

Installation Manual For Theatre Management System TMS-2000 Document Version 4.3.1.01

Software Version 4.3.1

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1. HARDWARE REQUIREMENTS

1	The TMS runs on PC platform based on x86-64 architecture
2	Operating System
	Microsoft Windows Server 2008R2
	Microsoft Windows 8, Microsoft Windows Server 2012
	Microsoft Windows 10, Microsoft Windows Server 2016
	Microsoft Windows 11, Microsoft Windows Server 2019
3	Hardware Requirements:
	 Intel[®] Core[™] i5-10400 Processor or better
	Minimum 8GB RAM
	Minimum Display Resolution 1920 x 1080
	LAN1: 10/100 Ethernet Adaptor (Management)
	LAN2: 10/100/1000 Ethernet Adaptor (Content)
	Internal SDD (Minimum 256GB for OS and TMS software)
	Internal HDD or External HDD for Digital Cinema Content Storage (1TB or more)
	Mouse/Keyboard/Monitor
4	Hardware Recommendations
	Intel [®] Xeon [®] Silver 4210R Processor or better
	16 GB RAM or more
	Wide Screen Display Resolution 1920 x 1080
	LAN1: 10/100/1000 Ethernet Adaptor (Management)
	LAN2: 10/100/10000 Ethernet Adaptor (Content)
	Internal SDD (Minimum 256GB for OS and TMS software)
	Dedicated Storage Server with Multiple-Terabyte Capacity
	Mouse/Keyboard/Monitor
5	Optional
	Optical Drive: DVD-ROM or Blu-ray

1. HARDWARE REQUIREMENTS

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2. THIRD PARTY SOFTWARE INSTALLATION

GDC recommends that customers should install all the following third party software before installing GDC-TMS:

- Microsoft Visual C++ 2008 SP1 Redistributable
- Microsoft Visual C++ 2010 SP1 Redistributable
- PostgreSQL database server 8.3.23-3
- FileZilla server 0.9.27
- Net-SNMP 5.4.2
- TightVNC 2.7.10

Customers can also install Ext2Fsd 0.62 software in case their Windows OS needs to recognize external disk with EXT2/EXT3 file system.

Important Note:

a. Windows file system should be NTFS. FAT32 is strongly not recommended as it may cause PostgreSQL software not to function properly.

b. The recommended software version information can be found in the following sections.

2.1. Microsoft Visual C++ 2008 SP1 Redistributable

Install Microsoft Visual C++ 2008 SP1 Redistributable

- 1. Locate the file 2008_sp1_vcredist_x86.exe, double click it to start the installation.
- "Welcome to Microsoft Visual C++ 2008 Redistributable Setup" window is displayed, click "Next >" to proceed to next step.
- 3. "License Terms" window is displayed, click the check box "I have read and accept the license terms." and click "Install >" to start installation.
- 4. "Setup Complete" window is displayed, and click "Finish" to exit installation wizard.

Installation of Microsoft Visual C++ 2008 SP1 Redistributable is complete.

2.2. Microsoft Visual C++ 2010 SP1 Redistributable

Install Microsoft Visual C++ 2010 SP1 Redistributable

- 1. Locate the file 2010_sp1_vcredist_x86.exe; double click it to start the installation.
- 2. "Welcome to Microsoft Visual C++ 2010 x86 Redistributable Setup" window is displayed, click the check box "I have read and accept the license terms.", and click "Install" to start installation.
- 3. "Installation Is Complete" window is displayed, and click "Finish" to exit installation wizard.

Installation of Microsoft Visual C++ 2010 SP1 Redistributable is complete.

2.3. PostgreSQL Database Server

Important Note: Please make sure Secondary Logon Service is running. Right-click "Start Task Manager", go to Services tab, then look for seclogon in the list.

Set Startup type of Secondary Logon to Automatic. To set up, click "Services" button. Right-click "Secondary Logon" service in the list, then click "Properties". Set Startup type to "Automatic", then click "OK".

Install PostgreSQL 8.3 database server

- 1. Locate the file postgresql-8.3.23-3-windows.exe; double click it to start the installation.
- 2. "Setup PostgreSQL" window is displayed, click "Next >" to proceed to the next step.
- 3. "Installation Directory" window is displayed. Use the default settings, click "**Next >**" to proceed to the next step.
- 4. "Data Directory" window is displayed. Use the default settings, click "Next >" to proceed to the next step.
- 5. "Password" window is displayed. Enter "gdcdbpasswd" into Password field, and enter "gdcdbpasswd" into Retype password field. Click "Next >" to proceed to the next step.
- 6. "Port" window is displayed. Use the default settings, click "Next >" to proceed to the next step.
- 7. "Locale" window is displayed. Use the default settings, click "Next >" to proceed to the next step.
- 8. "Ready to Install" window is displayed. Click "Next >" to proceed to start installation.
- 9. "Completing the PostgreSQL Setup Wizard" window is displayed. **Uncheck** "Launch Stacker Builder at exit" box and click "**Finish**" to exit installation wizard.

