

# FUJITSU Enterprise Postgres 12



## Software Release Notes

[Linux >](#)

[Windows >](#)

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**
**                               Software Release Notes
**
** Linux FUJITSU Software Enterprise Postgres Advanced Edition (64bit)
** 12
*****

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This document lists special cautions and reference information relating to the use of this product.

#### [High Risk Activity]

The Customer acknowledges and agrees that the Product is designed, developed and manufactured as contemplated for general use, including without limitation, general office use, personal use, household use, and ordinary industrial use, but is not designed, developed and manufactured as contemplated for use accompanying fatal risks or dangers that, unless extremely high safety is secured, could lead directly to death, personal injury, severe physical damage or other loss (hereinafter "High Safety Required Use"), including without limitation, nuclear reaction control in nuclear facilities, aircraft flight control, air traffic control, mass transport control, medical life support systems, and missile launch control in weapon systems. The Customer, shall not use the Product without securing the sufficient safety required for the High Safety Required Use. In addition, Fujitsu (or other affiliate's name) shall not be liable against the Customer and/or any third party for any claims or damages arising in connection with the High Safety Required Use of the Product.

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- Company names and product names used in this document are trademarks or registered trademarks of the respective companies.

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#### [Abbreviations and Generic Terms Used]

Note that product names used in this document are shown as follows:

- 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) 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(R) Windows Server(R) 2016 Datacenter
  - Microsoft(R) Windows Server(R) 2016 Standard
  - Microsoft(R) Windows Server(R) 2016 Essentials
  - Microsoft(R) Windows Server(R) 2019 Datacenter
  - Microsoft(R) Windows Server(R) 2019 Standard
  - Microsoft(R) Windows Server(R) 2019 Essentials
- are abbreviated as "Windows(R)".

- Red Hat(R) Enterprise Linux(R) 7
  - Red Hat(R) Enterprise Linux(R) 8.1
  - SUSE Linux Enterprise Server 12
- are abbreviated as "Linux".

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Revision History

<Edition 1.0 (July 2020)>

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1 Component Programs

This product comes without any bundled optional products.

2 Applicable Manuals

2.1 Online Manuals

The manuals listed in the table below are included on the "Server program/Online manuals" DVD. You can read the manuals directly from the DVD or copy them to your computer. If you copy them to your computer, do not change the folder structure or file names because this can affect the correctness of how the manual is displayed and the accuracy of the PDF search function.

Note that Adobe(R) Reader(R) is required in order to read and search manuals in PDF format.

FUJITSU Enterprise Postgres manuals contain various notation conventions and rules. When using FUJITSU Enterprise Postgres manuals, keep these rules in mind as you read them. Also, refer to "FUJITSU Enterprise Postgres Documentation Road Map" for information on these rules.

	Manual Title
1	FUJITSU Enterprise Postgres Release Notes
2	FUJITSU Enterprise Postgres Documentation Road Map
3	FUJITSU Enterprise Postgres General Description
4	FUJITSU Enterprise Postgres Installation and Setup Guide for Server
5	FUJITSU Enterprise Postgres Installation and Setup Guide for Client
6	FUJITSU Enterprise Postgres Installation and Setup Guide for Server

	Assistant
7	FUJITSU Enterprise Postgres Operation Guide
8	FUJITSU Enterprise Postgres Cluster Operation Guide (Database Multiplexing)
9	FUJITSU Enterprise Postgres Cluster Operation Guide (PRIMECLUSTER)
10	FUJITSU Enterprise Postgres Security Operation Guide
11	FUJITSU Enterprise Postgres Application Development Guide
12	FUJITSU Enterprise Postgres Connection Manager User's Guide
13	FUJITSU Enterprise Postgres Reference
14	FUJITSU Enterprise Postgres Java API Reference
15	FUJITSU Enterprise Postgres Npgsql API Reference
16	FUJITSU Enterprise Postgres Glossary
17	FUJITSU Enterprise Postgres Messages
18	FJQSS (Information Collection Tool) User's Guide
19	PostgreSQL 12.1 Documentation (*1)

\*1) This is included as reference material.

