FUjitsu

FUJITSU Enterprise Postgres 10



Installation and Setup Guide for Client

Windows/Linux

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Preface

Purpose of this document

This document describes how to install and set up the "FUJITSU Enterprise Postgres client feature".

Intended readers

This document is intended for those who install and operate FUJITSU Enterprise Postgres.

Readers of this document are assumed to have general knowledge of:

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PostgreSQL
SQL
Windows
PostgreSQL
SQL
Linux

Structure of this document

This document is structured as follows:

Chapter 1 Overview of Installation

Describes the features that can be installed, and provides an overview of installation methods

Chapter 2 Installation and Uninstallation of the Windows Client

Describes how to install the FUJITSU Enterprise Postgres client feature (Windows client)

Chapter 3 Installation and Uninstallation of the Linux Client

Describes how to install the FUJITSU Enterprise Postgres client feature (Linux client)

Chapter 4 Setup

Describes the setup procedures to be performed after installation completes

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Chapter 1 Overview of Installation

This chapter provides an overview of FUJITSU Enterprise Postgres installation.

1.1 Features that can be Installed

FUJITSU Enterprise Postgres provides features to enable access to the database from a variety of platforms and languages, as the connection environment for the client and the database server.

The FUJITSU Enterprise Postgres client package must be installed on the client system to use these features.

The following table shows the relationship between the platforms and the features provided by client packages.

		Feature						
Platfor m	JDB C	ODB C	.NET Data Provider	C language (libpq)	Embedded SQL (ECPG) in C language	Embedded SQL (ECOBPG) in COBOL	High-speed data load	pgAdmin
Windo ws	Y	Y	Y	Y	Y	Y	Y	Y
Linux	Y	Y		Y	Y	Y	Y	

Y: Supported

1.2 Installation Types

The following three installation types are available for FUJITSU Enterprise Postgres:

- New installation
- Reinstallation
- Multi-version installation

1.2.1 New Installation

In initial installation, the FUJITSU Enterprise Postgres client feature is installed for the first time.

1.2.2 Reinstallation

Perform reinstallation to repair installed program files that have become unusable for any reason.

1.2.3 Multi-Version Installation

Perform multi-version installation to install different versions to the installed program files separately.

1.3 Installation Procedure

The following installation procedures are available for FUJITSU Enterprise Postgres:

- Installation in interactive mode
- Installation in silent mode

Select the installation procedure that corresponds to your environment.

1.3.1 Installation in Interactive Mode

Interactive mode enables installation to be performed while the required information is entered interactively.

In interactive mode installation, the FUJITSU Enterprise Postgres installer automatically determines the installation state of FUJITSU Enterprise Postgres. Install FUJITSU Enterprise Postgres using one of the following installation types in accordance with the installation state:

- New installation
- Reinstallation
- Multi-version installation

1.3.2 Installation in Silent Mode

Silent mode enables installation to be performed without the need to enter any information interactively.

New installations and multi-version installations can be performed in silent mode.

1.4 Uninstallation

Uninstallation removes the system files of the installed FUJITSU Enterprise Postgres client feature.

Chapter 2 Installation and Uninstallation of the Windows Client

This chapter explains how to install and uninstall the Windows client.

2.1 Operating Environment

This section describes the operating environment required to use the Windows client.

2.1.1 Required Operating System

One of the following operating systems is required to use the Windows client:

- Windows(R) 7 Home Premium
- Windows(R) 7 Professional
- Windows(R) 7 Enterprise
- Windows(R) 7 Ultimate
- Windows(R) 8.1
- Windows(R) 8.1 Pro
- Windows(R) 8.1 Enterprise
- Windows(R) 10 Home
- Windows(R) 10 Education
- Windows(R) 10 Pro
- Windows(R) 10 Enterprise
- Microsoft(R) Windows Server(R) 2008 Standard
- Microsoft(R) Windows Server(R) 2008 Enterprise
- Microsoft(R) Windows Server(R) 2008 Datacenter
- Microsoft(R) Windows Server(R) 2008 Foundation
- Microsoft(R) Windows(R) Web Server 2008
- Microsoft(R) Windows Server(R) 2008 Standard without Hyper-V
- Microsoft(R) Windows Server(R) 2008 Enterprise without Hyper-V
- Microsoft(R) Windows Server(R) 2008 Datacenter without Hyper-V
- Microsoft(R) Windows Server(R) 2008 R2 Datacenter
- Microsoft(R) Windows Server(R) 2008 R2 Enterprise
- Microsoft(R) Windows Server(R) 2008 R2 Standard
- Microsoft(R) Windows Server(R) 2008 R2 Foundation
- Microsoft(R) Windows(R) Web Server 2008 R2
- Microsoft(R) Windows Server(R) 2012 Datacenter
- Microsoft(R) Windows Server(R) 2012 Standard
- Microsoft(R) Windows Server(R) 2012 Essentials
- Microsoft(R) Windows Server(R) 2012 Foundation

- Microsoft(R) Windows Server(R) 2012 R2 Datacenter
- Microsoft(R) Windows Server(R) 2012 R2 Standard
- Microsoft(R) Windows Server(R) 2012 R2 Essentials
- Microsoft(R) Windows Server(R) 2012 R2 Foundation
- Microsoft Windows Server 2016 Datacenter
- Microsoft Windows Server 2016 Standard
- Microsoft Windows Server 2016 Essentials

2.1.2 Related Software

The following table lists the software compatible (that can operate) with the Windows client.

Before using any of these, confirm that the OS supports the software.

No.	Software name	Version
1	Visual Studio	2015 2017
2	.NET Framework	4.5 4.6 4.7
3	C compiler (*1)	-
4	JDK or JRE	Java SE 6 or later
5	NetCOBOL NetCOBOL for .NET	(*2) (*3)

Table 2.1 Related software

*1: Only operations using the C compiler provided with the operating system are guaranteed.

*2: NetCOBOL is available in the following editions:

- NetCOBOL Base Edition V10.5.0 or later
- NetCOBOL Standard Edition V10.5.0 or later
- NetCOBOL Professional Edition V10.5.0 or later
- NetCOBOL Enterprise Edition V10.5.0 or later

*3: NetCOBOL for .NET is available in the following editions:

- NetCOBOL Standard Edition for .NET V5.0.0 or later
- NetCOBOL Professional Edition for .NET V5.0.0 or later
- NetCOBOL Enterprise Edition for .NET V5.0.0 or later



Either the JDK or JRE included with Interstage Application Server, or the Oracle JDK or JRE can be used. It is recommended that the JDK or JRE included with Interstage Application Server is used.

The following table lists servers that can be connected to the Windows client.

Table 2.2 Connectable servers

OS	Software name
Windows Linux	- FUJITSU Software Enterprise Postgres Advanced Edition 9.5 or later
	- FUJITSU Software Enterprise Postgres Standard Edition 9.4 or later
Solaris	- FUJITSU Software Enterprise Postgres Standard Edition 9.6 or later

2.1.3 Excluded Software

FUJITSU Enterprise Postgres

The Windows client cannot coexist with the FUJITSU Enterprise Postgres Community Edition (hereafter, "CE") client.

[Information

If installing the CE client in an environment where the SE or AE client exists, the SE or AE client will be uninstalled, and the CE client will be installed in its place.

To use the SE or AE client at a later time, uninstall the CE client and then reinstall the SE or AE client.

Other products

There are no exclusive products.

2.1.4 Hardware Environment

The following hardware is required to use the Windows client.

Memory

At least 256 MB of memory is required.

Mandatory hardware

None.

2.1.5 Disk Space Required for Installation

The disk space shown below is required for new installation of the Windows client.

At the Windows (32-bit) client installation destination:

482 MB

At the Windows (64-bit) client installation destination:

517 MB

System folder:

100 MB

2.1.6 Supported System Environment

This section describes the supported system environment.

TCP/IP protocol

FUJITSU Enterprise Postgres supports version 4 and 6 (IPv4 and IPv6) of TCP/IP protocols.



Do not use link-local addresses if TCP/IP protocol version 6 addresses are used.

File system

You can install FUJITSU Enterprise Postgres only if the system folder is an NTFS volume.

