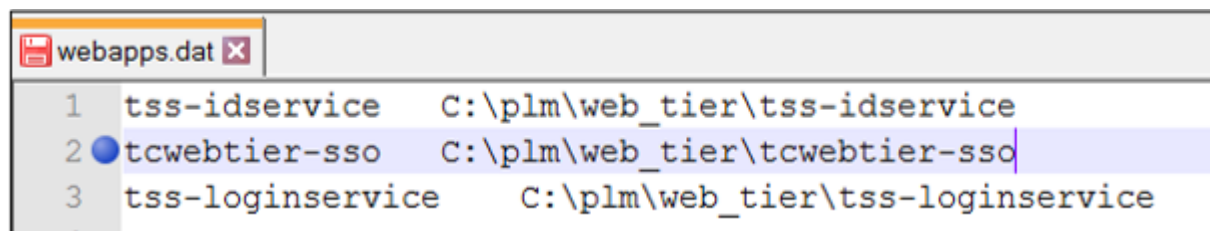
In „C:\plm\web_tier\tcwebtier-ss0\webapp.dat“



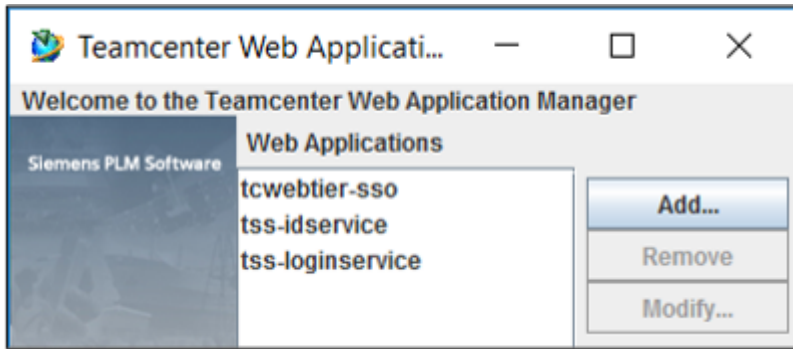
In „C:\plm\web_tier\tcwebtier-ss0\webapp_root\WEB-INF\web.xml“



In „C:\plm\web_tier\webapps.dat“

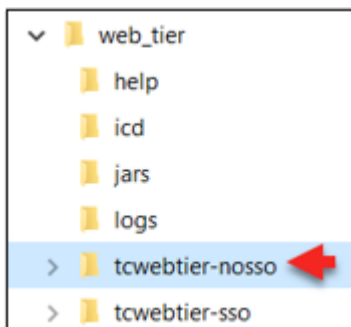


Insweb starten und prüfen.

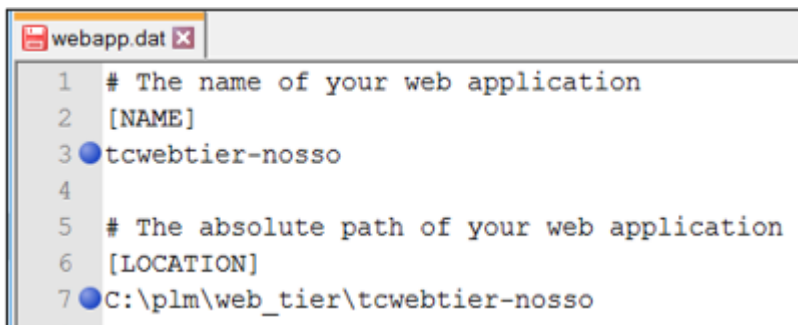


18.2 tcwebtier_NOSSO

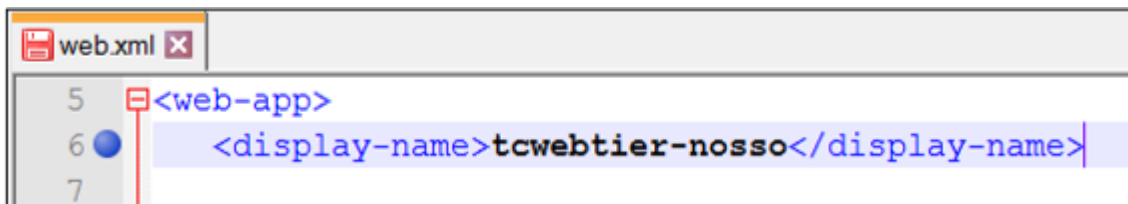
C:\plm\web_tier\tcwebtier-sso nach C:\plm\web_tier\tcwebtier-nosso kopieren



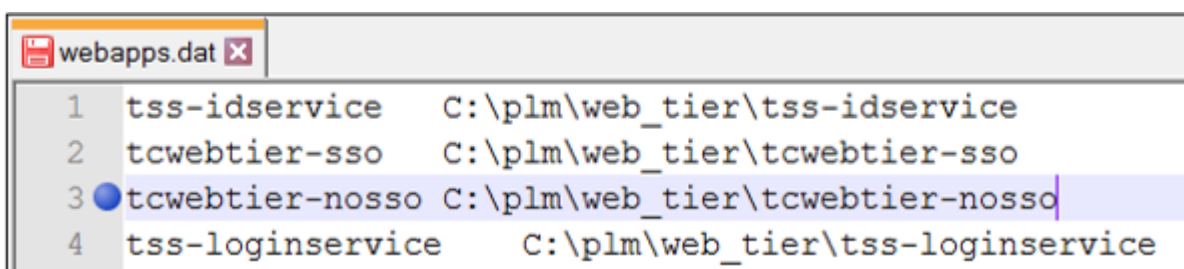
In „C:\plm\web_tier\tcwebtier-nosso\webapp.dat«



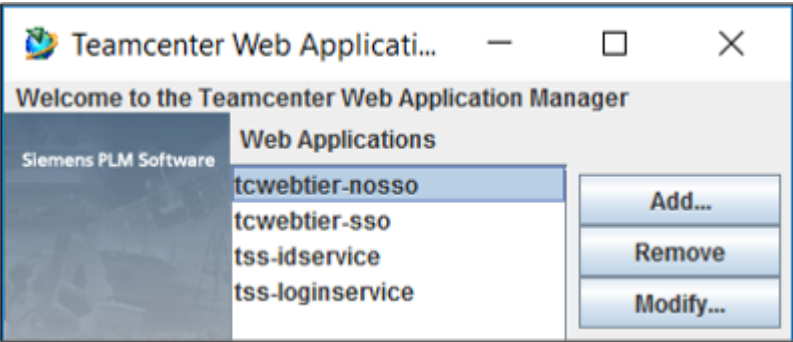
In „C:\plm\web_tier\tcwebtier-nosso\webapp_root\WEB-INF\web.xml“



