

# Inhaltsverzeichnis

|                                                                      |    |
|----------------------------------------------------------------------|----|
| <b>Handbuch Tc 12 Security Services</b>                              | 3  |
| <b>Impressum</b>                                                     | 3  |
| <b>1. Vorbedingungen Clientinstallation</b>                          | 3  |
| <b>2. 4-tier Client installation auf tccs umstellen</b>              | 4  |
| 2.1 Feature Maintenance                                              | 4  |
| 2.2 Client Communication System Switch                               | 4  |
| 2.3 Configuration Selection for Client Communication System          | 4  |
| 2.4 Forward Proxy Settings                                           | 5  |
| 2.5 Environment Settings for Client Communication System             | 5  |
| 2.6 Reverse Proxy Settings                                           | 6  |
| 2.6 Kerberos Authentication Settings                                 | 7  |
| 2.7 Secure Socket Layer (SSL) Settings                               | 7  |
| 2.8 Client Tag Filter                                                | 8  |
| 2.9 Ergebnis                                                         | 9  |
| <b>3. IIS auf Webserver konfigurieren</b>                            | 10 |
| 3.1 IIS installieren                                                 | 10 |
| <b>4. C:\plm\SSO einrichten</b>                                      | 11 |
| <b>5. Modify Tomcat server.xml</b>                                   | 12 |
| <b>6. IIS konfigurieren</b>                                          | 13 |
| <b>7. Installing Security Services</b>                               | 21 |
| 7.1 SSO Sources vorbereiten                                          | 21 |
| 7.2 SSO ICD kopieren                                                 | 21 |
| <b>8. Tss-logiservice erstellen</b>                                  | 22 |
| 8.1 Create the Login Service                                         | 22 |
| <b>9. Tss-idservice erstellen</b>                                    | 27 |
| 9.1 Create the Identity Service                                      | 27 |
| <b>10. Tss-loginservices anpassen</b>                                | 31 |
| 10.1 LdapAdmin                                                       | 31 |
| 10.2 Tss-idservices anpassen                                         | 35 |
| <b>11. TCServer Manager changes</b>                                  | 40 |
| 11.1 tcenvpre.bat                                                    | 40 |
| <b>12. TCServer Manager changes</b>                                  | 41 |
| 12.1 4-tier Client installation auf tccs umstellen                   | 41 |
| 12.2 Richclient 4-tier                                               | 42 |
| <b>13. AWC auf SSO umstellen</b>                                     | 42 |
| <b>14. Office integration auf SSO umstellen</b>                      | 44 |
| 14.1 Neu installieren                                                | 44 |
| <b>15. Teamcenter Visualization auf SSO umstellen</b>                | 46 |
| <b>16. Solid Edge SEEC</b>                                           | 46 |
| <b>17. Solid Works Integration auf SSO umstellen</b>                 | 47 |
| <b>18. Zweiter Strang NOSSO</b>                                      | 47 |
| 18.1 Web_tier, TcWebTier für SSO umbenennen                          | 48 |
| 18.2 tcwebtier_NOSSO                                                 | 49 |
| 18.3 tcwebtier_NOSSO anpassen                                        | 50 |
| <b>19. Tomcat: mehrere Instanzen erstellen</b>                       | 51 |
| 19.1 Create 2 new different folders in different locations           | 51 |
| 19.2 Copy the 'conf' folder into instances folder from server folder | 51 |
| 19.3 Zusätzliche Folder erstellen                                    | 52 |

19.4 Create instance specific startup.bat and shutdown.bat ..... 52

19.5 Inhalt von webapps Folder in Instanzen kopieren ..... 54

19.6 War-files in instance\_SSO verschieben (deployte Ordner warden automatisch gelöscht)  
..... 54

19.7 Server.xml anpassen ..... 54

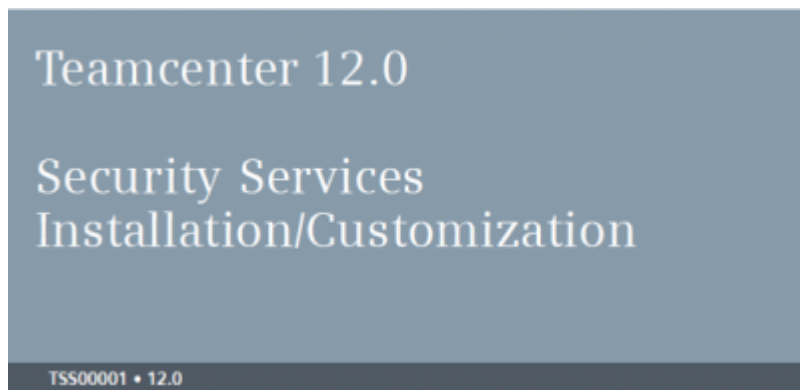
19.8 Tomcat: Dienste anpassen ..... 55

**20. Zweiter Poolmanager** ..... 56

**21. Client NOSSO** ..... 62

21.1 4-tier Client installation auf tccs umstellen ..... 62

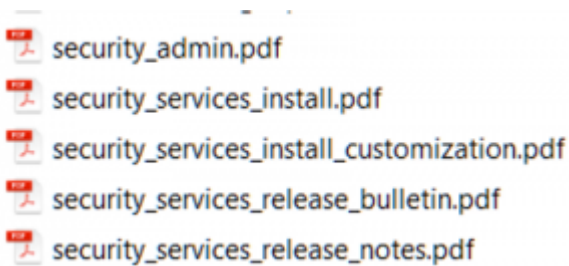
# Handbuch Tc 12 Security Services



Oktober 2020 Patrick Granwehr Christoph Bühler

**Achtung:**

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



## Impressum

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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

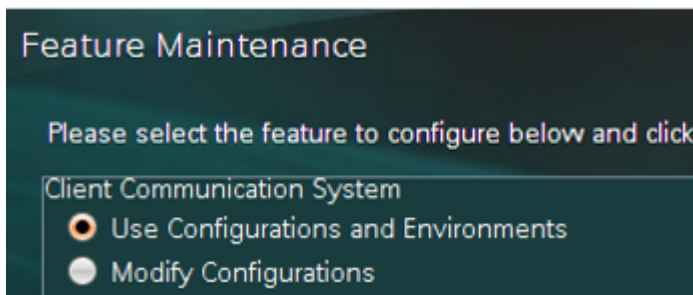
Dieser Schritt ist nur notwendig, falls dieser nicht schon bei Grundinstallation des 4-tier RichClient gemacht wurde.

### 2.1 Feature Maintenance

Client Communication System Use configurations and Environments



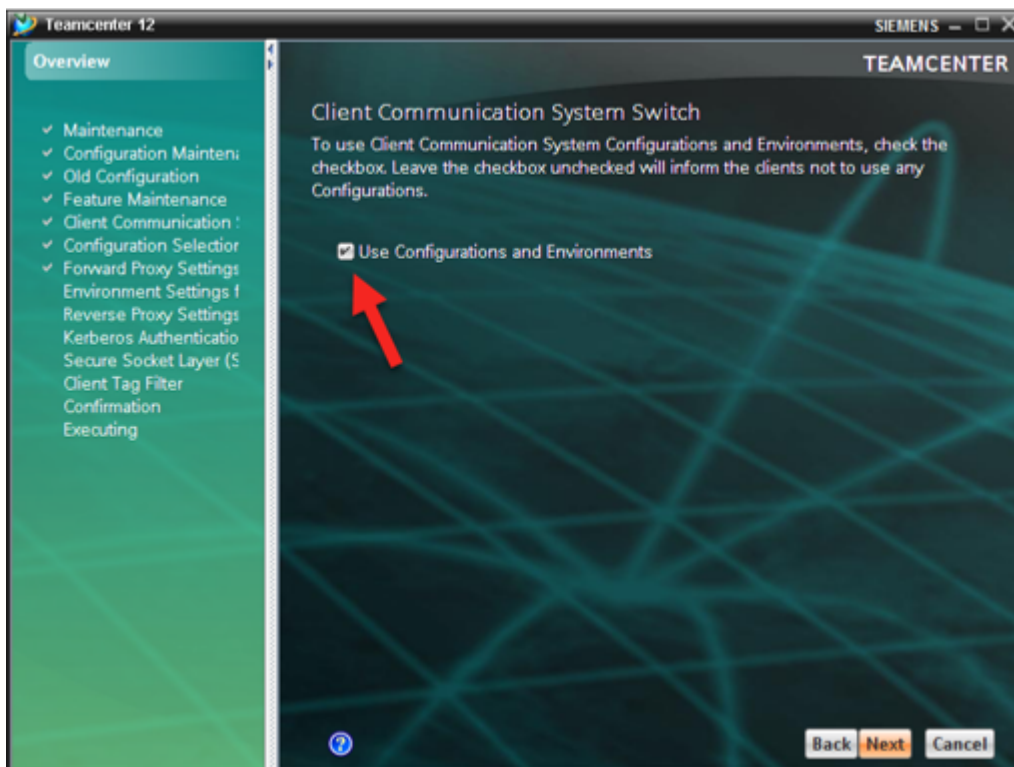
Use configurations and Environments



### 2.2 Client Communication System Switch



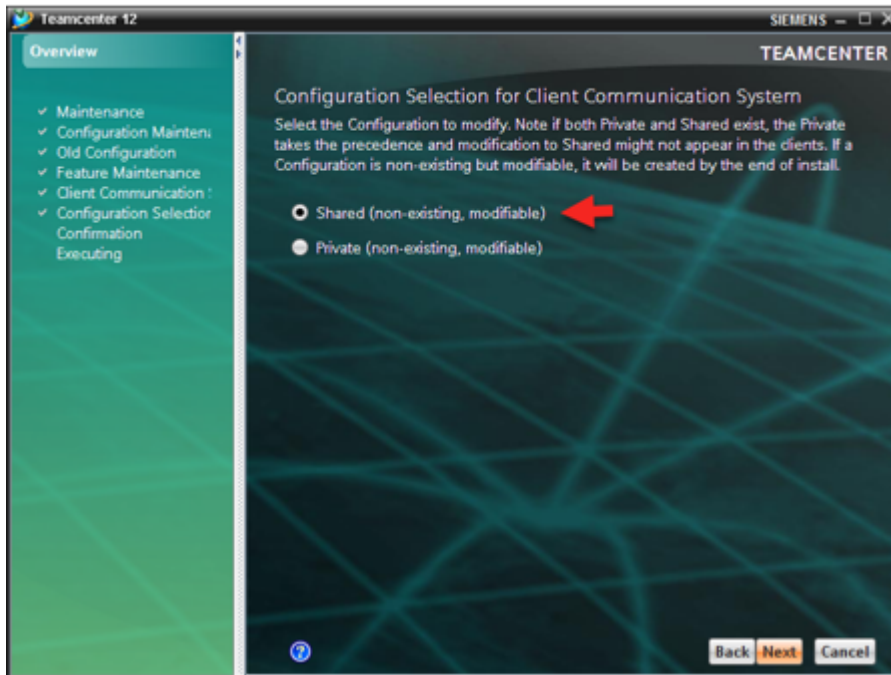
Use Configuration and Environments



### 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

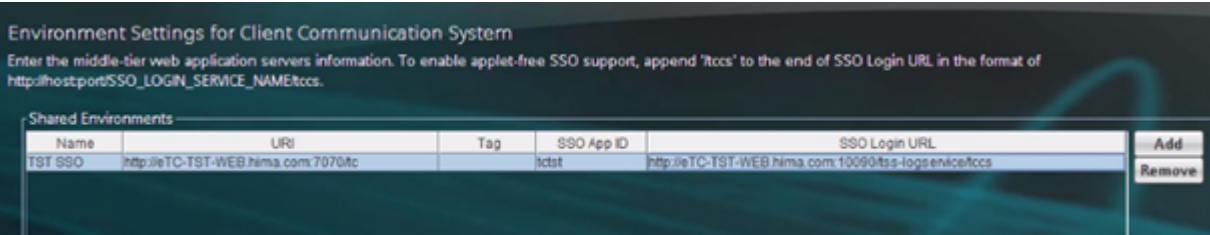
Add...

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



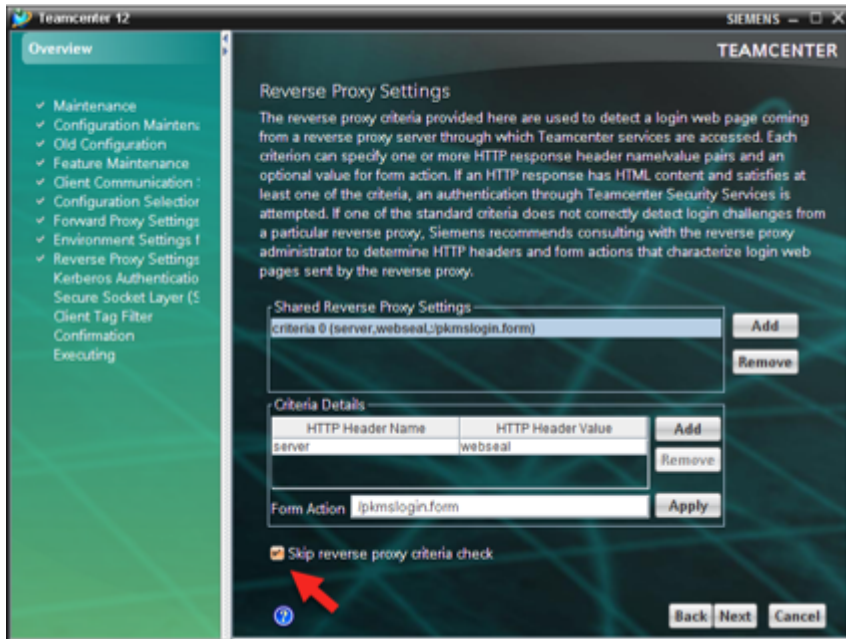
Add...

- 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>



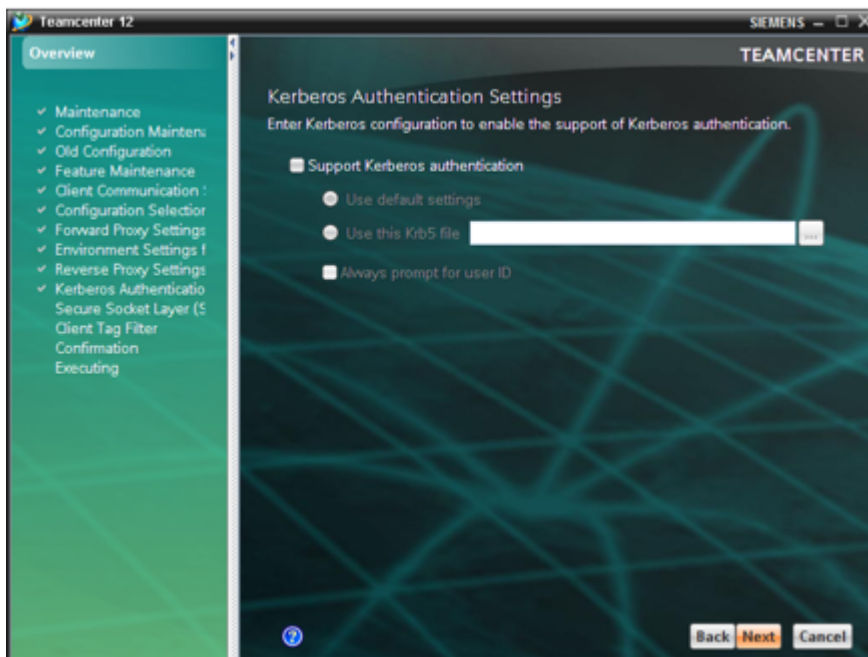
2.6 Reverse Proxy Settings

- ☒ Skip reverse proxy criteria check



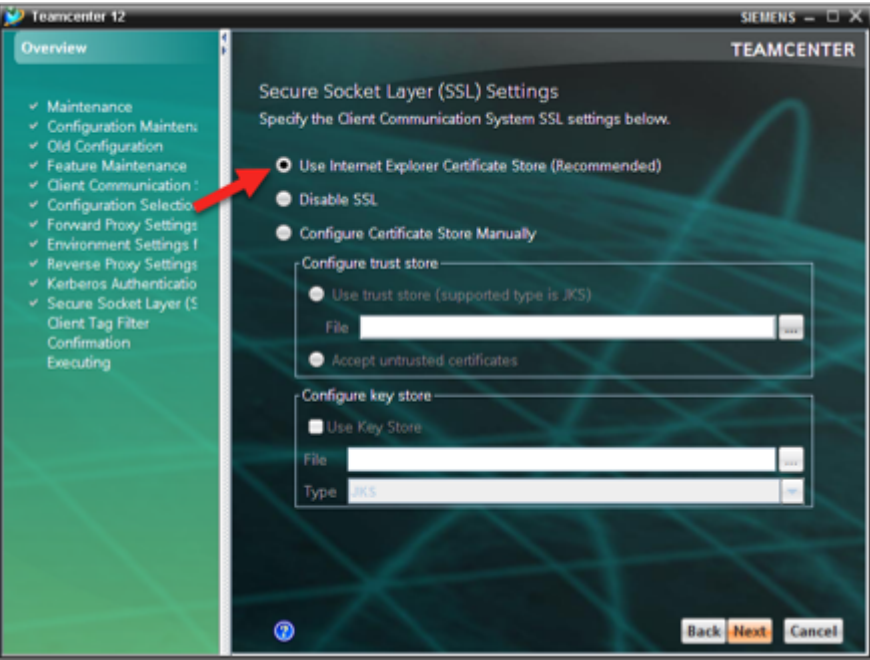
## 2.6 Kerberos Authentication Settings

Next...



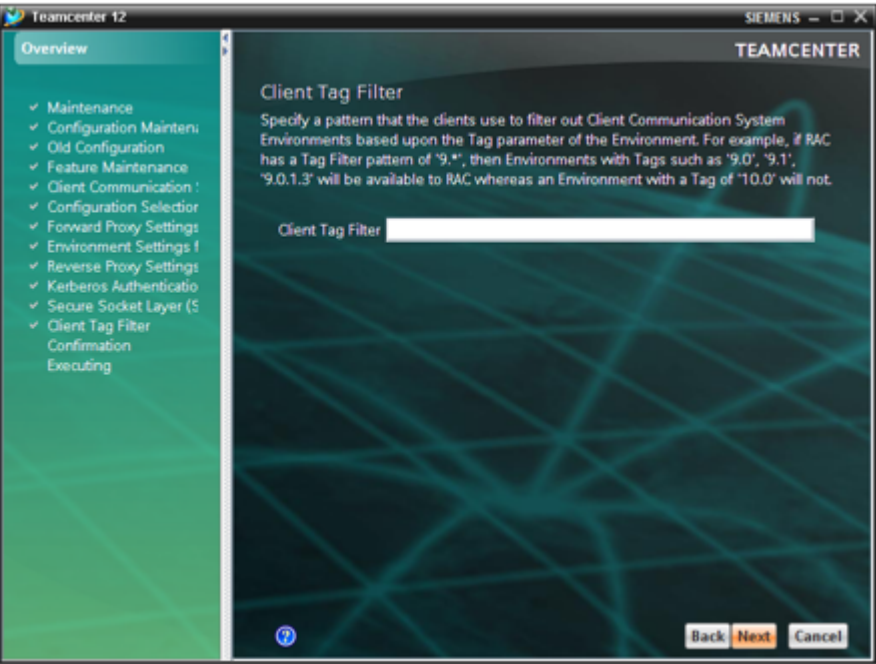
## 2.7 Secure Socket Layer (SSL) Settings

-  Use Internet Explorer Certificate Store (Recommended)

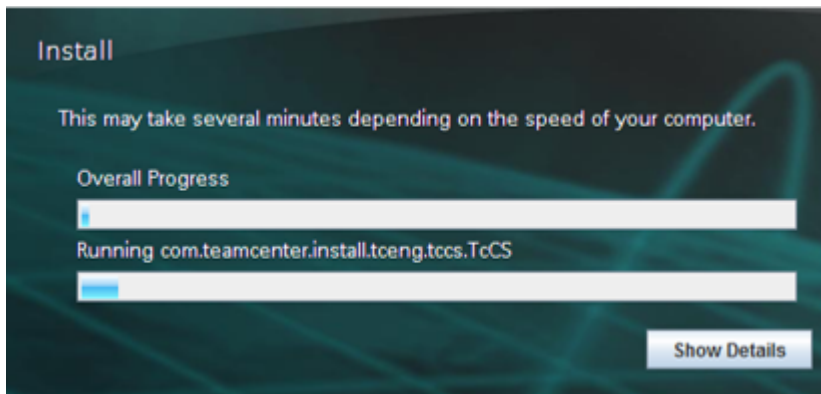
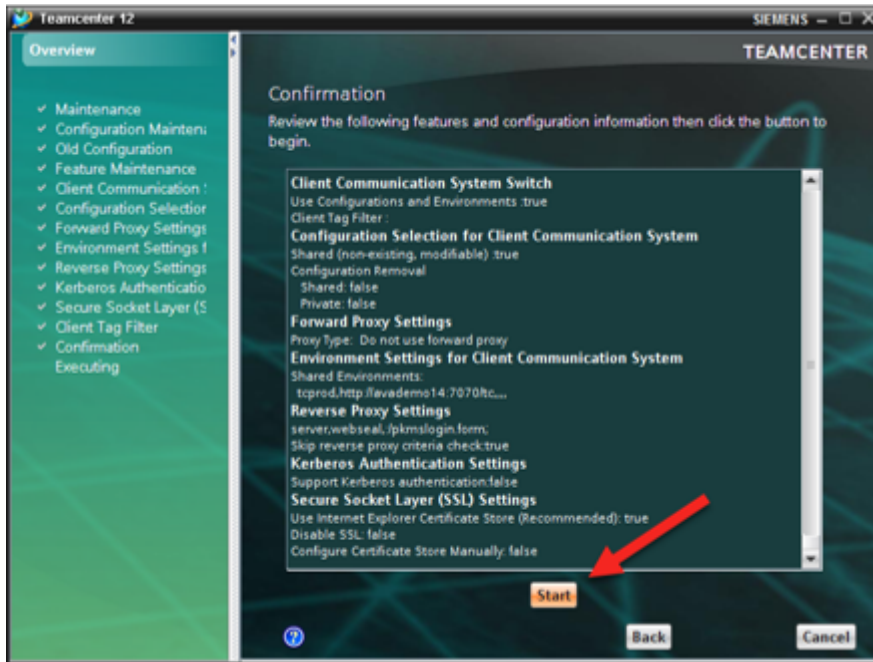


## 2.8 Client Tag Filter

Next...