2.1.7 Versions of Open-Source Software Used as the Base for FUJITSU Enterprise Postgres Drivers

The following table lists the versions of open-source software used as the base for the various FUJITSU Enterprise Postgres drivers.

Driver	Open-source software version
.NET Data Provider	Npgsql 3.2.6
JDBC	pgjdbc 42.2.1
ODBC	psqlodbc 10.01.0000
libpq	PostgreSQL 10.3

2.2 Installation

This section explains how to install the Windows client.

2.2.1 Pre-installation Tasks

This section describes the operations to be performed before installing the Windows client.

hosts file settings

Using an editor, add the IP address and server name of the connected server to the \System32\drivers\etc\hosts file in the folder where Windows is installed.

🌀 Note

For Windows(R) 7, Windows(R) 8.1, or Windows(R) 10, assign write privileges in advance to the user responsible for editing the hosts file.

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Check the installed product and determine the installation method

In Windows, click [All Programs] or [All apps], then [Fujitsu], and then [Uninstall (middleware)]. In the displayed window, check the installed products.

If the Windows client is already installed, determine the installation method to use:

- Reinstallation
- Multi-version installation

Remove applied updates

If you perform reinstallation as the installation method, remove applied updates using the procedure shown below.



If a product is installed without removing applied updates, the following problems will occur:

- Performing reinstallation

If an update with the same update and version number is applied, an error informing you that the update has already been applied is displayed.

1. Display the applied updates

Execute the following command to display the applied updates:

C:\Program Files (x86)\Fujitsu\UpdateAdvisor\UpdateAdvisorMW>uam showup

2. Remove the updates

Execute the command below to remove the updates. If an update with the same update number was applied more than once, the updates are removed in order, starting from the highest version number.

C:\Program Files (x86)\Fujitsu\UpdateAdvisor\UpdateAdvisorMW>uam remove -i update-number

Confirm service

The Windows Installer service must be running.

Confirm Path system environment variable

Ensure that the Path system environment variable includes "%SystemRoot%\system32".

2.2.2 Pre-installation Considerations

This section describes points that the user must take into account prior to installation.

- In any of the following cases, the command given below must be executed to switch to installation mode before performing installation. After installation is complete, the next command given below must be executed to switch to execution mode.
 - A terminal server is installed in application server mode on Windows Server 2008
 - A remote desktop service is installed in application server mode on Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2 or Windows Server(R) 2016

Before installation:

CHANGE USER / INSTALL

After installation:

CHANGE USER / EXECUTE

- The following window may be displayed when the installation program is executed.

After Installation	E Contraction of the second	×
	After installation, please click Next.	
	< <u>Back</u> Cancel	

If the above window is displayed, follow the procedure below:

- 1. Perform the steps in the installation procedure until the [InstallShield Wizard Complete] window is displayed.
- 2. Click [Next] in the [InstallShield Wizard Complete] window.
- 3. The following window is displayed. Click [Finish].



4. Restart the system.



- If the [User Account Control] dialog box is displayed when installation or uninstallation starts, click [Yes] to continue the operation.

If [No] is clicked, the [Error] dialog box will be displayed because continuing is not permitted. Click [Retry] in the displayed [Error] dialog box to proceed with installation or uninstallation. To end operations, click [Cancel].

- If installation or uninstallation is suspended or processing terminates abnormally, the [Program Compatibility Assistant] dialog box may be displayed.

If this happens, click [This program installed correctly] or [This program uninstalled correctly] and continue operation.

2.2.3 Installation in Interactive Mode

The installation procedure is described below.

関 Point

For installation in interactive mode, default values are set for the installation information. The following settings can be changed for a new installation or a multi-version installation:

- Installation directory

1. Stop applications and the client program

If the installation method is one of the following, the applications and the client program must be stopped:

- Reinstallation

Before starting the installation, stop the following:

- Applications that use the product
- pgAdmin

2. Insert the DVD

Insert the client program DVD into the DVD drive.

3. Run the installation

The installation menu is displayed. Click [Installation].

4. Select the product to install

Select the product to install, and then click [Next]. If a selected product can only be reinstalled, refer to "6. Check the settings".

