## Configure TMS to Use Windows Authentication for External SQL Server



Document ID: 117817

Contributed by Shannon Beard, Cisco TAC Engineer.

Jul 09, 2014

## Contents

#### Introduction

Requirements

Components Used

**Configure Windows Authentication for TMS connection to the TMSNG (and TMSPE) databases** Configuration

### Introduction

In order to configure the Telepresence Management Suite (TMS) to use Windows Authentication for External Structured Query Language (SQL) Server, you must change the IIS application user identity to a network service account. This document describes how to configure TMS to use Windows Authentication for the External SQL Server.

#### Requirements

There are no specific requirements for this document.

#### **Components Used**

The information in this document is based on these software and hardware versions:

- Windows Server 2003, Windows Server 2008 R2 running Active Directory
- Windows Server running SQL Server 2005 or later.
- Windows Server 2003 (IIS 6) or Windows Server 2008 R2 (IIS 7) running TMS software.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

# Configure Windows Authentication for TMS connection to the TMSNG (and TMSPE) databases

If a customer would like to use Windows Authentication for TMS connection to the TMSNG and TMS Provisioning Extension (TMSPE) databases; you must change the IIS application user identity to a network service account to create a login in SQL.

#### Configuration

1. Create a new Active Directory (AD) Service account, for example tms-databaseservice. If using Windows 2008 or later for AD, no special permissions are needed. If using Windows 2003, the user must be enabled to Log On as a Service.

TMS DatabaseService Properties ? 🗙			
Published Certificates     Member Of     Password Replication     Dial-in     Object       Security     Environment     Sessions       Remote control     Remote Desktop Services Profile       Personal Virtual Desktop     COM+     Attribute Editor       General     Address     Account     Profile			
User logon name:       TMS-DatabaseService     @:' · · · · · · · · · · · · · · · · · · ·			
TMS-DatabaseService			
Logon Hours Log On To			
Account options:			
□ User must change password at next logon         ▼ User cannot change password         ▼ Password never expires			
Store password using reversible encryption			
Account expires			
C End of: Saturday , June 14, 2014 💌			
OK Cancel Apply Help			

2. In the SQL Server, create a new log in; for example: tms-databaseservice; via SQL Management Studio:

- Expand *Security* and right-click *Logins*. Select *New Login*.

🕀 🚞 Databases	Databases				
🖃 🚞 Security					
m 📬 Lasias					
+	AL 1 -				
🕀 🚞 Se	New Login				
🕀 🧰 Ci	Filter 🕨				
🕀 🧰 Ci	Start DowerShell				
🕀 🧰 Al					
🕀 🧰 Sε	Reports 🕨 🕨				
🕀 🚞 Serve					
🕀 🚞 Replic	Ketresh				
🗉 🚞 AlwaysOn I	AlwaysOn High Availability				
🗄 🚞 Manageme	Management				
표 🚞 Integration	Integration Services Catalogs				

- Under *General*, enter the domain account *DOMAIN*\*USERNAME* for the service user.

E.	Login - New				
Select a page Page General	🔄 Script 👻 🎼 Heb				
Server Roles Server Mapping Securables	Login namex Windows authentication SQL Server authentication	DOMAIN\TMSDatabaseServica	Səaroh		
	Password Confirm password: Specify old password				
	Old password Enforce password policy Enforce password expire User must change passw	ution vord at nex: login	_		
	<ul> <li>Mapped to certificate</li> <li>Mapped to asymmetric key</li> </ul>				
Connection	Map to Credential	Cradastial Provider	And		

– Under *User Mapping*, select *tmsng* and *tmspe* if applicable. For *Default Schema*, select *dbo* and select *db\_owner* for role membership.

🔄 Script 🔻 🎼 Help					
Users mapped to this login:					
Мар	Database	User	Default Schema		
	master				
	model				
	msdb				
	tempdb				
<ul><li>✓</li></ul>	tmsng	STATE TO \TMS-DatabaseService	dbo		
~	tmspe	ີ ແລະ ເປັນ ເປັນ TMS-DatabaseService	dbo		
<		ш	>		
Database role membership for: tmsng					
db_accessadmin         db_backupoperator         db_datareader         db_datawriter         db_denydatareader         db_denydatareader         db_denydatawriter         ✓         db_securityadmin         ✓         public					
		ОК	Cancel		

– Click OK.

*Note*: User should be automatically created when the login in step 2 is mapped to the tmsng database.

