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Handbuch Tc 12 Security Services

Teamcenter 12.0

Security Services Installation/Customization

TSS00001 • 12.0

Oktober 2020 Patrick Granwehr Christoph Bühler



Achtung:

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

- 📜 security_admin.pdf
- 🔁 security_services_install.pdf
- 📜 security_services_install_customization.pdf
- 🔁 security_services_release_bulletin.pdf
- 📜 security_services_release_notes.pdf

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)

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2.4 Forward Proxy Settings





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

Er Fr	Environment Settings for Client Communication System Enter the middle-tier web application servers information. To enable applet-free SSO support, append 'itccs' to the end of SSO Login URL in the format of http://hostport/SSO_LOGIN_SERVICE_NAMEItccs.						
	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-logsen/ice/tccs	Add	

2.6 Reverse Proxy Settings





妙 Teamcenter 12		siemens – 🗆 🗙
Overview		TEAMCENTER
 Maintenance Configuration Maintens Old Configuration Feature Maintenance Cient Communication : Configuration Selection Forward Proxy Settings Environment Settings 1 Reverse Proxy Settings Ketheros Authenticatio Secure Socket Layer (S Client Tag Filter Confirmation Encuting 	Reverse Proxy Settings The reverse proxy criteria provided here are used to detect a loging from a reverse proxy server through which Teamcenter services a criterion can specify one or more HTTP response header namelya optional value for form action. If an HTTP response head HTML complete the of the standard criteria does not correctly detect a particular reverse proxy. Siemens recommends consulting with administrator to determine HTTP headers and form actions that drive pages sent by the reverse proxy. *Shared Reverse Proxy Settings criteria & (serverswebseat/lpkmslogin.form) Criteria Details HTTP Header Name Erver webseal Form Action iptimslogin.form Action iptimslogin.form	in web page coming are accessed. Each shue pairs and an tent and satisfies at ecurity Services is t login challenges from the reverse proxy haracterize login web Add Remove Add move hpply: Back Next Cancel

2.6 Kerberos Authentication Settings

Next...



2.7 Secure Socket Layer (SSL) Settings

• O 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\

ightarrow 🔶 🔸 tccs > Teamcenter	> envs > 20200923094302
✓	^ Name
🗸 📙 cfg	envname.dat
✓	ssologin.xml
🗸 📜 Teamcenter	tcserver.xml
🗸 📜 envs	
20200923094302	

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

Server Manager • Dashboard	• 🕲 🚩 Manage	
Quick STARE	ifigure this local server dd roles and features	
🛼 Add Roles and Features Wizard		- 0 ×
Select server roles		DESTINATION SERVER avademo14
Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	Select one or more roles to install on the selected server. Roles Active Directory-Rechteverwaltungsdienste Active Directory-Verbunddienste Active Directory-Zertifikatdienste Datei-/Speicherdienste (2 of 12 installed) Device Health Attestation DHCP-Server Druck- und Dokumentdienste Faxserver Host Guardian-Dienst Hyper-V MultiPoint Services Netzwerkrichtlinien- und Zugriffsdienste Remotezugriff Volumenaktivierungsdienste Netwerkrichtlinien- und Zugriffsdienste Remotezugriff Volumenaktivierungsdienste Mindows Server Essentials-Umgebung Windows Server Update Services (WSUS) Windows-Bereitstellungsdienste Vindows-Bereitstellungsdienste	Description Active Directory Lightweight Directory Services (AD LDS) stellt für verzeichnisfähige Anwendungen, die nicht die Infrastruktur der Active Directory-Domänendienste benötigen, einen Speicher für anwendungsspezifische Daten bereit. Auf einem einzelnen Server können mehrere AD LDS-Instanzen mit jeweils eigenem Schema vorhanden sein.
	< Previous Next	> Install Cancel

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

ightarrow 🔺 👗 > This PC > L	Local Disk (C:) > plm > SSO > conf
🗸 📜 SSO	^ Name
📕 bin	uriworkermap.properties
🦲 conf	v web.config
📕 log	workers.properties
> 📜 tc12	workers2.properties.sample

2. Pfade prüfen in: "C:\plm\SSO\bin\isapi_redirect.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=avademo14.hawaii.com
17 worker.ajp13w.port=8009
18 worker.ajp13w.max_packet_size=65536
10
```

5. Modify Tomcat server.xml

```
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```

🔚 server.	Ixml 🔀	
114		^
115	Define an AJP 1.3 Connector on port 8009	
116 🔵	<Connector port="8009" protocol="AJP/1.3" redirectPort="8443" / >	
117 🔵	<pre><connector maxt<="" port="8009" pre="" protocol="AJP/1.3" redirectport="8443" secretrequired=""></connector></pre>	h
118		

tomcatAuthentication="false"/>

6. IIS konfigurieren

1. Configuration Editor

Internet Information Services (IIS)) Manager	– 🗆 ×
← → ¶ + AVADEMO14 +		🔤 🖂 🔂 🔞 •
File View Help		
Connections	Configuration Editor Section: system.webServer/webSocket Deepest Path: enabled True pingInterval 00:00:00 receiveBufferLimit 2147483647 FecciveBufferLimit Data Type:uint Value Range: Minimum:4,096 - Maximum:2,147,483,647 Features View Content View	Actions Apply Cancel Generate Script Configuration Search Configuration Section Unlock Section Help
Configuration: ApplicationHost.config	9	¶.:

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2. Website hinzufügen



Add Website		? ×
Site name tcsso	Application pool: tcsso Select.	
Content Directory Physical path: C:\inetpub\wwwroot Pass-through authent Connect as	ication Test Settings	
Binding Type: http ~ Host name:	IP address: Port: All Unassigned ~ 10090	
Example: www.conto	so.com or marketing.contoso.com	
✓ Start Website immed	liately OK	Cancel

3. Remove NTLM

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RMB Windows Authentication, Providers

roviders	?	×	Providers	?
Enabled Providers:			Enabled Providers:	
Negotiate	Move U	qL	Negotiate	Move U
k	Move Do	own		Move Do
· →	Remov	ve -		Remov
Select a provider from the list of available provi to add it to the enabled providers.	ders and click	: Add	Select a provider from the list of ava to add it to the enabled providers.	ilable providers and click
Available Providers:			Available Providers:	
	✓ Add			♥ Add

4. Virtuelle Verzeichnis hinzufügen



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Add Virtual Directory	?	Х
Site name: tcsso		
Path: /		
Alias:		
jakarta		
Example: images		
Physical path:		
C:\pIm\SSO\bin		
Pass-through authentication		
Connect as Test Settings		
OK	Cancel	



5. ISAPI and CGI Restrictions





ISAPI and CGI Restrictions

Use this feature to specify the ISAPI and CGI extensions that can run on the Web server.

Group by: No Grouping -					
Description	Restriction	Path			
Active Server Pages	Allowed	%windir%\system32\inetsrv\asp.dll			
ASP.NET v2.0.50727	Allowed	%windir%\Microsoft.NET\Framework64\v2.0.50727\aspn			
ASP.NET v2.0.50727	Allowed	%windir%\Microsoft.NET\Framework\v2.0.50727\aspnet			
ASP.NET v4.0.30319	Allowed	%windir%\Microsoft.NET\Framework\v4.0.30319\aspnet			
ASP.NET v4.0.30319	Allowed	%windir%\Microsoft.NET\Framework64\v4.0.30319\aspn			
isapi	Allowed	C:\pIm\SSO\bin\isapi_redirect.dll			

6. ISAPI-Filter

Printed on 2025/07/07 10:44 💐 Internet Information Services (IIS) Manager _ \times

← → ¶ → AVADEMO14 →				🖬 🖂 🔂 🔞 -
File View Help				
Connections	Use this feature to configure Group by: No Grouping	ure ISAPI filters that process requests made to the Web server.		Actions Add View Ordered List Help
Sites Default Web Site tcsso App_Data aspnet_client Agl jakarta	Name ASP.Net_2.0.50727.0 ASP.Net_2.0.50727-64 ASP.Net_4.0_32bit ASP.Net_4.0_64bit	Executable %windir%\Microsoft.NET\Framework\v2.0.50727\asp %windir%\Microsoft.NET\Framework64\v2.0.50727\a %windir%\Microsoft.NET\Framework\v4.0.30319\asp %windir%\Microsoft.NET\Framework64\v4.0.30319\a	Entry Type Local Local Local Local	



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Use this feature to configure ISAPI filters that process requests made to the Web server.				
Group by: No Grouping	•			
Name	Executable	Entry Type		
ASP.Net_2.0.50727.0	%windir%\Microsoft.NET\Framework\v2.0.50727\asp	Local		
ASP.Net_2.0.50727-64	%windir%\Microsoft.NET\Framework64\v2.0.50727\a	Local		
ASP.Net_4.0_32bit	%windir%\Microsoft.NET\Framework\v4.0.30319\asp	Local		
ASP.Net_4.0_64bit	%windir%\Microsoft.NET\Framework64\v4.0.30319\a	Local		
isapi	C:\pIm\SSO\bin\isapi_redirect.dll	Local		



7. Default Web Site deaktivieren

Bleibt auch bei Reboot gestoppt...



IIS testen: http://avademo14:10090/ IIS wird auf Tomcat umgeleitet

🗲 🛞 😹 http://avao	demo14:10090/		t∕9.0.16 ×	- □ × ☆☆◎
Home Documenta	tion Configuration Example at/9.0.16	s Wiki Mailing Lists		Find Help
If	you're seeing this, you've	successfully installed To	mcat. Congratulation	s!
	Recommended Reading:			Server Status
	Security Considerations How-	То		Manager App
	Clustering/Session Replication	n How-To		Host Manager
Developer Quick Sta	art			
Tomcat Setup	Realms & AAA	Examples	Servlet Specif	ications
First Web Application	JDBC Data Sources		Torncat Versio	115

7. Installing Security Services

7.1 SSO Sources vorbereiten

In aktuell installiertem Patch, z.B.