Information

If multi-version installation is possible, the [Select Installation Method] window is displayed for each selected product. Select "Multi-version installation" and click [Next].

5. Confirm the contents for installation

The [Confirm installation] window will be displayed.

Click [Next] to start the installation.

To modify the settings, select [Modify], and then click [Next]. Follow the on-screen instructions.

6. Check the settings

The [Confirm installation] window will be displayed for reinstallation, or if the installation information is modified.

Click [Install] to start the installation.

To modify the settings again, click [Back].

7. Completion of installation

The completion window is displayed. Click [Finish].



If subsequently installing .NET Framework

Install .NET Framework and then refer to "2.4 Registering .NET Data Provider" to set up .NET Data Provider.

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2.2.4 Installation in Silent Mode

Installation in silent mode can be performed only when the installation method is one of the following:

- New installation
- Multi-version installation



Refer to the FUJITSU Enterprise Postgres product website for information on installation in silent mode, such as the installation parameters and error messages.

The installation procedure is described below.

1. Insert the DVD

Insert the client program DVD into the DVD drive.

The [Install Menu] window is displayed. Click [Finish].

2. Create an installation parameters CSV file

Consider the server type or features that will be required for system operations, and then create an installation parameters CSV file that uses the following specification format.

```
sectionName, parameterName, value
sectionName, parameterName, value
:
```

🛐 Information

The template for the installation parameters CSV file is "Z:\sample_sample_windows.csv (Z is the drive into which the DVD is inserted.).

3. Start the command prompt

In Windows, right-click [Command Prompt] and then select [Run as administrator].

4. Run the installation

Execute the following command:

Z:\>silent.bat c:\temp\inspara.csv

Z: The drive into which the DVD is inserted.

c:\temp\inspara.csv: The installation parameter CSV file name.

If the silent installer ends in an error, a message is output to the log file and return values are returned.

2.3 Uninstallation

This section describes the procedure for uninstalling the Windows client.

G Note

- Before uninstalling the product, close the product program and all applications that are using it.
- Log in using an account that has administrator privileges and then execute the command, or switch to an account that has administrator privileges and then uninstall the product.

2.3.1 Uninstallation in Interactive Mode

The uninstallation procedure is described below.

🛐 Information

If an error occurs while the product is being uninstalled, refer to "Uninstall (middleware) Messages" in the FUJITSU Enterprise Postgres product website, and take the required action.

1. Stop applications and the client program

Before starting the uninstallation, stop the following:

- Applications that use the product
- pgAdmin

2. Start the Uninstall (middleware) tool

In Windows, click [All Programs] or [All apps], then [Fujitsu], and then [Uninstall (middleware)].

3. Select the software

Select the product to be uninstalled from [Software Name], and then click [Remove].

4. Start the uninstallation

Click [Uninstall].

5. Finish the uninstallation

The uninstallation completion window is displayed. Click [Finish].

The installation folder may remain after uninstallation. If it is not required, delete it.

6. Stop the Uninstall (middleware) tool

The [Uninstall (middleware)] window is displayed. Click [Close].

2.3.2 Uninstallation in Silent Mode

The uninstallation procedure is described below.

1. Stop applications and the client program

Before starting the uninstallation, stop the following:

- Applications that use the product
- pgAdmin

2. Start the command prompt

In Windows, right-click [Command Prompt] and then select [Run as administrator].

3. Start the uninstaller

Execute the command below.

The installation folder may remain after uninstallation. If it is not required, delete it.

Example

X:> installationFolder\suninst.bat

X: Drive where the product is installed

G Note

On Windows(R) 7, Windows Server(R) 2008, and Windows Server(R) 2008 R2, an empty folder may remain in the [Start] menu after the uninstallation - if this happens, then click [Start], point to [All Programs], right-click one of the options below, and then click [Delete]: The notation "x SPz" indicates the version and level of the FUJITSU Enterprise Postgres client feature.

- FUJITSU Enterprise Postgres Client (32bit) x SPz
- FUJITSU Enterprise Postgres Client (64bit) x SPz

4. Check the uninstallation results

The uninstaller result is output to the log file.