3. In SQL Server, create a new login for the user account that runs TMS' IIS App pool. The default account for Windows 2003 (IIS 6) is *NT AUTHORITY\NETWORK SERVICE*; the default account for Windows 2008 (IIS 7) is IIS *APPPOOL\TMSNet40AppPool*.

*Note*: Since this is a local account, you cannot create a login for this user if using an external SQL Server.

If you use an external SQL Server; the *IIS APPPOOL*/*TMSNet40AppPool* user identity in IIS must be changed to a domain user (it can be the same user created in Step 1–– ex: tms–databaseservice) via *IIS* > *Application Pools* > *right–click TMSNet40AppPool* and choose *Advanced Settings*> *Process Model* > *Identity*. Choose *Custom Account* and enter the service account (*DOMAIN*/*USERNAME*) and click *OK*.

ldv	anced Settings		? ×			
Ы	l (General)		-1			
	.NET Framework Version	v4.0				
	enable 32-3t ≏pplications	Irue				
	Managed Fippline Mode	Integrated				
	Name	TMENel40AppPo J				
	Queue Length	1000				
	Star: Automatically	Truc				
F	ГРП					
	Int	U				
	Linit Action	No <sup>a</sup> ction				
	of Toterval (montes)	5	Арр	lication Pool Identity		? ×
	-Processor Affinity Enabled	False				
	Processor Affinity Mask	+294907295	0	Built-reaccound:		
F	Process Model				-	
	(dentity	<ul> <li>J\IMS-DatabaseSet</li> </ul>	wice	,		
	Ide Time-cut (minutes)	60		Custom account:		
	ed Eser Profile	False		: 0TM5 CatabaseService		5 <del>.</del>
	Maximum Worker Process( S	et Lredentials	? ×		L	
	Ping Enabled					
	Ping Mexic on Response 1	Liser name				
	Ang Period (seconds)	<ul> <li>'\TMS-DetebaseDervice</li> </ul>			≏K I	Cancel
	Shutdown Time Limit (seco	Password				Cancor
	Sterrun Time Limit (second			1		
3	dentity					
ļļ	identity Type, username, pa	Confilm password:				
l.	oil Financion (ritet Application ocel Statem - peel Service					
1	ocarbystony 1908 1011129					
		DK C	ance			
			11.			

Open *Services* and right–click each TMS Service, then go to '*Properties'* > *Log On* ... Choose *This account* and enter the service account *DOMAIN*\*USERNAME* and password. Open *TMS Tools* and go to *Database Connection Settings*. Enable Windows Authentication for both TMSNG and TMSPE databases.

Name 🔺	Description	Status	Startup 1	Type Log Op As
Software Protection	Enables th	50005	Automat	ic (D Network S
🔍 Special Administrati	Allows adm		Manual	Local System
SPP Notification Ser	Provides S		Manua 📊	MSI iveService Properties (Local Computer)
🕵 SSDP Discovery	Discovers		Disabl	
🤹 System Event Notifi	Monitors s	Started	Autorr	General Log On Recovery Dependencies
🎑 Task Scheduler	Enables a	Started	Autor	
🎑 TCP/IP NetBIOS He	Provides s	Started	Autorr	Log on as:
🎑 Telephony	Provides T		Manua	O Local System account
🥋 Thread Ordering Se	Provides or		Manua	Allow service to interact with desktop
🧛 TMS Provisioning E	Cisco TeleP	Started	Autor	
🥋 TMSDatabaseScan	TMSDatab	Started	Autorr	This account: TMS-DatabaseService@: Browse
	TMSLiveSe	Started	Autorr	Durant and a second sec
Sectory MSPLCMDirectory	TMSPLCMD	Started	Autorr	Password:
SchedulerService	TMSSched	Started	Autorr	Confirm password:
MSServerDiagnost	TMSServer	Started	Autorr	
MSSnmpService	TMSSnmpS	Started	Autor	Help me configure user account log on options.
Carteria Services	Enables ac		Manua	
UPnP Device Host	Allows UPn		Disabl	
Service Service	This servic	Started	Autor	
Sector Virtual Disk	Provides m		Manua	
Wolume Shadow Copy	Manages a		Manua	
Section Windows Audio	Manages a		Manua	
Windows Audio End	Manages a		Manua	
Windows Color Sys	The WcsPl		Manua	
Windows Driver Fo	Creates an		Manua	
				UN Cancer Apply

Restart all TMS Services and the World Wide Web Publishing Service or restart the server.

Updated: Jul 09, 2014

Document ID: 117817