In „C:\plm\web_tier\webapps.dat“

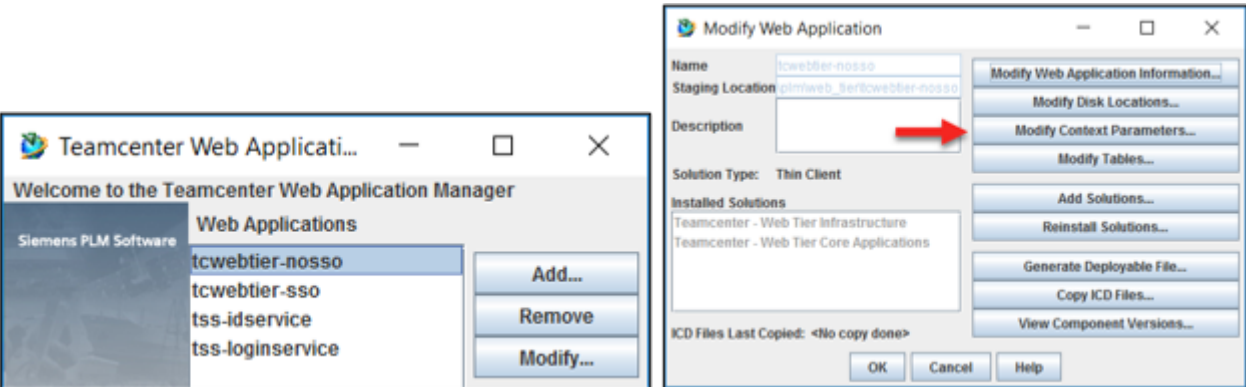


Insweb starten und prüfen.

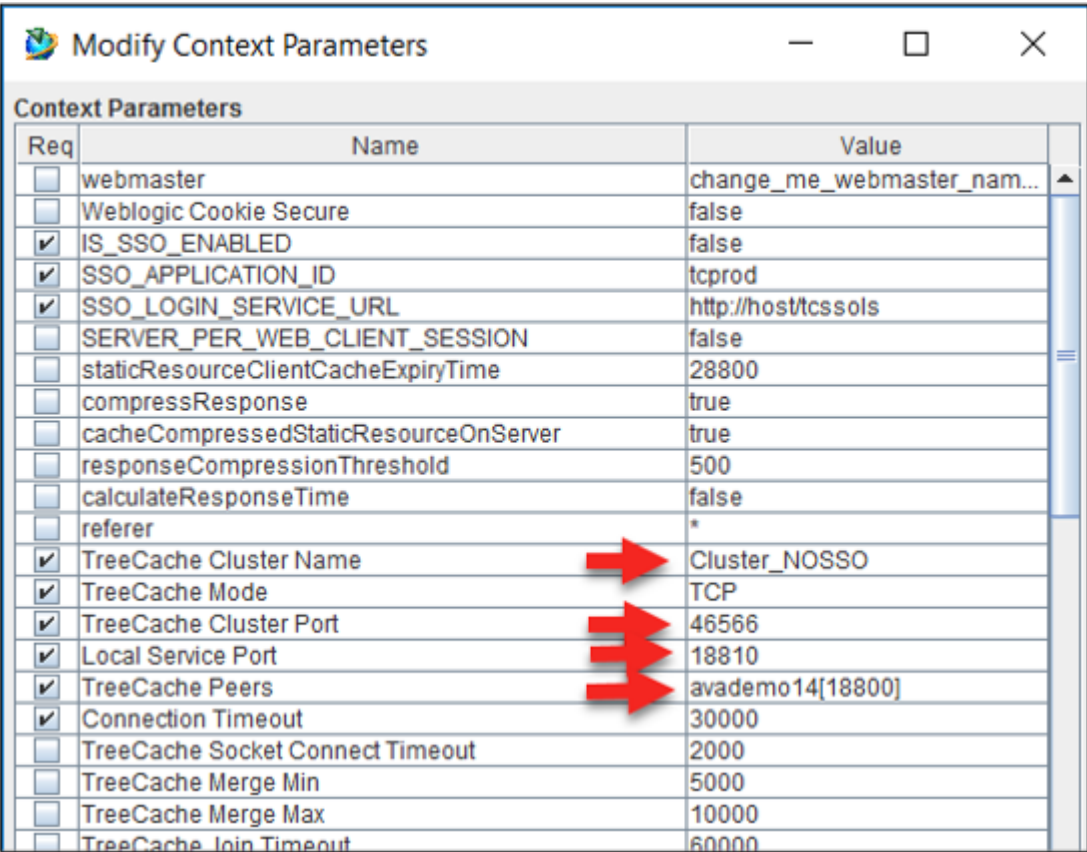


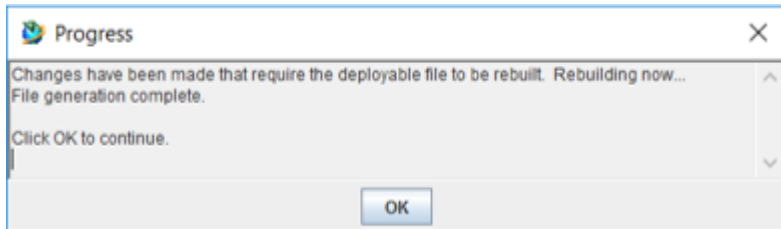
18.3 tcwebtier_NOSSO anpassen

C:\plm\web_tier\insweb.bat

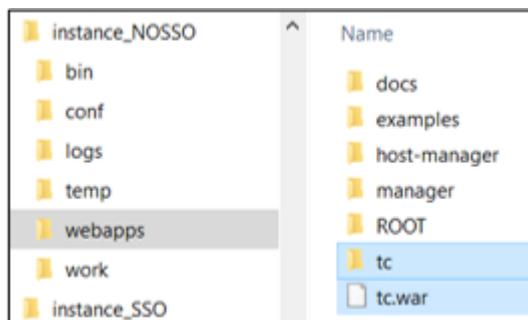
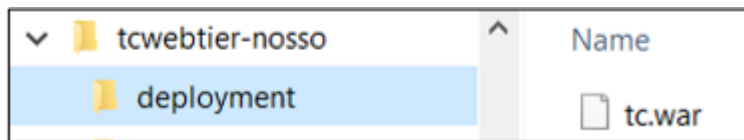


Ports jeweils an zweiter Stelle um einen Zähler erhöhen:





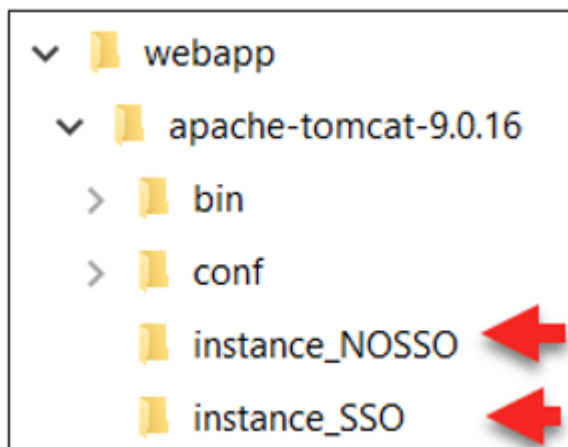
War-File nach instance_NOSSO deployen



19. Tomcat: mehrere Instanzen erstellen

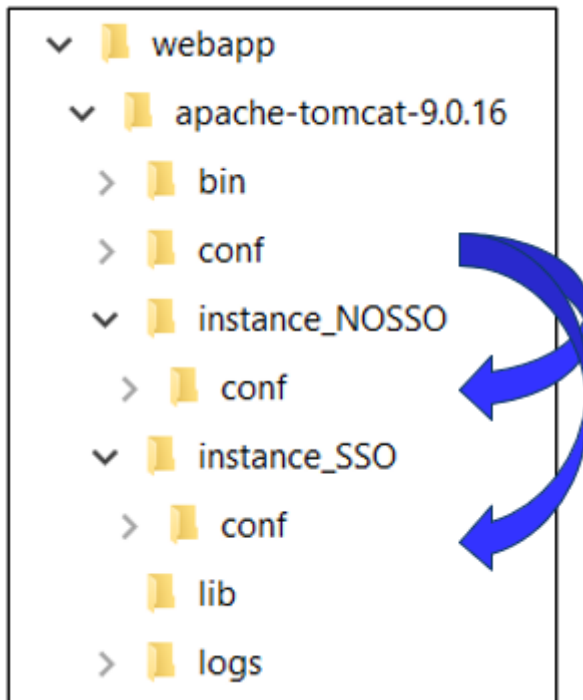
19.1 Create 2 new different folders in different locations

These folders are for storing the instance specific configuration and other data such as logs, temp data

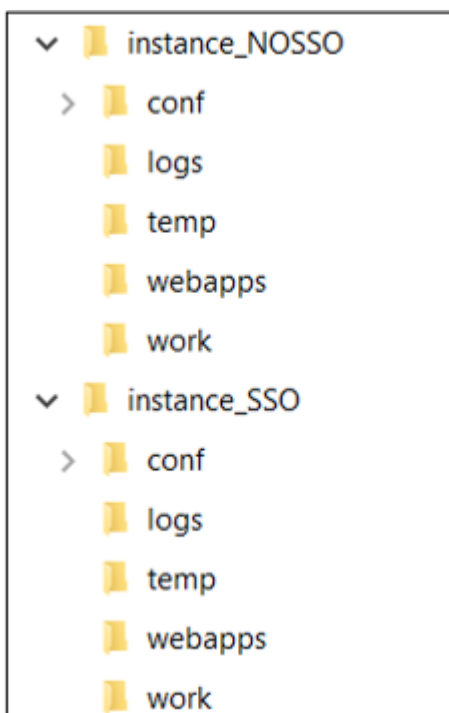


19.2 Copy the 'conf' folder into instances folder from server folder

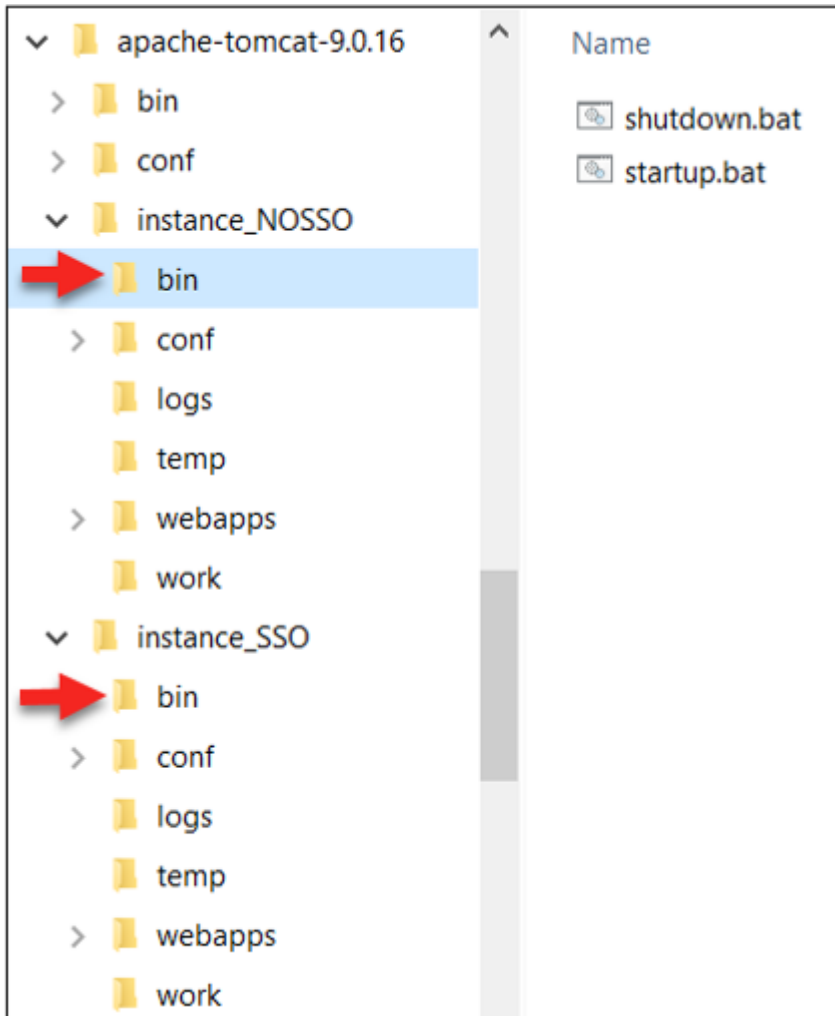
This step is necessary to have different configuration for each instance. Any instance specific configuration related changes should be done in related instance folder only.



19.3 Zusätzliche Folder erstellen



19.4 Create instance specific startup.bat and shutdown.bat



The first properties (**CATALINA_HOME**) points to the location of the common information shareable between all running instances, while the other property (**CATALINA_BASE**) points to the directory where all the instance specific information are stored.