For the latest version, refer to the "The PostgreSQL Global Development Group" website (<http://www.postgresql.org/>).  
A copy of this reference material, downloaded from the above website on December 19 2019, is included with this product.

### 2.1.1 Reading Manuals Directly from the DVD

Insert the DVD in the DVD drive.  
Open the file below in a Web browser.

```
+-----+
|DVD Drive Name:\manual\en\manual.html |
+-----+
```

## 3 Software Environment

### 3.1 Basic Software

For information on the basic software that can be installed by this software, refer to the following chapter in the FUJITSU Enterprise Postgres Installation and Setup Guide for Server in the online manuals:  
"Chapter 2 Operating Environment"

### 3.2 Required Software

For information on the software required to install this software, refer to the following chapter in the FUJITSU Enterprise Postgres Installation and Setup Guide for Server in the online manuals:  
"Chapter 2 Operating Environment"

### 3.3 Update Information

For information on the required modifications to the operation of this software, refer to the following chapter in the FUJITSU Enterprise Postgres Installation and Setup Guide for Server in the online manuals:  
"Chapter 2 Operating Environment"

### 3.4 Mutually Exclusive Software

For information on the software with which this software is mutually exclusive, refer to the following chapter in the FUJITSU Enterprise Postgres Installation and Setup Guide for Server in the online manuals:  
"Chapter 2 Operating Environment"

## 4 Hardware Environment

For information on the hardware required to install this software, refer to the following chapter in the FUJITSU Enterprise Postgres Installation and

Setup Guide for Server in the online manuals:  
"Chapter 2 Operating Environment"

## 5 Restrictions

None.

## 6. Notes on Migration

If an existing 9.4 or newer instance is going to be used in this version, perform `pg_upgrade` in advance. Refer to "Notes on Upgrading Database Instances" in the Operation Guide for details.

Refer to "`pg_upgrade`" in the PostgreSQL Documentation for information on using `pg_upgrade`.

## 7. Other Notes

None.

## 8 Installation Procedure

### 8.1 Installation Method

For information on installing this software, refer to the following chapters in the FUJITSU Enterprise Postgres Installation and Setup Guide for Server in the online manuals:

"Chapter 3 Installation"

### 8.2 Uninstallation Method

For information on uninstalling this software, refer to the following chapter in the FUJITSU Enterprise Postgres Installation and Setup Guide for Server in the online manuals:

"Chapter 5 Uninstallation"

## 9 FUJITSU Enterprise Postgres Client

This software includes FUJITSU Enterprise Postgres Client for the platforms listed below.

If an application is used in a remote environment, install FUJITSU Enterprise Postgres Client for each platform.

- Windows(R) FUJITSU Enterprise Postgres Client 12
- Linux FUJITSU Enterprise Postgres Client 12

## 10. About streaming replication

Use streaming replication only with features compatible with PostgreSQL 12.

## Appendix A License Terms and Exclusions of Liability

### A.1. License for Open Source Software

This product uses the open-source software.

Refer to `OSS_Licence/OSS_List.pdf` in this media for the name, version and license conditions of the open source software included in this product. After providing this product and this media, the OSS version and license conditions may change due to the provision of the correction program. Refer to the following folder for the changed OSS version and license conditions.

```
+-----+
| <Installation destination of the product>/doc/Licence/ |
+-----+
```

It is allowable to choose a license from one of the following for jQuery and jQuery UI Library; MIT License or GNU GENERAL PUBLIC LICENSE (GNU GPL). This product redistributes jQuery and jQuery UI Library based on the MIT License.

The ecj is covered by the Eclipse Public License.

We will provide, on request, the source code for software for which source code disclosure is a license requirement. If you require this source code, please contact our sales staff.

The jstl is covered by the COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL). We will provide, on request, the source code for CDDL target software and for software for which source code disclosure is a license requirement. If you require this source code, please contact our sales staff.

