



# Upgrade Guide

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## **Table of contents**

1. TX Chrono Upgrade	3
1.1 Backup database and configuration files	3
1.2 Uninstall previous TX Chrono installation	4
1.3 Apply TX Chrono Upgrade scripts	6
1.4 Install a new version of TX Chrono	6
1.5 Import Site Specific settings	7
1.6 Configure Database Connection	7
1.7 Import Fields settings (1.5.8 and older)	8
1.8 Import existing configuration (1.5.8 and older)	8
1.9 Populate TFS Collections IDs (1.5.7 and older)	9
1.10 Populate User SIDs (1.5.4 and older)	9
1.11 Update Site Permissions	10
1.12 Try to sync application	10

# **1** TX Chrono Upgrade

#### 1.1 Backup database and configuration files

Before you start upgrading TX Chrono please backup the following:

• TX Chrono database (TimeTrack);

<b>9</b>	Mi	crosoft	SQL Server Management Studio (Adminis
File Edit View Debug T	ools Window Help		
	New Query 📋 🌇 📸	& 43	
Object Explorer			
Connect 🕶 🛃 📕 🝸 🖪	2 🔏		
G appservtfs2013 (SQL Se     D atabases	erver 11.0.3381 - ALTOROS\pav	el.shklein	nik)
🕀 🧾 System Databas	ses		
	ion		
🗄 🧻 Tfs_DefaultColl	ection		
E      TimeTrack     Security	New Database		
Server Objects	New Query		
Contraction     Contraction	Script Database as	•	
	Tasks	•	Detach
Integration Serv	Policies	•	Take Offline
E 📸 SQL Server Agei	Facets		Bring Online
	Start PowerShell		Shrink <b>•</b>
	Reports	•	Back Up
	Rename		Restore +
	Delete		Mirror
	Refresh		Launch Database Mirroring Monitor
Ready	Properties		Ship Transaction Logs

• **TX Chrono** application folder (by default C:\inetpub\wwwroot\TXChrono):

鷆   💽 🚺 🛨	TXChrono	-	□ ×
File Home Share	View		v 🕐
🛞 🎯 🔻 🕆 퉱 « C\$ )	TXChro	✓ C Search TXChrono	Q
Name	Date modified	Туре	
📕 TX Chrono 1.2	12/10/2011 7:54 PM	File folder	
) TX Chrono 1.3.7	12/10/2011 7:55 PM	File folder	
퉬 TX Chrono 1.4.2.2	12/10/2011 7:55 PM	File folder	
) TX Chrono 1.5	12/10/2011 7:55 PM	File folder	
🚹 TX Chrono 1.5.3	10/11/2012 5:30 PM	File folder	
퉬 TX Chrono 1.5.4.69568	5/7/2013 2:32 PM	File folder	
퉬 TX Chrono 1.5.4.70828	11/7/2012 11:30 AM	File folder	
퉬 TX Chrono 1.5.5.73521	6/28/2013 11:25 AM	File folder	
퉬 TX Chrono 1.5.6.75007	2/5/2014 10:36 AM	File folder	
퉬 TX Chrono 1.5.6.75438	2/13/2014 11:36 AM	File folder	
) TX Chrono 1.5.6.77522	2/18/2014 5:02 PM	File folder	
21 items			===

Note: We will need web.config, web.sitemap, ApplicationSettings.xml and license.lic files later.

#### **1.2 Uninstall previous TX Chrono installation**

There are two ways to uninstall TX Chrono Web Site:

1. Go to Add or Remove Programs (Start -> Control Panel -> Add or Remove Programs). Select 'TX Chrono' from the program list and click **Remove**.

	Run ×
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
<u>O</u> pen:	appwiz.cpl 🗸
	OK Cancel <u>B</u> rowse

🛒 chrono - F	Programs and Features - Program			×
	Items → Programs and Features ∨	chrono		×
Uninstall or change a program To uninstall a program, select it from the list and then clic	:k Uninstall, Change, or Repair.			
Organize 🔻 Uninstall Repair				
Name	Publisher	Installed On	Size	Version
😟 TX Chrono	TeamExpand	7/20/2015	13.3 MB	1.5.9.0

2. Run TXChronoSetup.exe and click Uninstall TeamExpand Chrono:

Ö	TeamExpand Chrono Setup	×
×	Uninstall TeamExpand Chrono	

After uninstall is initiated you will be offered additional options. Please, leave checkboxes empty:



Then uninstall process starts. Some steps can fail:

~	Complete	Total Actions Nu	mber 9	Success: 9 Failed: 0	
ction	is List:				
	Action		Result		^
$\checkmark$	Delete application database		Success		
$\checkmark$	Delete Web Site		Success		
$\checkmark$	Delete Application Pool		Success		
$\checkmark$	Delete Event Log		Success		
$\checkmark$	Delete Cache Folder		Success		
$\checkmark$	Delete Certificates		Success		~
		OK			

**Note:** If you are updating the entire server and just want to abandon old one, keep in mind that you need to delete old Notification Subscriptions from the TFS.