 $...\Tc12.2.0_patch_8_wntx64\wntx64\additional_applications\so\[]TcSecurityServices12.2_20200318.z$ ip

entpacken:



Folgendes ausführen:

 $\label{eq:linear} ...\wntx64\additional_applications\so\TcSecurityServices12.2_xx\TcSecurity\default\INSTALL_SSO.EXE ...\wntx64\additional_applications\so\TcSecurityServices12.2_xx\TcSecurity\de_de\INSTALL_SSO_DE_DE.EXE DE.EXE \\$

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



Java must be installed...

Teamcenter Web-Anwendungs-Manager

• Select: Hinzufügen...

🥸 Teamcenter	Web-Anwendung	_		×
Willkommen bei Te	amcenter Web-Anwend	ungs-N	Manager	
Siemens PLM Software	Web-Anwendungen			
in the state			Hinzufü	gen
all and the			Entfer	nen
			Ände	rn
PARE NA				
SIEMENS			ICDs kop ICDs neu	ieren 1 laden
	Hilfe Beend	en		

2. Add Web Application

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

Zu verwendende Datei: tss-loginservice

	🎐 Add Web Applicatio	n	_		×
🎐 Advanced We — 🗆 🗙	Name	tss-loginservice			
	Staging Location	C:\pIm\web_tier\tss-loginservice		Browse	
Automatically Build Deployable File Deployable File Name tss-loginservice Copy Main ICD Files Locally Session Timeout 1440 Distributable OK Cancel Help	Disk Locations for Install Ima D:plm\software\tc\Tc12.2.0_ D:\plm\software\tc\Tc12.2.0_ Solution Type:	Advanced Web Application Options ges patch_8_wntx64\wntx64\additional_applications\sso\T patch_8_wntx64\wntx64\additional_applications\sso\T	•- /	Add Remove Modify	,
	Selected Solutions				
	Teamcenter - Web Tier Infras	structure .		Solutions	
		OK Carlol Help			
		P			
Disk Locations for Install Images	wntx64\wntx64\additional	applications\sso\TcSecurityServices12.2 20200	318\Tc	Security\de	de
D:\pIm\software\tc\Tc12.2.0_patch_8_	wntx64\wntx64\additional	applications\sso\TcSecurityServices12.2_20200	318\Tc	Security\de	fault

- 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_\$\$0_LOGINSERVICE_DE_DE.jar
- TEAMCENTER_\$\$O_LDAPIDPROVIDER_DE_DE.jar
- TEAMCENTER_\$\$0_LOGINSERVICE_HELP_DE_DE.jar

4. Solution Typ: \rightarrow Thin Client



5. Selected Solutions



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

Select Solutions	-		×
8) Teamcenter 12.2.0.8 Global Services Framework - Security Proxy			^
9) Teamcenter 12.2.0.8 Global Services Framework - Teamcenter Enter	erprise Co	onnector	
10) Teamcenter 12.2.0.8 Global Services Framework - Teamcenter SO	A Conne	ctor	
11) Teamcenter Security Services Identity Service Web Application			
12) Teamcenter Security Services Java API Documentation			
☑ 13) Teamcenter Security Services Login Service Web Application	-		
14) Teamcenter - Web Tier Core Applications [2]			
15) Teamcenter 12.2.0.8 Global Services Framework - EPSync Reacto	r [6]		
16) Teamcenter 12.2.0.8 Global Services Framework - JMS Messaging	[6]		
17) Teamcenter 12.2.0.8 Global Services Framework - Teamcenter So	urcing [§	91 🌙	
18) Teamcenter Security Services Identity Service Web Application Lo	calizatio	n (Ger son)	[11]
✓ 19) Teamcenter Security Services Login Service Web Application Loc	alization	(German) [1	3]

• Confirm with: OK

6. Terminate Add Web Application

• Check entries...

Madd Web Application -				\times
Name	tss-loginservice			
Staging Location	C:\pIm\web_tientss-loginservice		Brow	se
Description				
	Advanced Web Application Options			
Disk Locations for In:	stall Images			
D:\pIm\software\tc\Te	c12.2.0_patch_8_wntx64\wntx64\additional_applications\sso	TcSe	Add	
D:\pim\software\tc\Te	TcSe	Remove		
		Modi	fy	
Solution Type:	Thin Client	-		
Selected Solutions				
Teamcenter Security	y Services Login Service Web Application			
reamcenter security	sn)	Solutio	ms	
	OK Cancel Help			

- Confirm with: OK
- 7. Progress:
 - Confirm with: OK

Progress	×
\TEAMCENTER_SSO_LOGINSERVICE_HELP_DE_DE.jar'. Done with extraction of files Starting generation of web.xml file Done with generation of web.xml file Starting processing PARAM_FILES/TABLE_FILE tags Done with processing PARAM_FILES/TABLE_FILE tags Starting generation of WAR file Done with generation of WAR file	^
Installation complete.	
Click OK to continue.	
ОК	



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.Insw 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.	<i>i</i> eb	^

Teamcenter Web-Anwendungs-Manager

• Select: Hinzufügen...