Log file

In "xyz" below, "x" is the product version, "z" is the product level, and for this release, "y" is 0.

64-bit product

%TEMP%\fsep_CLIENT64_xyz_uninstall.log

32-bit product

%TEMP%\fsep_CLIENT32_xyz_uninstall.log

Return values

The following return values are returned:

Return values	Meaning
0	Uninstallation completed successfully.
64	Uninstallation failed because Uninstall (middleware) is running.
74	Failed to write product information (updating the registry).

Return values	Meaning
79	Failed to read product information (viewing the registry).
144	The command was not executed with administrator privileges.
251	An error occurred when running a system function.
255	An internal inconsistency occurred.

2.4 Registering .NET Data Provider

This section explains how to register the .NET Data Provider feature if a problem occurs during installation of the FUJITSU Enterprise Postgres client.

The msi package is installed in *fujitsuEnterprisePostgresClientFeatureInstallationFolder*\DOTNET, when the FUJITSU Enterprise Postgres client feature is installed.

Name

Npgsql-x.y.z.msi (where "x.y.z" is the version of the current driver) -- Register the .NET Data Provider GAC

Overview

Npgsql-x.y.z.msi

Description

Execute this command to register the .NET Data Provider GAC. This will then allow the installation or repair of the .NET Data Provider GAC. Additionally, it will allow the installation of Npgsql Performance Counters.

Comments

Execute this command with administrator privileges.

Ensure that the Npgsql GAC Installation "Entire feature will be installed on local hard drive" option is selected before clicking [Install].

Chapter 3 Installation and Uninstallation of the Linux Client

This chapter explains how to install and uninstall the Linux client.

3.1 Operating Environment

This section describes the operating environment required to use the Linux client.

3.1.1 Required Operating System

One of the following operating systems is required to use the Linux client:

- RHEL6(Intel64) (*1)
- RHEL6(x86) (*1)
- RHEL7 (*2)

*1: 6.5 or later

- *2: 7.2 or later
- SLES 12 SP2 or later

Information

Select the x86_64 architecture package when installing the 64-bit product.

Select the i386 to i686 architecture packages when installing the 32-bit product.

- The following packages are required for operations on RHEL6 (x86).

Package name	Remarks
glibc	-
libgcc	-
libstdc++	-
libtool-ltdl	-
ncurses-libs	-
nss-softokn-freebl	-
redhat-lsb	-
unixODBC	Required when using ODBC drivers
unzip	-
xz-libs	-
zlib	-

- The following packages are required for operations on RHEL6 (Intel64).

Package name	Remarks
glibc	-
libgcc	-
libstdc++	-
libtool-ltdl	-

Package name	Remarks
ncurses-libs	-
nss-softokn-freebl	-
redhat-lsb	-
unixODBC	Required when using ODBC drivers
unzip	-
xz-libs	-
zlib	-

- The following packages are required for operations on RHEL7.

Package name	Remarks
glibc	-
libgcc	-
libstdc++	-
libtool-ltdl	-
ncurses-libs	-
nss-softokn-freebl	-
redhat-lsb	-
unixODBC	Required when using ODBC drivers
unzip	-
xz-libs	-
zlib	-

- The following packages are required for operations on SLES 12.

Package name	Remarks
glibc	-
libgcc	-
libstdc++	-
libtool-ltdl	-
ncurses-libs	-
nss-softokn-freebl	-
unixODBC	Required when using ODBC drivers
unzip	-
xz-libs	-
zlib	-
glibc-32bit	-
Oracle JRE 8	Required by installer Use update 31 or later of the 64-bit version.

3.1.2 Related Software

The following table lists the software required to use the Linux client.

Table 3.1 Related software

No.	Software name	Version
1	C compiler (*1)	-
2	JDK or JRE	Java SE 6 or later
3	NetCOBOL	(*2)

*1: Only operations using the C compiler provided with the operating system are guaranteed.