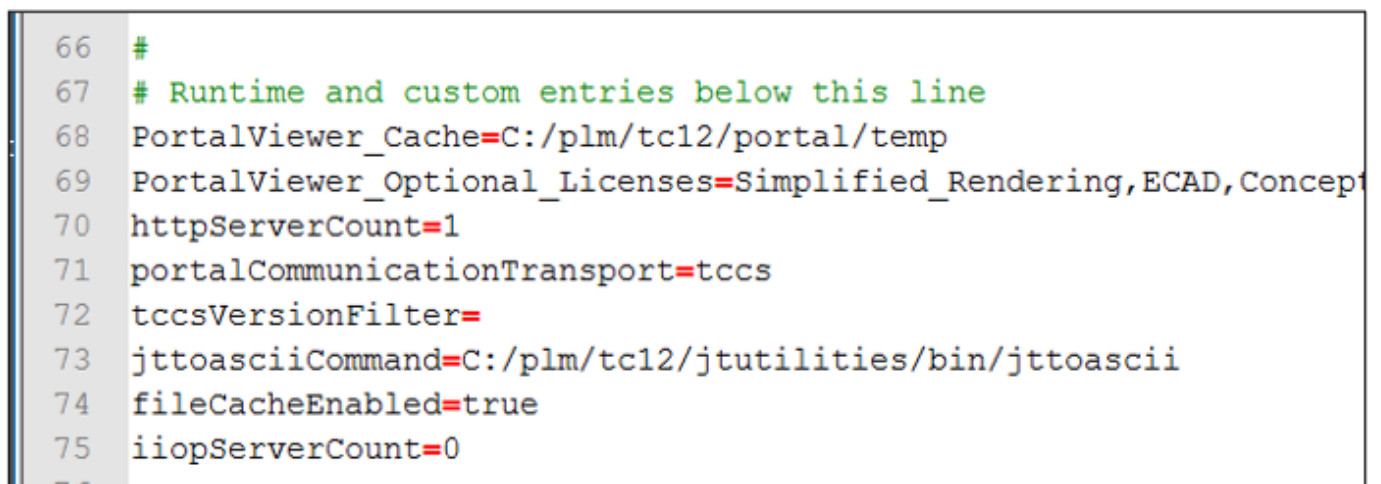
Confirmation



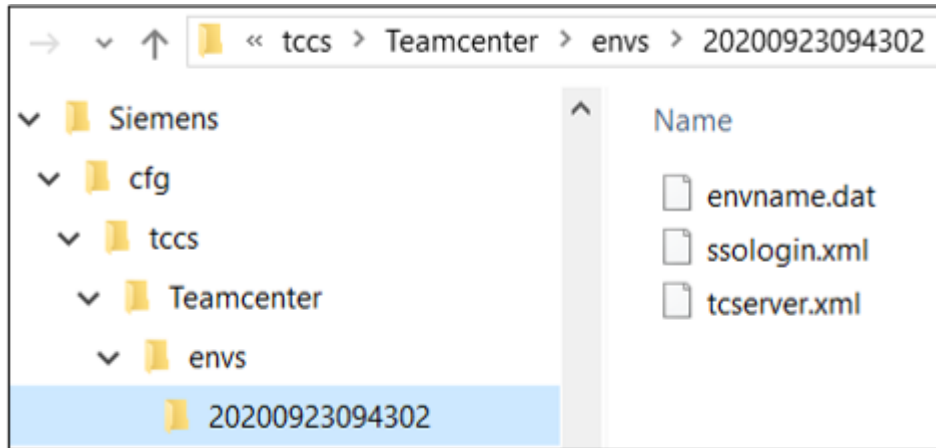
close

## 2.9 Ergebnis

In C:\plm\tc12\portal\plugins\configuration\_12000.2.0\client\_specific.properties



Siemens Ordner in C:\ProgramData\

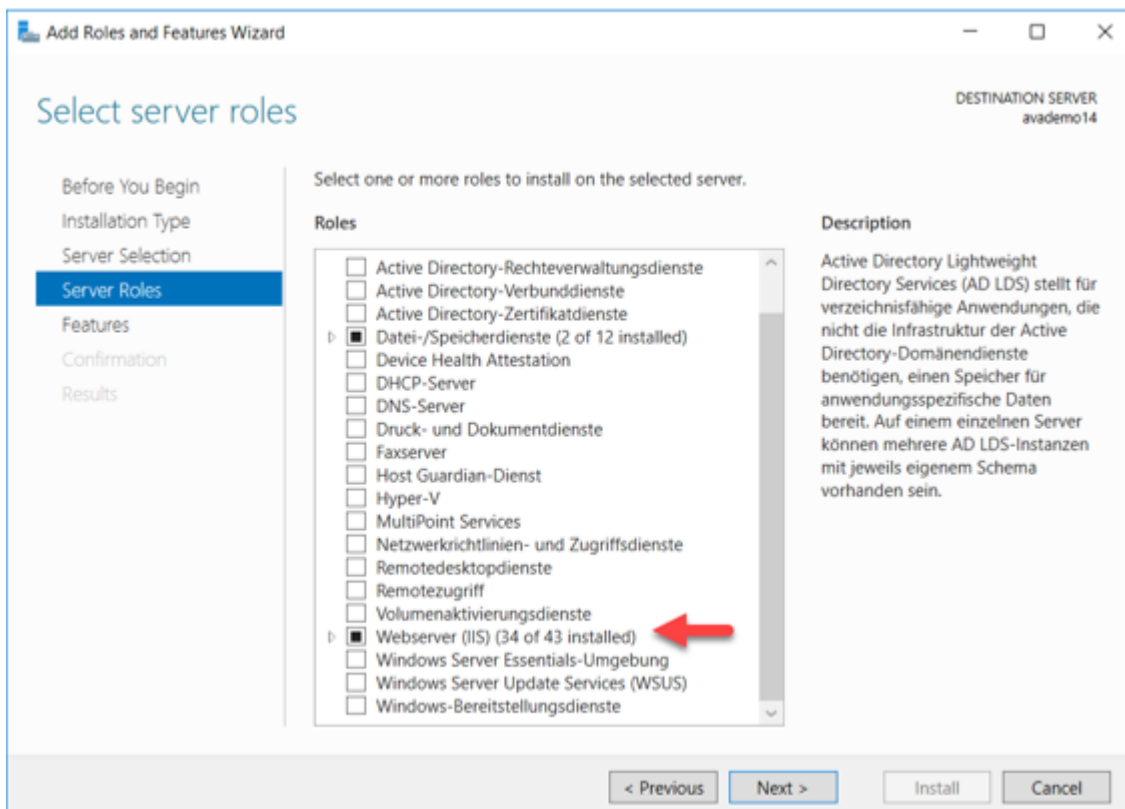
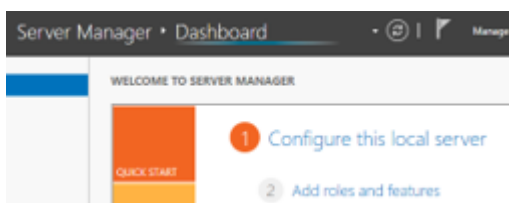


## 3. IIS auf Webserver konfigurieren

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

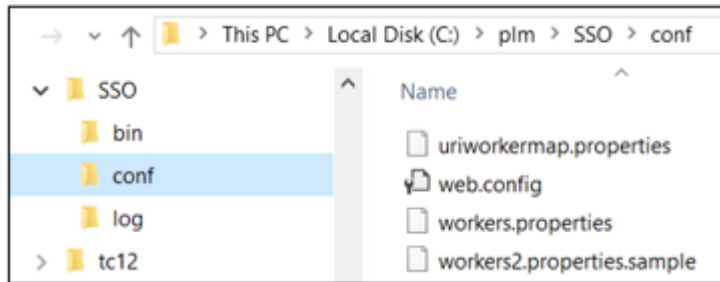
Install only the available ASP.NET 4.x role services. Do not install ASP.NET 3.x role services.

## 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
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
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=avademol14.hawaii.com
17 worker.ajp13w.port=8009
18 worker.ajp13w.max_packet_size=65536
19
```

## 5. Modify Tomcat server.xml

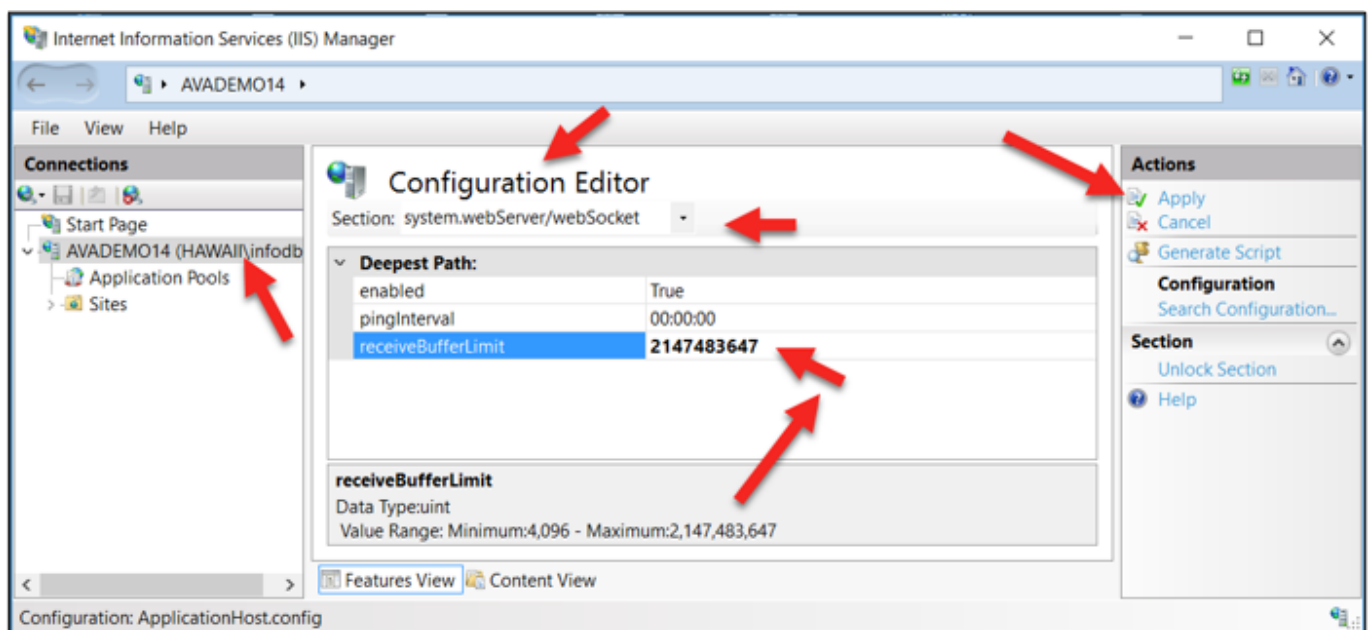
In „C:\plm\webapp\apache-tomcat-9.0.16\conf\server.xml“ anpassen:

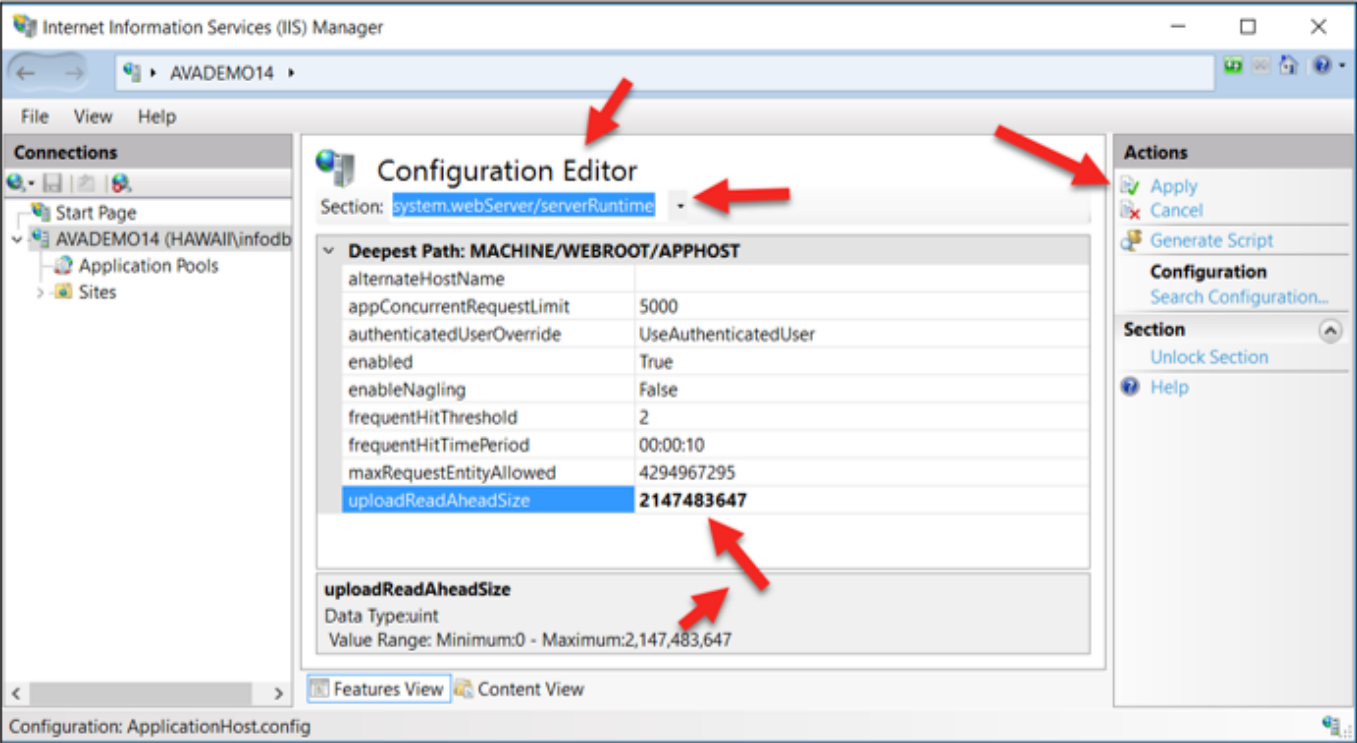
```
server.xml x
114
115      <!-- Define an AJP 1.3 Connector on port 8009 -->
116      <!-- <Connector port="8009" protocol="AJP/1.3" redirectPort="8443" /> -->
117      <Connector port="8009" protocol="AJP/1.3" redirectPort="8443" secretRequired="" maxTh
118
```

```
<!-- <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"/>
```

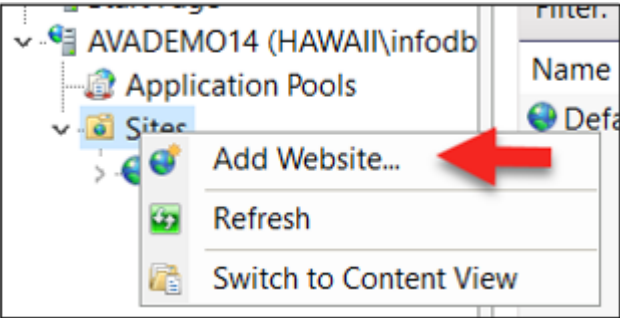
## 6. IIS konfigurieren

### 1. Configuration Editor





2. Website hinzufügen



**Add Website**

Site name:  Application pool:  

**Content Directory**

Physical path:  

Pass-through authentication

**Binding**

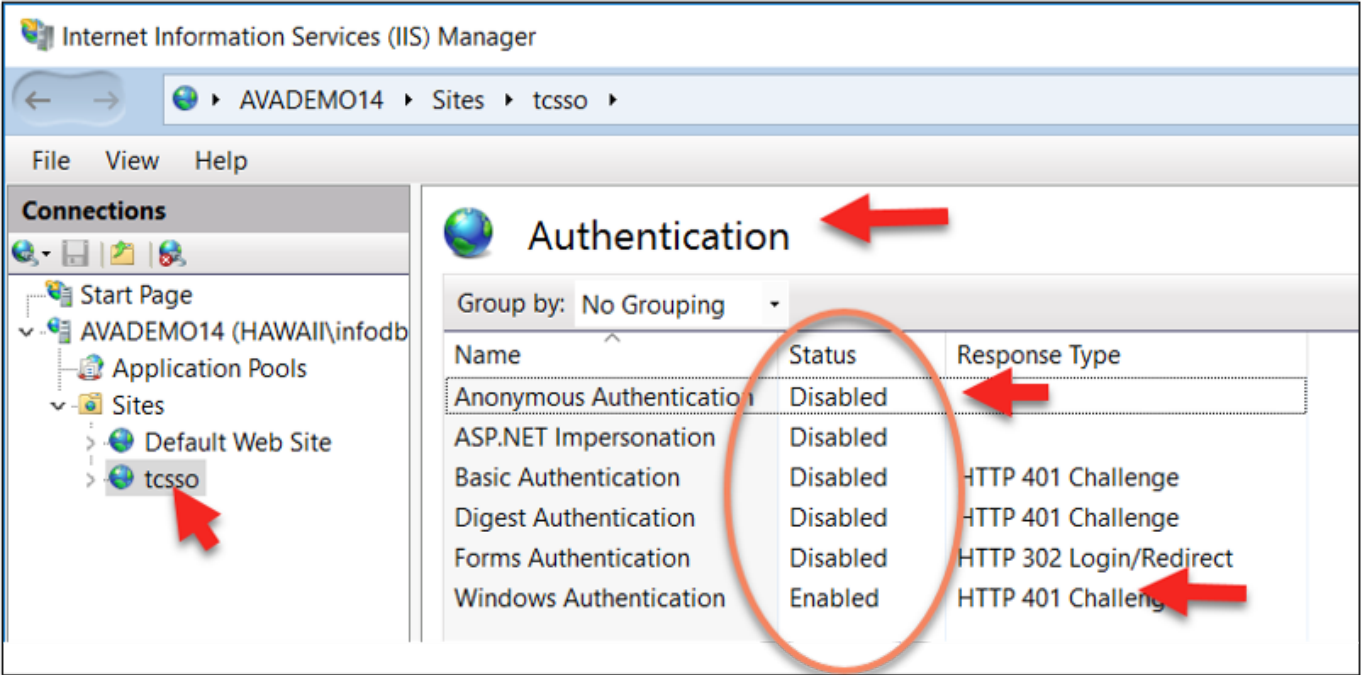
Type:  IP address:  Port:

Host name:

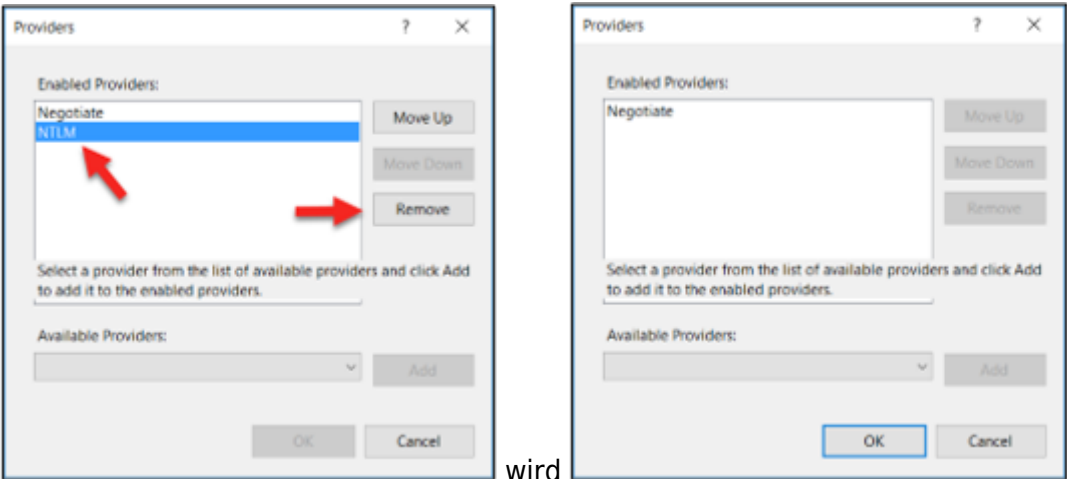
Example: www.contoso.com or marketing.contoso.com

☒ Start Website immediately

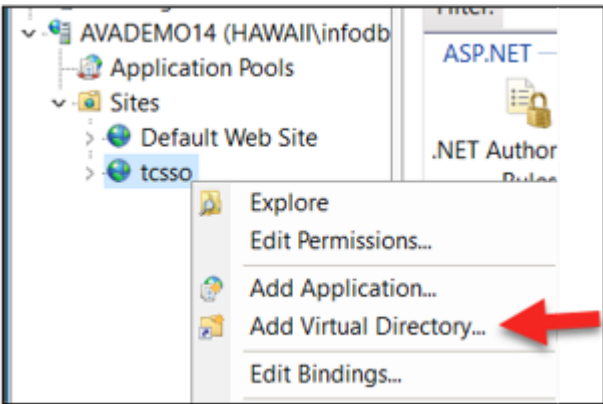
### 3. Remove NTLM



RMB Windows Authentication, Providers



4. Virtuelle Verzeichnis hinzufügen



**Add Virtual Directory** ? X

Site name: tcsso  
Path: /

Alias:  
jakarta

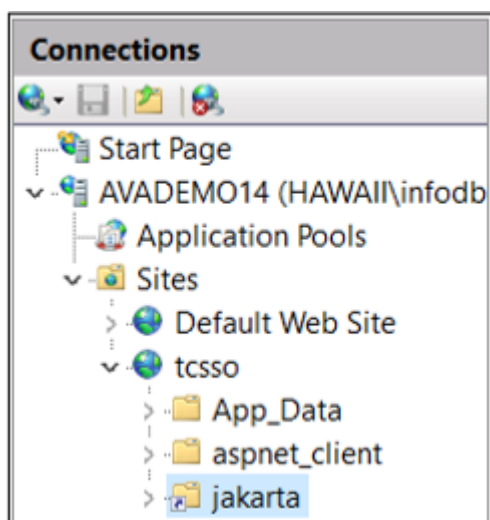
Example: images

Physical path:  
C:\plm\SSO\bin

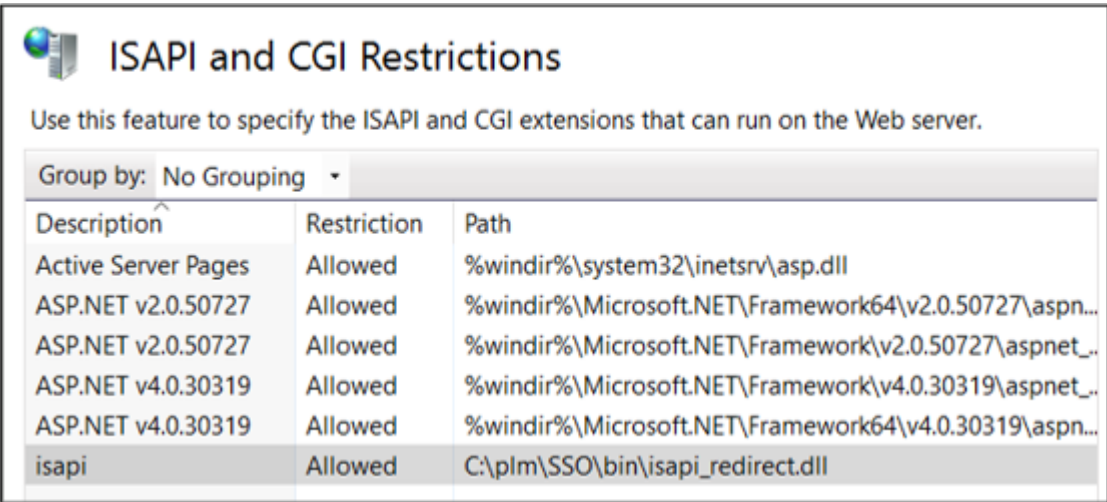
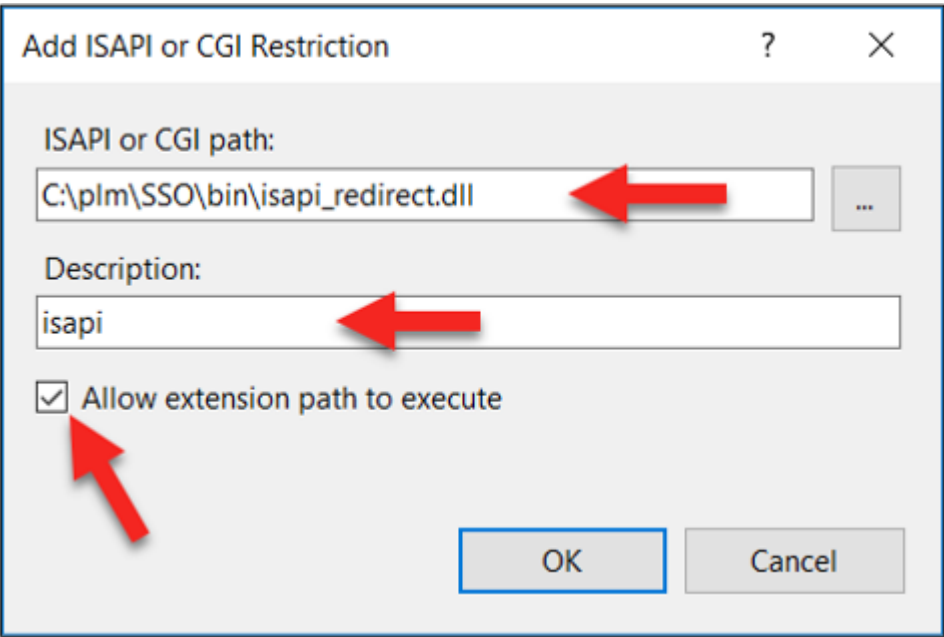
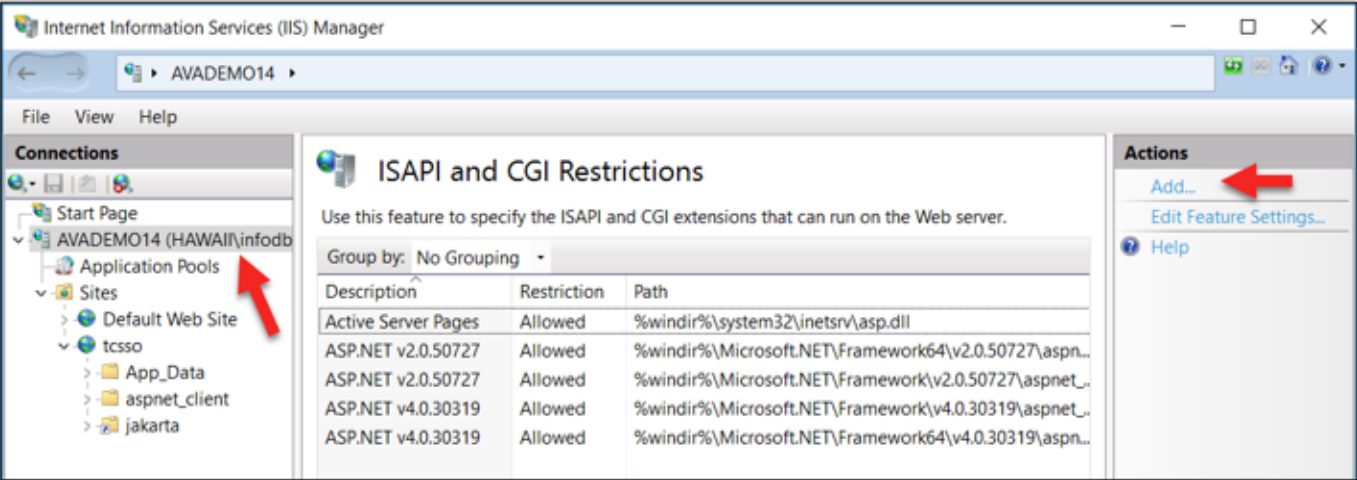
Pass-through authentication

Connect as... Test Settings...

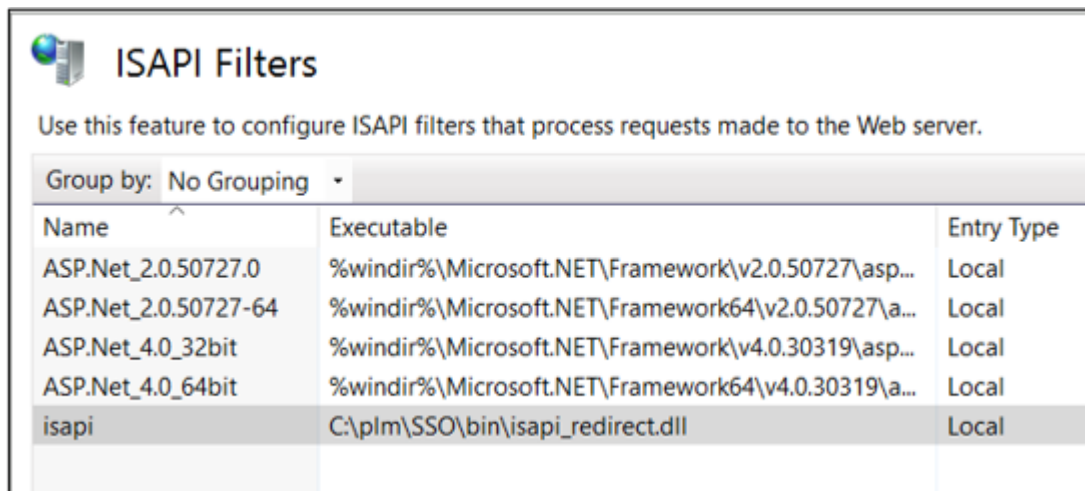
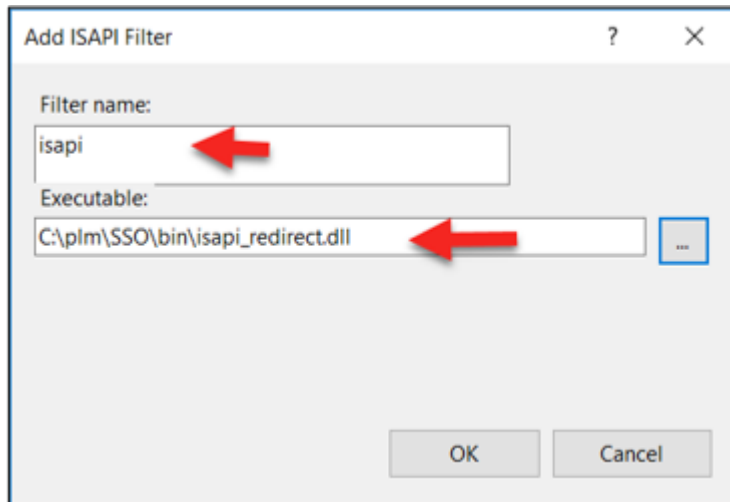
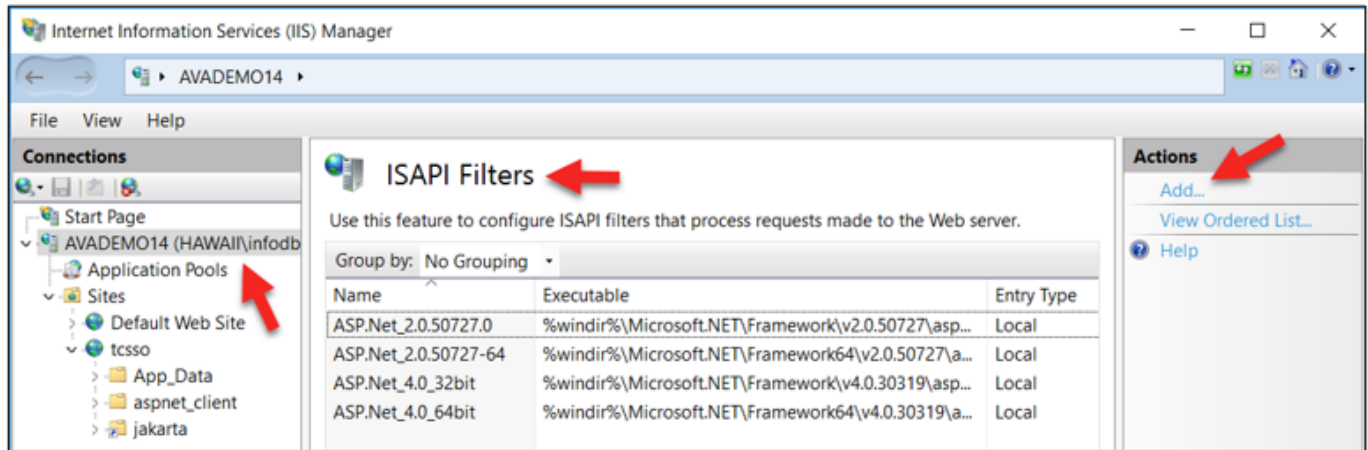
OK Cancel



## 5. ISAPI and CGI Restrictions



6. ISAPI-Filter