🥸 Teamcenter	Web Application Manager	_		\times
Welcome to the Te	amcenter Web Application Manager			
Siemens PLM Software	Web Applications			
and the second second	Tc Web Tier		A	id
C. C. C. A.		_	Rer	nove
0.0-			Mo	dify
SIEMENS			Copy Reloa	ICDs Id ICDs
	Help Exit			

Add Web Application

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

Zu verwendende Datei: tss-idservice

	🥸 Add Web Application	– 🗆 X
	lame tss-idservice Staging Location C:\pIm\web_tier\tss-idservice	Browse
	Description	
	Advanced Web App	lication Options
墬 Advanced We — 🗆 🗙)isk Jacutons for Install Images 	/ntx64\additional_applicati
Automatically Build Deployable File	D:\plm\software\tc\Tc12.2.0_patch_8_wntx64\w	ntx64\additional_applicati Remove
Copy Main ICD Files Locally		Modify
Session Timeout 1440	Solution Type: Thin Client	▼
Distributable	Selected Solutions	
OK Cancel Help	Feamcenter - Web Tier Infrastructure	
	leamcenter - Web Tier Core Applications	Solutions

- 2. Disk Locations for Install Images
 - Add...

Disk Locations for Install Images
D:\pIm\software\tc\Tc12.2.0_patch_8_wntx64\wntx64\additional_applications\sso\TcSecurityServices12.2_20200318\TcSecurity\de_de
D:\pIm\software\tc\Tc12.2.0_patch_8_wntx64\wntx64\additional_applications\sso\TcSecurityServices12.2_20200318\TcSecurity\default

OK

Cancel

Help

3. Solution Typ: \rightarrow Thin Client

4. Selected Solutions



Select the following:

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

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• Confirm with: OK

Terminate Add Web Application

• Check entries...

🎐 Add Web	Application	_		\times
Name	tss-idservice			
Staging Location	C:\pIm\web_tier\tss-idservice		Brow	se
Description				
	Advanced Web Application Options			
Disk Locations for	or Install Images			
D:\pIm\software\	tc\Tc12.2.0_patch_8_wntx64\wntx64\additional_	applicati	Add	
D:\pim\software\	tc\Tc12.2.0_patch_8_wntx64\wntx64\additional_	applicati	Remo	ove
			Modi	fy
Solution Type:	Thin Client	-		
Selected Solution	ns			
Teamcenter Sec	urity Services Identity Service Web Application			
Teamcenter Sec	urity Services Identity Service Web Application L	ocalization		_
			Solutio	ns
•	II	•		
	OK Cancel Help			

- Confirm with: OK
- 5. Progress:

Progress	Х
\TEAMCENTER_SSO_LDAPIDPROVIDER_DE_DE.jar'. Done with extraction of files Starting generation of web.xml file Done with generation of web.xml file Starting processing PARAM_FILES/TABLE_FILE tags Done with processing PARAM_FILES/TABLE_FILE tags Starting generation of WAR file	~
Done with generation of WAR file	
Installation complete.	
Click OK to continue.	~
ОК	

• Confirm with: **OK**







10. Tss-loginservices anpassen

10.1 LdapAdmin

10.1.1 Mit LdapAdmin Loginuser überprüfen



Connection properties	\times
Connection name:	
General Options Attributes	
Connection:	
Host: avademo14 Port: 389 Version: 3	/
Base: Fetch DNs	
Simple authentication GSS-API	
Account	
Username: hawaii\infodba]
Password:	
Anonymous connection	
Test connection OK _	
Ldapadmin ×	
Connection is successful.	
ОК	

10.1.2 tss-loginservice anpassen, Modify Tables



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🥸 Modify Web	Application				_		×
Name	tss	-loginservice					
Staging Location	C:V	olm/web_tier/tss-lo	ainservice	Modify Wel	b Applicatio	n Informat	ion
bluging coodion	0.4		ginoennee	Mod	ify Disk Loc	ations	
Description				Modify	Context Pa	rameters.	
Solution Type:	Thir	n Client	_		Modify Tabl	es	
Installed Solutions					Add Solutio	ns	
Teamcenter Securit	ty Services Login Se	ervice Web Applica	ation	Re	install Solut	tions	
Teamcenter Securit	ty Services Login Se	ervice Web Applica	ation Localization (Germa	an)			
				Gener	Generate Deployable File		
					Copy ICD Fil	es	
ICD Files Last Copie	d: <no copy="" dono=""></no>			View C	Component	Versions	
ICD Flies Last Copied	a. No copy done>						
		OK	Cancel Help				
🎐 Modify	- 0	×					
Tables							
Login Input Definit	tions						
		Aodify					
OK	Cancel Hel	p					
					1		
Modify Table			_				
Table: Login Input Def	finitions						
name	where	required	idpkey				
tcsso_username	form	true	User				
tcsso_password	form	false	Password				
tcsso_newpassword	form	false	NewPassword	Add Row			
tcsso_locale	form	false	Liseri ocale	Remove Row			
			Joonzolate				
Table Description							
The value must be of ty	pe 'BOOLEAN'. This	column requires a va	lue in each field. 🔺				
a idahara Thia dafiasa	the second second second		While the use destriction				
dentity provider.							
The value must be of ty	ype 'STRING'. This col	umn requires a valu	e in each field.				
▼							
	OF	Cancel	Help				
					J		