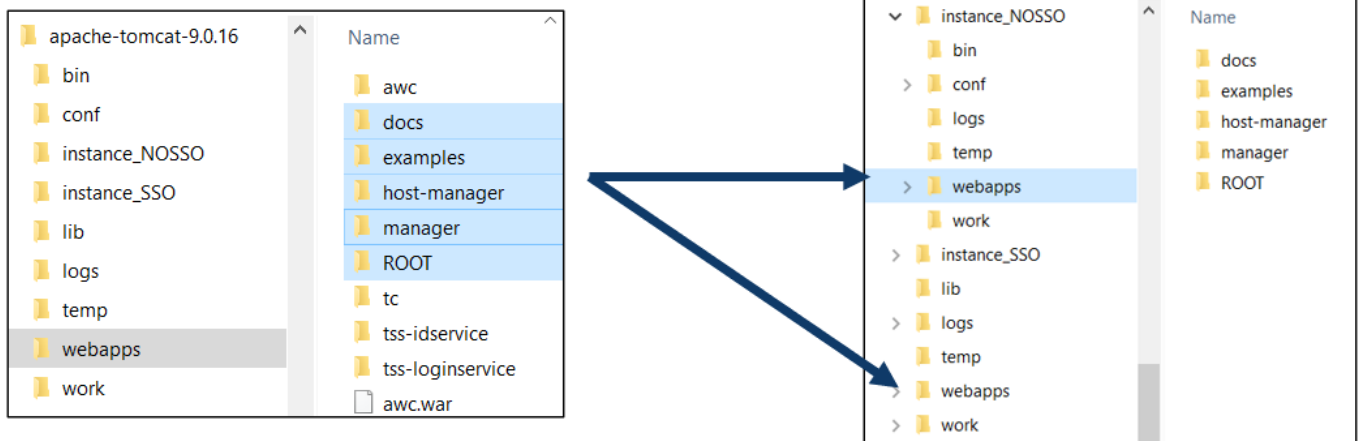
```
startup.bat x
1 set CATALINA_HOME=C:\plm\webapp\apache-tomcat-9.0.16
2 set CATALINA_BASE=C:\plm\webapp\apache-tomcat-9.0.16\instance_NOSSO
3 %CATALINA_HOME%\bin\startup.bat
4
```

```
set CATALINA_HOME=C:\plm\webapp\apache-tomcat-9.0.16
set CATALINA_BASE=C:\plm\webapp\apache-tomcat-9.0.16\instance_NOSSO
%CATALINA_HOME%\bin\startup.bat
```

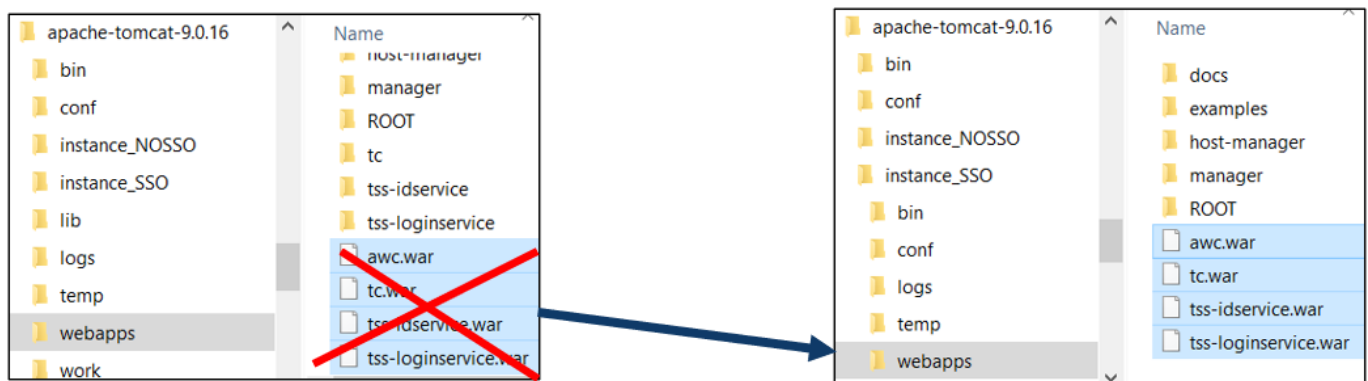
```
shutdown.bat x
1 set CATALINA_HOME=C:\plm\webapp\apache-tomcat-9.0.16
2 set CATALINA_BASE=C:\plm\webapp\apache-tomcat-9.0.16\instance_NOSSO
3 %CATALINA_HOME%\bin\shutdown.bat
4
```

```
set CATALINA_HOME=C:\plm\webapp\apache-tomcat-9.0.16
set CATALINA_BASE=C:\plm\webapp\apache-tomcat-9.0.16\instance_NOSSO
%CATALINA_HOME%\bin\shutdown.bat
```


19.5 Inhalt von webapps Folder in Instanzen kopieren



19.6 War-files in instance_SSO verschieben (deployte Ordner werden automatisch gelöscht)



19.7 Server.xml anpassen

C:\plm\webapp\apache-tomcat-9.0.16\instance_SSO\conf\server.xml
Ports belassen

```
<Server port="8005" shutdown="SHUTDOWN">
<Connector port="7070" protocol="HTTP/1.1"
    connectionTimeout="20000"
    redirectPort="8443" />
<Connector port="8009" protocol="AJP/1.3" redirectPort="8443"
    secretRequired="" maxThreads="800" packetSize="65536" URIEncoding="UTF-8"
    tomcatAuthentication="false"/>
```

C:\plm\webapp\apache-tomcat-9.0.16\instance_NOSSO\conf\server.xml
Ports an zweiter Stelle um einen Zähler hochstellen

```
<Server port="8105" shutdown="SHUTDOWN">
<Connector port="7170" protocol="HTTP/1.1"
    connectionTimeout="20000"
    redirectPort="8543" />
<Connector port="8109" protocol="AJP/1.3" redirectPort="8543"
    secretRequired="" maxThreads="800" packetSize="65536" URIEncoding="UTF-8"
```

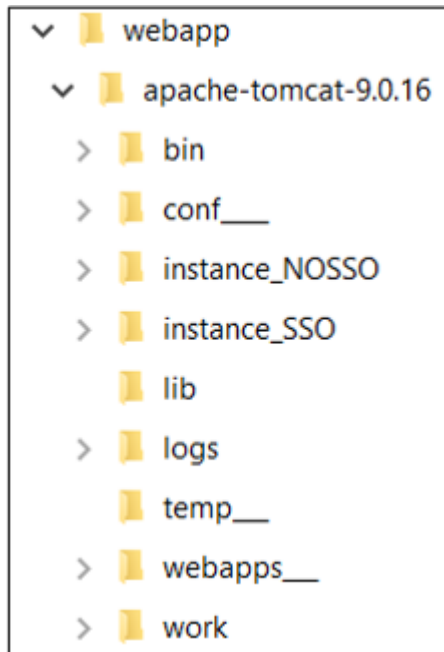
```
tomcatAuthentication="false"/>
```

19.8 Tomcat: Dienste anpassen

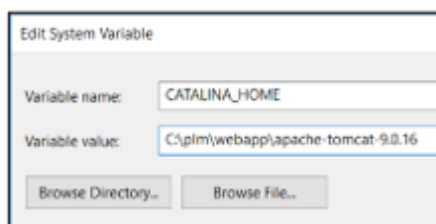
Bestehenden Tomcatdienst stoppen und deaktivieren