```
Administrator: Command Prompt

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

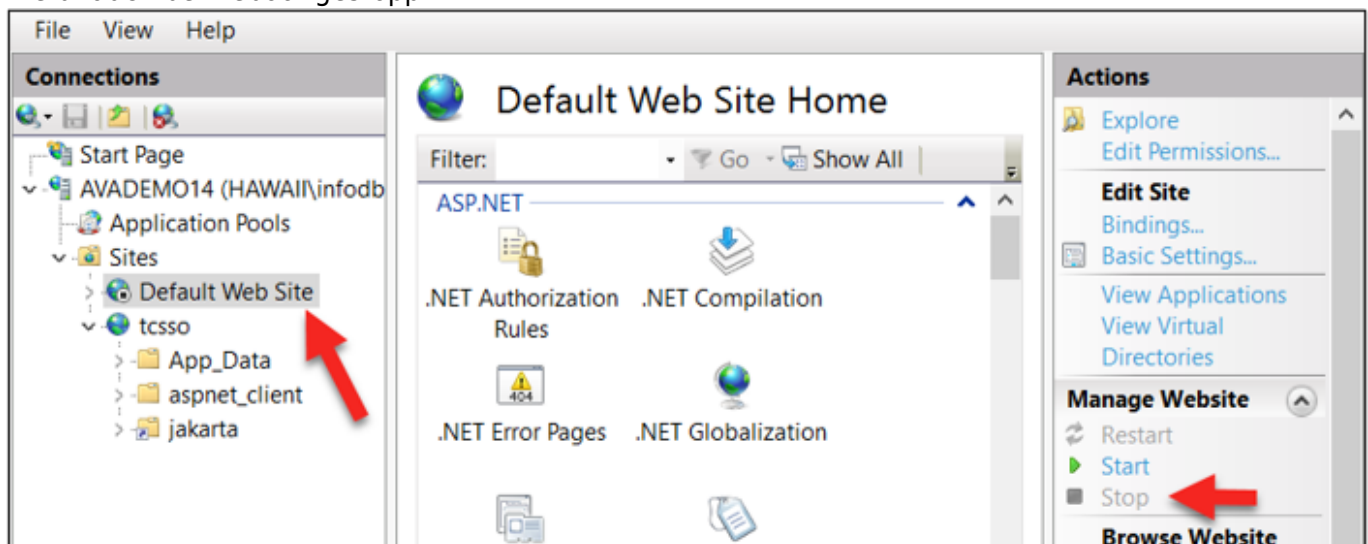
C:\Users\infodba>iisreset ←

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

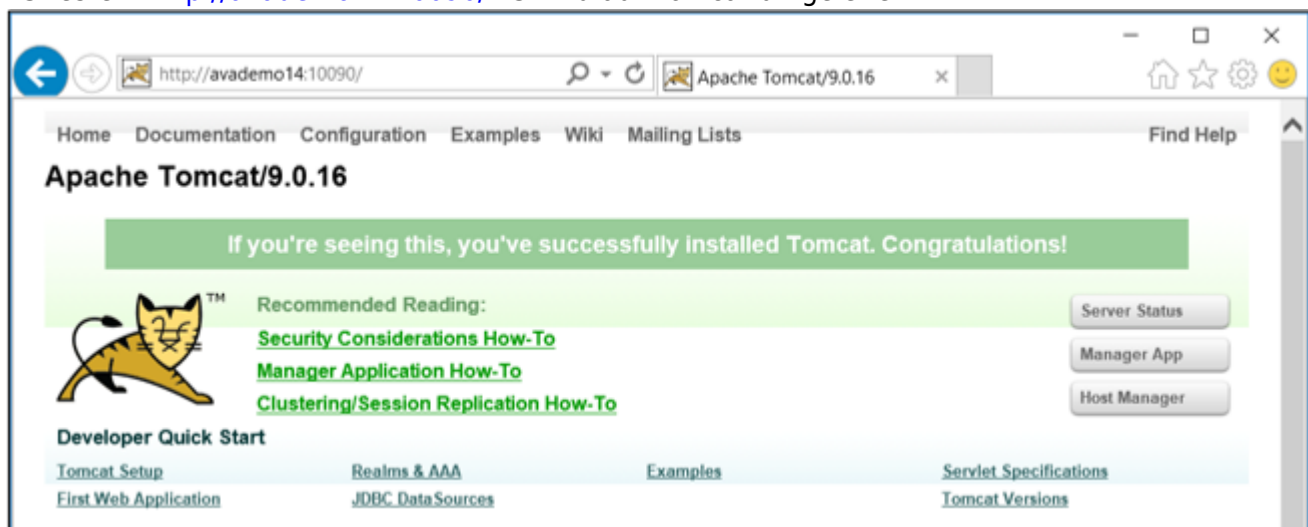
C:\Users\infodba>
```

## 7. Default Web Site deaktivieren

Bleibt auch bei Reboot gestoppt...



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

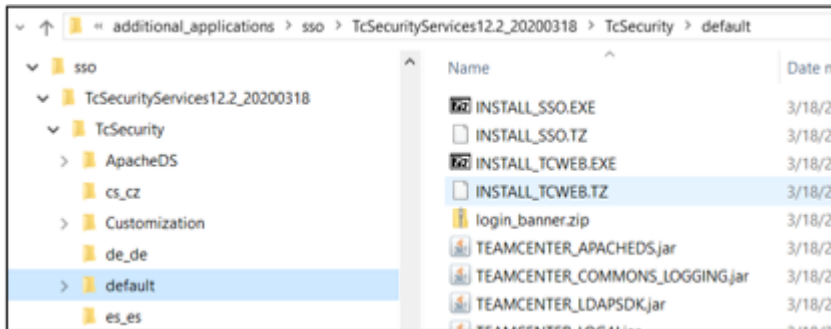


## 7. Installing Security Services

### 7.1 SSO Sources vorbereiten

In aktuell installiertem Patch, z.B.

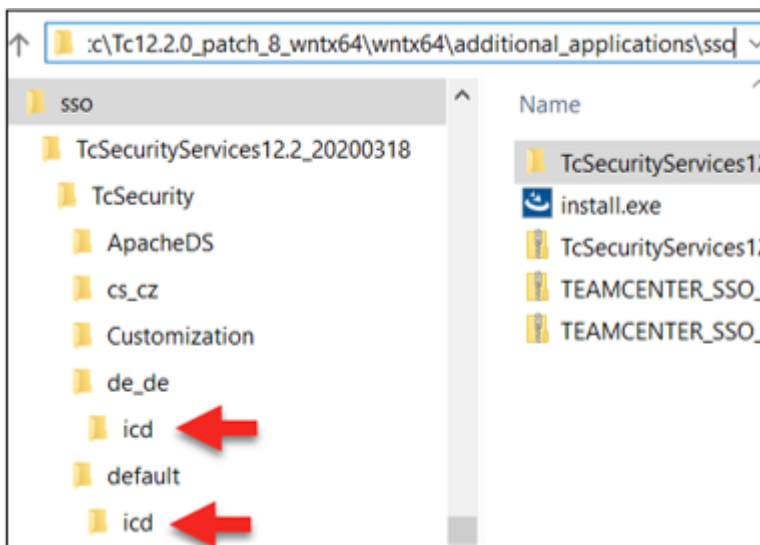
...\Tc12.2.0\_patch\_8\_wntx64\wntx64\additional\_applications\sso\TcSecurityServices12.2\_20200318.zip  
ip  
entpacken:



Folgendes ausführen:

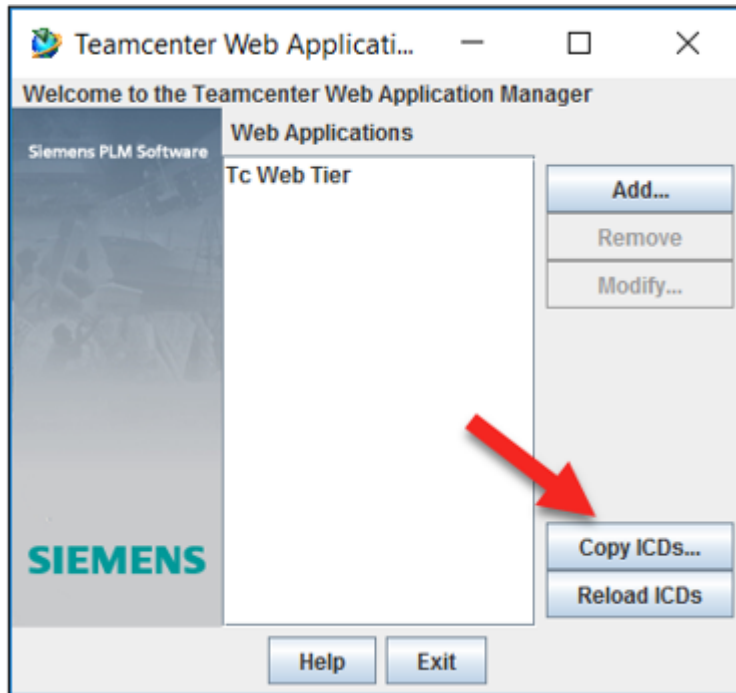
...\wntx64\additional\_applications\sso\TcSecurityServices12.2\_xx\TcSecurity\default\INSTALL\_SSO.EXE  
...\wntx64\additional\_applications\sso\TcSecurityServices12.2\_xx\TcSecurity\de\_de\INSTALL\_SSO\_DE\_DE.EXE

Ergebnis: icd Folders

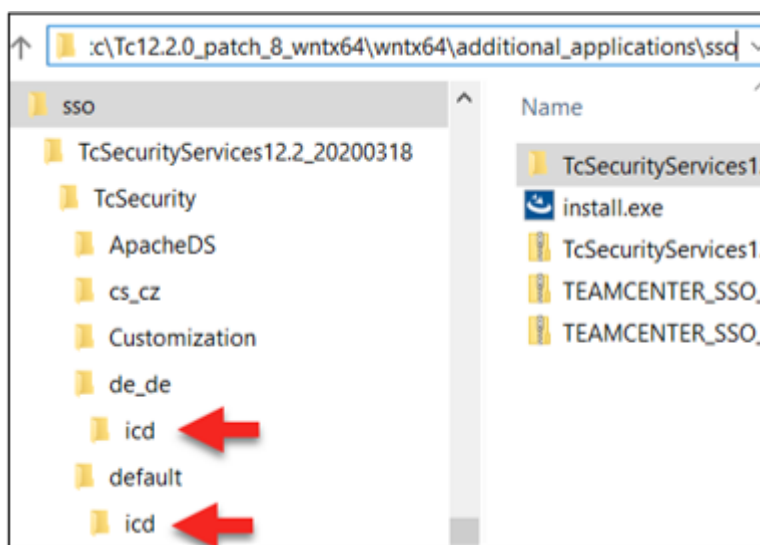


### 7.2 SSO ICD kopieren

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

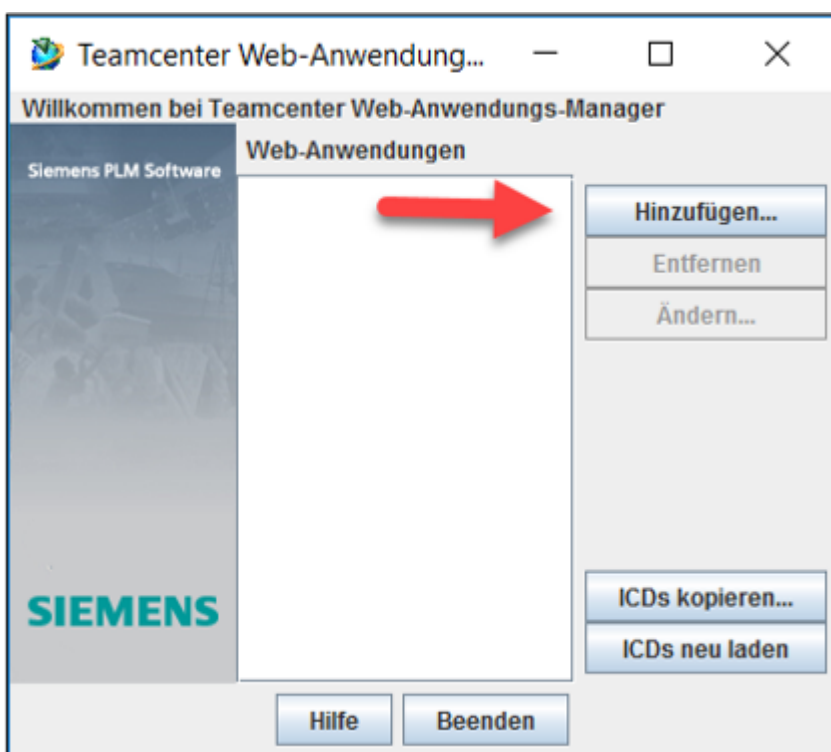
```
C:\Windows\system32\cmd.exe

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

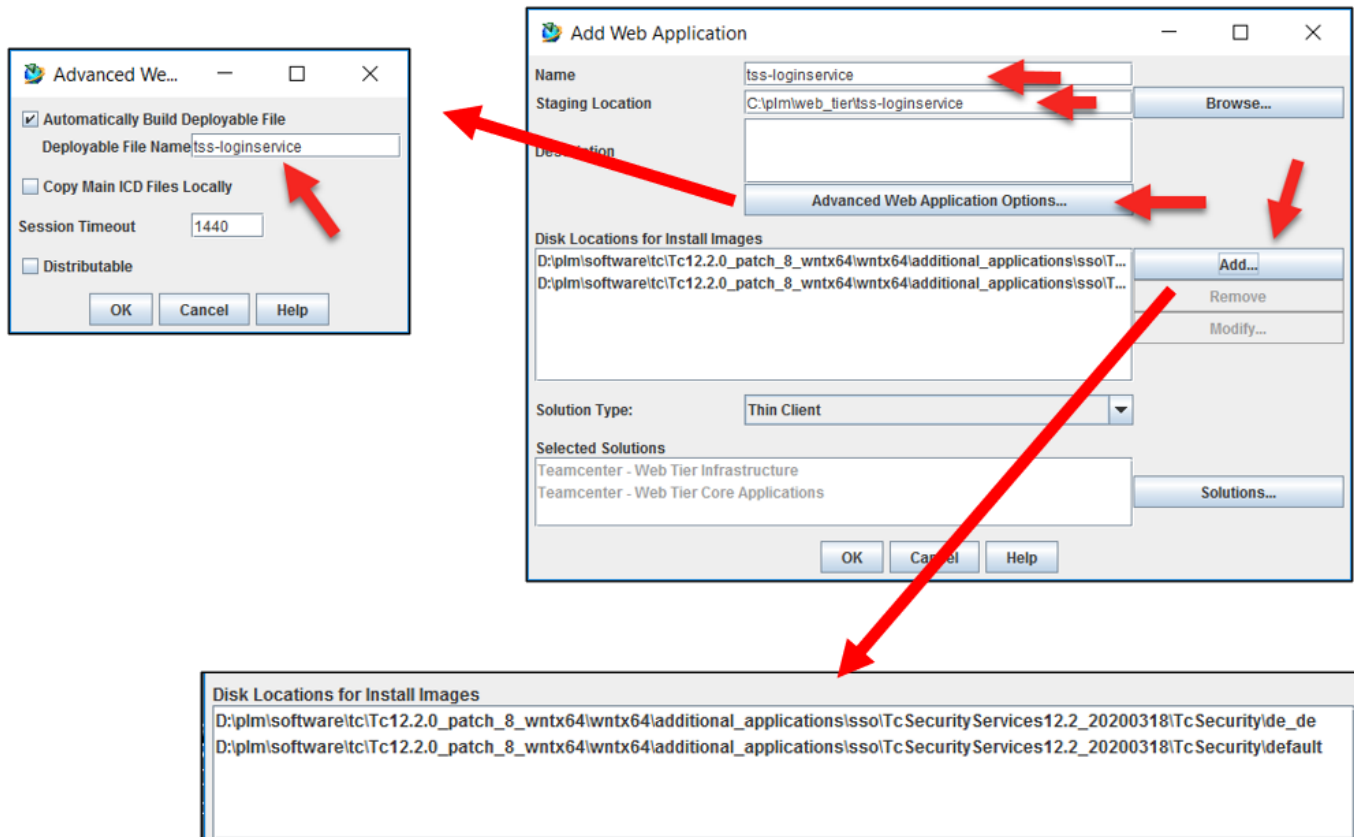
- Select: **Hinzufügen...**



## 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

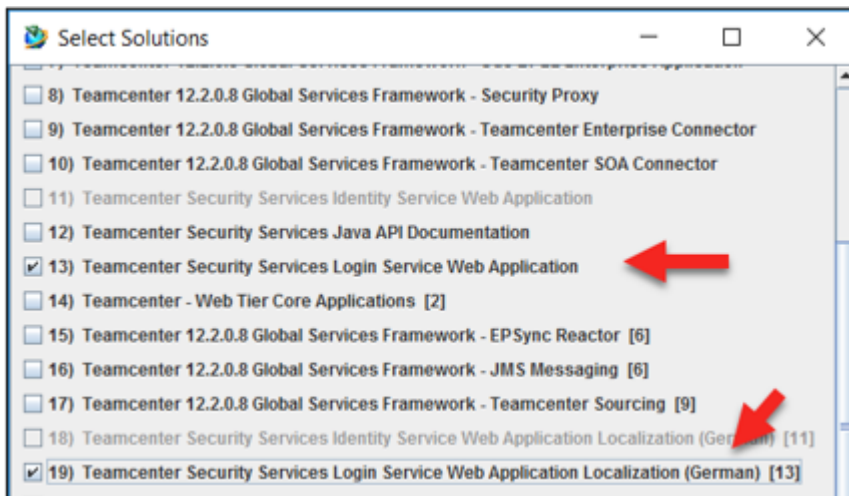
### 4. Solution Typ: → Thin Client

Lösungstyp: Thin Client

### 5. Selected Solutions

Solutions...