Installation of PostgreSQL 8.3 database server is complete.

2.4. FileZilla FTP Server Software

Install FileZilla Software

- 1. Locate the file FileZilla_Server-0_9_27.exe; double click it to start the installation.
- 2. "License Agreement" window is displayed. Click "I Agree" to proceed to the next step.
- 3. "Choose Components" window is displayed. Use the default settings, click "**Next>**" to proceed to the next step.
- 4. "Choose Install Location" window is displayed. Use the default settings, click "**Next>**" to proceed to the next step.
- 5. "Startup settings" window is displayed. Use the default settings as follows:
- a. Use the default settings "Install as service, started with Windows (default)".
- b. Use the default settings "14147" as Port. Click "Next>" to proceed to the next step.
- 6. Use the default settings "Start if user logs on, apply to all users (default)", click "Install" to start installation.
- 7. "Installation Complete" window is displayed. Click "Close" to exit installation wizard.
- 8. "Connect to Server" window is displayed. Click "**OK**" button to start FileZilla application, click "**Minimize**" icon to minimize the program.

Installation of FileZilla Software is complete.

2.5. Net-SNMP Software

Important Note: Please make sure that there is no other SNMP manager software occupying the port for SNMP communication.

Install Net-SNMP Software

- 1. Locate the file **net-snmp-5.4.2.1-1.win32.exe**; double click it to start the installation.
- "Welcome to the Net-SNMP 5.4.2.1 Setup Wizard" window is displayed, click "Next >" to proceed to the next step.
- 3. "License Agreement" window is displayed. Click "I accept the terms in the License Agreement" and "Next >" to proceed to the next step.
- 4. "Choose Components" window is displayed. Use default settings, click "Next >" to go to the next step.
- 5. "Choose Install Location" window is displayed. Use the default settings, click "Next >" to proceed to the next step.
- 6. "Choose Start Menu Folder" window is displayed. Use the default settings, click "**Install**" to start installation.
- 7. Uncheck on "Show Readme" and click "Finish" to exit installation wizard.

Installation of Net-SNMP Software is complete.

2.6. TightVNC Viewer for Windows

Important Note: Please make sure that the TightVNC viewer version is compatible on the system type of the operating system. If your system type is a 32-bit operating system, use *tightvnc-2.7.10-setup-32bit.msi* installer else use *tightvnc-2.7.10-setup-64bit.msi*.

Install TightVNC Viewer Software

- 1. Locate the file tightvnc-2.7.10-setup-64bit.msi; double click it to start the installation.
- 2. "TightVNC Setup" window is displayed, click "Next >" to proceed to the next step.
- "End-User License Agreement" window is displayed, click "I accept the terms in the License Agreement" and "Next >" to proceed to the next step.
- 4. "Choose Setup Type" window is displayed. Since user only needs to install TightVNC Viewer, click "Custom".
- 5. "Custom Setup" window is displayed. Disable the option to install TightVNC Server, select TightVNC Server, then select "Entire feature will be unavailable". Click "Next >" to proceed to the next step.
- 6. "Select Additional Tasks" window is displayed. Ensure that all check boxes are ticked, click "**Next** >" to proceed to the next step.
- 7. "Ready to install TightVNC" window is displayed. Click "Install" to start installation.
- 8. "Completed the TightVNC Setup Wizard" window is displayed. Click "Finish" to exit installation wizard.

Installation of TightVNC Viewer Software is complete.

3. WINDOWS FIREWALL SETTING

Configure programs to allow communications through Windows Firewall.