Name	Description	Status	Startup Type	Log On As
 Apache Tomcat 9.0 ApacheTomcat9	Apache Tomcat...		Disabled	Local System

Nicht mehr verwendete Ordner umbenennen



Dienst für die beiden neuen Instanzen erstellen



Für instance_SSO

Cmd

```
set CATALINA_BASE=C:\plm\webapp\apache-tomcat-9.0.16\instance_SSO
cd C:\plm\webapp\apache-tomcat-9.0.16\bin
service.bat install instance_SSO
```

```
Administrator: tcprod Command Prompt

C:\plm\tc12\tc_menu>set CATALINA_BASE=C:\plm\webapp\apache-tomcat-9.0.16\instance_SSO

C:\plm\tc12\tc_menu>cd C:\plm\webapp\apache-tomcat-9.0.16\bin

C:\plm\webapp\apache-tomcat-9.0.16\bin>service.bat install instance_SSO
Installing the service 'instance_SSO' ...
Using CATALINA_HOME:      "C:\plm\webapp\apache-tomcat-9.0.16"
Using CATALINA_BASE:      "C:\plm\webapp\apache-tomcat-9.0.16\instance_SSO"
Using JAVA_HOME:          "C:\Program Files\Java\jdk1.8.0_131"
Using JRE_HOME:           "C:\plm\java\jre8"
Using JVM:                 "C:\plm\java\jre8\bin\server\jvm.dll"
The service 'instance_SSO' has been installed.
```

Für instance_NOSSO
Cmd

```
set CATALINA_BASE=C:\plm\webapp\apache-tomcat-9.0.16\instance_NOSSO
cd C:\plm\webapp\apache-tomcat-9.0.16\bin
service.bat install instance_NOSSO
```

```
C:\plm\webapp\apache-tomcat-9.0.16\bin>set CATALINA_BASE=C:\plm\webapp\apache-tomcat-9.0.16\instance_NOSSO

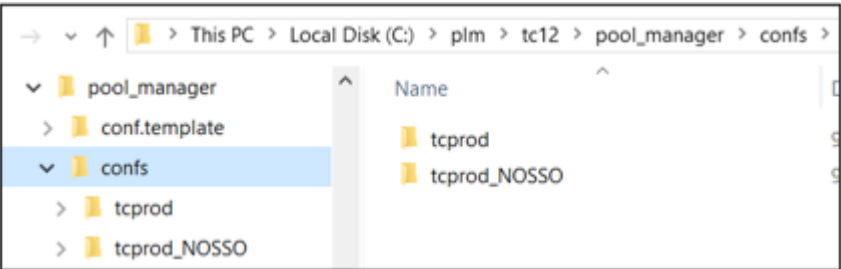
C:\plm\webapp\apache-tomcat-9.0.16\bin>cd C:\plm\webapp\apache-tomcat-9.0.16\bin

C:\plm\webapp\apache-tomcat-9.0.16\bin>service.bat install instance_NOSSO
Installing the service 'instance_NOSSO' ...
Using CATALINA_HOME:      "C:\plm\webapp\apache-tomcat-9.0.16"
Using CATALINA_BASE:      "C:\plm\webapp\apache-tomcat-9.0.16\instance_NOSSO"
Using JAVA_HOME:          "C:\Program Files\Java\jdk1.8.0_131"
Using JRE_HOME:           "C:\plm\java\jre8"
Using JVM:                 "C:\plm\java\jre8\bin\server\jvm.dll"
The service 'instance_NOSSO' has been installed.
```

Name	Description	Status	Startup Type	Log On As
Apache Tomcat 9.0 ApacheTomcat9	Apache Tomcat 9.0.16 S...		Disabled	Local System
Apache Tomcat 9.0 instance_NOSSO	Apache Tomcat 9.0.16 S...		Automatic	Local System
Apache Tomcat 9.0 instance_SSO	Apache Tomcat 9.0.16 S...		Automatic	Local System

20. Zweiter Poolmanager

Bestehenden poolmanager kopieren:
C:\plm\tc12\pool_manager\confs\tcprod
Nach
C:\plm\tc12\pool_manager\confs\tcprod_NOSSO



```

tcenvpre.bat
1 set TC_TMP_DIR=C:\temp\ServerManagerNOSSO
2 if not exist %TC_TMP_DIR% mkdir %TC_TMP_DIR%

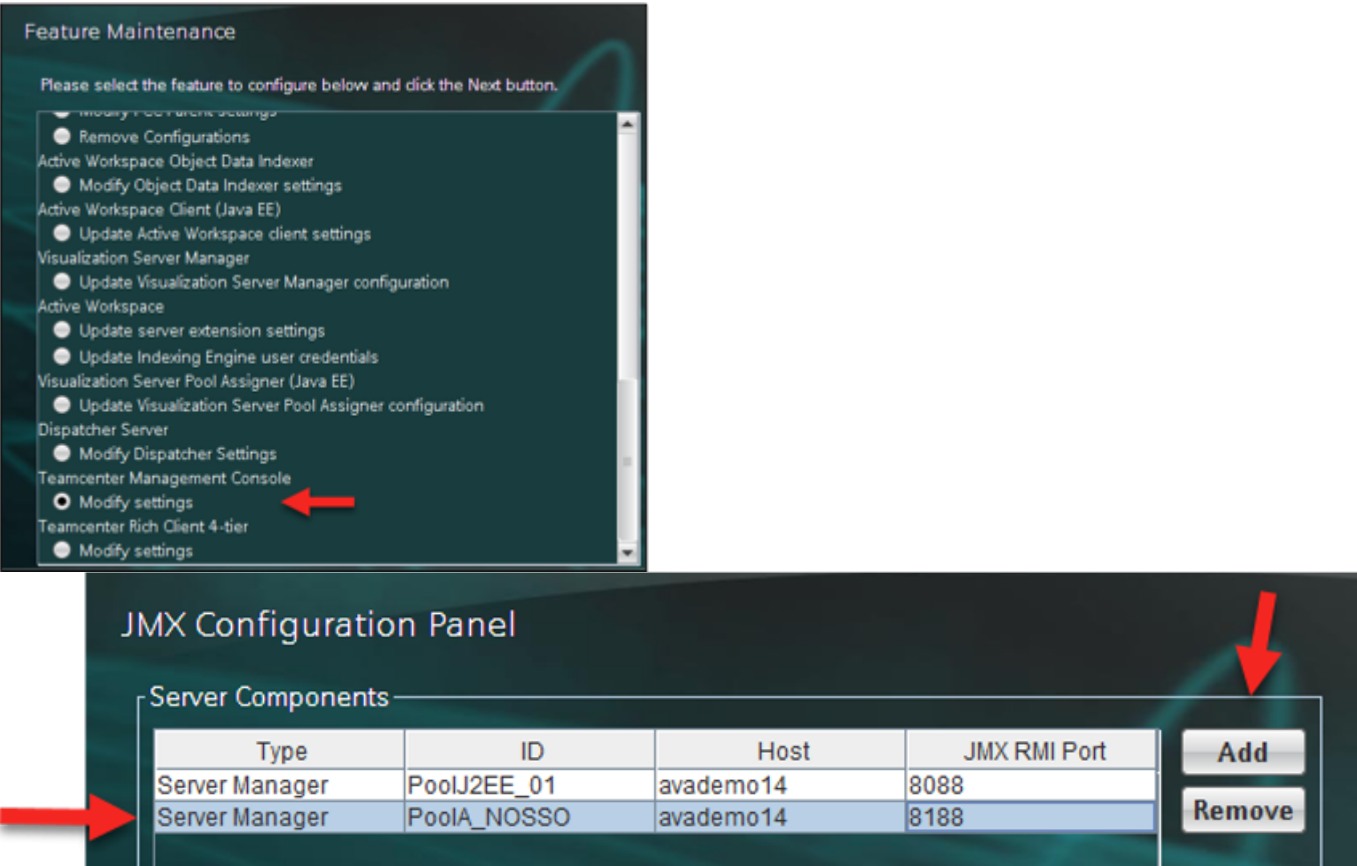
```

