

EFMS V6.40P003 Update Guide

EFMS,PostgresSQL Update Installation Procedure	2
Summary	2
EFMS V6.40 Upgrade Method	2
PostgreSQL Upgrade Procedure	3
Summary	3
Supported Environment	3
Required Disk Space	3
PostgreSQL Upgrade Sequence	3
Note	10

EFMS, PostgresSQL Update Installation Procedure

Summary

This section explains how to upgrade your EFMS Server. Upgrade requires 2 steps. Step1: Upgrade EFMS V6.40. Step2: Upgrade PostgreSQL

EFMS V6.40 Upgrade Method

- When updating EFMS, please make sure to stop EFMS server service.
 If EFMS server doesn't run after updating, run EFMS installer, install EFMS Runtime Environment, and cancel EFMS application installation.
- 2. Copy EfmsServer-ForPostgreSQL-6.40.0010.exe into an appropriate folder.
- 3. Now, execute it. Installation screen appears. Define folder and other necessary items, then start to install.
- 4. During the installation, the About DB DATA dialog box appears. Please select a keep the existing DB data and precede the installation.
- 5. After upgrading EFMS, please upgrade PostgreSQL next.

PostgreSQL Upgrade Procedure

Summary

This tool upgrades PostgreSQL v9.5.* to v12.4.* on a Windows OS. Use this tool only if your environment corresponds to the condition described in the document.

Supported Environment

64-bit Operating Systems:

Windows 10, Windows 8.1, Windows Server 2016, Windows Server 2019, Windows Server 2012 R2, Windows Server 2012

EFMS Versions: 6.40

PostgreSQL:

• PostgreSQL9.5.* should be started.

🏟 postgresql-9.5 - PostgreSQL Server 9.5 Provides relational database storage. Running Automatic Network Service

• PostgreSQL12.4.* should not be installed. Please ensure it is not listed on the Start menu.

Required Disk Space

Disk Space

- The drive to store backup data: Requires 10% extra of the current data folder*.
- PostgreSQL12.4 installation drive: Requires 500Mbyte extra space than the current data folder*.
- * The data folder of PostgreSQL9.5 is usually located at the following:

C:\Program Files\PostgreSQL (x86)\9.5\data

PostgreSQL Upgrade Sequence

Please follow steps below.

Note: It takes long time depending on database size. Please check Note on P10.

1. Run EFMSPostgreSQLUpdater9.5.9-12.4.exe.

2. Select Language English.

SeFMS postgreSQL Updater S	Setup	8
	Welcome to the EFMS postgreSQL Updater Setup Wizard	
	Select the setup language: English (United States)	•
	Next > Can	cel

3. Click [Next].

🚳 EFMS postgreSQL Updater S	Setup 🔀
	Welcome to the EFMS postgreSQL Updater Setup Wizard
	The Setup Wizard will run EFMS postgreSQL Updater on your computer. Click "Next" to continue or "Cancel" to exit the Setup Wizard.
	< Back Next > Cancel

4. Click [Next].



5. Click [Run] after confirming free space.



The Setup Wizard starts running the updater. It starts Backup and it takes time depending of database volume. Please check Note later.

6. Click [Yes].



PostgreSQL12.4 installer is displayed.

7. Click [Next].

If you do not see this screen, click it on the taskbar so that it comes to the front.

	_		\times
Setup - PostgreSQL			
Welcome to the PostgreSQL Setup Wizard.			
< Back Ne	ext >	Can	cel
	Setup - PostgreSQL Welcome to the PostgreSQL Setup Wizard.	Setup - PostgreSQL Welcome to the PostgreSQL Setup Wizard.	Setup - PostgreSQL Welcome to the PostgreSQL Setup Wizard.

8. Select installation folder and Click [Next].

Setup	-		×
Installation Directory			
Please specify the directory where PostgreSQL will be installed.			
Installation Directory C:\Program Files\PostgreSQL\12			
VMware InstallBuilder Karken Kar	ext >	Can	cel

9. Click [Next] on Select Components screen.

Setup	- 🗆 X
Select Components	
Select the components you want to install; clear the con you are ready to continue.	nponents you do not want to install. Click Next when
 ✓ PostgreSQL Server ✓ pgAdmin 4 Stack Builder ✓ Command Line Tools 	Click on a component to get a detailed description
VMware InstallBuilder	< Back Next > Cancel

10. Select data folder and Click [Next].

		-		×
Data Directory				
Please select a directory under which to store your data. Data Directory ::\Program Files\PostgreSQL\12\data	1 2			
VMware InstallBuilder	< Back	Next >	Can	cel

11. Click [Next].

Ensure you do not change the Password.

🍯 Setup				_		\times
Password						
Please provide a p	assword for the database	e superuser (eBD	DM2).			
Password	•••••					
Retype password	•••••					
VMware InstallBuilder	·					
			< Back	Next >	Cano	el

12. Click [Next].

Ensure you do not change the port.

📲 Setup	-		×
Port			Þ.
Please select the port number the server should listen on. Port 5432			
VMware InstallBuilder Kack	Vext >	Can	cel

13. Click [Next].

Ensure not to change the Locale.