- Depends on your Windows OS, go to Control Panel -> System and Security -> Windows Firewall -> Allow a
 program or feature through Windows Firewall, user might need to click "Change settings" button at the
 upper right corner of "Allow programs to communicate through Windows Firewall" window to enable user to
 edit the settings.
- 2. Click "Allow another program".
- 3. In the Add a Program window, click "**Browse...**" button, then go to C:\Program Files (x86)\FileZilla Server.
 - a. Select "FileZilla server.exe" and click "Open" button.
 - b. Select "FileZilla Server" in the Programs list, then click "Add" button.
- 4. Click "Allow another program".
- 5. In the Add a Program window, click "**Browse...**" button, then go to C:\Program Files (x86)\FileZilla Server.
 - a. Select "FileZilla Server Interface.exe" and click "Open" button.
 - b. Select "FileZilla Server Interface" in the Programs list, then click "Add" button.
- 6. Click "Allow another program".
- 7. In the Add a Program window, click "**Browse...**" button, then go to c:\usr\bin.
 - a. Select "snmptrapd.exe" and click "Open" button.
 - b. Select "snmptrapd" in the Programs list, then click "Add" button.
- In the "Allow programs to communicate through Windows Firewall" window, tick both Home/Work (Private) and Public checkboxes for the following: FileZilla Server, FileZilla Server Interface, snmptrapd.
- 9. Then click "OK" button.

The added program is now allowed to communicate through Windows Firewall.

4. GDC TMS SOFTWARE INSTALLATION

4.1. Install GDC TMS Software

1. Locate the file **TMS-GDC-4.x.xxx.exe**; double click it to start the installation. (Larger value of 4.x.x.x means later version).



2. "Installer Language" window is displayed. Select your preferred language. Default language used is "English". Click "**OK**" to proceed to the next step.



 "Welcome to the GDC-TMS 4.X.XXXX.XX Setup Wizard" window is displayed, click "Next >" to proceed to the next step.



4. "License Agreement" window is displayed. Click "I Agree" to proceed to the next step.

ioonioo / groomoni					-
Please review the license I	terms before inst	alling GDC-TMS	4.1.8113.0	5151231.	-
Press Page Down to see t	ne rest of the agr	eement.			
DC COMMERCIAL LICEN	SE AGREEMENT				
Agreement version 0.2 Dr	aft				
IMPORTANT-READ CAREF	FULLY:				III
1. This GDC Commercial Li agreement between you ("Licensee") and GDC Tec product(s) accompanying software and may include	cense Agreemen (either an individu hnology ("GDC T this Agreement, "online" or electr	t ("Agreement" ual or a legal en ech") for the G which include(s ronic document) is a legal itity) DC software) computer ation("Licens	ed Softwa <mark>re</mark> ").	
· · · ·			•		*
If you accept the terms of agreement to install GDC-7	the agreement, IMS 4.1.8113.05	dick I Agree to 151231.	continue, Y	ou must accept	the

5. "Choose Install Location" window is displayed. Use default settings, click "Install" to start installation.

Choose Install Location	
Choose the folder in which to inst	tall GDC-TMS 4.1.8113.05151231.
Setup will install GDC-TMS 4.1.81 folder, click Browse and select an	13.05151231 in the following folder. To install in a different other folder. Click Install to start the installation.
Destination Folder	
Destination Folder C:\Program Files (x86)\GDC\1	TMS Browse,
Destination Folder C:\Program Files (x86)\GDC\7 Space required: 122.5MB	TMS Browse
Destination Folder C:\Program Files (x86)\GDC\T Space required: 122.5MB Space available: 333.5GB	TMS Browse
Destination Folder C:\Program Files (x86)\GDC\T Space required: 122.5MB Space available: 333.5GB ullsoft Install System v2.46	TMS Browse,

"Completing the GDC-TMS 4.X.XXXXXX Setup Wizard" window is displayed. Tick the "Run GDC-TMS 4.X.XXXXXXX" checkbox, and click "Finish" to exit installation wizard.

Installation of GDC TMS Software is complete.

4.2. Generate Client-Key

At initial launch of GDC TMS software, user is required to load a license. To request a license, user needs to generate a client key, then send to GDC personnel to get a TMS license.

You have to send the generated GDC_Client_Key.gck file to GDC personnel in order to get a TMS license file.

1. Click "Generate Client Key" button.

GDC-TMS		? ×
Theatr	e Managemen	t System
Unable to read license fi	le	
Click 'Generate Client-Key' to	generate a new client-key for yo	our TMS now.
or		
Click 'Load License' to load yo	our TMS license.	
		
	Generate Client Key	Load License Close

2. "Welcome to the GDC Client Key Wizard" window is displayed, click "Next" to proceed to next step.



3. "Customer Information" window is displayed. Enter value for "User Name", "Company", "E-mail" fields, then click "**Next**" to proceed to next step.