Anpassungen unter tcprod_NOSSO:

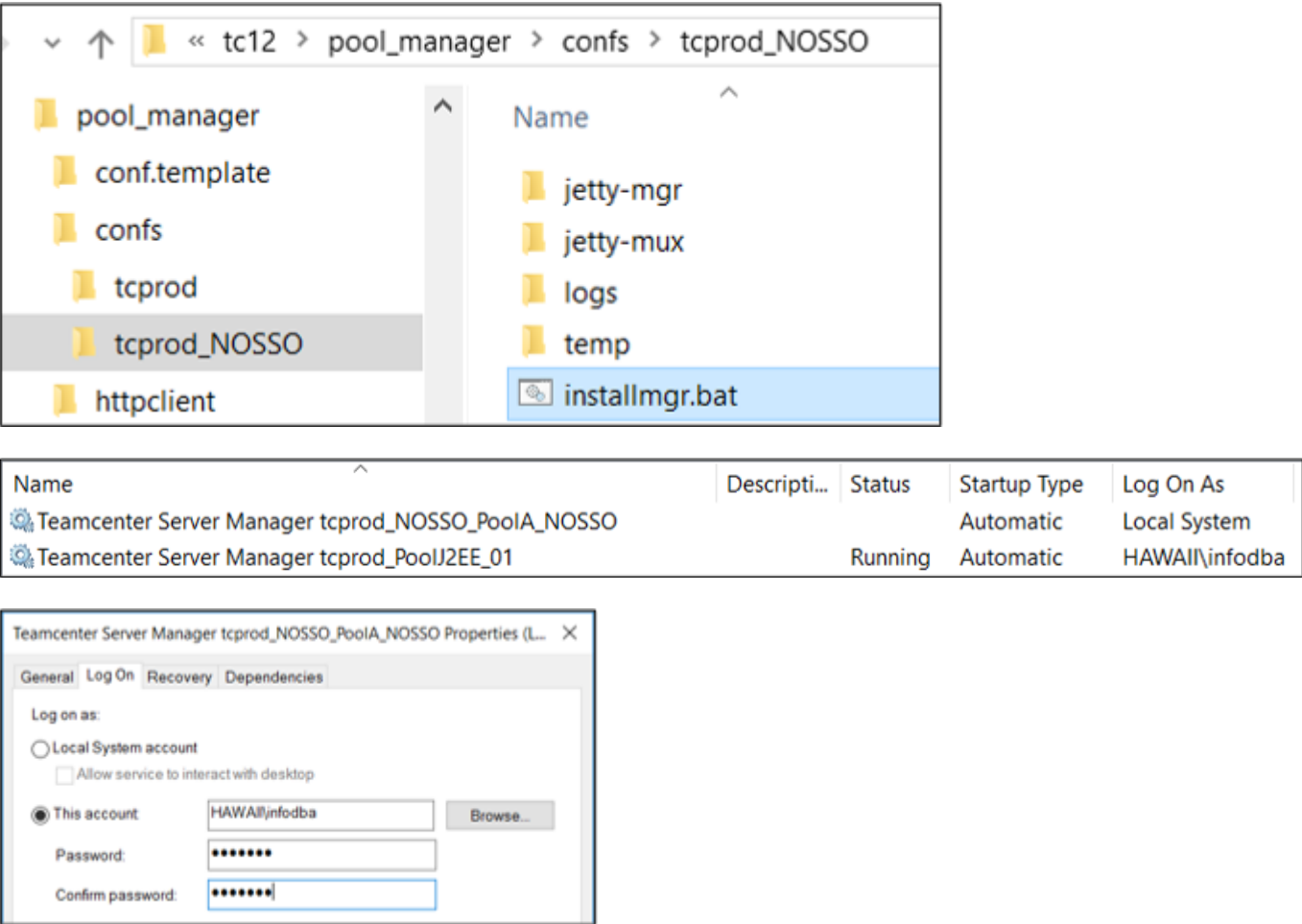
Server Pool		tcprod (SSO)	tcprod_NOSSO
File	Setting	SSO enabled	SSO disabled
mgrstart.bat	title	tcprod	tcprod_NOSSO
mgrstart.bat	MGR_CFG	tcprod	tcprod_NOSSO
mgrstart.bat	POOL_ID	PoolJ2EE_01	PoolA_NOSSO
mgrstop.bat	title	tcprod	tcprod_NOSSO
mgrstop.bat	MGR_CFG	tcprod	tcprod_NOSSO
serverPool.properties	POOL_ID	PoolJ2EE_01	PoolA_NOSSO
serverPool.properties	MUX_PORT	8087	8187
Ab 12.3			
serverPool.properties	MANAGER_CLUSTER_ID	Cluster	Cluster_NOSSO
tcenv.bat	MGR_CFG	tcprod	tcprod_NOSSO
tecsstart.bat	title	Pool-TECS	Pool_NOSSO-TECS
mgrenv.bat	jmxremote.port	8088	8188
jetty-mgr\jetty-plain.xml	jetty.port	8086	8186
jetty-mux\jetty-plain.xml	jetty.port	8087	8187
tecs.xml	TECS.PORT	8084	8184
installmgr.bat	MGR_CFG	tcprod	tcprod_NOSSO
installmgr.bat	POOL_ID	PoolJ2EE_01	PoolA_NOSSO
tcenvpre.bat	Possible customer configuration	Possible customer configuration	Possible customer configuration
Pre Version 12.3			
TreeCacheTCP.xml	ClusterName	Cluster	Cluster_NOSSO
TreeCacheTCP.xml		17800	18800
TreeCacheTCP.xml		17810	18810