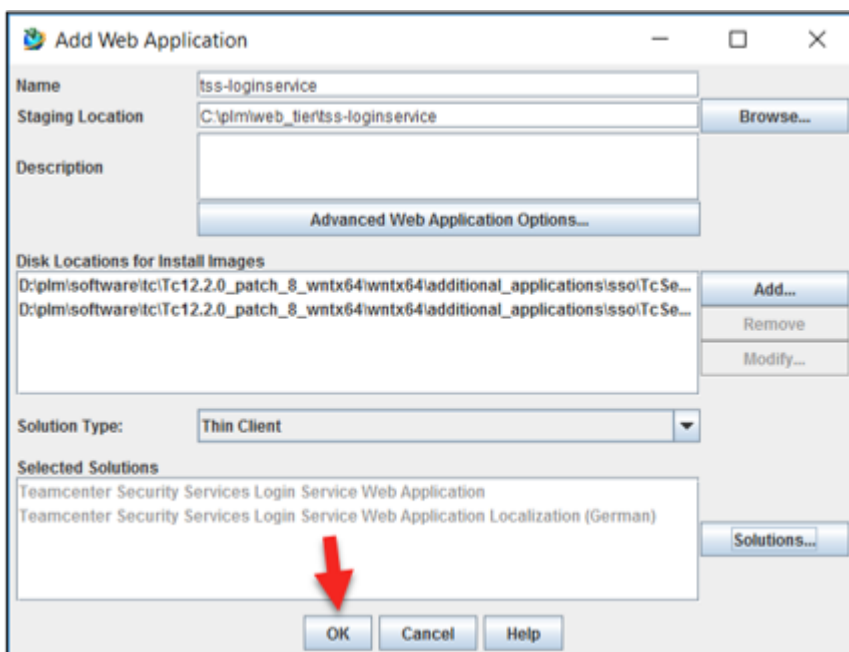
- Select the following:
  - **Security Services Login Service Web Application** (required)
  - **Language** (optional)



- Confirm with: OK

## 6. Terminate Add Web Application

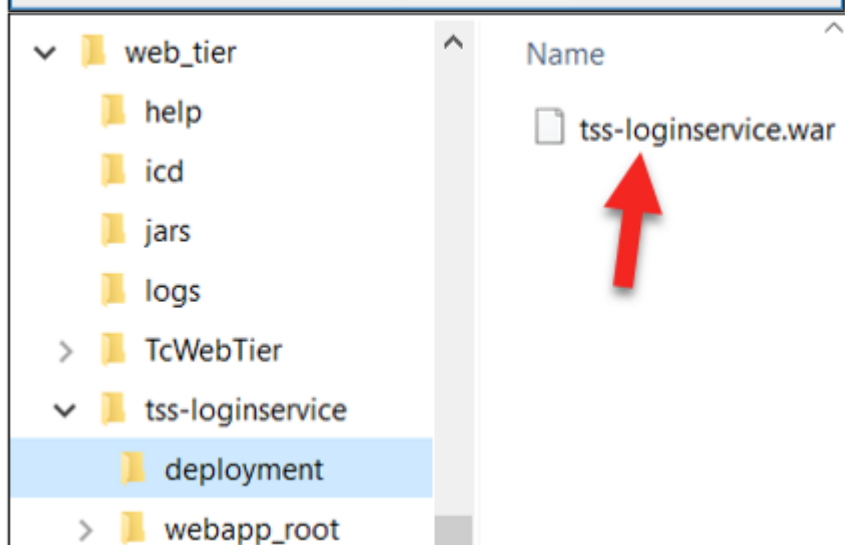
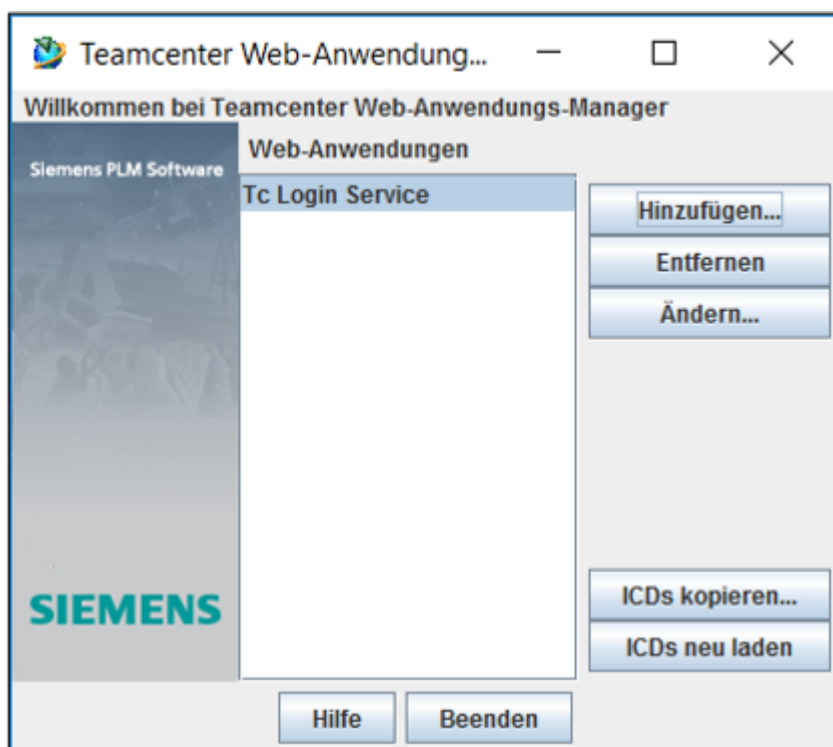
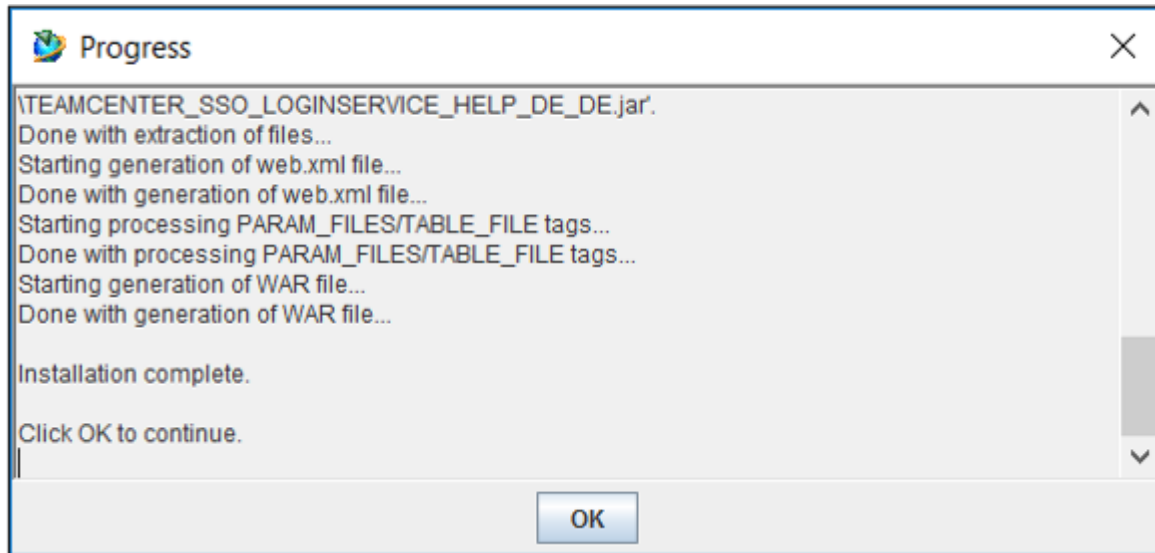
- Check entries...