	? <mark>.</mark>
G 😍 GDC	Client Key Wizard v1.1.1020
Custome	r Information
Please specif	fy your information for client-key generation.
User Name:	gdctech
Company:	GDC Technology
E-mail:	gdctech@gdc-tech.com
	Next Cancel

4. "Save your client-key" window is displayed. Click "**Browse...**" button and specify the location where you want to save your client-key.



5. "Open Directory" window is displayed. Select "Desktop" as location to save the client-key file, then click "Select Folder".



6. "Save your client-key" window is displayed. Click "Next" to generate client-key.



7. "Finish" window is displayed. Click "Finish" to exit GDC Client Key Wizard.



Important Note: User needs to send the generated GDC_Client_Key.gck file to GDC personnel in order to get a TMS license file.

4.3. Load License File to TMS

Once GDC personnel provide the TMS license file, user can now load the license to TMS. There are two ways to load the license of TMS. One is to load the license by running the TMS application, then selecting "Load License ..." button in the "Unable to read license file" window and the other is to load through License Assistant.

4.3.1. Loading License by Running TMS

1. Access Windows >> All Programs >> GDC - TMS >> GDC - TMS.



2. "Unable to read license file" window is displayed. Click "Load License..." button.



3. "Open File" window is displayed. Specify the location of the license file [license.tms4License], then click "**Open**" button.



4. "License file loaded successfully!" message will be displayed. Click "**OK**" and restart GDC-TMS software to start using the system.



4.3.2. Loading through License Assistant

1. Access Windows >> All Programs >> GDC - TMS >> License Assistant.



2. "Please Select your license." window is displayed. Click "Load License..." button.



3. "Open File" window is displayed. Specify the location of the license file [license.tms4License], then click "**Open**" button.



4. "License file loaded successfully!" message will be displayed. Click "**OK**" and restart GDC-TMS software to start using the system.



Double click GDC-TMS icon to start the application, the following users and passwords have been created to access TMS:

User Level	User Accounts
1	admin (password: 123456, access level: 3) - the highest
2	superuser (password: 123456, access level: 2)
3	show manager (password: 123456, access level: 1)
4	projectionist (password: 123456, access level: 0) - the lowest

Important Note: To utilize theatre wide content and data transfer function TMS, playback servers version must be 7.6g and above. For each playback server, its two network interfaces (eth0 and eth1 for control channel and content channel respectively) should be up and working.

5. GDC TMS DATA TRANSFER SETTINGS

5.1. TMS Server Data Directory

For contents transfer between TMS Server and playback servers, the user needs to configure to use <u>either</u> the FTP settings or the CIFS settings.

5.1.1. FTP Settings

Configure the FTP settings for Data Transfer between TMS Server and Playback Servers.

1. Access Windows >> All Programs >> GDC - TMS >> System Configuration.



2. "GDC-TMS" window is displayed. Double-click the "Data and Transfer" icon in the list.



3. "Data and Transfer" window is displayed. Ensure that the Data Directory, Transfer Source Settings and Transfer Source Info values are properly configured.

Default data directory of TMS is set "C:\Program Files (x86)\GDC\TMS\data" but user can opt to change it.

For the Transfer Source Info value, select "**FTP**" as Protocol and enter the Source IP that belongs to the current TMS Server. For example: 10.128.1.129.

Data Director	·y :	
C:\Program	Files (x86)\GDC\TMS\	data Browse
Autoverify Co	ontent	Auto Content Transfer
🔽 Enable A	utoverify Content	Enable Auto Content Transfer
Automatic KD	M Transfer	
🔽 Enable KI	OM transfer after inge	est
Content Sour	ce Selection	
	Oefault	Custom
Transfer Sour	ce Setting	
	Oefault	Custom
Transfer Sche Preference ti	edule Setting me: 17:00 🐥	
Transfer Sour	ce Info	
Protocol:	FTP	•
Source IP:	192.168.3.140	
Prefix Path:		
Username:	ftpuser	
Password:	•••••	
Í	URL: ft	p://192.168.3.140

4. Ensure that the FileZilla Server is currently running in the system tray, click the "FileZilla Server" icon to open the FileZilla Server Interface.



5. "FileZilla Server Interface" window is displayed. Click "Edit", then select "Users".