Will Hartung - getline is license-free open source software available in the public domain.

#### A.2 Provision of the Source Code for Software Based on LGPL

This product comes with the following software licensed under the GNU LESSER GENERAL PUBLIC LICENSE (GNU LGPL) V2.1, GNU LESSER GENERAL PUBLIC LICENSE Version 3, and GNU LIBRARY GENERAL PUBLIC LICENSE Version 2. The source code of the software below will be provided on request at cost for a period of three years from the date of shipment of this product, or for the term of the maintenance support agreement entered into for this product, whichever is longer.

- gettext
- libiconv
- psqLODBC
- qt

Contact Fujitsu technical support if you require the source code.

#### A.3 Programs for which Modification and Reverse Engineering are Permitted

Modification and reverse engineering are permissible for the following programs included in this product to the extent permitted under the GNU LESSER GENERAL PUBLIC LICENSE V2.1, GNU LESSER GENERAL PUBLIC LICENSE Version 3, and the GNU LIBRARY GENERAL PUBLIC LICENSE Version 2, which are applied to the open source software used together with this product.

Folder names

- <FUJITSU Enterprise Postgres install dir>/bin
- <FUJITSU Enterprise Postgres install dir>/lib
- <Linux FUJITSU Enterprise Postgres Client install dir>/bin
- <Linux FUJITSU Enterprise Postgres Client install dir>/lib
- <Linux FUJITSU Enterprise Postgres Client install dir>/odbc

#### A.4 Apache License

This product includes the following software that are covered by Apache License, Version 2.0

- Modified source code of software Shaj
- apache commons io
- apache commons lang
- apache commons logging
- apache dbcp
- apache derby
- Apache Tomcat
- commons-codec
- commons-configuration
- commons-pool
- Jackson-annotations
- Jackson-core
- Jackson-databind
- javax-inject
- log4j
- spring framework
- spring-security-web

For the license statement of Apache License, Version 2.0, refer to the OSS\_Licence folder in this media.

#### A.5 Python

This product includes the following Python libraries.

- -ip 19.2.3
- alembic 1.4.2

- appdirs	1.4.3
- Babel	2.8.0
- bcrypt	3.1.7
- blinker	1.4
- certifi	2020.4.5.1
- cffi	1.14.0
- chardet	3.0.4
- click	7.1.1
- cryptography	2.9
- distlib	0.3.0
- filelock	3.0.12
- Flask	1.0.2
- Flask-BabelEx	0.9.4
- Flask-Compress	1.4.0
- Flask-Gravatar	0.5.0
- Flask-Login	0.4.1
- Flask-Mail	0.9.1
- Flask-Migrate	2.4.0
- Flask-Paranoid	0.2.0
- Flask-Principal	0.4.0
- Flask-Security	3.0.0
- Flask-SQLAlchemy	2.3.2
- Flask-WTF	0.14.3
- idna	2.9
- importlib-metadata	1.5.0
- itsdangerous	1.1.0
- Jinja2	2.11.1
- Mako	1.1.2
- MarkupSafe	1.1.1
- packaging	20.3
- paramiko	2.7.1
- passlib	1.7.1
- pip	20.0.2
- psutil	5.5.1
- pycopg2	2.8.5
- pycparser	2.20
- PyNaCl	1.3.0
- pyparsing	2.4.7
- python-dateutil	2.8.1
- python-editor	1.0.4
- pytz	2018.9
- setuptools	46.0.0
- simplejson	3.16.0
- six	1.14.0
- speaklater	1.3
- sphinxcontrib-applehelp	1.0.2
- sphinxcontrib-devhelp	1.0.2
- sphinxcontrib-htmlhelp	1.0.3
- sphinxcontrib-jsmath	1.0.1
- sphinxcontrib-qthelp	1.0.3
- sphinxcontrib-serializinghtml	1.1.4
- SQLAlchemy	1.3.15
- sqlparse	0.2.4
- sshtunnel	0.1.5
- urllib3	1.25.8
- virtualenv	20.0.10
- Werkzeug	1.0.1
- wheel	0.34.2
- WTForms	2.2.1
- zipp	3.1.0