Add 2nd Server Manager in Console

JMX Configuration Panel



Dienst für zweiten Server Manager erstellen und Dienstuser anpassen



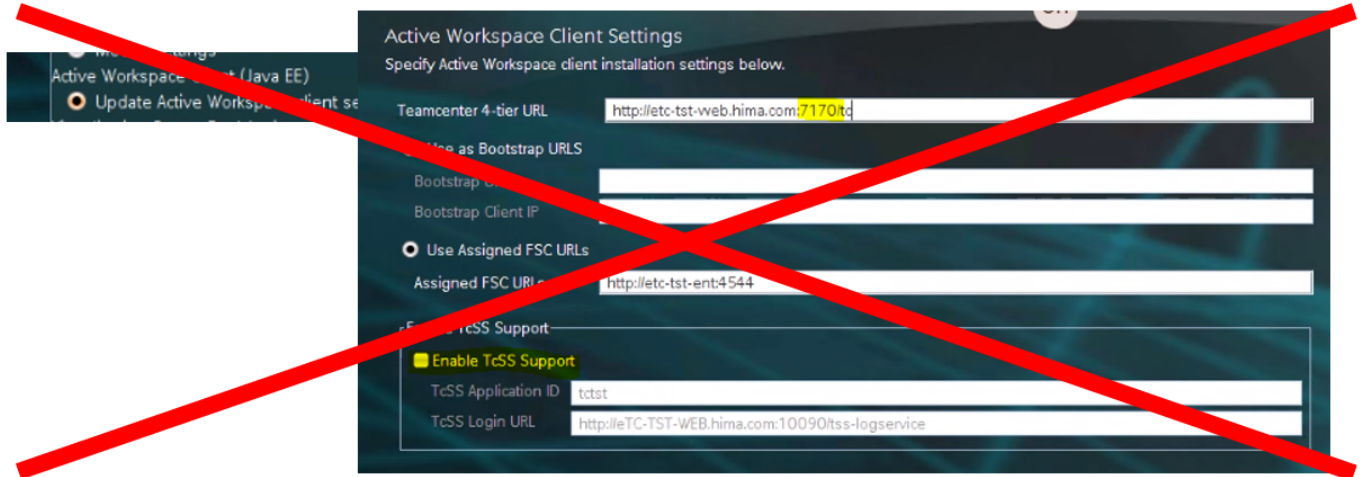
Create 2nd NOSSO Active Workspace Client

Nicht machen da zwei WAR files
Handling nicht zumutbar!

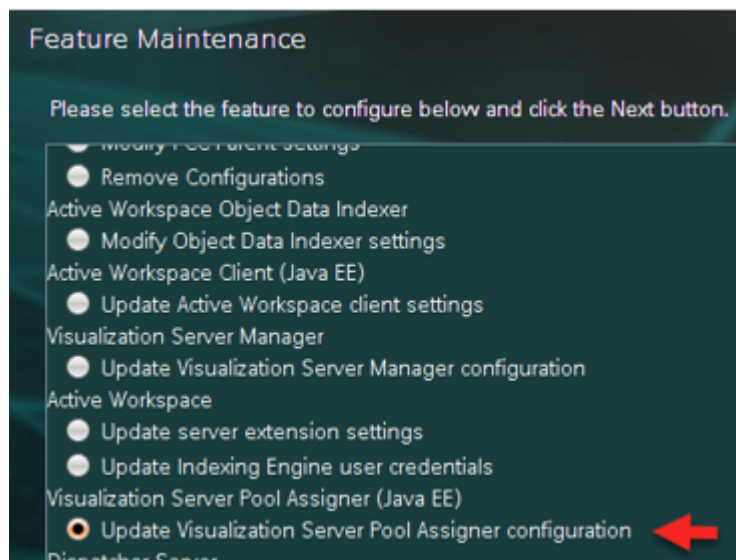
Es muss definiert werden dass AWC entweder mit oder ohne SSO läuft!

Geht ab AWC4.3 und neuer nicht mehr wegen Microservices.

Hosting-Prefs müssten jeweils für mit und ohne SSO konfiguriert werden (wie?)



Visualization Server Pool Assigner Setting auf NOSSO



Visualization Server Pool Assigner Settings

Provide the settings for how the local assigner node will communicate with its peer assigners.