- Confirm with: OK

## 7. Progress:

- Confirm with: OK

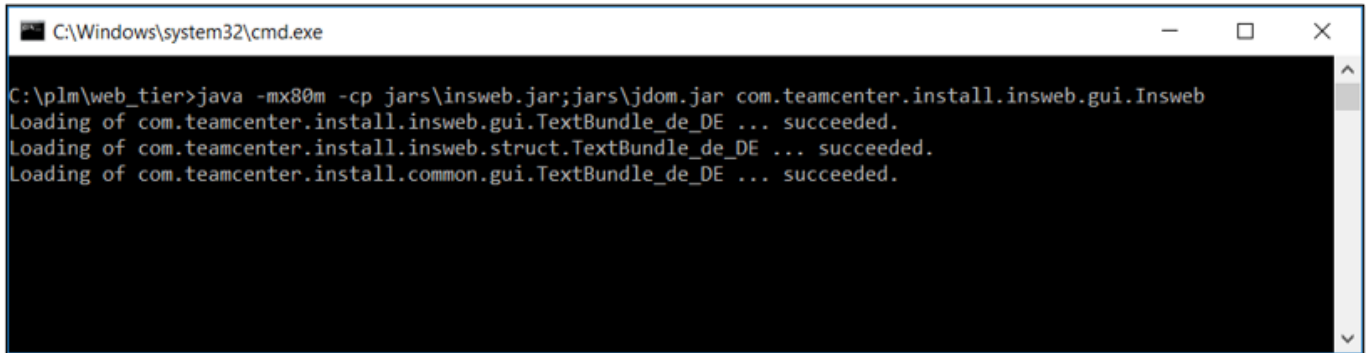


## 9. Tss-idservice erstellen

### 9.1 Create the Identity Service

#### 1. Start the Web Application Manager

- c:\plm\web\_tier\insweb.bat

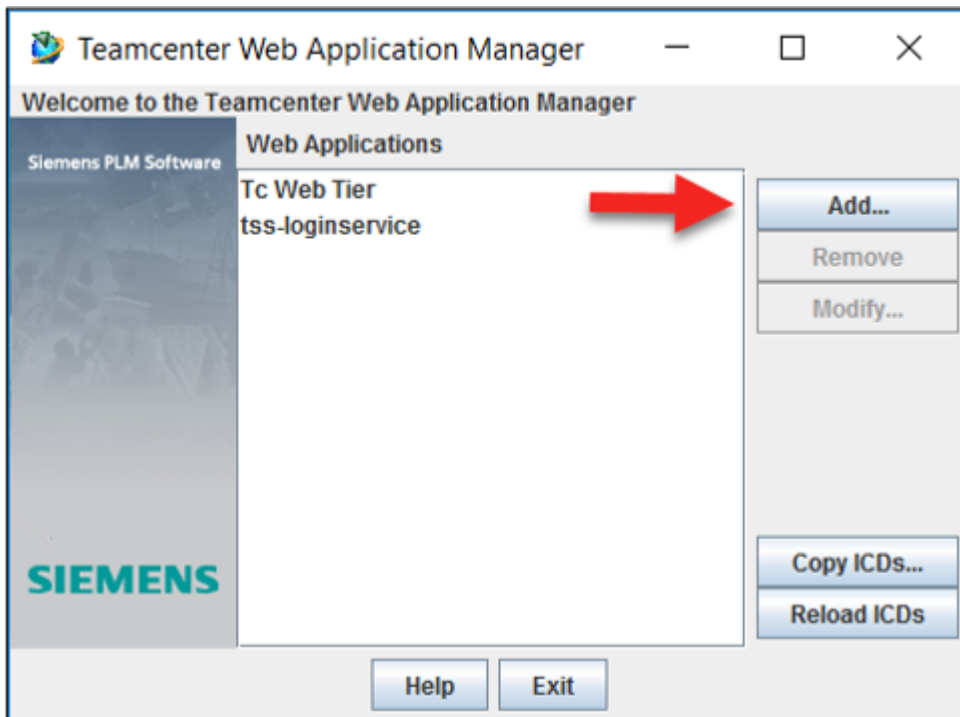


```
C:\Windows\system32\cmd.exe

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

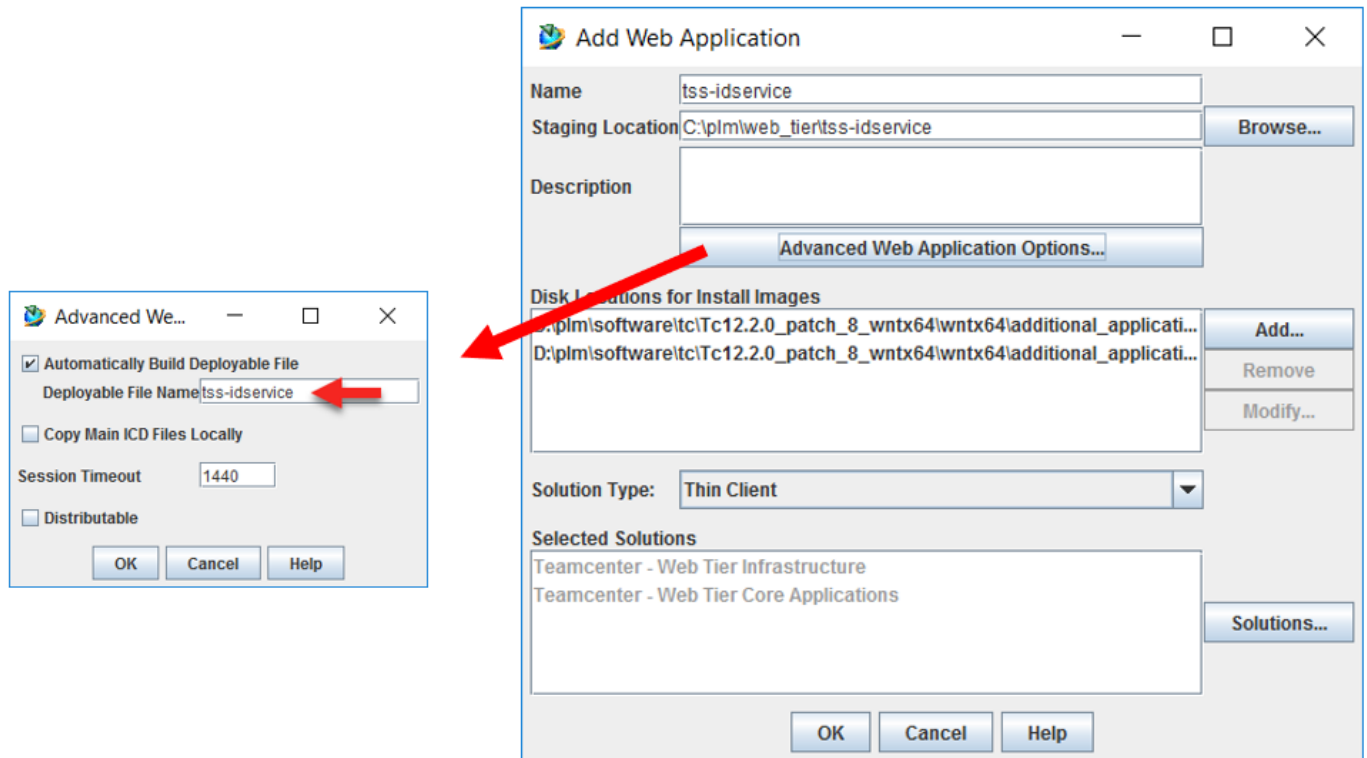
- Select: **Hinzufügen...**



#### Add Web Application

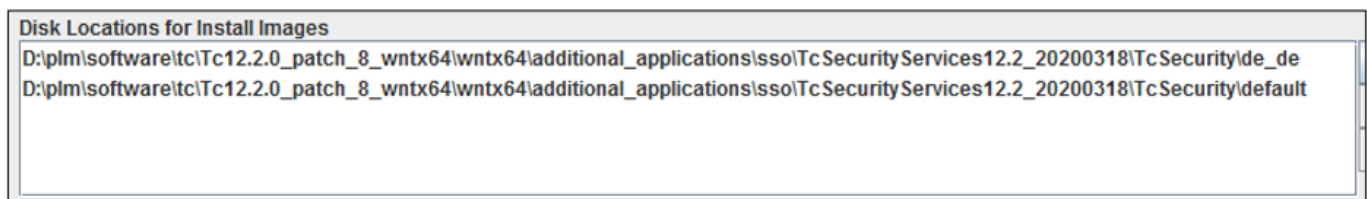
- Name: tss-idservice
- Staging Location: c:\plm\web\_tier\tss-idservice
- Advanced Web Application Options...

Zu verwendende Datei: tss-idservice

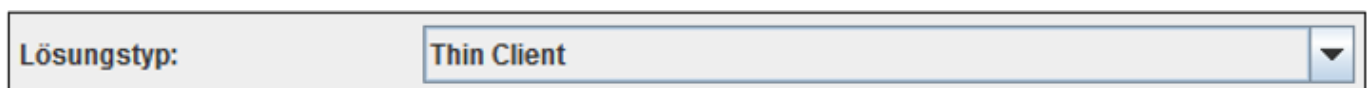


## 2. Disk Locations for Install Images

- Add...



## 3. Solution Typ: → Thin Client

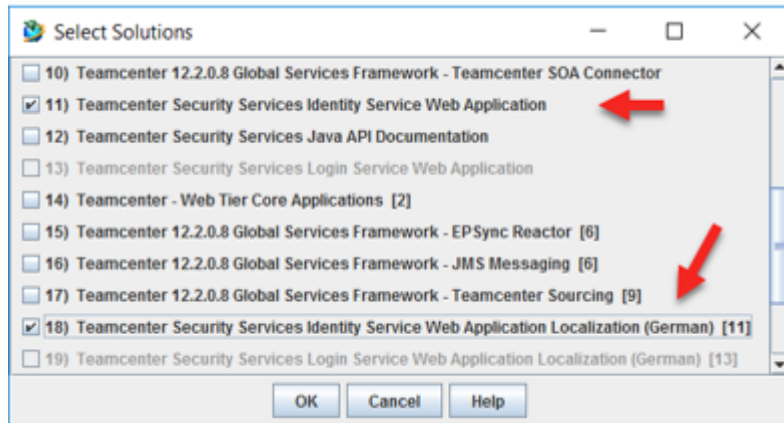


## 4. Selected Solutions



Select the following:

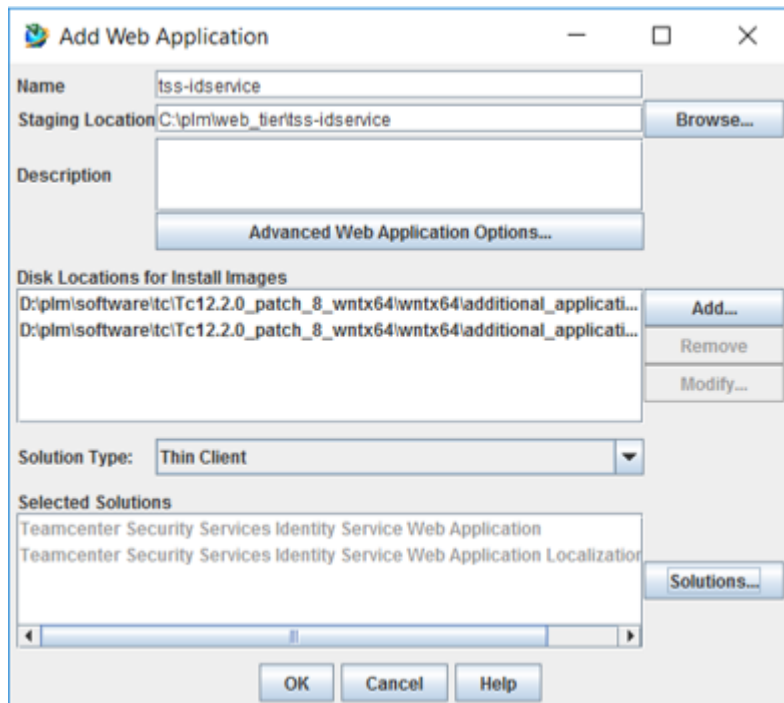
- **TC Security Services Identity Service Web Application** (required)
- **Language** (optional)



- Confirm with: OK

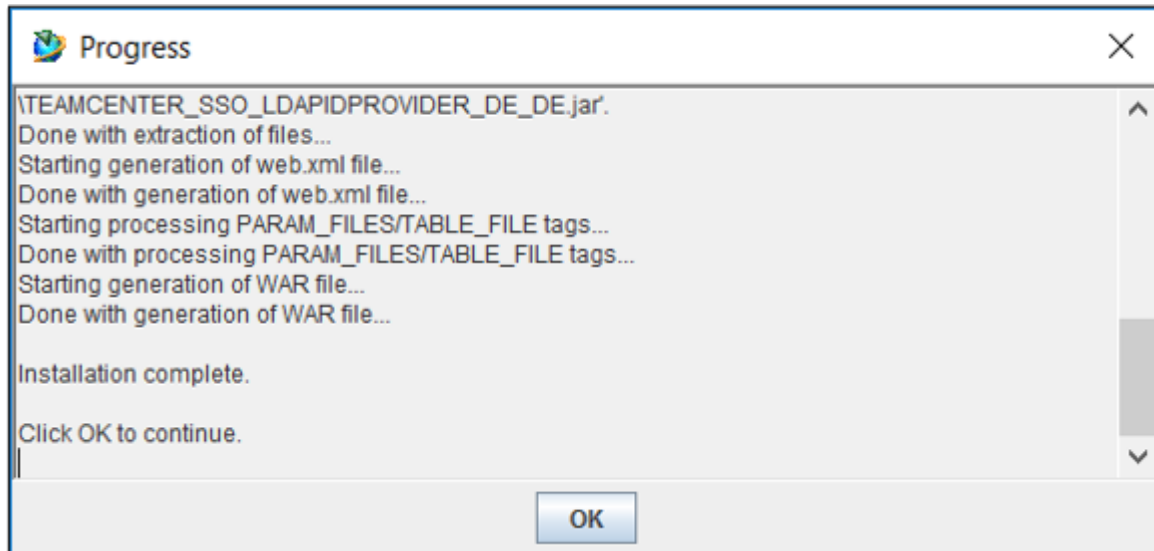
Terminate Add Web Application

- Check entries...

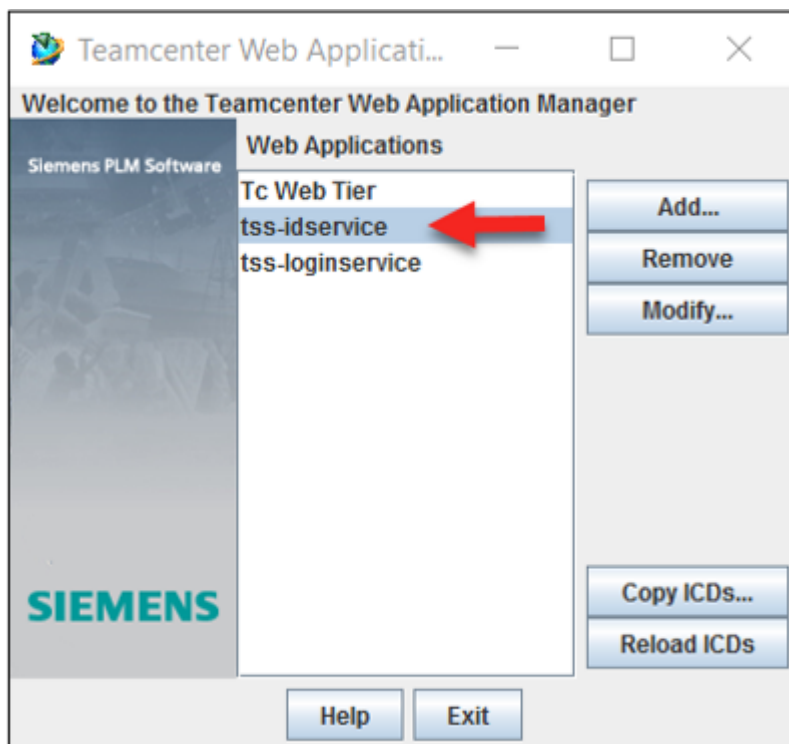


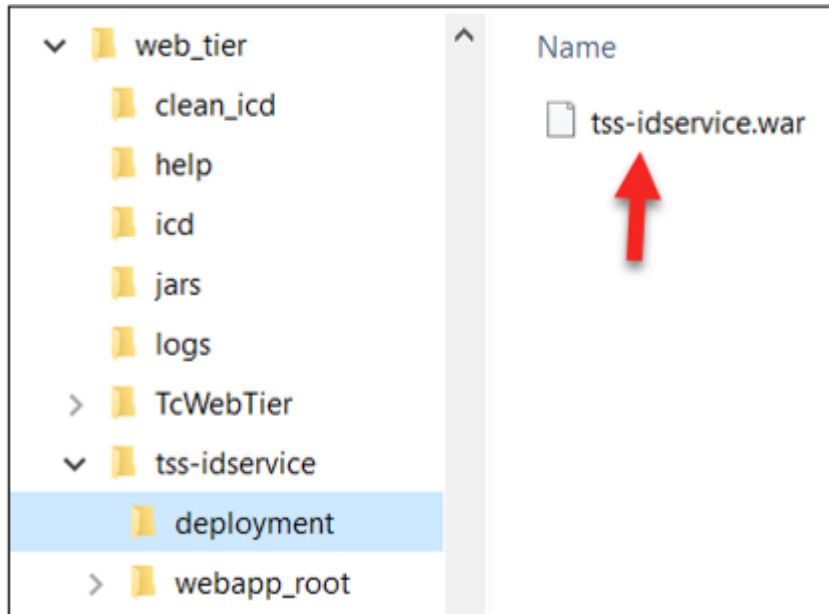
- Confirm with: OK

5. Progress:



- Confirm with: **OK**

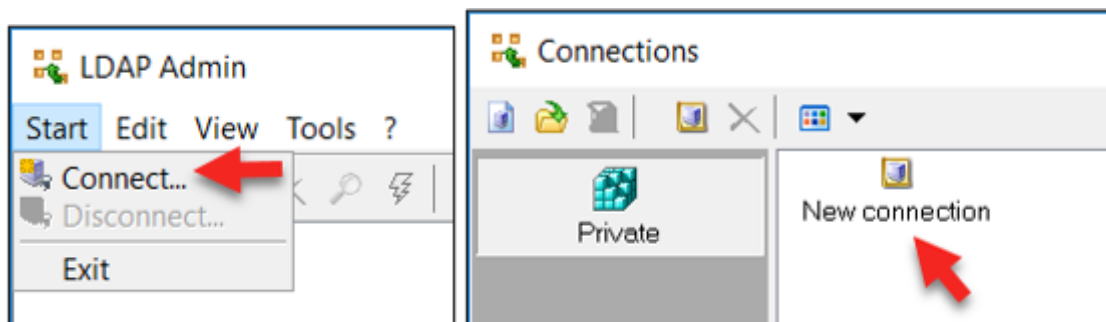




## 10. Tss-loginservices anpassen

### 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 (indicated by a red arrow)

Modify... (indicated by a red arrow)

Buttons: OK, Cancel, Help

**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:\pimlweb\_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

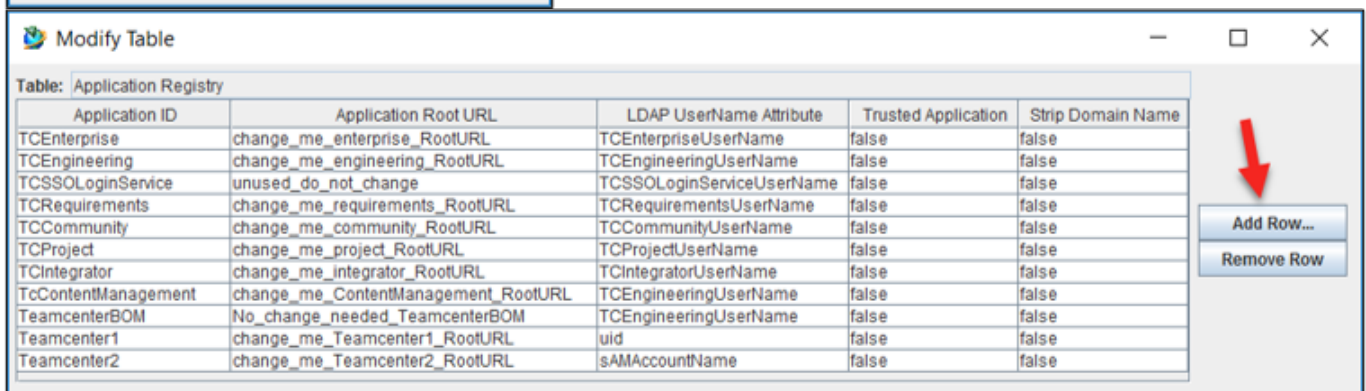
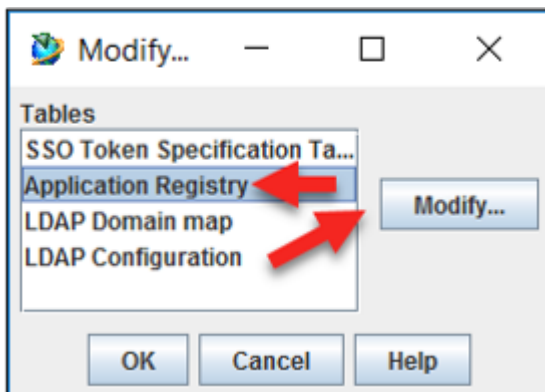
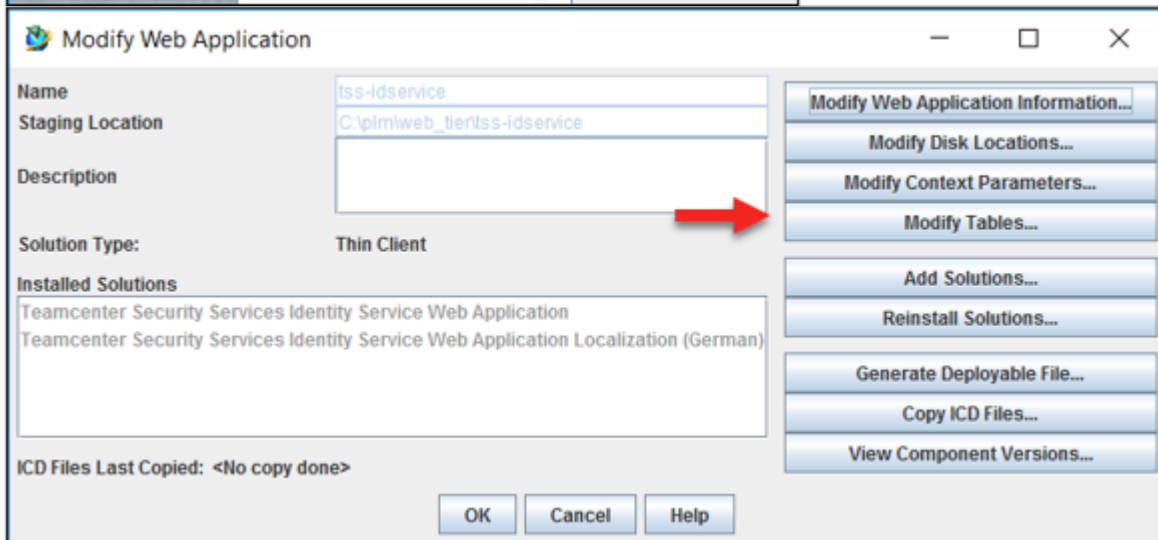
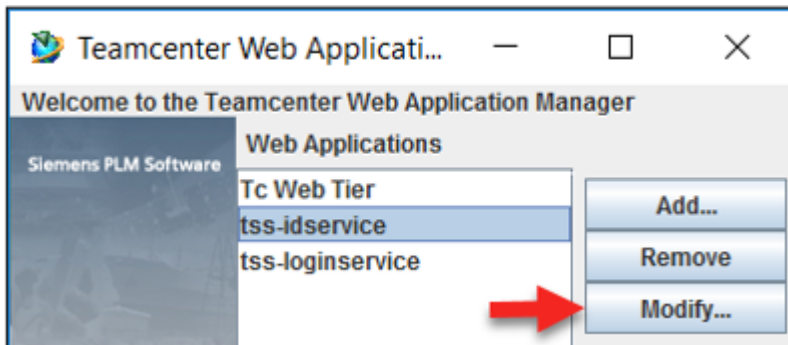
|                                                         |                                                                                                             |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>tcsso.login_service.sso_service_url:</b>             | <a href="http://avademo14.hawaii.com:7070/tss-idservice">http://avademo14.hawaii.com:7070/tss-idservice</a> |
| <b>identityServicePassword:</b>                         | sicheres Passwort eingeben: 1nFodbAA                                                                        |
| <b>tcsso.behind_sso_gateway:</b>                        | true                                                                                                        |
| <b>tcsso.gateway.field.type:</b>                        | remote_user                                                                                                 |
| <b>tcsso.gateway.field.name:</b>                        | REMOTE_USER                                                                                                 |
| <b>tcsso.login_service.enable_session_agent_applet:</b> | false                                                                                                       |
| <b>tcsso.login_service.enableCsrf:</b>                  | false                                                                                                       |



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

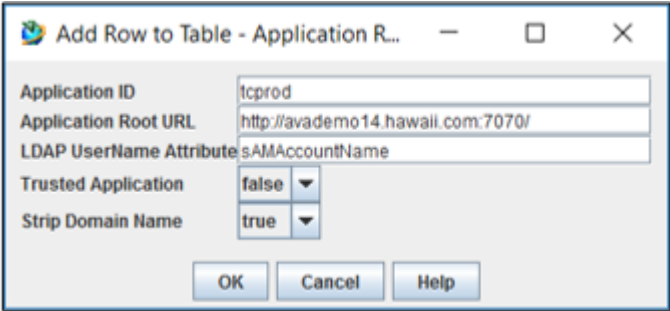
## 10.2 Tss-idservices anpassen

### 10.2.1 tss-idservice anpassen, Modify Tables

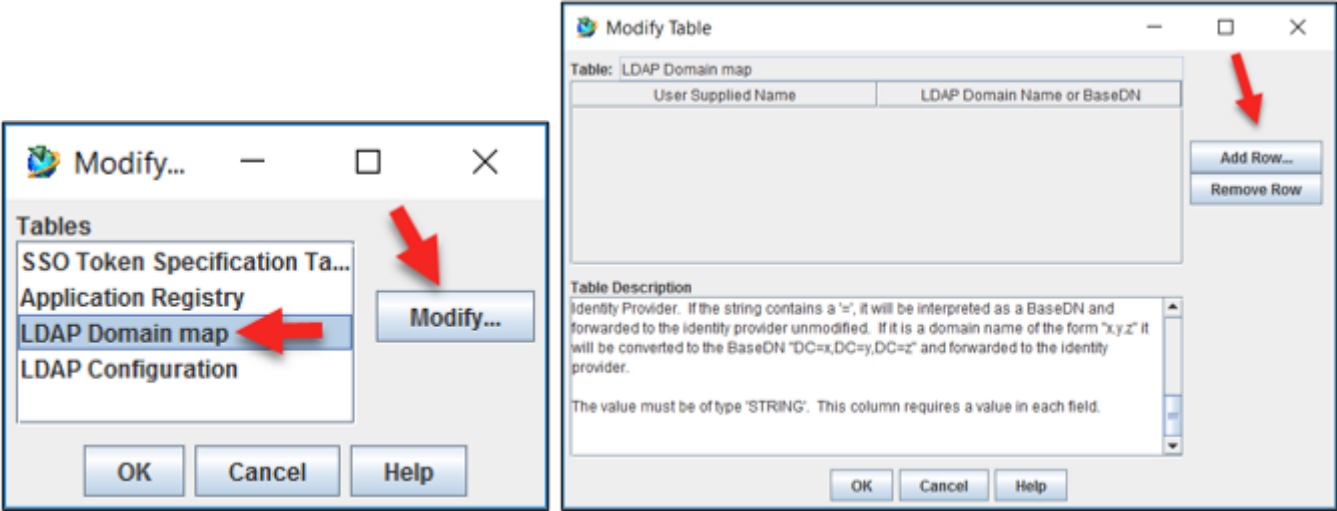
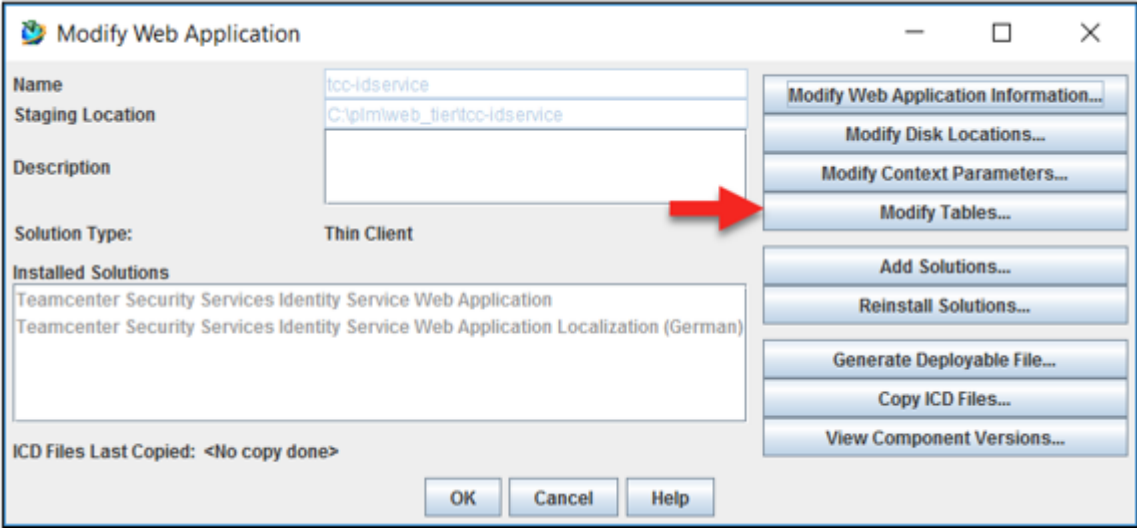


|                              |                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------|
| <b>Application ID:</b>       | tcprod (SID...)                                                                   |
| <b>Application Root URL:</b> | <a href="http://avademo14.hawaii.com:7070/">http://avademo14.hawaii.com:7070/</a> |

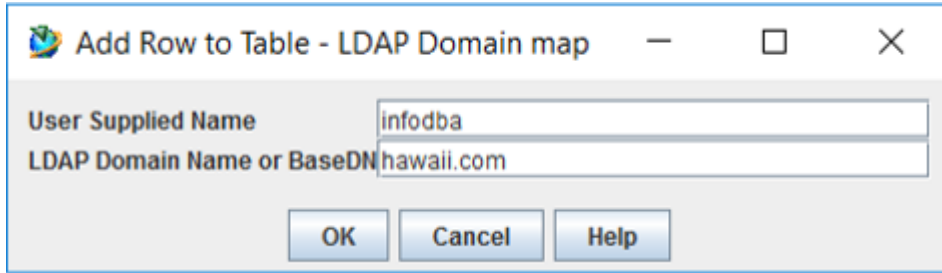
|                                 |                |
|---------------------------------|----------------|
| <b>LDAP UserName Attribute:</b> | sAMAccountName |
| <b>Trusted Application:</b>     | false          |
| <b>Strip Domain Name:</b>       | true           |



10.2.2 tss-idservice anpassen, Modify Tables



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



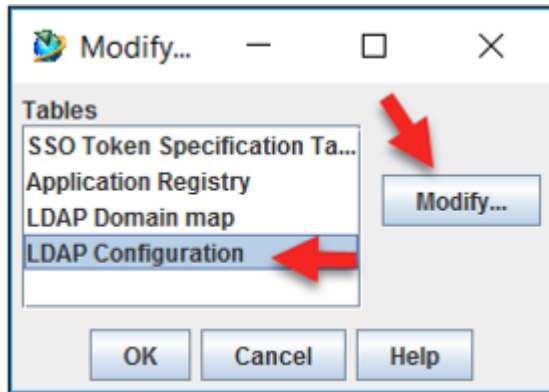
**Add Row to Table - LDAP Domain map**

User Supplied Name: infodba

LDAP Domain Name or BaseDN: hawaii.com

OK Cancel Help

### 10.2.3 tss-idservice anpassen, Modify Tables



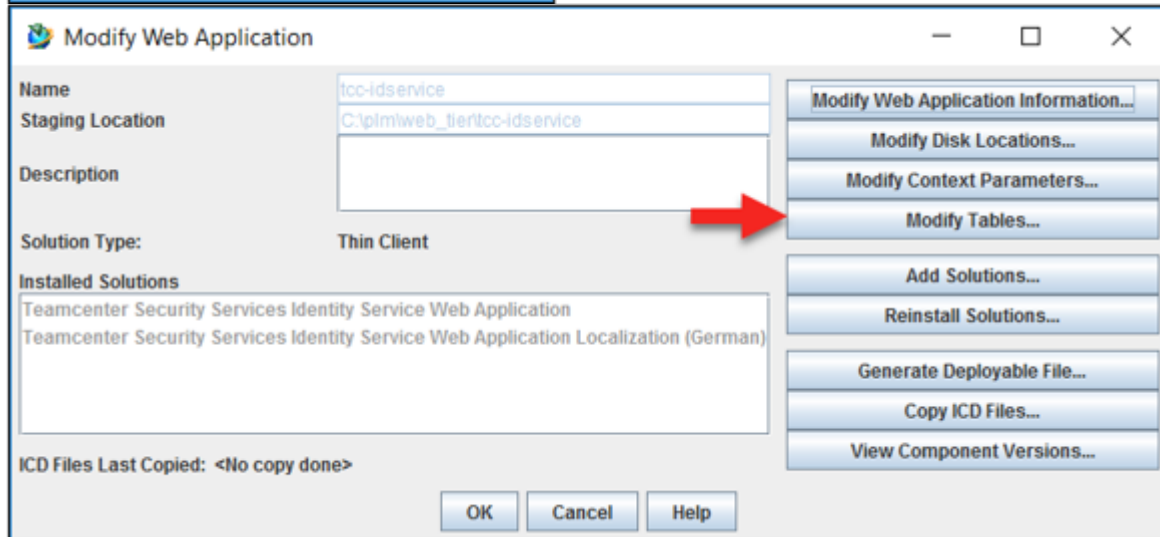
**Modify...**

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...**

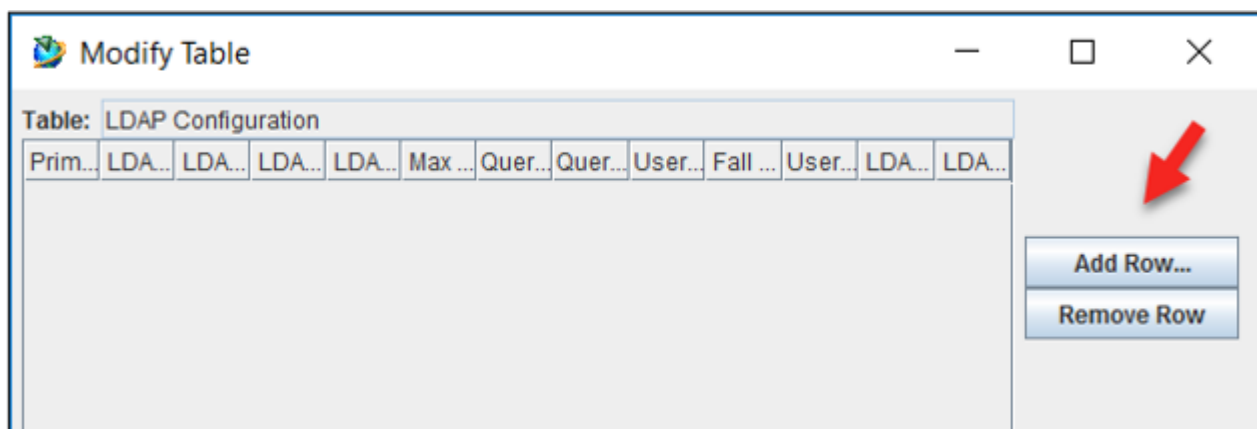
Add Solutions...

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

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

\*\*\*\*\*

UserObjectClass

user

Fall back to User Attribute

Y

User Attribute

sAMAccountName

LDAP Connection Setup Delay

-1

LDAP Connection Timeout

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

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

Authentication Events Dropdown:

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

**Modify Context Parameters**

| Req                      | Name                    | Value                             |
|--------------------------|-------------------------|-----------------------------------|
| <input type="checkbox"/> | webmaster               | change_me_webmaster_name...       |
| <input type="checkbox"/> | identityProvider        | com.teamcenter.ss.identity.spi... |
| <input type="checkbox"/> | identityServicePassword | .....                             |
| <input type="checkbox"/> | passwordLifetime        | 30                                |
| <input type="checkbox"/> | mediatorPassword        | .....                             |
| <input type="checkbox"/> | tokenLifetime           | 600                               |
| <input type="checkbox"/> | sessionLifetime         | 600                               |
| <input type="checkbox"/> | tcsso.LogLevel          | All authentication events         |
| <input type="checkbox"/> | tcsso.AuthLogDir        | c:\plm\SSO\log                    |
| <input type="checkbox"/> | LDAPVersion             | 3                                 |
| <input type="checkbox"/> | PasswordResetEnabled    | false                             |
| <input type="checkbox"/> | PasswordResetMessage    |                                   |
| <input type="checkbox"/> | GatewayAliasingEnabled  | false                             |
| <input type="checkbox"/> | ReferralsEnabled        | false                             |
| <input type="checkbox"/> | ReferralHopLimit        | 5                                 |
| <input type="checkbox"/> | DEBUG                   | warn                              |

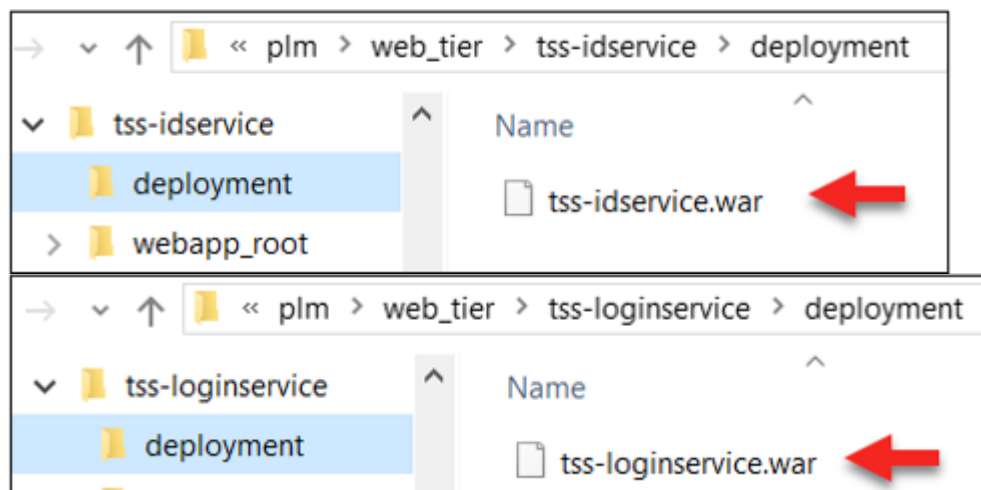
**Progress**

File generation complete.  
 Click OK to continue.

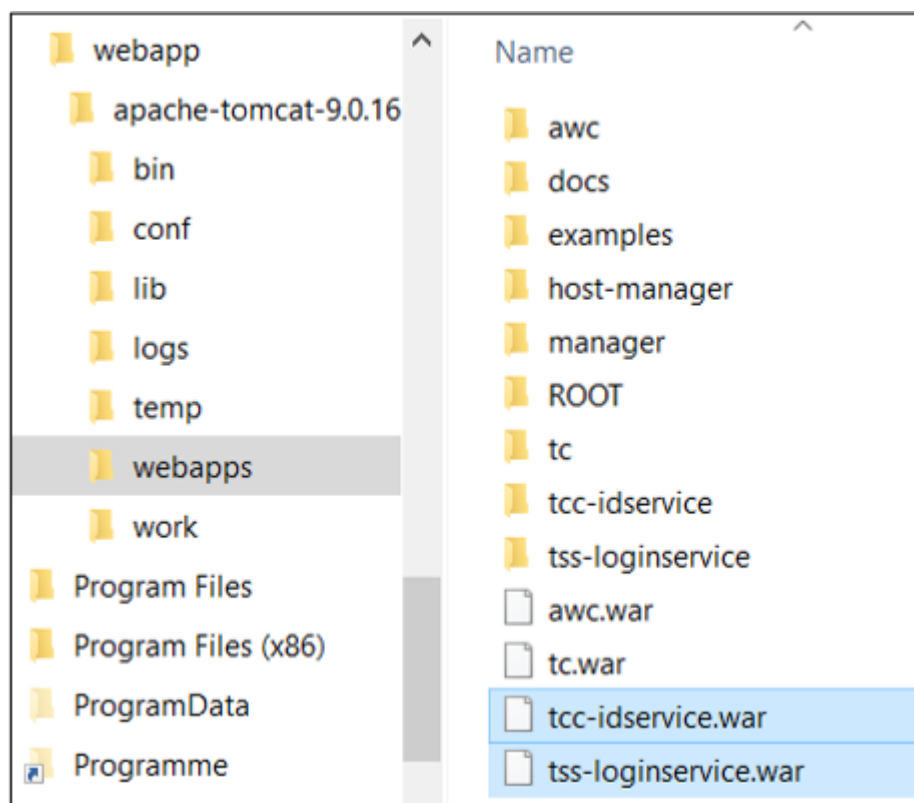
OK

## 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:

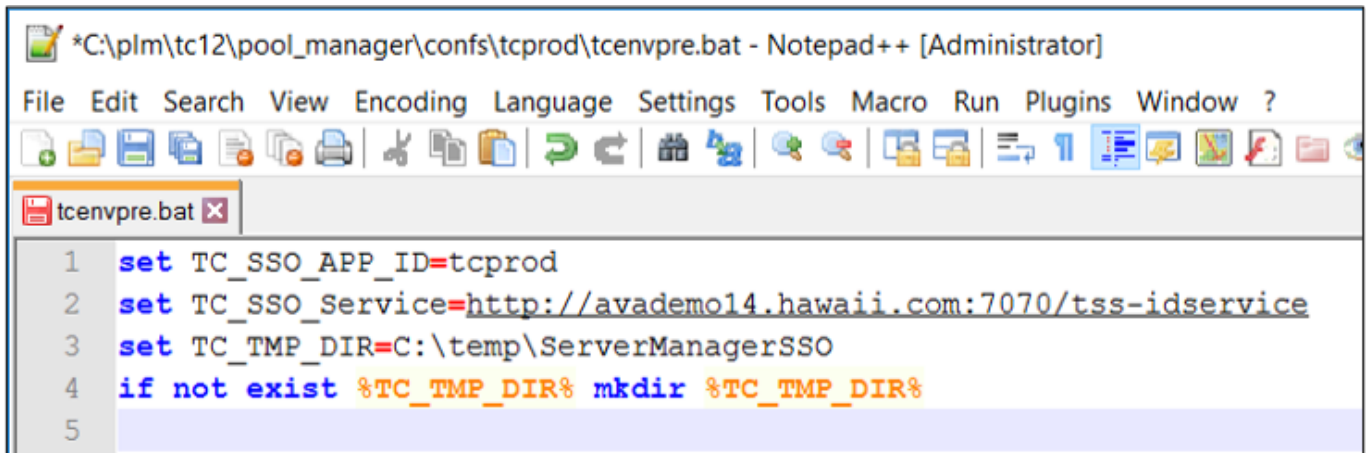
#### tcenvpre.bat

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%

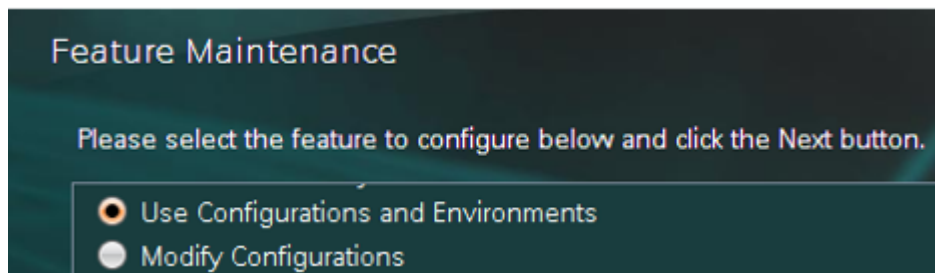
```