Refer to the files below for the license statement of each library.

```

- -ip
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\~ip-19.2.3.dist-info\LICENSE.txt
- alembic
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\alembic-1.4.2.dist-info\LICENSE
- appdirs
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\appdirs-1.4.3.dist-info\METADATA
- Babel
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\Babel-2.8.0.dist-info\LICENSE
- bcrypt
  <Windows FUJITSU Enterprise Postgres Client install dir>

```

\pgadmin4\venv\Lib\site-packages\bcrypt-3.1.7.dist-info\LICENSE  
- blinker  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\blinker-1.4.dist-info\LICENSE  
- certifi  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\certifi-2020.4.5.1.dist-info\LICENSE  
- cffi  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\cffi-1.14.0.dist-info\LICENSE  
- chardet  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\chardet-3.0.4.dist-info\METADATA  
- click  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\click-7.1.1.dist-info\LICENSE.rst  
- cryptography  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\cryptography-2.9.dist-info\LICENSE  
- distlib  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\distlib-0.3.0-py3.7.egg-info\PKG-INFO  
- filelock  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\filelock-3.0.12.dist-info\LICENSE  
- Flask  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\Flask-1.0.2.dist-info\LICENSE.txt  
- Flask-BabelEx  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\Flask\_BabelEx-0.9.4.dist-info\LICENSE  
- Flask-Compress  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\Flask\_Compress-1.4.0.dist-info\LICENSE.txt  
- Flask-Gravatar  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\Flask\_Gravatar-0.5.0.dist-info\METADATA  
- Flask-Login  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\Flask\_Login-0.4.1.dist-info\LICENSE  
- Flask-Mail  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\Flask\_Mail-0.9.1.dist-info\LICENSE  
- Flask-Migrate  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\Flask\_Migrate-2.4.0.dist-info\LICENSE  
- Flask-Paranoid  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\Flask\_Paranoid-0.2.0.dist-info\METADATA  
- Flask-Principal  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\Flask\_Principal-0.4.0.dist-info\METADATA  
- Flask-Security  
<Windows FUJITSU Enterprise Postgres Client install dir>  
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- Flask-SQLAlchemy  
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- Flask-WTF  
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- idna  
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- importlib-metadata  
<Windows FUJITSU Enterprise Postgres Client install dir>  
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- itsdangerous  
<Windows FUJITSU Enterprise Postgres Client install dir>  
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- Jinja2  
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- Mako  
<Windows FUJITSU Enterprise Postgres Client install dir>  
\pgadmin4\venv\Lib\site-packages\Mako-1.1.2.dist-info\LICENSE  
- MarkupSafe