*2: NetCOBOL is available in the following editions:

(RHEL7)

- NetCOBOL Base Edition V11.1.0 or later
- NetCOBOL Standard Edition V11.1.0 or later
- NetCOBOL Enterprise Edition V11.1.0 or later

(RHEL6)

- NetCOBOL Base Edition V7.3L10 or later
- NetCOBOL Standard Edition V7.3L10 or later
- NetCOBOL Enterprise Edition V7.3L10 or later

G Note

Either the JDK or JRE included with Interstage Application Server, or the Oracle JDK or JRE can be used. It is recommended that the JDK or JRE included with Interstage Application Server is used.

The following table lists servers that can be connected to the Linux client.

Table 3.2 Connectable servers

OS	Software name		
Windows Linux	- FUJITSU Software Enterprise Postgres Advanced Edition 9.5 or later		
	- FUJITSU Software Enterprise Postgres Standard Edition 9.4 or later		
Solaris	- FUJITSU Software Enterprise Postgres Standard Edition 9.6 or later		

3.1.3 Excluded Software

FUJITSU Enterprise Postgres

The Linux client cannot coexist with the FUJITSU Enterprise Postgres Community Edition (hereafter, "CE") client.

Information

If installing the CE client in an environment where the SE or AE client exists, the SE or AE client will be uninstalled, and the CE client will be installed in its place.

To use the SE or AE client at a later time, uninstall the CE client and then reinstall the SE or AE client.

Other products

There are no exclusive products.

3.1.4 Required Patches

There are no required patches.

3.1.5 Hardware Environment

The following hardware is required to use the Linux client.

Memory

At least 160 MB of memory is required.

Mandatory hardware

None.

3.1.6 Disk Space Required for Installation

The following table lists the disk space requirements of the corresponding directories for new installation of the Linux client. If necessary, increase the size of the file system.

Table	3.3	Disk	space	rea	uired	for	instal	lation
i ubic	0.0		opuoc	104	anca	101	niotai	auon

Directory	Required disk space Unit: MB
/etc	1 + 1 (*1)
/var	1 + 4 (*1)
/opt	106 (*1)
Installation destination of the client (32-bit)	77
Installation destination of the client (64-bit)	82

*1: Uninstall (middleware) must be installed.

3.1.7 Supported System Environment

This section describes the supported system environment.

TCP/IP protocol

FUJITSU Enterprise Postgres supports version 4 and 6 (IPv4 and IPv6) of TCP/IP protocols.



Do not use link-local addresses if TCP/IP protocol version 6 addresses are used.

3.1.8 Versions of Open-Source Software Used as the Base for FUJITSU Enterprise Postgres Drivers

The following table lists the versions of open-source software used as the base for the various FUJITSU Enterprise Postgres drivers.

Driver	Open-source software version
JDBC	pgjdbc 42.2.1
ODBC	psqlodbc 10.01.0000
libpq	PostgreSQL 10.3

3.2 Installation

This section explains how to install the Linux client.

3.2.1 Pre-installation Tasks

Check the system environment for the following before the Linux client is installed.

Check the disk capacity

Check if sufficient free disk space is available for installing the Linux client.

Refer to "Table 3.3 Disk space required for installation" for information on disk space requirements.

If sufficient free disk space is unavailable, reconfigure disk partitions.

Set JAVA_HOME (SLES 12 only)

Ensure that Oracle JRE 8 is installed, and export the JAVA_HOME environment variable.

#export JAVA_HOME="oracleJre8InstallDir"

Check the installed product and determine the installation method

Using the operation shown below, start Uninstall (middleware), and check the installed products.

Example

```
# /opt/FJSVcir/cimanager.sh -c
Loading Uninstaller...
Currently installed products
1. productName
2. productName
Type [number] to select the software you want to uninstall.
[number,q]
=>q
Exiting Uninstaller.
```

If the Linux client is already installed, determine the installation method to use:

- Reinstallation
- Multi-version installation

Remove applied updates

If you perform reinstallation as the installation method, remove applied updates using the procedure shown below.



If a product is installed without removing applied updates, the following will occur:

- Performing reinstallation

If an update with the same update and version number is applied, an error informing you that the update has already been applied is displayed.

Perform the reinstallation after removing the update.