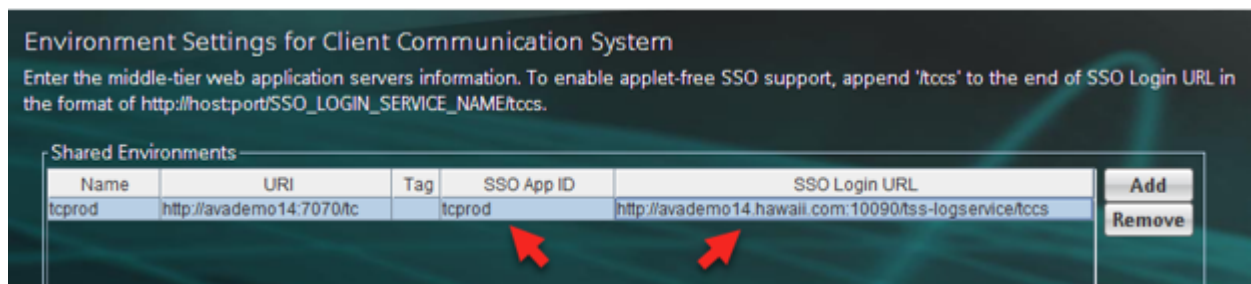
## 12. TCServer Manager changes

### 12.1 4-tier Client installation auf tccs umstellen

Feature Maintenance



Environment Settings for Client Communication System

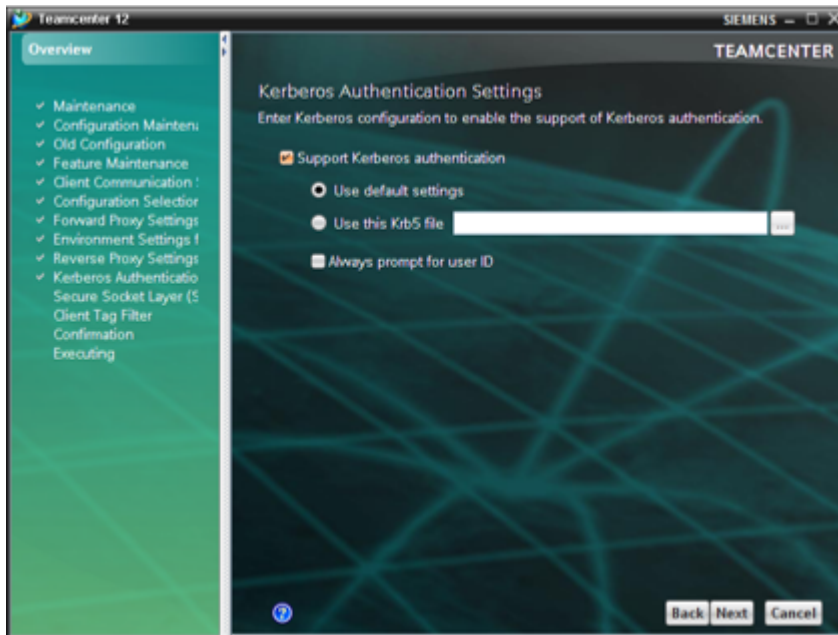


Anpassen:

|                       |                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Name:</b>          | tcprod                                                                                                                        |
| <b>URI:</b>           | <a href="http://avademo14:7070/tc">http://avademo14:7070/tc</a>                                                               |
| <b>Tag:</b>           |                                                                                                                               |
| <b>SSO App ID:</b>    | tcprod                                                                                                                        |
| <b>SSO Login URL:</b> | <a href="http://avademo14.hawaii.com:10090/tss-loginservice/tccs">http://avademo14.hawaii.com:10090/tss-loginservice/tccs</a> |

Kerberos Authentication Settings

- ☒ Support Kerberos authentication
  - ☒ Use default settings



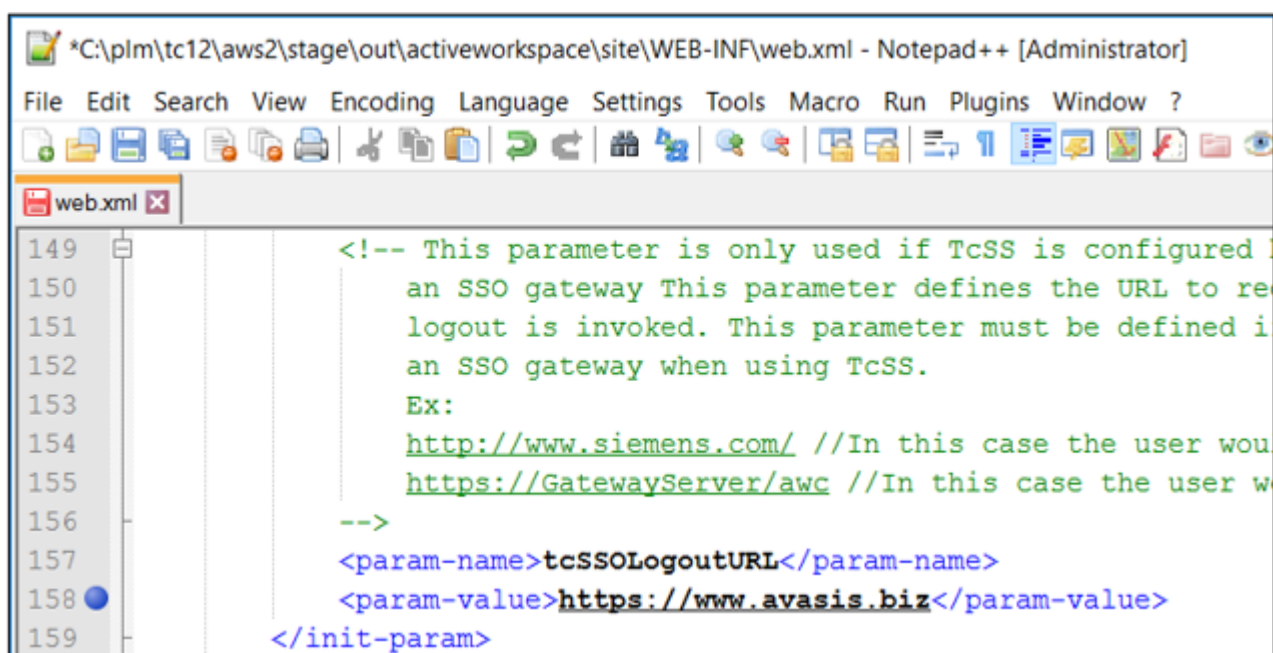
## 12.2 Richclient 4-tier

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



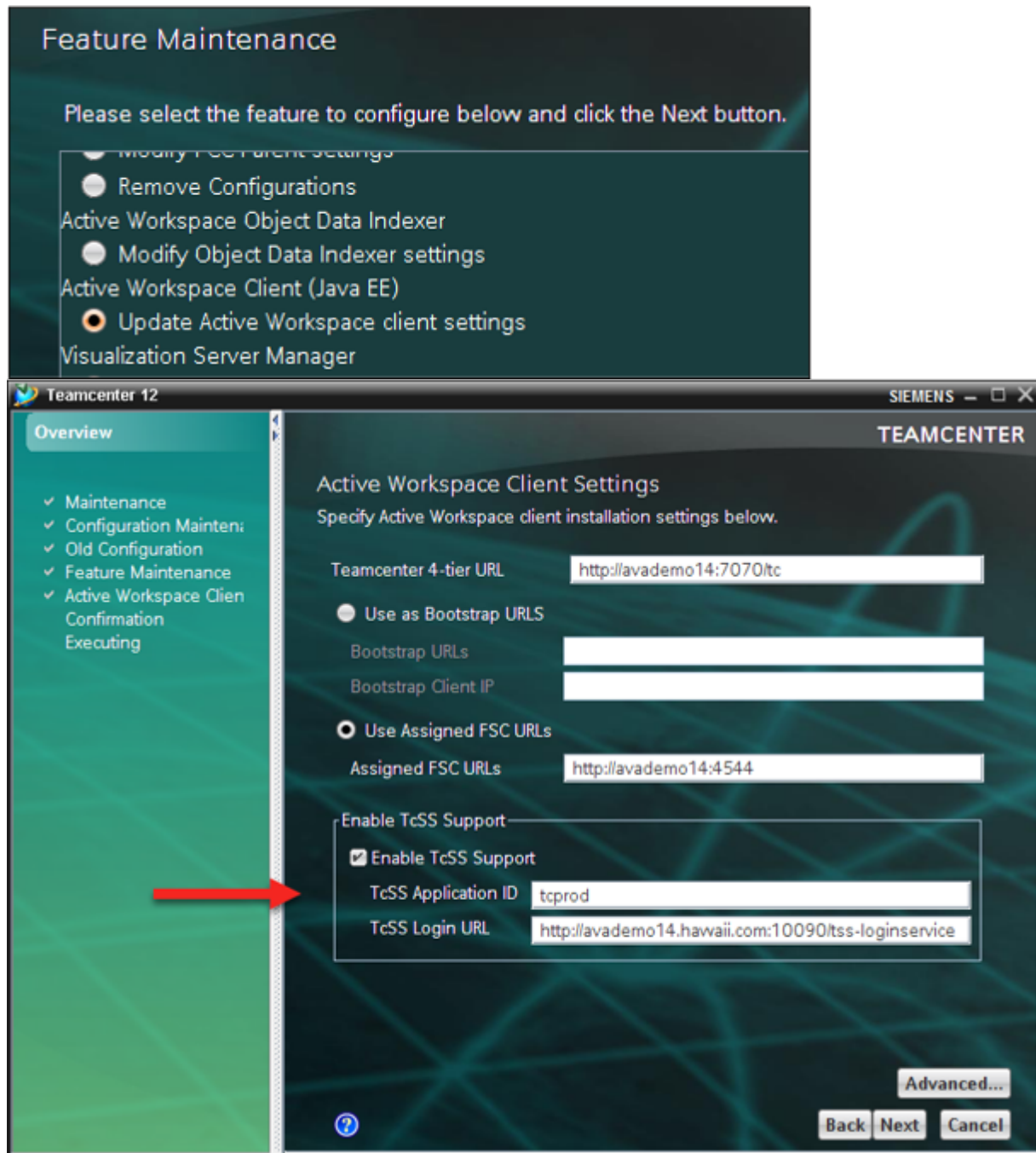
2. In C:\plm\tc12\aws2\stage\components\activeworkspace\repo\kit\tc-aw-

solution\src\_j2ee\WEB-INF\web.xml

gleiche Anpassung:

**Das erstere wird beim compilen überschrieben**

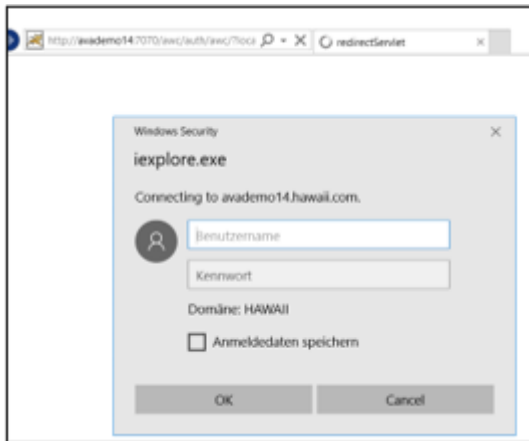
### 3. TEM: Feature Maintenance, Update Active Workspace client settings



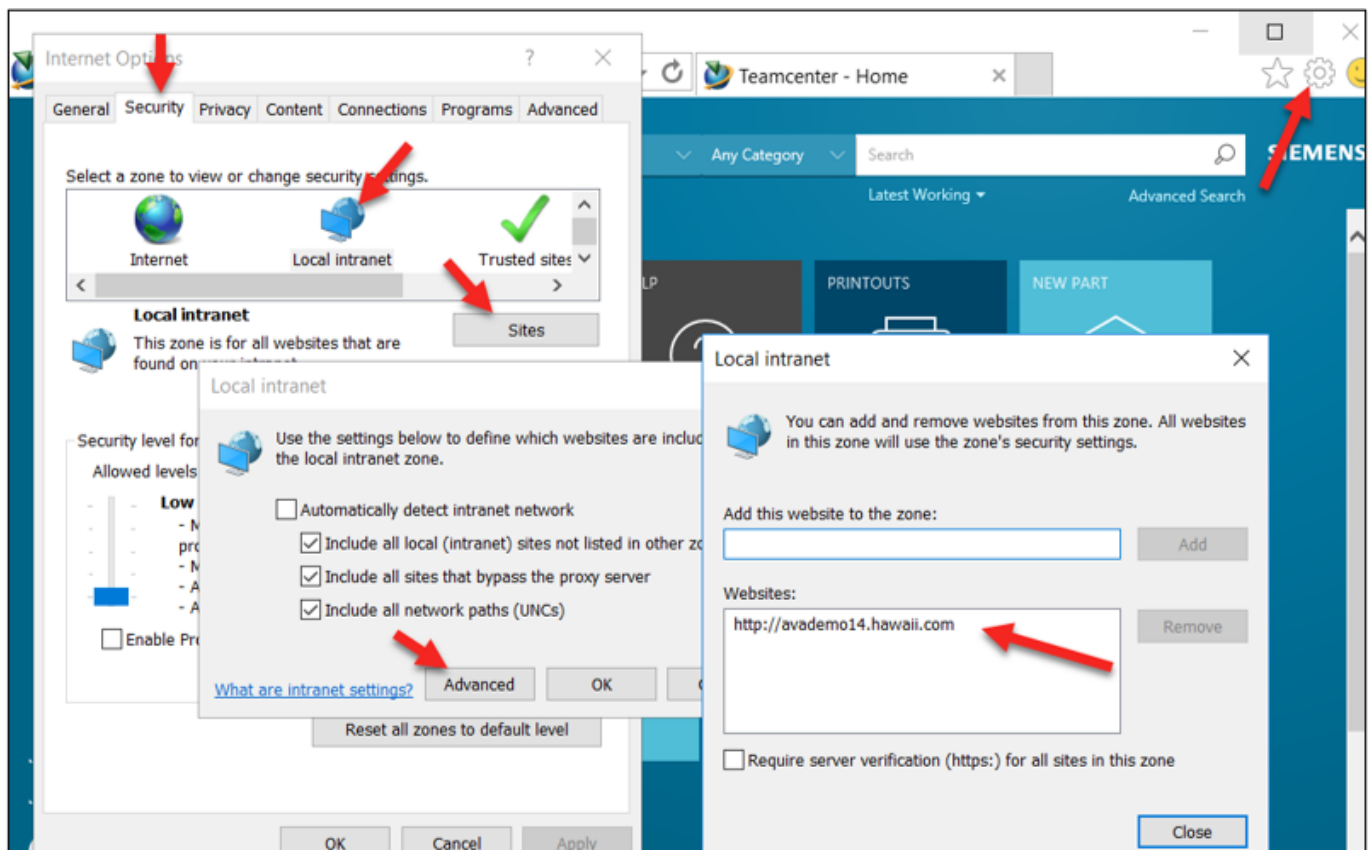
|                                                                |                                                                                                                     |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> <b>Enable TcSS Support</b> |                                                                                                                     |
| <b>Tcss Application ID:</b>                                    | tcprod                                                                                                              |
| <b>TcSS Login URL:</b>                                         | <a href="http://avademo14.hawaii.com:10090/tss-loginservice">http://avademo14.hawaii.com:10090/tss-loginservice</a> |

War-File deployen...

### 4. Fehlermeldung im IE

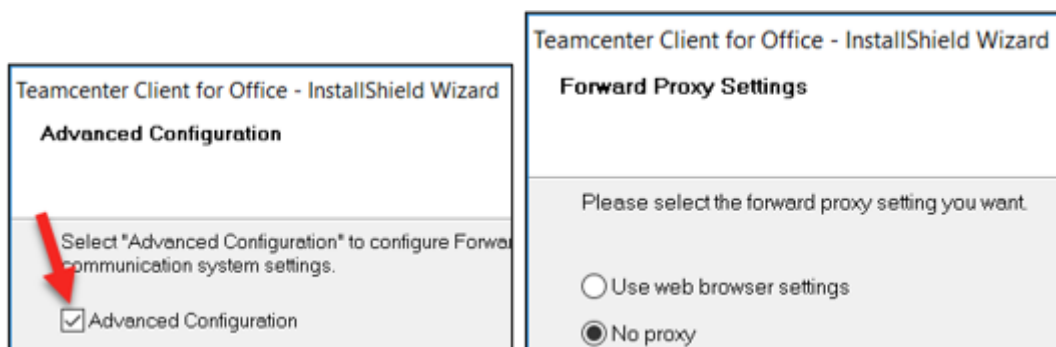


Lösung:



## 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 [Add] [Edit]



Teamcenter Client for Office - InstallShield Wizard

Please enter Tccs environment information.

Name:

URL:

Filter Text:

SSO URL:

SSO App ID:

InstallShield

[Cancel] [OK]

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:  [Browse...]