10.1.3 tss-loginservice anpassen, Modify Context Parameters

Modify Web Application	1	- 🗆 X
Name Staging Location	tss-loginservice C:\pIm\web_tien\tss-loginservice	Modify Web Application Information Modify Disk Locations
Description		Modify Context Parameters
Solution Type:	Thin Client	Modify Tables
Installed Solutions		Add Solutions
Teamcenter Security Services Lo Teamcenter Security Services Lo	ogin Service Web Application ogin Service Web Application Localization (German)	Reinstall Solutions
		Generate Deployable File
		Copy ICD Files
ICD Files Last Copied: <no copy="" d<="" th=""><th>one></th><th>View Component Versions</th></no>	one>	View Component Versions
	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

🥸 Pro	gress	×	
File gener	ration complete.	^	
Click OK t	o continue.		
		~	
	ОК		
🥸 Mo	dify Context Parameters	- 🗆 ×	
Context P	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://avademo14.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	o.federation_type none	
	tcsso.federation_url		
	tcsso.federation_reply_url		
	tcsso.federation_logout_url		
	tcsso.cors_whitelist		
	DEBUG	warn	
	tcsso.login_service.enableCsrf	false	

 \times

10.2 Tss-idservices anpassen

10.2.1 tss-idservice anpassen, Modify Tables

🥸 Teamcenter	Web Applicati —				
Welcome to the Te	amcenter Web Application Mana	ager			
Trefoome to the re	Web Applications	.901			
Siemens PLM Software	To Web Tier				
and the second second	tss-idservice	Add			
- I want I	tss-loginservice	Remove			
SLAN H		Modify			
12 Alexander		moully			
🎐 Modify Web App	plication		_		
Name	tss-idservice	M	odify Web Application	Information	
Staging Location	C:\pim\web_tier\tss-idservice		Modify Disk Loca	ations	
Description			Modify Context Para	ameters	
Solution Tupo	This Client		Modify Table	S	
Installed Solutions	Thin Grefit		Add Solution	IS	
Teamcenter Security Se	ervices Identity Service Web Application	colization (Company)	Reinstall Soluti	ons	
reamcenter Security Se	ervices identity Service web Application Lo	ocalization (German)	Generate Deploya	ble File	
			Copy ICD File	·S	
ICD Files Last Conjed: 4	No convidence		View Component V	ersions	
ICD Files Last Copied: St	No copy done>				
Modify Tables SSO Token Specif Application Regist LDAP Domain map LDAP Configuratio OK	Cancel Help				
🥸 Modify Table				-	
Table: Application Registry					
Application ID TCEnterprise	Application Root URL change me enterprise Root IRI	LDAP UserName Attribute	Trusted Application	Strip Domain Name	1
TCEngineering	change_me_engineering_RootURL	TCEngineeringUserName	false	false	1
TCSSOLoginService	unused_do_not_change	TCSSOLoginServiceUserNam	e false	false	
TCCommunity	change_me_community_RootURL	TCCommunityUserName	false	false	Add Row
TCProject	change_me_project_RootURL	TCProjectUserName	false	false	Remove Row
TCIntegrator	change_me_integrator_RootURL	TCIntegratorUserName	false	false	Remove Row
TcContentManagement	change_me_ContentManagement_RootURL	TCEngineeringUserName	false	false	
TeamcenterBOM	No_change_needed_leamcenterBOM	ICEngineeringUserName	false	false	
Teamcenter2	change_me_reamcenter2_RootURL	sAMAccountName	false	false	
	here a fine i se mesuer i trateire	Per sus research railing	leane e	line a a	

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

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

🎐 Add Row to Table	- Application R 🗆 🛛			
Application ID	tcprod			
Application Root URL	http://avademo14.hawali.com:7070/			
LDAP UserName Attribute sAMAccountName				
Trusted Application	false 💌			
Strip Domain Name	true 💌			
OK Cancel Help				