📲 Setup	_		×
Advanced Options			
Select the locale to be used by the new database duster. Locale C			
VMware InstallBuilder			
< Back N	ext >	Can	cel

14. Click [Next].

Setup	-		×
Pre Installation Summary			
The following settings will be used for the installation::			
Installation Directory: C:\Program Files\PostgreSQL\12 Server Installation Directory: C:\Program Files\PostgreSQL\12 Data Directory: C:\Program Files\PostgreSQL\12\data Database Port: 5432 Database Superuser: eBDM2 Operating System Account: NT AUTHORITY\NetworkService Database Service: postgresql.x64-12 Command Line Tools Installation Directory: C:\Program Files\PostgreSQL\12 pgAdmin4 Installation Directory: C:\Program Files\PostgreSQL\12\pgAdmin 4			< >
VMware InstallBuilder Sack Ne	ext >	Can	cel

15. Click [Next].

💞 Setup		-		<
Ready to Install				
Setup is now ready to begin installing PostgreSQL on your comput	ter.			
VMware InstallBuilder	< Back	Next >	Cancel	

The Setup Wizard starts the installation.

16. Click [Finish].

Setup	- 🗆 X
	Completing the PostgreSQL Setup Wizard Setup has finished installing PostgreSQL on your computer.
PostgreSQL	
	< Back Finish Cancel

The Setup Wizard starts updating database of EFMS after clicking Finish. It takes time depending of database size. Please check Note later.

17. Click [Yes].

postgreSQL9.5	\times
Are you sure you want to keep postgreSQL9.5 server application? If click No then postgreSQL9.5 is uninstalled	d.
<u>Y</u> es <u>N</u> o	

Even if you choose to uninstall PostgreSQL9.5 but the uninstaller doesn't delete data. Please delete manually. The data folder of PostgreSQL is usually located at the following: C: \Program Files\PostgreSQL (x86)\9.5\data

18. Click [Finish]



PostgreSQL update is complete

Note

Backup and restore of Database will take several hours if the number of devices and counters are huge. This tools functionality is similar to the backup and restore functions of EFMS Client. Backup takes around 30 minutes and restore will take around 5 hours for the below condition.

Devices	300 devices
Departments	200 departments
Users	3,000 users
Duration	3 month

It is strongly recommended to take backup data from menu [Tools] > [Database Maintenance] on EFMS client for recovery.

PostgreSQL12.4 installation will register PostgreSQL in the control panel.

If the update fails during the restore process, then please check and execute the following steps below.

- If you selected [YES] at a Step 6 [Keep PostgreSQL9.5 data folder] then please check free disk space for data folder of PostgreSQL12.4 installation and execute this tool again.
- If you selected [No] at a Step 6 [Delete PostgreSQL9.5 data folder], check the free disk space for the data folder of PostgreSQL12.4 installation. If the disk is short of space, delete unnecessary files to secure the free disk space, and then execute the following steps.

1. Run [pgAdmin 4] from Start menu.



2. From browser [Select / Expand Servers]



3. Double click [PostgreSQL12.4].



4. Enter password "toshiba" and click [OK].



Note: If user isn't 'eBDM2' then please change Username by steps below.

- 1. Right click PostgreSQL12 on tree.
- 2. Select Properties.
- 3. Select Connection tab.
- 4. Input 'eBDM2' for Username.
- 5. Click Save button.

5. Displays PostgreSQL 12

Pg pgAdmin 4	× +			-		×
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Pg Admin						≡
Browser 🗊 🖽 🗖	Dashboard Properties	SQL	Statistics	Depen	der <	>)a;
✓	Server sessions 6.0 5.0 Total 4.0 Idle 3.0 2.0 1.0 0.0					
	Transactions per second 3.00 2.50 Transactions 0 Commits 2.00 Rollbacks 1.50 0.50					
	0.00 Tuples in 1.00 Inserts Updates Deletes				ц	

6. Right click [Databases] and select [Create]->[Database].



7. Enter "ebdm2" in "Name" and "eBDM2" in "Owner", and then click [Save].



Note

If the following message appears when you double-click PostgreSQL12.4 and create the "ebdm2" database, the database has not been deleted. You can skip the following steps. Check the free disk spaces for the backup dump data and the PostgreSQL12.4 installation, and then execute the update tool again.

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🥮 Create - Datab	ase	_		_	_	_		_	×
G Error saving p	roperties								×
D ERROR: dat	abase "eb	dm2" already	exists						
c									
C								~ 0	ж
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8. Open tree and right click [ebdm2]. Please select [Restore].



9. Select backup file in [Filename]. Select [eBDM2] in "Rolename". Click [Restore].

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Pg/Admin							Ξ
B Restore (Database: ebo	lm2)						27 4
General Restore opt	ions						
Format	Custom or tar						<u> </u>
Filename						•	••
Number of jobs							
Role name	Select an item						•
i ?			>	Cance		Restor	e
	0.50						

10. Run EFMS Server service from service control panel.

EFMS 64 bit service registered then please ensure to start the service with start up type as "Automatic".

If the steps have been executed as mentioned in this document, then your PostgreSQL version will updated to v12.4.