☒ Accept untrusted certificates

☒ Configure key store

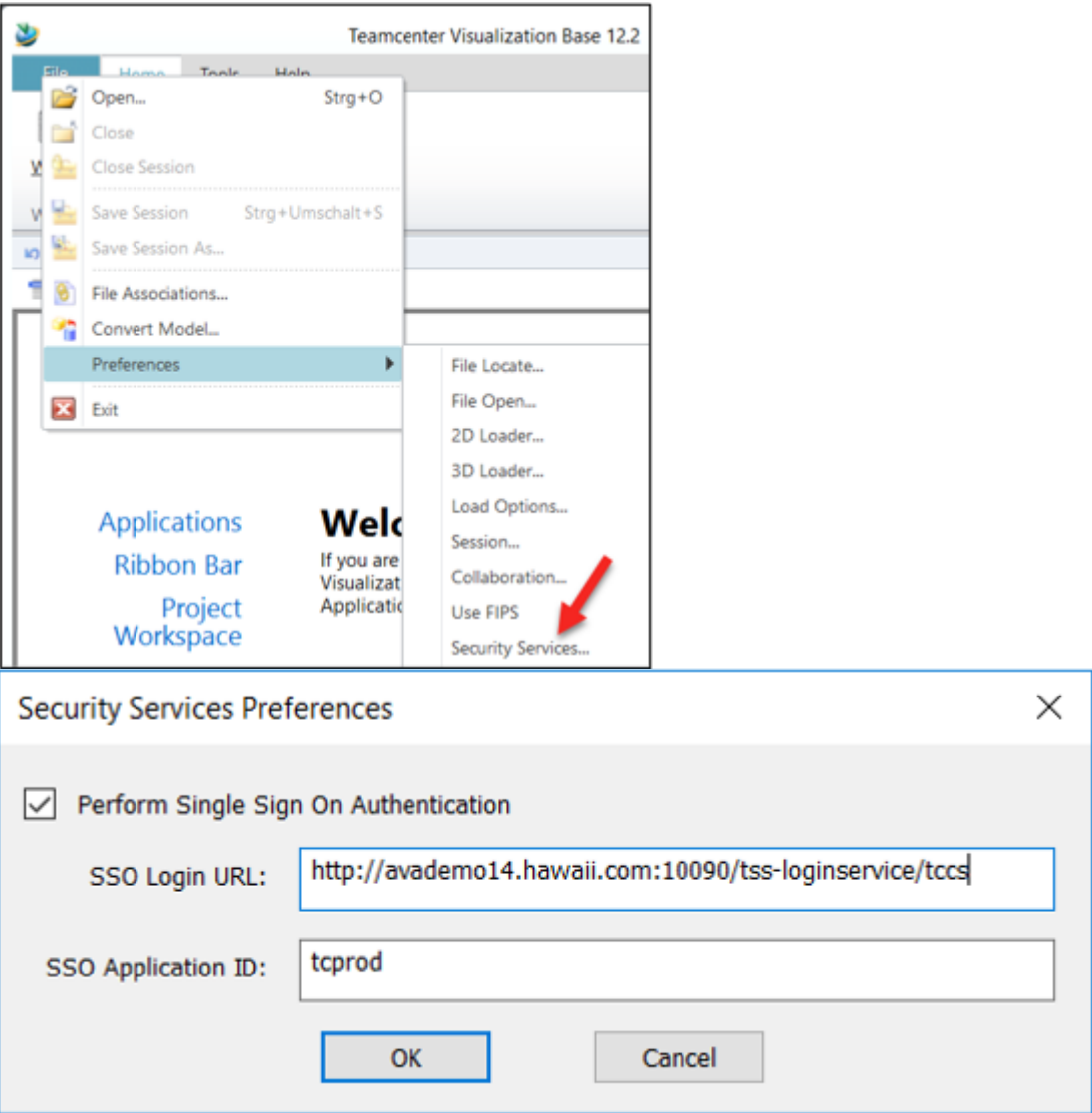
File:  [Browse...]

Type:

InstallShield

[< Back] [Next >] [Cancel]

## 15. Teamcenter Visualization auf SSO umstellen



|                |                                                                                                                               |
|----------------|-------------------------------------------------------------------------------------------------------------------------------|
| SSO App ID:    | tcprod                                                                                                                        |
| SSO Login URL: | <a href="http://avademo14.hawaii.com:10090/tss-loginservice/tccs">http://avademo14.hawaii.com:10090/tss-loginservice/tccs</a> |

## 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:

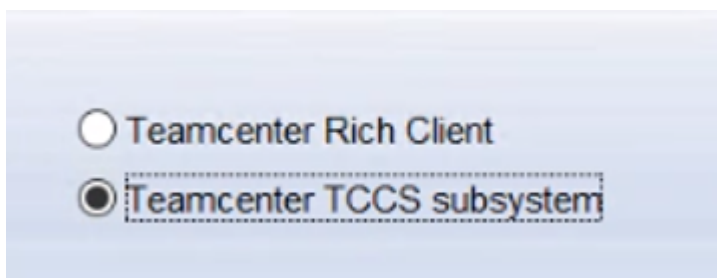
Anmeldungsdienst-URL:

☒ Aktivieren

☐ Standarddatenbank

|                       |                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>SSO App ID:</b>    | tcprod                                                                                                                        |
| <b>SSO Login URL:</b> | <a href="http://avademo14.hawaii.com:10090/tss-loginservice/tccs">http://avademo14.hawaii.com:10090/tss-loginservice/tccs</a> |

## 17. Solid Works Integration auf SSO umstellen



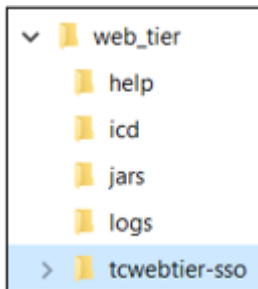
|                       |                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>SSO App ID:</b>    | tcprod                                                                                                                        |
| <b>SSO Login URL:</b> | <a href="http://avademo14.hawaii.com:10090/tss-loginservice/tccs">http://avademo14.hawaii.com:10090/tss-loginservice/tccs</a> |

## 18. Zweiter Strang NOSSO

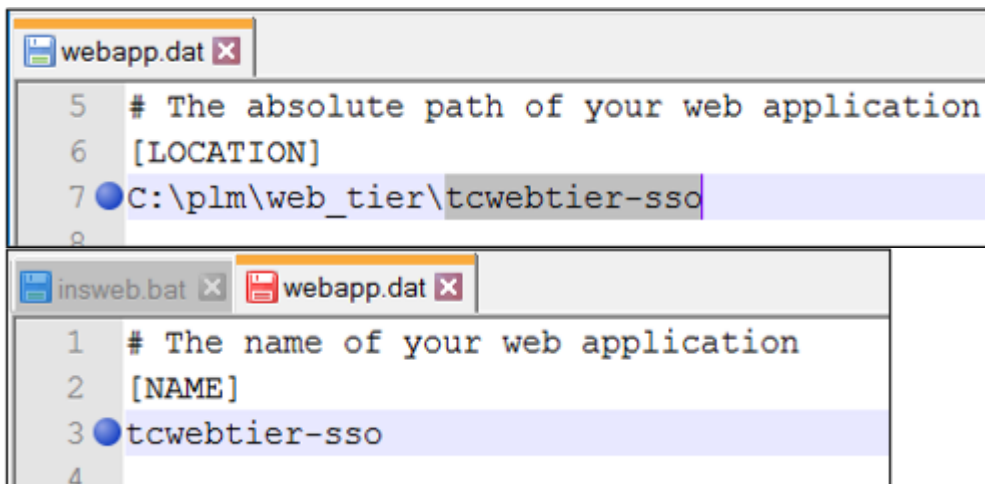
- Nur für administrative Zwecke und **nicht für Testing**
- Benutzer infodba und dcproxy (müssen so nicht in Domain erfasst werden)
- Hintergrunddienste die nicht über SSO laufen dürfen
- Kein AWC (nur SSO)

## 18.1 Web\_tier, TcWebTier für SSO umbenennen

Ordner C:\plm\web\_tier\TcWebTier in C:\plm\web\_tier\tcwebtier-ss0 umbenennen



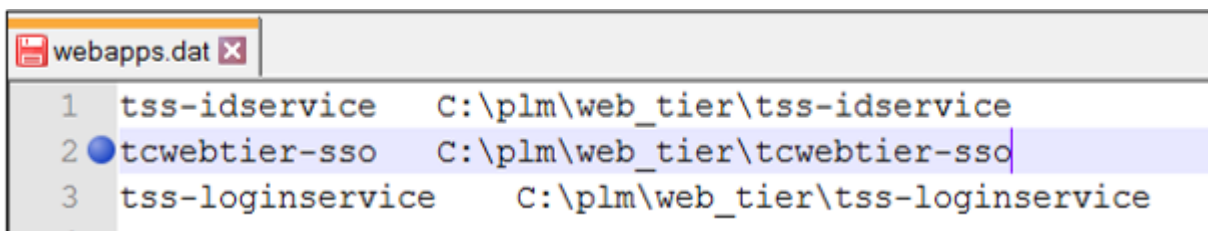
In „C:\plm\web\_tier\tcwebtier-ss0\webapp.dat“



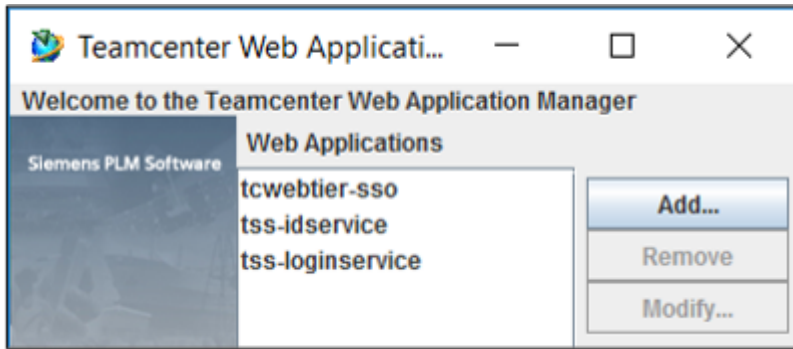
In „C:\plm\web\_tier\tcwebtier-ss0\webapp\_root\WEB-INF\web.xml“



In „C:\plm\web\_tier\webapps.dat“

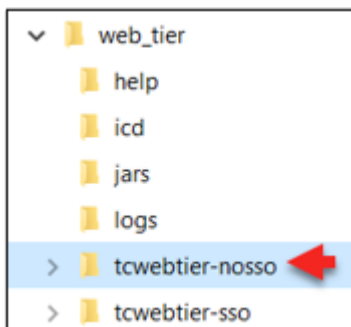


Insweb starten und prüfen.

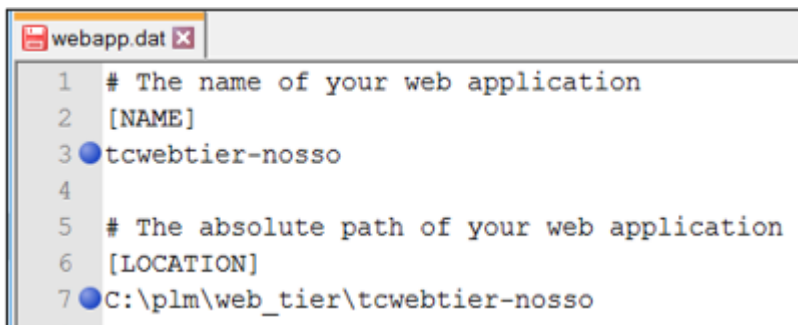


## 18.2 tcwebtier\_NOSSO

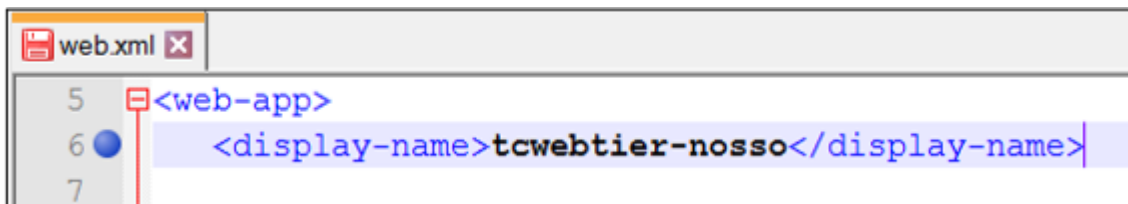
C:\plm\web\_tier\tcwebtier-sso nach C:\plm\web\_tier\tcwebtier-nosso kopieren



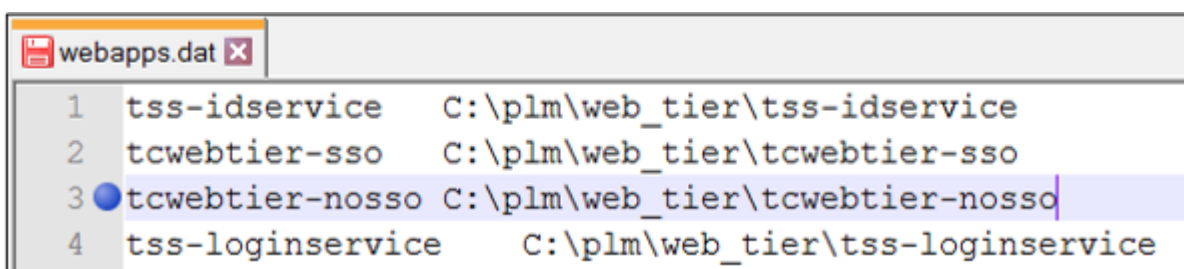
In „C:\plm\web\_tier\tcwebtier-nosso\webapp.dat«



In „C:\plm\web\_tier\tcwebtier-nosso\webapp\_root\WEB-INF\web.xml“



In „C:\plm\web\_tier\webapps.dat“

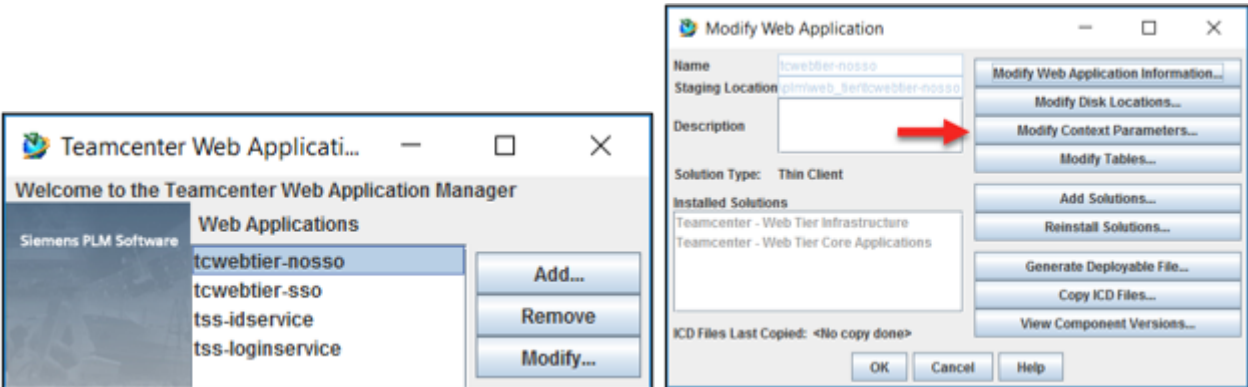


Insweb starten und prüfen.

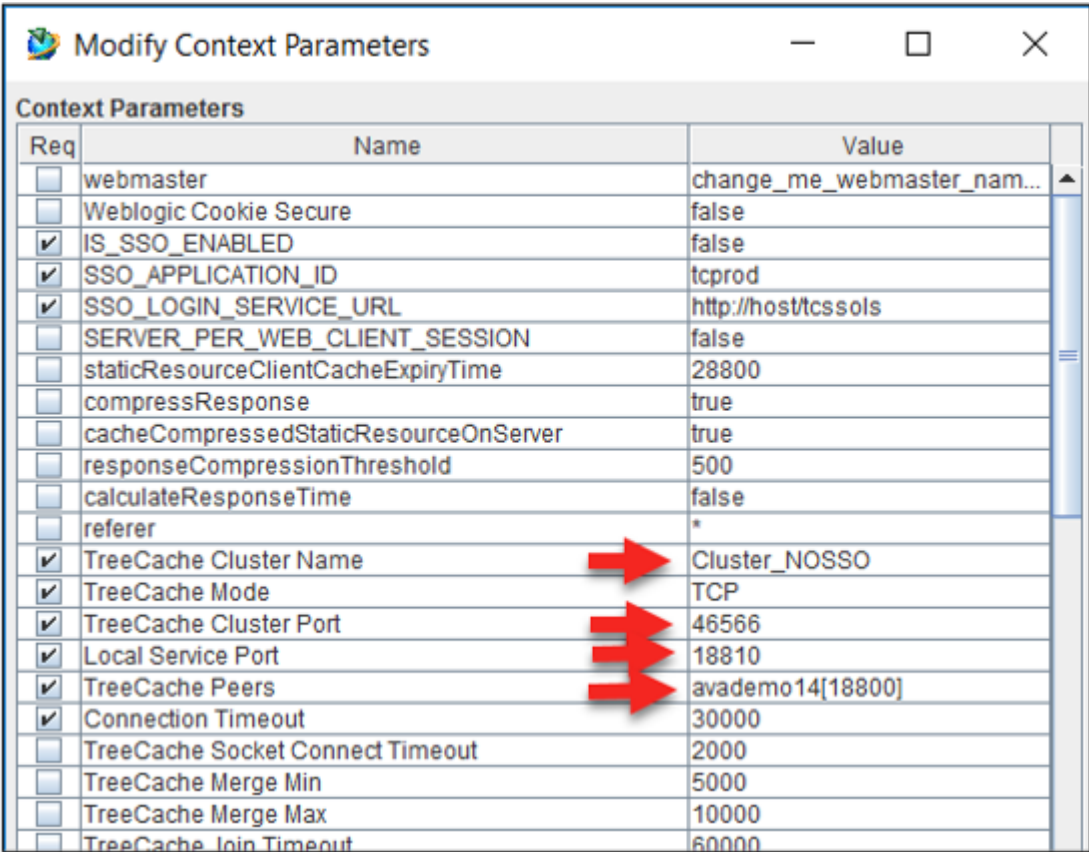


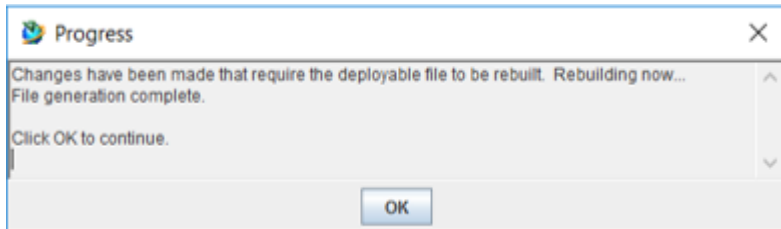
18.3 tcwebtier\_NOSSO anpassen

C:\plm\web\_tier\insweb.bat

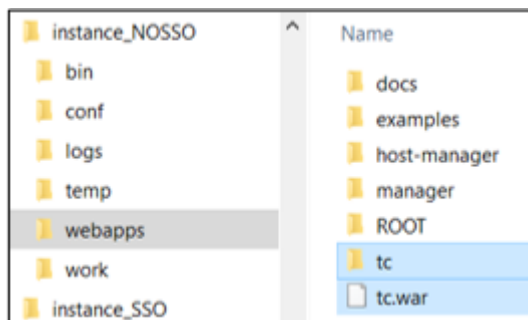
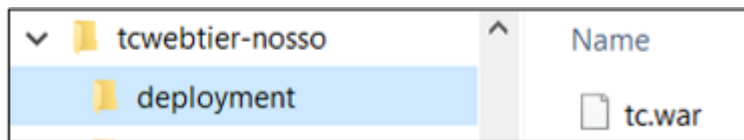


Ports jeweils an zweiter Stelle um einen Zähler erhöhen:





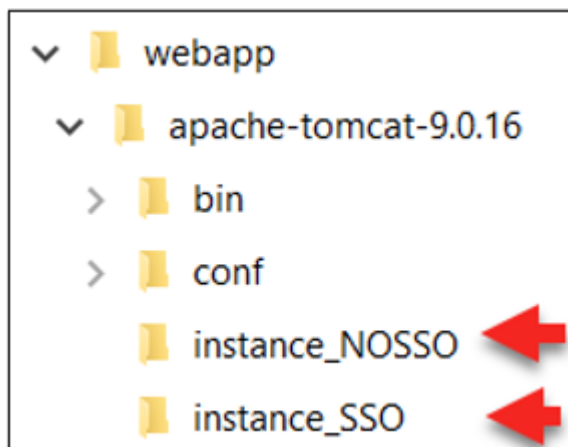
War-File nach instance\_NOSSO deployen



## 19. Tomcat: mehrere Instanzen erstellen

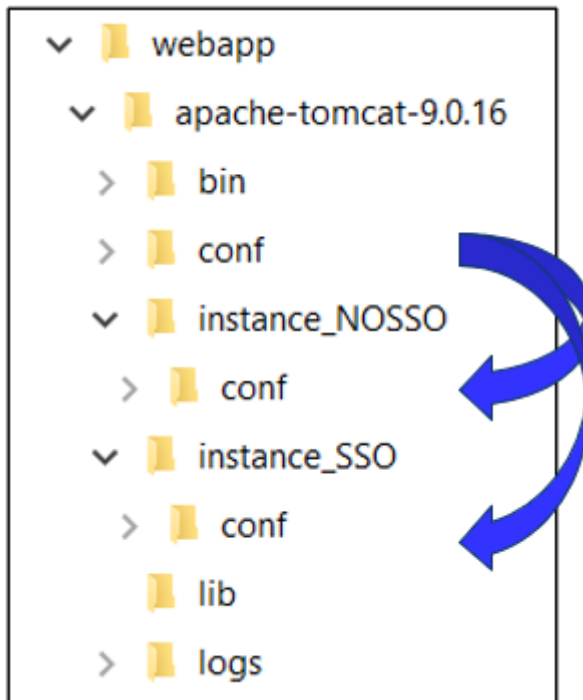
### 19.1 Create 2 new different folders in different locations

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

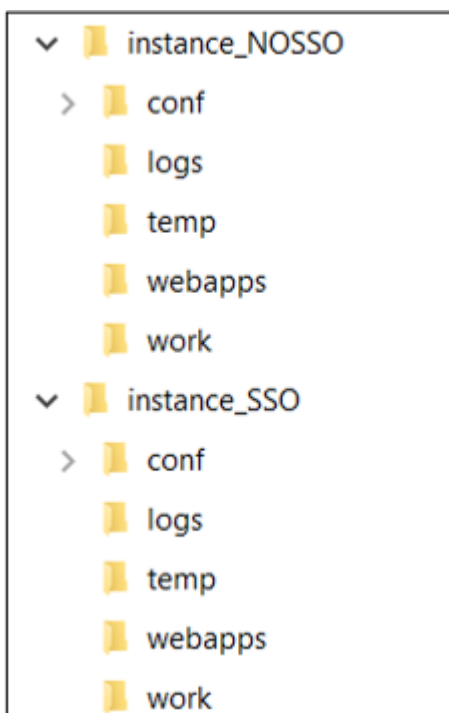


### 19.2 Copy the 'conf' folder into instances folder from server folder

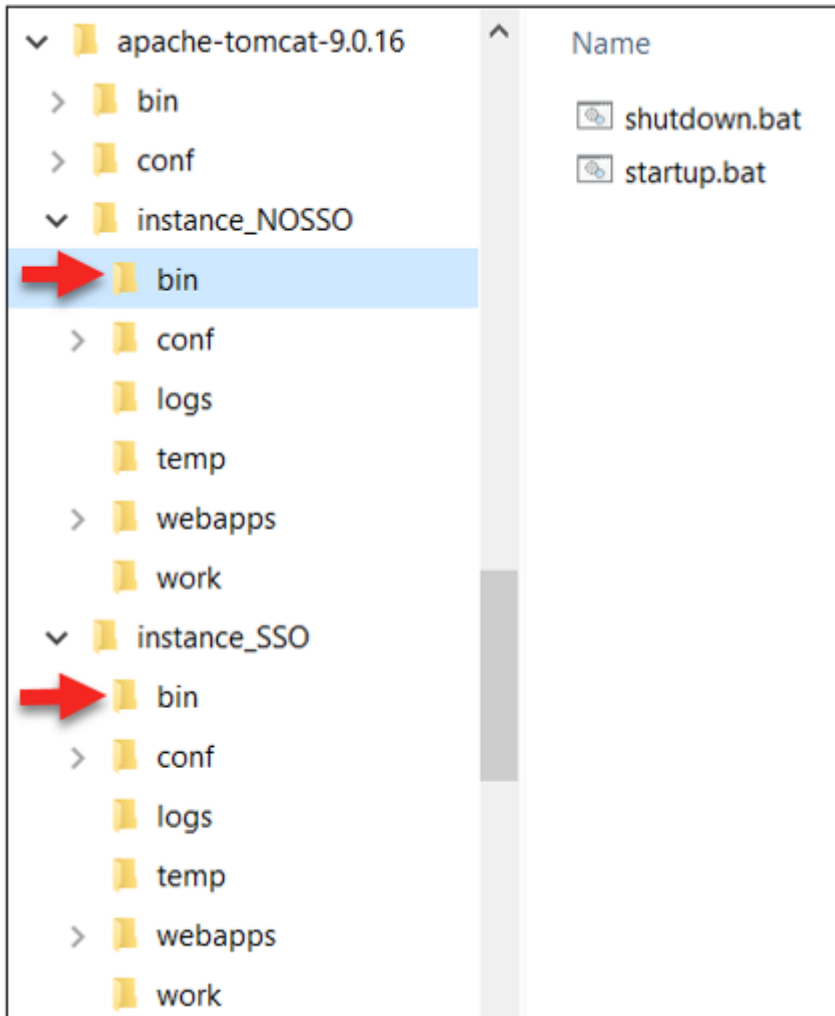
This step is necessary to have different configuration for each instance. Any instance specific configuration related changes should be done in related instance folder only.