1. Display the applied updates

Execute the following command to display the applied updates:

/opt/FJSVfupde/bin/uam showup

2. Remove the updates

Execute the command below to remove the updates. If an update with the same update number was applied more than once, the updates are removed in order, starting from the highest version number.

/opt/FJSVfupde/bin/uam remove -i update-number

3.2.2 Installation in Interactive Mode

The installation procedure is described below.

G Note

The following characters can be used as input values:

Alphanumeric characters, hyphens, commas and forward slashes

関 Point

For installation in interactive mode, default values are set for the installation information. The following settings can be changed for a new installation or a multi-version installation:

- Installation directory

.....

1. Stop applications and the client program

If the installation method is one of the following, the applications and the client program must be stopped:

- Reinstallation

Before starting the installation, stop the following:

- Applications that use the product
- pgBadger
- Pgpool-II

2. Change to the superuser

Run the following command to switch to the superuser on the system.

```
$ su -
Password:*****
```

3. Mount the DVD drive

Insert the client program DVD into the DVD drive, and then execute the following command:

Example

mount -t iso9660 -r -o loop /dev/dvd /media/dvd

/dev/dvd is the DVD drive device, and /media/dvd is the mount point (which must already exist before calling the command).



If the DVD was mounted automatically using the automatic mount daemon (autofs), "noexec" is set as the mount option, so the installer may fail to start. In this case, use the mount command to remount the DVD correctly, and then run the installation. Note that the mount options of a mounted DVD can be checked by executing the mount command without any arguments.

4. Run the installation

Execute the following command:

Example

cd /media/dvd
./install.sh

In the example above, /media/dvd is the DVD mount point.

5. Select the product to install

The list of installation target products is displayed. Type the number for the product to be installed, or "all", and press Enter.

🛐 Information

If the selected product has already been installed, a window for selecting reinstallation or multi-version installation is displayed for each product. Follow the on-screen instructions to select the installation method.

6. Check the settings

The window for checking the installation information is displayed as shown below.

Type "y" and press Enter to start the installation.

To change the settings, type "c" and press Enter, and follow the on-screen instructions. This option is not displayed if there is no information that can be modified.

7. Check the changed settings

If the installation information has been modified, the new installation information is displayed. Type "y" and press Enter to start the installation. To change the settings again, type "c" and press Enter.

8. Finish the installation

When the installation is complete, a message is displayed showing the status. If installation was successful, the following message is displayed:

Installed successfully.



If an error occurs during the installation, read the error message and remove the cause of the error, and then reexecute the install.sh command.

3.2.3 Installation in Silent Mode

Installation in silent mode can be performed only when the installation method is one of the following:

- New installation

- Multi-version installation



Refer to the FUJITSU Enterprise Postgres product website for information on installation in silent mode, such as the

installation parameters and error messages.

The installation procedure is described below.

1. Change to the superuser

Run the following command to switch to the superuser on the system.

```
$ su -
Password:*****
```

2. Mount the DVD drive

Insert the client program DVD into the DVD drive, and then execute the following command:

Example

mount -t iso9660 -r -o loop /dev/dvd /media/dvd

/dev/dvd is the DVD drive device, and /media/dvd is the mount point (which must already exist before calling the command).

G Note

If the DVD was mounted automatically using the automatic mount daemon (autofs), "noexec" is set as the mount option, so the installer may fail to start. In this case, use the mount command to remount the DVD correctly, and then run the installation. Note that the mount options of a mounted DVD can be checked by executing the mount command without any arguments.

.

3. Create an installation parameters CSV file

Consider the features that will be required for system operations, and then create an installation parameters CSV file that uses the following specification format.

sectionName, parameterName, value
sectionName, parameterName, value
.

🛐 Information

The templates for the installation parameters CSV file is "mountPoint/sample/sample_linux.csv"

4. Run the installation

Execute the following command:

Example

```
# cd /media/dvd
# ./silent.sh /home/work/inspara.csv
```

In the example above, /media/dvd is the DVD mount point, and /home/work/inspara.csv is the installation parameter CSV.

If the silent installer ends in an error, a message is output to the log file and return values are returned.

3.3 Uninstallation

This section describes the procedure for uninstalling the Linux client.