10.2.2 tss-idservice anpassen, Modify Tables

🥸 Modify Web Appli	cation	- 🗆 ×	
Name Staging Location	tcc-idservice	Modify Web Application Information	
Staying Location	C.phiniweb_lienicchoservice	Modify Disk Locations	
Description		Modify Context Parameters	
Solution Type:	Thin Client	Modify Tables	
Installed Solutions		Add Solutions	
Teamcenter Security Serv	ices Identity Service Web Application	Reinstall Solutions	
Generate Deployable File			
		Copy ICD Files	
ICD Files Last Copied: <no< th=""><th>copy done></th><th>View Component Versions</th></no<>	copy done>	View Component Versions	
OK Cancel Help			



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

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🌺 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 T Application Registry LDAP Domain map LDAP Configuration OK	a Modify Help		
Modify Web Application			- 🗆 X
Name Staging Location	tcc-idservice C:\pim\web_tientcc-idser	vice	Modify Web Application Information
Description			Modify Context Parameters
Solution Type:	Thin Client	-	Modify Tables
Installed Solutions			Add Solutions
Teamcenter Security Services Iden Teamcenter Security Services Iden	ntity Service Web Applicati ntity Service Web Applicati	on on Localization (German)	Reinstall Solutions
			Generate Deployable File
			Copy ICD Files
ICD Files Last Copied: <no copy="" done=""> View Component Versions</no>			
OK Cancel Help			

🥸 Modify Table —	
Table: LDAP Configuration Prim LDA LDA LDA 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	Idap 🔻			
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

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🎐 Modify Web Appli	cation	- 🗆 X	
Name	tcc-idservice	Modify Web Application Information	
Staging Location	C:\pIm\web_tier\tcc-idservice	Modify Disk Locations	
Description		Modify Context Parameters	
Colution Trans	This Office	Modify Tables	
Solution Type:	Thin Client	Add Solutions	
Teamcenter Security Serv	ices Identity Service Web Application	Poinctall Solutions	
Teamcenter Security Services Identity Service Web Application Localization (German)			
		Generate Deployable File	
Copy ICD Files			
ICD Files Last Copied: <no< td=""><td>copy done></td><td>View Component Versions</td></no<>	copy done>	View Component Versions	
OK Cancel Help			

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

Allow	hantigation events				
An annemication events					
None	None				
Authe	ntication successful				
Authe	ntication failures				
All aut	hentication events				
🎐 N	Modify Context Parameters ×				
Contex	t Parameters				
Req	Name		Value		
	webmaster change_me_webmaster_name		_name		
	identityProvider com.teamcenter.ss.identity.spi		tity.spi		
	identityServicePassword				
	passwordLifetime 30				
	mediatorPassword •••••••••				
	tokenLifetime	600			
	sessionLifetime 600				
	tcsso.LogLevel All authentication events				
	tcsso.AuthLogDir c:\pIm\SSO\log				
	LDAPVersion 3				
	PasswordResetEnabled false				
	PasswordResetMessage				
	GatewayAliasingEnabled false				
	ReferralsEnabled false				
	ReferralHopLimit 5				
DEBUG warn					

Progress	×
File generation complete.	^
Click OK to continue.	
	~
ОК	

10.2.5 Deploy war-Files

Kopieren

→ 🗸 🕇 📜 « plm > we	eb_tier > tss-idservice > deployment
✓	^ Name
📙 deployment	🗋 tss-idservice.war
> 📜 webapp_root	
→ 🗸 🕇 📜 « plm > w	web_tier > tss-loginservice > deployment
✓	^ Name
📜 deployment	🗋 tss-loginservice.war
	_ ,





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:

```
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```