#### 1.3 Apply TX Chrono Upgrade scripts

To actualize the database the upgrade scripts should be applied. They add a few more tables, stored procedures and update your data accordingly. The scripts are labeled "TX Chrono upgrade script 1.\*.\*.\* to 1.\*.\*.\*.sql"

To upgrade your DB, please follow the steps below:

- 1. Make sure you completed the steps specified in p. 1.1.
- 2. Run TX Chrono upgrade scripts against your TimeTrack database.

You can find the upgrade scripts by the following the link: TX Chrono DB Upgrate Scripts

#### **1.4 Install a new version of TX Chrono**

Once you have updated your database and backed up the files mentioned in section 1.1 of the current guide, run TX Chrono installer:

TeamExpand Chrono Setup	×
PANDE	
TX Chrono	
8002	
C:\inetpub\wwwroot\TXChrono	Prowse Browse
	Install
	TeamExpand Chrono Setup         Image: Comparison of the set of

#### **1.5 Import Site Specific settings**

If you made any changes to the web site configuration you need to import them (in web.config file). Pay attention on settings like this:

```
<jsonSerialization maxJsonLength="3000000" />
<httpRuntime executionTimeout="900" maxRequestLength="10240" />
<globalization culture="en-US" uiCulture="en-US" />
```

And any other specific for your deployment customizations.

#### **1.6 Configure Database Connection**

After application installation you need to connect it to your existing recently updated database. Apply to Configuration Guide for details:

Licenses Settings Log	out	
Settings		
Create Database	SQL Setting	S
SQL Settings	Connection Del	tails
Log	Server Database Name	TimeTrack
	Credentials	
	User Name	TimeTrackUser
	Password	
	Status	Error
	Save	

Note: After Database connection is configured click Settings link for full page reload.

#### 1.7 Import Fields settings (1.5.8 and older)

If you are uptating from version older than 1.5.9 you need to import Field Info values from the ApplicationSettings.xml file to the FieldInfo table in the TimeTrack database (update only ReferenceName and IsDefault columns):

	Id	FieldName	ReferenceName	Alias	IsDefault	FieldType	EditType
•	1	Title	System.Title	Title	False	6	0
	2	State	System.State	State	False	6	0
	3	Completed Work	Microsoft.VSTS.Scheduling.CompletedWork	CW	True	2	1
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

#### **1.8 Import existing configuration (1.5.8 and older)**

If you are uptating from version older than 1.5.9 you need to you need to go through the key application configuration steps using your existing configuration files as source. Please, refer to the Configuration Guide.

**Note:** At first we recommend set Initial Synchronization Delay to some big value like 1440 and restart Applicatin Pool to prevent background synchronization during configuration process.

#### 1.9 Populate TFS Collections IDs (1.5.7 and older)

If you are uptating from version older than 1.5.8 you need to run Configuration Service and trigger **PopulateCollectionTfsId** method:



#### 1.10 Populate User SIDs (1.5.4 and older)

If you are uptating from version older than 1.5.5 you need to run Configuration Service and trigger **PopulateUsersSids** method of Configuration Service:

	- 🗆 🗙
🗲 🛞 🐞 http://appservtfs2013:8002/ConfigurationService.asmx 🛛 🔎 👻 🖏 ConfigurationService Web 🗙	6 🕸 🕸
ConfigurationService	
The following operations are supported. For a formal definition, please review the Service Description.	
PopulateCollectionTfsId	
PopulateUsersSids	
<u>SaveSglLogin</u>	
UnsubscribeTfsEvents	

#### 1.11 Update Site Permissions

If you have customized approval hierarchy you have a need to update site permissions. To do this just trigger **UpdateSitePermissions** method of the Configuration Service:

	- 🗆 🗙
🗲 🕘 🔞 http://appservtfs2013:8002/ConfigurationService.asmx 🔎 = 🖒 🔞 ConfigurationService Web 🗴	62 公 63
ConfigurationService	
The following operations are supported. For a formal definition, please review the Service Description.	
DeleteDatabase	
PopulateCollectionTfsId	
PopulateUsersSids	
<u>UnsubscribeTfsEvents</u>	
UpdateSitePermissions	

### **1.12 Try to sync application**

To check if upgrade passed successfully you can trigger synchronization (don't forget to start Application Pool if you still have it stopped):

Licenses Settings Lo	ogout
Settings	Synchronization
	Last Sync: 07/08/2015 20:43:34
	Time Elapsed: 3m 12s
	Next Sync: 07/08/2015 21:25:21
	Sync Status: Success
Synchronization 2	Synchronize 3
	Settings
	Initial synchronization delay(min): 15
	Synchronization interval(min): 45
	Save

You can find more information on application synchronization in our Configuration Guide