Local Assigner Settings

Host

avademo14

Port

56566

☐ Add pool assigner

Peer Assigners

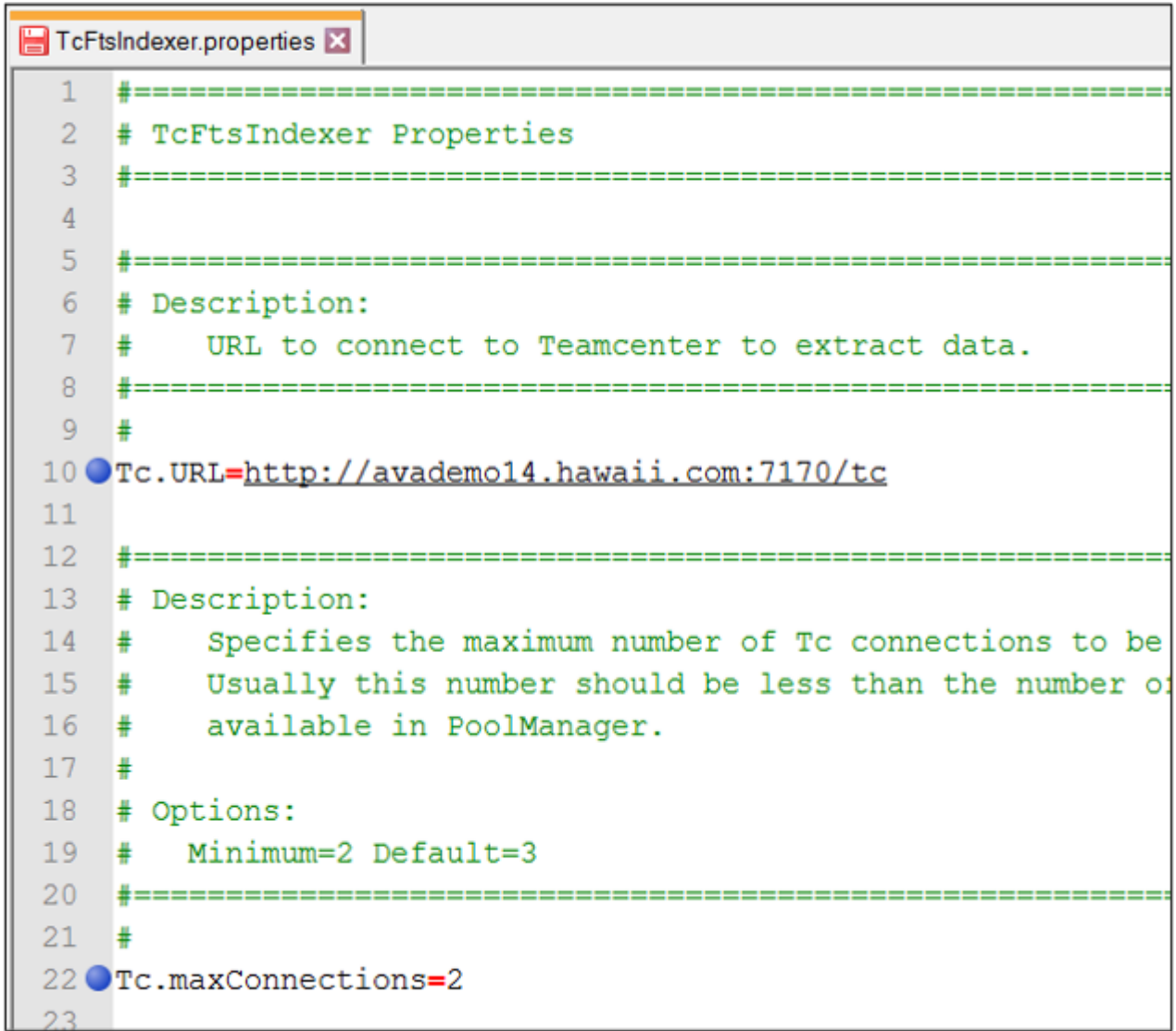
Assigner Host	Assigner Port
	55566

Server Side 4-tier URL

http://avademo14:7170/tc

Indexer Settings

In „C:\plm\tc12\TcFTSIndexer\conf\TcFtsIndexer.properties“



```
1  #=====
2  # TcFtsIndexer Properties
3  #=====
4
5  #=====
6  # Description:
7  #   URL to connect to Teamcenter to extract data.
8  #=====
9  #
10 Tc.URL=http://avademol4.hawaii.com:7170/tc
11
12 #=====
13 # Description:
14 #   Specifies the maximum number of Tc connections to be
15 #   Usually this number should be less than the number of
16 #   available in PoolManager.
17 #
18 # Options:
19 #   Minimum=2 Default=3
20 #=====
21 #
22 Tc.maxConnections=2
23
```

Dispatcher Client configuration

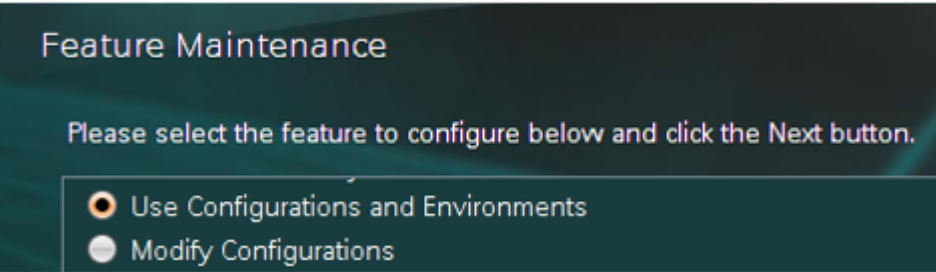
In „C:\plm\tc12\TcFtsIndexer\conf\TcFtsIndexer.properties“

```
C:\pim\dispatcher\DispatcherClient\conf\Service.properties - Notepad++ [Administrator]
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
Service.properties
1  #####
2  # File description: This file contains the Dispatcher Client configuration
3  #
4  # Filename: Service.properties
5  #
6  import DCGeneralServices,TSBasicService,TSCatiaService,TSProEService,TSUGNXService,TSEcadpcbService,TSTcJtService,TSSimProce:
7
8
9  # 4Tier mode - TcServer URL to connect to Teamcenter to make SOA calls.
10 # Default is 4tier mode. For 2Tier mode, this property has to be commented.
11 #
12 #####
13 #
14 Tc.URI=http://etc-tst-web.hima.com:7170/tc
15
16
17
18 # 2Tier mode - Default is 4tier. When above property "Tc.URI" is commented,
19 # this property value will be used for 2tier server name in tcftp connection.
20 #####
21 #
22 TcTp.2TierServerName=TC_DispatcherClient
23
24
25 # Tc.User
26 # The Teamcenter user that Dispatcher Client will log in as. Also referred to
27 # as the DC Proxy User. The DC Proxy User should not be the installation
28 # administrative user (e.g infodba) since at least one access rule will be
29 # added specifically for the DC Proxy User.
30 #
31 # This property must be specified such that it applies to all Services.
32 #
33 # Service.Tc.User=<DC proxy user ID>
34 #
35 Service.Tc.User=dcproxy
36
37
```

21. Client NOSSO

21.1 4-tier Client installation auf tccs umstellen

Feature Maintenance



Environment Settings for Client Communication System

Add...

Name:	tcprod_NOSSO
URI:	http://avademol4:7170/tc
Tag:	
SSO App ID:	
SSO Login URL:	

Environment Settings for Client Communication System

Enter the middle-tier web application servers information. To enable applet-free SSO support, append 'tccs' to the end of SSO Login URL in the format of http://host:port/SSO_LOGIN_SERVICE_NAME/tccs.

Name	URI	Tag	SSO A...	SSO Login URL	
tcprod_SSO	http://avademol4:7070/tc		tcprod	http://avademol4.hawaii.com:10090/tss-loginservice/tccs	Add
tcprod_NOSSO	http://avademol4:7170/tc				Remove

Kerberos Authentication Settings

- ☒ Support Kerberos authentication
 - ☒ Use default settings

Environment:

Teamcenter 12

TEAMCENTER

Kerberos Authentication Settings

Enter Kerberos configuration to enable the support of Kerberos authentication.

☒ Support Kerberos authentication

☒ Use default settings

☐ Use this Krb5 file

☐ Always prompt for user ID

- ✓ Siemens
 - ✓ cfg
 - ✓ tccs
 - ✓ Teamcenter
 - ✓ envs
 - 20200923094302
 - 20200925100436