### 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
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
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

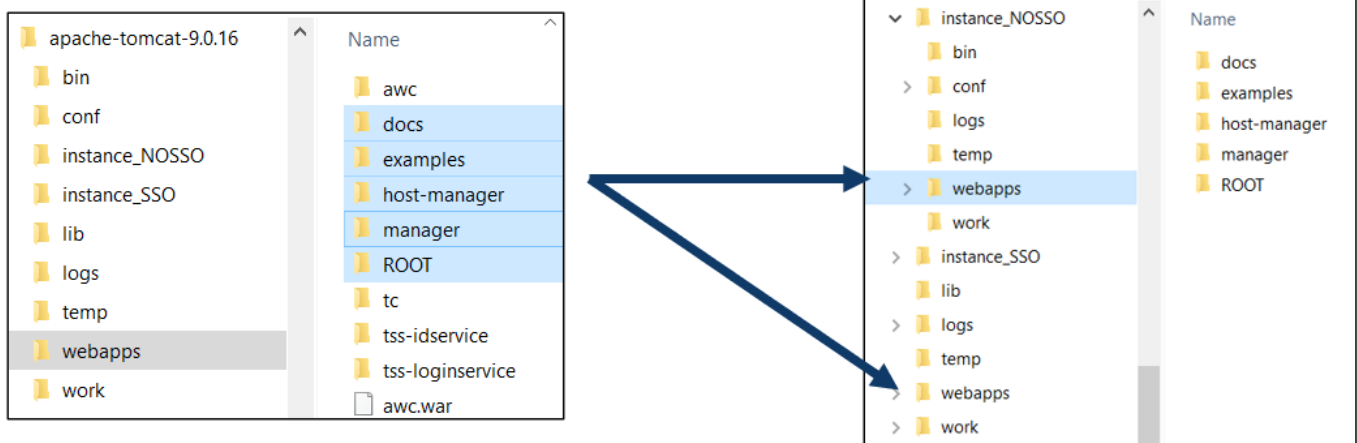
```

```

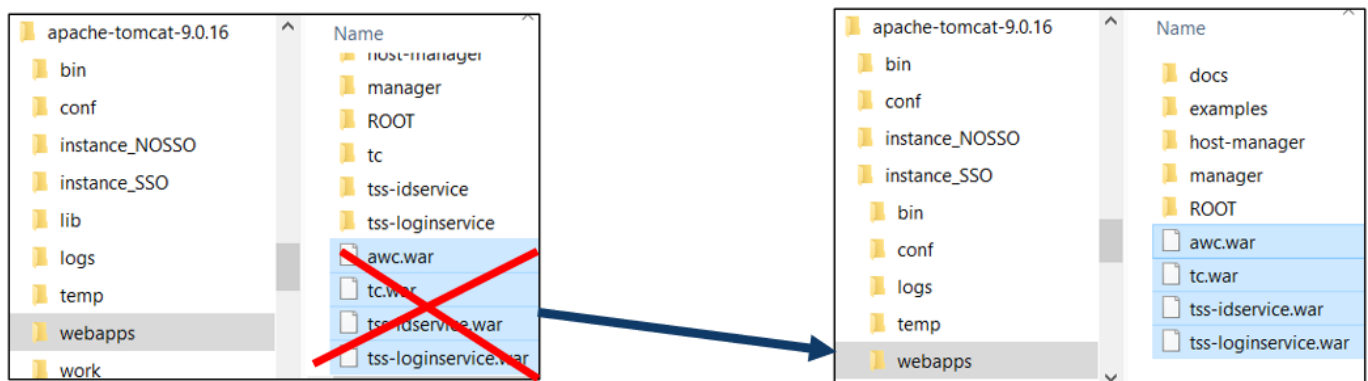
set CATALINA_HOME=C:\plm\webapp\apache-tomcat-9.0.16
set CATALINA_BASE=C:\plm\webapp\apache-tomcat-9.0.16\instance_NOSSO
%CATALINA_HOME%\bin\shutdown.bat

```

## 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"
```

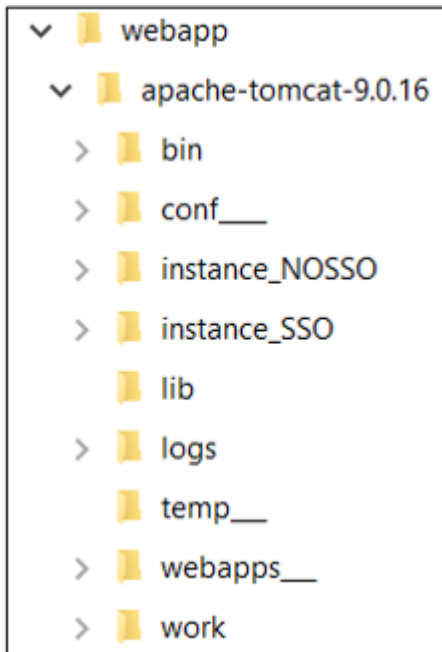
```
tomcatAuthentication="false"/>
```

## 19.8 Tomcat: Dienste anpassen

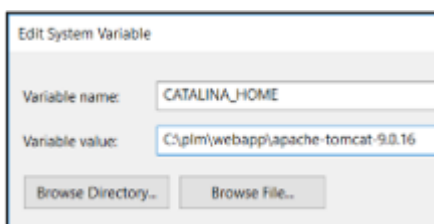
Bestehenden Tomcatdienst stoppen und deaktivieren

| 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

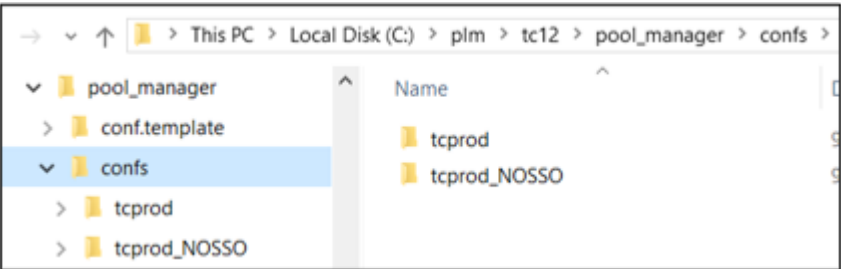
C:\plm\webapp\apache-tomcat-9.0.16\bin>cd C:\plm\webapp\apache-tomcat-9.0.16\bin

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%

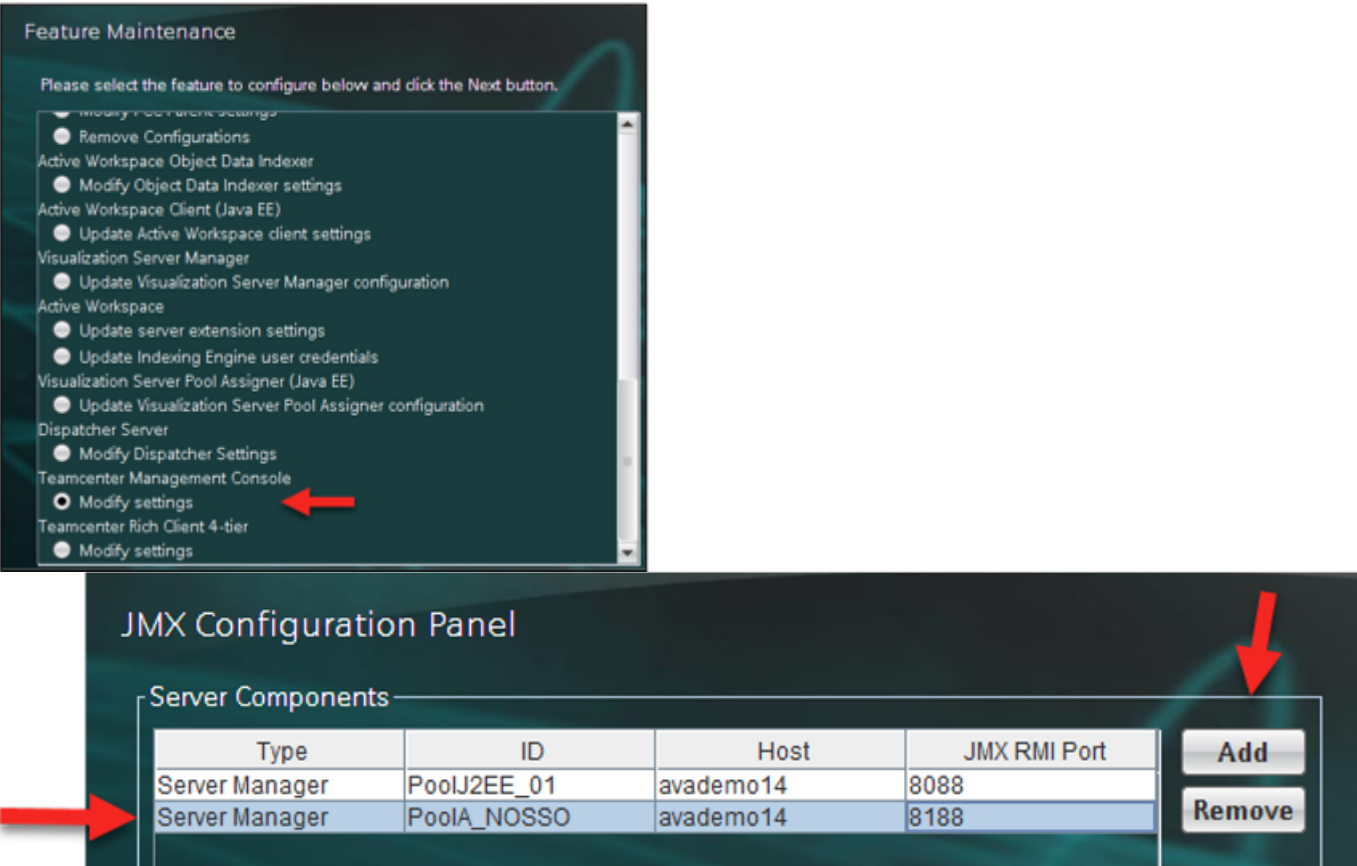
```

Anpassungen unter tcprod\_NOSSO:

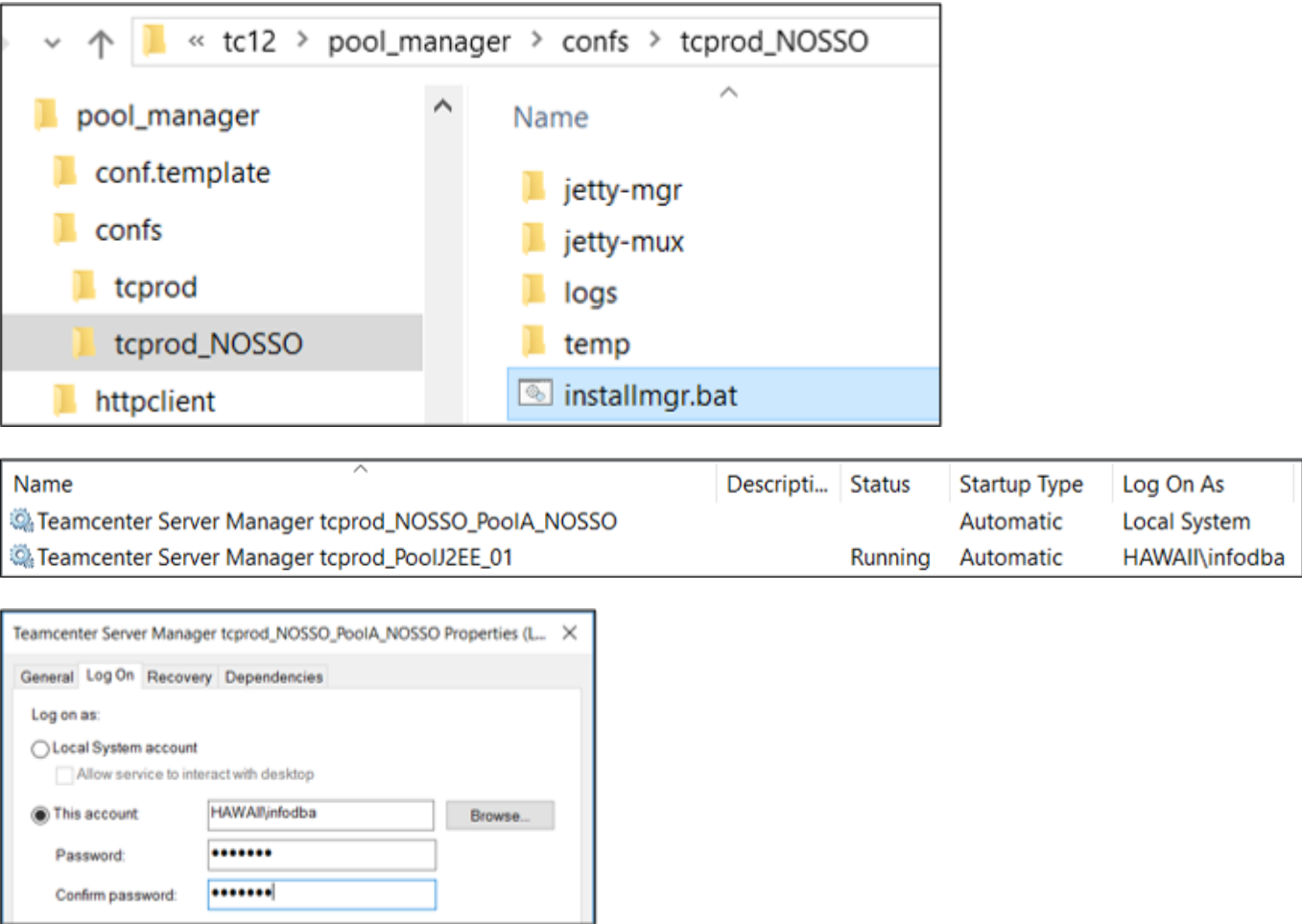
| Server Pool               |                                 | tcprod (SSO)                    | tcprod_NOSSO                    |
|---------------------------|---------------------------------|---------------------------------|---------------------------------|
| File                      | Setting                         | 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                            |
| <b>Ab 12.3</b>            |                                 |                                 |                                 |
| serverPool.properties     | MANAGER_CLUSTER_ID              | Cluster                         | Cluster_NOSSO                   |
| tcenv.bat                 | MGR_CFG                         | tcprod                          | tcprod_NOSSO                    |
| <del>tecsstart.bat</del>  | <del>title</del>                | <del>Pool-TECS</del>            | <del>Pool_NOSSO-TECS</del>      |
| 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 |
| <b>Pre Version 12.3</b>   |                                 |                                 |                                 |
| 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

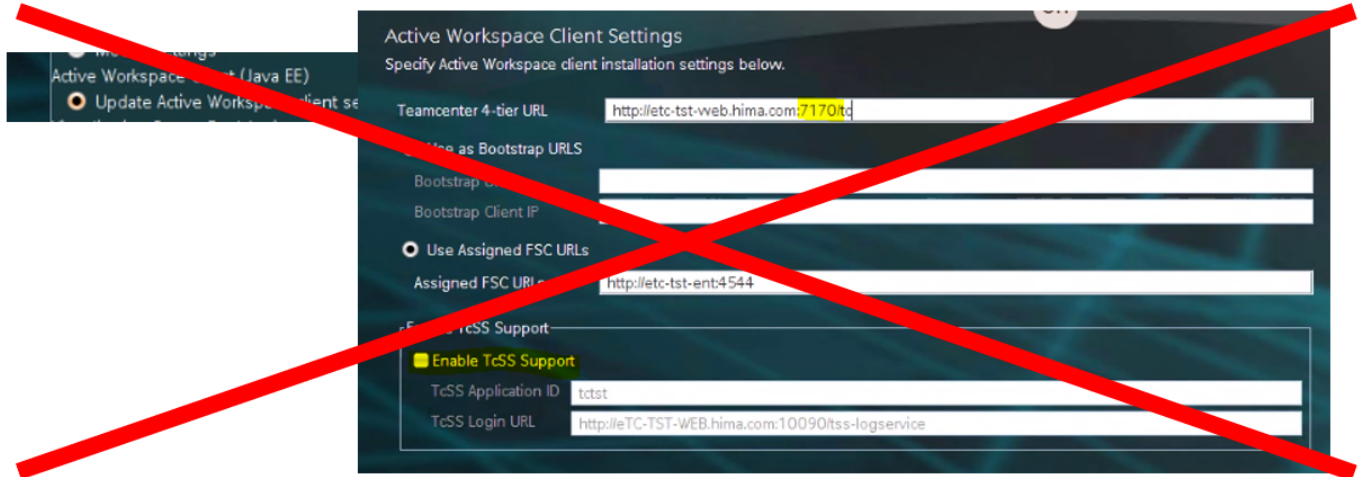


Create 2nd NOSSO Active Workspace Client

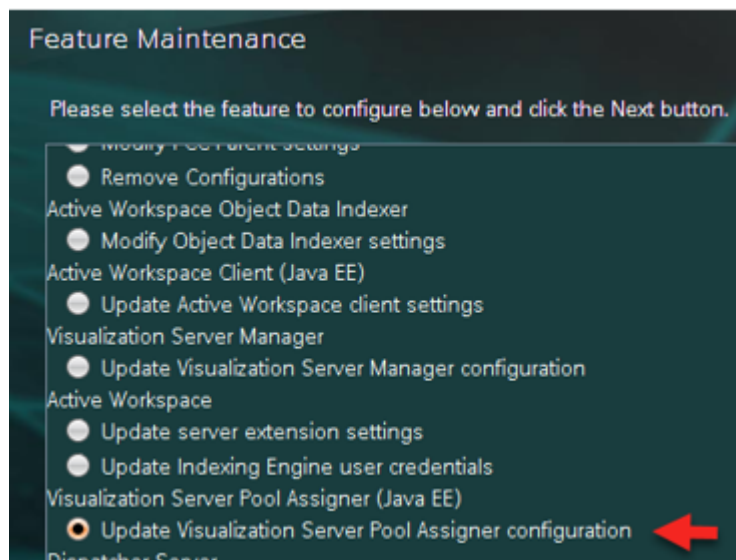
Nicht machen da zwei WAR files  
Handling nicht zumutbar!

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

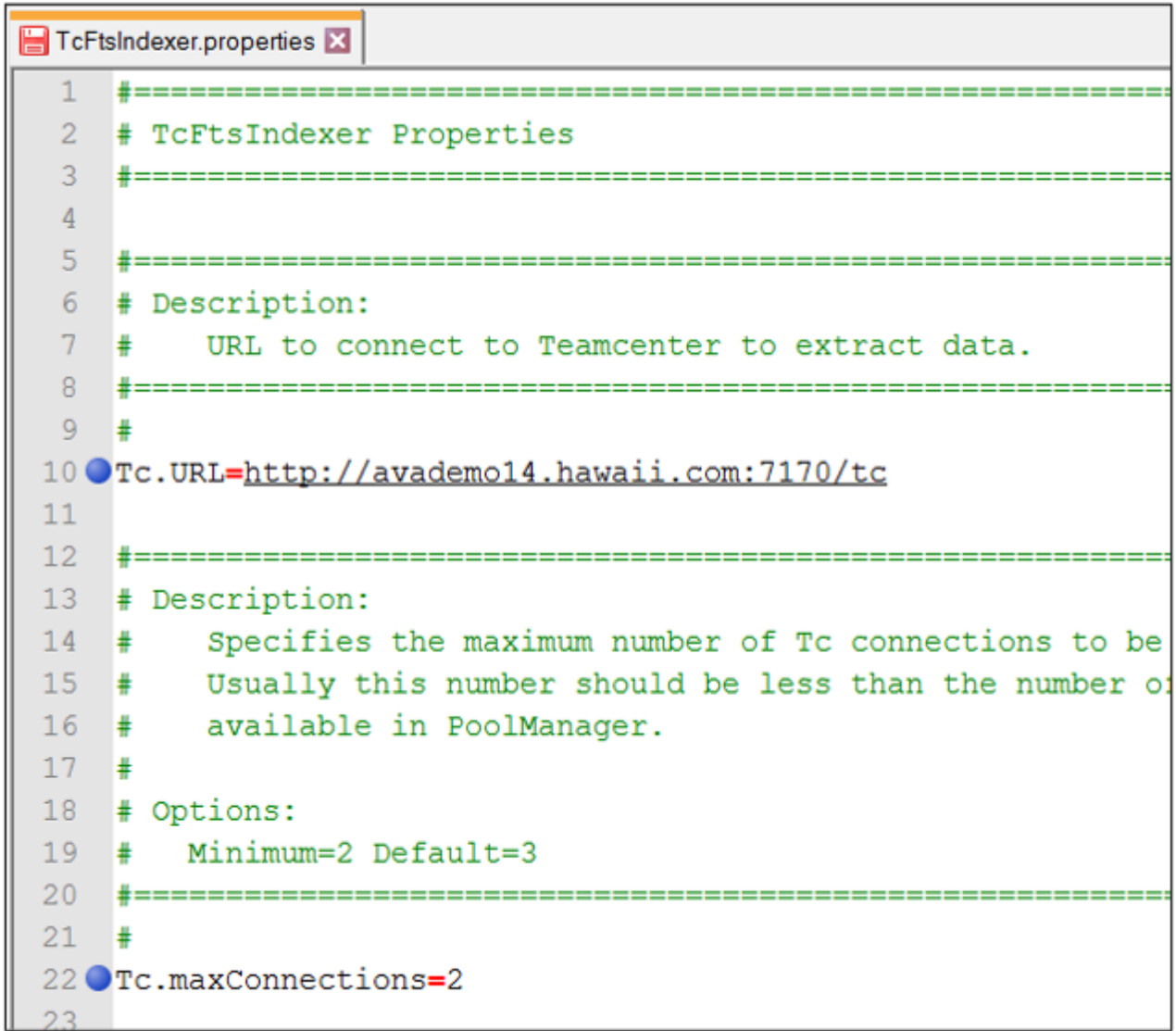
| Assigner Host | Assigner Port |
|---------------|---------------|
|               | 55566         |

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“

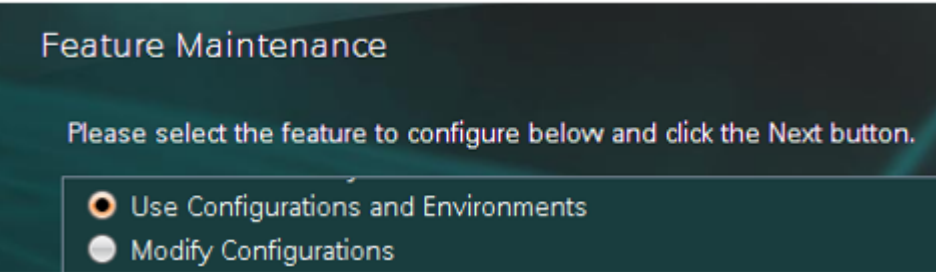
```
C:\pim\dispatcher\DispatcherClient\conf\Service.properties - Notepad++ [Administrator]
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

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 tcctl 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:           | <a href="http://avadem014:7170/tc">http://avadem014:7170/tc</a> |
| 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 | <input type="button" value="Add"/>    |
| tcprod_NOSSO | http://avademol4:7170/tc |     |          |                                                         | <input type="button" value="Remove"/> |

## Kerberos Authentication Settings

- ☒ Support Kerberos authentication
  - ☐ Use default settings

Environment:

**Teamcenter 12** SIEMENS

**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