```
set TC SSO APP ID=tcprod
set TC SS0 Service=http://avademo14.hawaii.com:7070/tss-idservice
set TC TMP DIR=C:\temp\ServerManagerSS0
if not exist %TC TMP DIR% mkdir %TC TMP DIR%
*C:\plm\tc12\pool_manager\confs\tcprod\tcenvpre.bat - Notepad++ [Administrator]
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
 3 🚽 🔚 🐚 💫 🕼 🖌 🐚 🌔 🗩 🗲 📾 🍢 🔍 🔍 🖼 🚍 💷 11 📧 🐺 🔊
📙 tcenvpre.bat 🔀
  1
     set TC SSO APP ID=tcprod
  2
     set TC SSO Service=http://avademo14.hawaii.com:7070/tss-idservice
     set TC TMP DIR=C:\temp\ServerManagerSSO
  3
     if not exist %TC TMP DIR% mkdir %TC TMP DIR%
  4
   5
```

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





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

*C:\pIm\tc12\aws2\stage\out\activeworkspace\site\WEB-INF\web.xml - Notepad++ [Administrator]		
File Edit Search View	Encoding Language Settings Tools Macro Run Plugins Window ?	
🕞 🔚 🔚 📭 🔒) X 🐚 💼 Ə C # 🎭 R 😪 🍱 🖼 🎫 1 📰 🧟 🖄 🖉 🔤	
🔚 web.xml 🔀		
149 🛱	This parameter is only used if TcSS is configured !</td	
150	an SSO gateway This parameter defines the URL to re	
151	logout is invoked. This parameter must be defined i	
152	an SSO gateway when using TcSS.	
153	Ex:	
154	http://www.siemens.com/ //In this case the user wou	
155	https://GatewayServer/awc //In this case the user w	
156 -	>	
157	<pre><param-name>tcssoLogoutURL</param-name></pre>	
158 🔵	<param-value>https://www.avasis.biz</param-value>	
159 - <!--</b-->i	nit-param>	

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

Feature Maintenance				
Please select the feature to configure below and click the Next button.				
 Remove Configure Active Workspace Obj Modify Object D Active Workspace Clie Update Active W Visualization Server N 	urations ject Data Indexer Data Indexer settings ent (Java EE) Vorkspace client settings Manager			
V Teamcenter 12	SIEMENS – 🗆 🕽			
Overview	TEAMCENTER			
 Maintenance Configuration Maintena Old Configuration Feature Maintenance Active Workspace Clien Confirmation Executing 	Active Workspace Client Settings Specify Active Workspace client installation settings below. Teamcenter 4-tier URL http://avademo14:7070/tc Image: Use as Bootstrap URLS Bootstrap URLs Bootstrap Client IP Image: Use Assigned FSC URLs Assigned FSC URLs			
	Enable TcSS Support Enable TcSS Support TcSS Application ID tcprod TcSS Login URL http://avademo14.havvaii.com:10090/tss-loginservice Advanced			
A second second	Back Next Cancel			

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

War-File deployen...

4. Fehlermeldung im IE



Lösung:

				- 🗆 🗙		
Internet Options		? × • •	🔮 Teamcenter - Home 🛛 🛛 👋	☆ 🔅		
General Security	Privacy Content Connections Prog	grams Advanced		1		
Select a zone to a	iou or change cocurity response		🗸 Any Category 🗸 Search			
	new of change security paulitys.		Latest Working 🕶	Advanced Search		
Internet	Local intranet	Trusted sites 🗸				
<		→ →	PRINTOUTS NEW PART			
Local in	tranet	Sites		\sim		
found or	e is for all websites that are		Local intranet	×		
	Local intranet					
Security level fo Allowed levels	Use the settings below to o the local intranet zone.	define which websites are in	duc You can add and remove websites from this in this zone will use the zone's security setti	zone. All websites ngs.		
- Low	Automatically detect int	ranet network	Add this website to the zone:			
pr	Include all local (intr	ranet) sites not listed in othe	r zo	Add		
	Include all sites that	bypass the proxy server	Websites			
	Include all network	paths (UNCs)	http://www.ii.com	Dama a		
Enable Pr	· • • • • • • • • • • • • • • • • • • •		http://dvademo14.http://dvademo14.http://	Remove		
	What are intranet settings? Adv	anced OK				
	Reset all zones to default level					
	Require server verification (https:) for all sites in this zone					
•						
	OK Cano	el Apply		Close		

14. Office integration auf SSO umstellen

14.1 Neu installieren

	Teamcenter Client for Office - InstallShield Wizard
Teamcenter Client for Office - InstallShield Wizard	Forward Proxy Settings
Advanced Configuration	
Select "Advanced Configuration" to configure Forwar	Please select the forward proxy setting you want.
Advanced Configuration	 Use web browser settings No proxy

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Teamcenter Client for O	fice - InstallShield Wizard	×
TCCS Environments	nformation	-A
Enter TCCS Environm	ants information below.	
Use "Add" button to a TCCS environment. U Use "Up" or "Down" b applet/see SSO supp http://host.port/SSO_L	dd TCCS environment to the list. Use "Edit" button to modify the set se "Remove" button to remove selected TCCS environment from th utton to move selected TCCS environment up or down. To enable art, append '/tccs' to the end of SSO Login URL in the format of .0GIN_SERVICE_NAME/tccs.	Hected the list.
"toprod")"http://avade	mio147070/tc" "" "http://evademio14.hewaii.com:10090/ts E	Add
Teamcenter Client for O	fice - InstallShield Wizard	×
Please enter Tcc	environment information.	
Name	tcprod	
URL	http://evademo14:7070/tc	
Filter Text		