- Before uninstalling the product, close the product program and all applications that are using it.
- On SLES 12, before uninstallation, ensure that Oracle JRE 8 is installed, and export the JAVA_HOME environment variable.

#export JAVA_HOME="oracleJre8InstallDir"

3.3.1 Uninstallation in Interactive Mode

The uninstallation procedure is described below.

🛐 Information

If an error occurs while the product is being uninstalled, refer to "Uninstall (middleware) Messages" in the FUJITSU Enterprise Postgres product website, and take the required action.

1. Stop applications and the client program

Before starting the uninstallation, stop the following:

- Applications that use the product
- pgBadger
- Pgpool-II

2. Change to the superuser

Run the following command to switch to the superuser on the system.

\$ su -Password:*****

3. Start the Uninstall (middleware)

Execute the following command:

/opt/FJSVcir/cimanager.sh -c

4. Select the product

Enter the number for the product to be uninstalled, and press Enter.

5. Start the uninstallation

To start the uninstallation, type "y" and press Enter.

To display the list of products again, type "b" and press Enter.

6. Finish the uninstallation

The installation directory may remain after uninstallation. If it is not required, delete it.

```
Uninstalling...
```

3.3.2 Uninstallation in Silent Mode

The uninstallation procedure is described below.

1. Stop applications and the client program

Before starting the uninstallation, stop the following:

- Applications that use the product
- pgBadger
- Pgpool-II

2. Change to the superuser

Run the following command to switch to the superuser on the system.

```
$ su -
Password:*****
```

3. Run the uninstallation

Execute the following command:

The installation directory may remain after uninstallation. If it is not required, delete it.

Example

```
# /opt/fsepv<x>client64/setup/suninst.sh
```

In the example above, /opt/fsepv<x>client64 is the installation directory, and "<x>" indicates the product version.

4. Check the uninstallation results

The uninstaller result is output to the log file.

Log file

In "xyz" below, "x" is the product version, "z" is the product level, and for this release, "y" is 0.

64-bit product

/var/log/fsep_CLIENT64_xyz_uninstall.log

32-bit product

/var/log/fsep_CLIENT32_xyz_uninstall.log

Return values

The following return values are output:

Return value	Meaning
0	Completed successfully.
13	Processing was interrupted.
15	The resources required for uninstallation do not exist.
19	A process is running.
60	An error occurred in Uninstall (middleware).
62	Uninstall (middleware) was started.
63	Uninstall (middleware) has not been installed, or there are no execution privileges.
99	A system error has occurred.
100	The command argument is invalid.
106	The command was not executed with administrator privileges.

Chapter 4 Setup

This chapter describes the setup procedures to be performed after installation completes.

4.1 Configuring Environment Variables

Configure the following environment variables when using client commands.

w

4.1.1 Windows

PATH environment variable

Add "installationFolder\bin".

PGLOCALEDIR environment variable

Add "installationFolder\share\locale".

Examples of environment variable configurations are shown below.

Example

- > SET PATH=%ProgramFiles%\Fujitsu\fsepclient32\bin;%PATH%
- > SET PGLOCALEDIR=%ProgramFiles%\Fujitsu\fsepclient32\share\locale

4.1.2 Linux

PATH environment variable

Add "installationDirectory/bin".

MANPATH environment variable

Add "installationDirectory/share/man".

PGLOCALEDIR environment variable

Add "installationDirectory/share/locale".

LD_LIBRARY_PATH environment variable

Add "installationDirectory/lib".

Examples of environment variable configurations are shown below.

Example

This example is specific to 64-bit Linux.

Note that "<*x*>" indicates the product version.

```
$ PATH=/opt/fsepv<x>client64/bin:$PATH ; export PATH
```

\$ MANPATH=/opt/fsepv<x>client64/share/man:\$MANPATH ; export MANPATH

\$ PGLOCALEDIR=/opt/fsepv<x>client64/share/locale ; export PGLOCALEDIR

\$ LD_LIBRARY_PATH=/opt/fsepv<x>client64/lib:\$LD_LIBRARY_PATH ; export LD_LIBRARY_PATH

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