6. "Users" window is displayed. Click "Shared folders", then click "ftpuser" in the Users list.

age:	Shared folders			Users	
General	Directories	Aliases	Read	ftpuser	
Speed Limits	H C:\Program Files (Write	45	
			Directories		
			+ Subdirs	Add Remove	
	Add	Remove Renam	e Set as home dir	Rename Copy	
	A directory alias wi path. Separate mu If using aliases, ple	II also appear at the spec tiple aliases for one direc ase avoid cyclic director	offied location. Aliases must story with the pipe charact y structures, it will only cor	t contain the full local er () fuse FTP clients.	
ОК					

7. In the Shared folders section, double click the area below the Directories, check that the directory is pointing to the same directory set in the Data and Transfer window in step 3. In this scenario, data directory is set to "C:\Program Files (x86)\GDC\TMS\data". Click "OK" to close the window.

] 🔒 📙 🚨 💆 sers	🦉 /C/ Cı\ 🎫 ▾			
Page:	Shared folders	_	Users	
General Shared folders Speed Limits IP Filter	Directories Aliases H C:\Program Files (Files V Read Write Delete	ftpuser	
ОК	Please select a folder that of the selected user accounce C:\Program Files (x86)\sC C: A director path. Se If using a	t should be added to the fount. DC\TMS\data TMS data aggeformats imageformats Language Logs Microsoft.VC80.CRT Microsoft.VC90.CRT sqldrivers	Iders list	Progress Spe

8. Click "**OK**" in the "Users" window to save the settings. Check if the "FileZilla Server Interface" window shows "Done retrieving/sending account settings".

FileZill	a server			
File Ser	ver Edit ?			
78	🛯 🕵 🕵 🤶 🖊 C/ C/	 •		
FileZilla Ser Copyright 2 Connected Logged on Retrieving a Done retrieving a Done sending	ver version 0.9.27 beta 001-2006 by Tim Kosse (tim.kosse) to server , waiting for authentication account settings, please wait ving account settings count settings, please wait ing account settings.	⊇filezilla-project.org) ⊇filezilla		
ID 🔿	Account	IP	Transfer	
•	m.			•

FTP Settings is now complete.

Data Directory location will be at C:\Program Files (x86)\GDC\TMS\data\data\repository\

5.1.2. CIFS Settings

Important Note:

For contents transfer between TMS Server and playback servers, you need to set to use **either** the FTP settings **or** the CIFS settings. <u>If you have configured FTP settings above, you do not need to configure CIFS settings</u> <u>below.</u>

Configure the CIFS settings for Data Transfer between TMS Server and Playback Servers.

1. Go to C:\Program Files (x86)\GDC\TMS\data, right-click data folder, click "Properties" of it.



2. Click "Sharing" tab, then click "Advanced Sharing" button.

eneral	Sharing	Security	Previous Versions	Customize
Netwo	ork File and	f Folder Sh	aring	
M	data Not Sł	nared		
Netwo Not S	ork Path: hared			
S	hare			
	Advance	d Sharing.		
Passw Peopl comp	ord Protect e must hav uter to acc	ction ve a user a cess share	account and passwo d folders.	rd for this
To ch	iange this	setting, us	e the <u>Network and S</u>	haring Center.

3. Click the checkbox "Share this folder", then click "OK".

ettings Share name:				
data				
Add	Remove			
Limit the numbe	r of simultan	eous users t	o:	20
Comments:				
Commercer				
Dermissions	Codhi]		
Fermissions		U.S.		

 Access Windows >> All Programs >> GDC - TMS >> System Configuration. Double-click the "Data and Transfer" icon in the list. 5. "Data and Transfer" window is displayed. Ensure that the Data Directory, Transfer Source Settings and Transfer Source Info values are properly configured.

For the Transfer Source Info value, select "**CIFS**" as Protocol and enter the Source IP that belongs to the current TMS Server. For example: 10.128.1.129

Enter the Prefix Path "/data", username and password of current account logged in to TMS Server.

Data Director	ry:			
C:\Program	Files (x86)\GDC\TMS	data Browse		
Autoverify Content		Auto Content Transfer		
🔽 Enable A	utoverify Content	Enable Auto Content Transfer		
Automatic KD	M Transfer			
🔽 Enable KI	OM transfer after inge	est		
Content Sour	ce Selection			
	Oefault	Custom		
Transfer Sou	rce Setting			
	🔘 Default	Custom		
Transfer Sche Preference ti	edule Setting			
Transfer Car	en Tafa			
iransier sou		5444 5444		
Protocol:	CIFS	*		
Source IP:	192, 168, 3, 140			
Prefix Path:	/data			
Username:	tms_user			
Password:	•••••			
	URL: smb:	//192.168.3.140/data		

CIFS Settings is now complete.

Data Directory location will be at C:\Program Files (x86)\GDC\TMS\data\data\repository\

Website

Contact Us







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