SSO URL	http://avademo14.hawaii.com:10090/tss-loginservice/tccs	
SSO App ID	tcprod	
InstallShield		
	Cancel OK	ς
		Terrenter Client for Office InstallChield Winned
		reamcenter client for Office - Instalishield wizard
		Kerberos authentication support.
		Enter Nerberos conliguration to enable the support of Nerberos

Teamcenter Client for Office - InstallShield Wizard	Enter Kerberos configuration to enable the support of Kerberos authentication.
realificenter chent for Office - Instanshield Wizard	
Reverse Proxy	Support kerberos authentication
	Ollocatio Met Cito
	O Use this Krbb file
TCCS Reverse proxy Setting	
	Use default settings
Enable Reverse Proxy	Always prompt for user ID
Teamcenter Client for Office - InstallShield Wizard	×
Secure Socket Lover (SSI) Settings	
Enter the SSL settings for Client Communication System	
Use Internet Explorer Certificate Store (Recommended)	
O Disable SSL	
O Configure Certificate Store manually	
 Use trust store (Supported type is JKS) 	
File:	Browse
Accept untrusted certificates	
Configure key store	
File:	Browse
Type: V	
InstallShield	
(Pack North	Canad
CORCK Next >	Cancel

15. Teamcenter Visualization auf SSO umstellen

5	Teamcen	ter Visualization Base 12.2		
Eile Home Tools Ha	le .			
Open Close Second Second	Strg+O			
Save Session Strg+C	imschalt # 5			
Preferences Exit	•	File Locate File Open 2D Loader		
Applications Ribbon Bar Project Workspace	Welc If you are Visualizat Applicatio	3D Loader Load Options Session Collaboration Use FIPS Security Services		
Security Services Prefe	erences			×
Perform Single Sign On Authentication				
SSO Login URL:	http://ava	demo14.hawaii.com	:10090/tss-loginservice/tccs	
SSO Application ID:	tcprod			
OK Cancel				

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

16. Solid Edge SEEC

Teamcenter-Datenbank-LIRI	Datenbankbeschreibung	Standard Parts SAC-Datei	TcCS
http://plmsrv:8080/tc	prod		Nein
,			Mach abon
Teamcenter-Datenbank-URL:			Naciropen
http://plmsrv:8080/tc		Hinzufügen	Aktualisieren
2-Tier			2-Tier
Datenbankbeschreibung:			
+ prod			TCCS
Standard Parts SAC-Datei:			
		Durchsuchen	
Township Constitution (CC	0)		

OK

Abbrechen

Hilfe

17. Solid Works Integration auf SSO umstellen

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



+ http://plmsrv:7001/tc_login

Aktivieren

🗖 Standarddatenbank

tcprod

SSO App ID:

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

18. Zweiter Strang NOSSO

- Nur f
 ür administrative Zwecke und nicht f
 ür 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-sso umbenennen



In "C:\plm\web_tier\tcwebtier-sso\webapp.dat"



In "C:\plm\web_tier\tcwebtier-sso\webapp_root\WEB-INF\web.xml"



In "C:\plm\web_tier\webapps.dat"

📙 weba	pps.dat 🔀	
1	tss-idservice	C:\plm\web_tier\tss-idservice
2 🔵	tcwebtier-sso	C:\plm\web_tier\tcwebtier-sso
3	tss-loginservice	C:\plm\web_tier\tss-loginservice

Insweb starten und prüfen.

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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

				Modify Web Application	- 🗆 X		
				Name towebler-nosso Staging Location plm/web_liertowebler-nosso	Modify Web Application Information		
Teamcenter	Web Applicati	_		Description	Modify Context Parameters Modify Tables		
Welcome to the Teamcenter Web Application Manager			Solution Type: Thin Client Installed Solutions	Add Solutions			
Siemens PLM Software	Web Applications			Teamcenter - Web Tier Infrastructure Teamcenter - Web Tier Core Applications	Reinstall Solutions		
and the second second	tcwebtier-sso		Add		Generate Deployable File Copy ICD Files		
The state	tss-idservice		Remove	ICD Files Last Copied: «No copy done»	View Component Versions		
25	tss-loginservice		Modify	OK Cance	Help		

Ports jeweils an zweiter Stelle um einen Zähler erhöhen:

>>	Modify Context Parameters	- 🗆 ×					
Context Parameters							
Req	Name	Value					
	webmaster	change_me_webmaster_nam	٠				
	Weblogic Cookie Secure	false					
~	IS_SSO_ENABLED	false					
~	SSO_APPLICATION_ID	tcprod					
~	SSO_LOGIN_SERVICE_URL	http://host/tcssols					
	SERVER_PER_WEB_CLIENT_SESSION	false					
	staticResourceClientCacheExpiryTime	28800	-				
	compressResponse	true					
	cacheCompressedStaticResourceOnServer	true					
	responseCompressionThreshold	500					
	calculateResponseTime	false					
	referer	*					
~	TreeCache Cluster Name	Cluster_NOSSO					
V	TreeCache Mode	TCP					
V	TreeCache Cluster Port	46566					
~	Local Service Port	18810					
~	TreeCache Peers	avademo14[18800]					
~	Connection Timeout	30000					
	TreeCache Socket Connect Timeout	2000					
	TreeCache Merge Min	5000					
	TreeCache Merge Max	10000					
	TreeCache Join Timeout	60000					

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Progress	×
Changes have been made that require the deployable file to be rebuilt. Rebuilding now File generation complete.	1
Click OK to continue.	
ОК	

War-File nach instance_NOSSO deployen

✓ 📙 tcwebtier-nosso			Name
📜 deployment		tc.war	
 instance_NOSSO bin conf logs temp webapps work instance_SSO 	Name docs examples host-manage ROOT tc tc.war	ger	