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- pip
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- psycpg2
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- pycparser
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- PyNaCl
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- pyparsing
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- python-dateutil
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- python-editor
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- pytz
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- six
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- speaklater
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- SQLAlchemy
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- sqlparse
```

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\pgadmin4\venv\Lib\site-packages\sshtunnel-0.1.5.dist-info\LICENSE
- urllib3
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\urllib3-1.25.8.dist-info\LICENSE.txt
- virtualenv
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\pgadmin4\venv\Lib\site-packages\WTForms-2.2.1.dist-info\METADATA
- zipp
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\zipp-3.1.0.dist-info\LICENSE
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**                               Software Release Notes                               **
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**   Windows FUJITSU Software Enterprise Postgres Advanced Edition (64bit)   **
**   12                                                                     **
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#### [High Risk Activity]

The Customer acknowledges and agrees that the Product is designed, developed and manufactured as contemplated for general use, including without limitation, general office use, personal use, household use, and ordinary industrial use, but is not designed, developed and manufactured as contemplated for use accompanying fatal risks or dangers that, unless extremely high safety is secured, could lead directly to death, personal injury, severe physical damage or other loss (hereinafter "High Safety Required Use"), including without limitation, nuclear reaction control in nuclear facilities, aircraft flight control, air traffic control, mass transport control, medical life support systems, and missile launch control in weapon systems. The Customer, shall not use the Product without securing the sufficient safety required for the High Safety Required Use. In addition, Fujitsu (or other affiliate's name) shall not be liable against the Customer and/or any third party for any claims or damages arising in connection with the High Safety Required Use of the Product.

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- SUSE and the SUSE logo are registered trademarks of SUSE LLC in the United States and other countries.
- Oracle and Java are registered trademarks of Oracle and/or its affiliates.
- Company names and product names used in this document are trademarks or registered trademarks of the respective companies.

The content of this manual are subject to change without notice.

#### [Abbreviations and Generic Terms Used]

Note that product names used in this document are shown as follows:

- 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
- are abbreviated as "Windows Server(R) 2012".
- Microsoft(R) Windows Server(R) 2016 Datacenter
- Microsoft(R) Windows Server(R) 2016 Standard
- Microsoft(R) Windows Server(R) 2016 Essentials
- are abbreviated as "Windows Server(R) 2016".
- Microsoft(R) Windows Server(R) 2019 Datacenter
- Microsoft(R) Windows Server(R) 2019 Standard
- Microsoft(R) Windows Server(R) 2019 Essentials
- are abbreviated as "Windows Server(R) 2019".
- 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) 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(R) Windows Server(R) 2016 Datacenter  
Microsoft(R) Windows Server(R) 2016 Standard  
Microsoft(R) Windows Server(R) 2016 Essentials  
Microsoft(R) Windows Server(R) 2019 Datacenter  
Microsoft(R) Windows Server(R) 2019 Standard  
Microsoft(R) Windows Server(R) 2019 Essentials  
are abbreviated as "Windows(R)".  
- Red Hat(R) Enterprise Linux(R) 7  
Red Hat(R) Enterprise Linux(R) 8.1  
SUSE Linux Enterprise Server 12  
are abbreviated as "Linux".

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Revision History

<Edition 1.0 (July 2020)>

This document is structured as follows:

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- 2 Applicable Manuals
  - 2.1 Online Manuals
- 3 Software Environment
  - 3.1 Basic Software
  - 3.2 Required Software
  - 3.3 Update Information
  - 3.4 Mutually Exclusive Software
- 4 Hardware Environment
- 5 Restrictions
- 6 Notes on Migration
- 7 Other Notes
- 8 Installation Procedure
  - 8.1 Installation Method
  - 8.2 Uninstallation Method
- 9 FUJITSU Enterprise Postgres Client
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  - A.2 Provision of the Source Code for Software Based on LGPL
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- Appendix B Viewing FJQSS and FUJITSU Enterprise Postgres HTML Files

## 1 Component Programs

This product comes without any bundled optional products.

## 2 Applicable Manuals

### 2.1 Online Manuals

The manuals listed in the table below are included on the "Server program/Online manuals" DVD. You can read the manuals directly from the DVD or copy them to your computer. If you copy them to your computer, do not change the folder structure or file names because this can affect the correctness of how the manual is displayed and the accuracy of the PDF search function.

Note that Adobe(R) Reader(R) is required in order to read and search manuals in PDF format.

FUJITSU Enterprise Postgres manuals contain various notation conventions and rules.

When using FUJITSU Enterprise Postgres manuals, keep these rules in mind as you read them.

Also, refer to "FUJITSU Enterprise Postgres Documentation Road Map" for information on these rules.

	Manual Title
1	FUJITSU Enterprise Postgres Release Notes
2	FUJITSU Enterprise Postgres Documentation Road Map
3	FUJITSU Enterprise Postgres General Description
4	FUJITSU Enterprise Postgres Installation and Setup Guide for Server
5	FUJITSU Enterprise Postgres Installation and Setup Guide for Client
6	FUJITSU Enterprise Postgres Installation and Setup Guide for Server Assistant
7	FUJITSU Enterprise Postgres Operation Guide
8	FUJITSU Enterprise Postgres Cluster Operation Guide (Database Multiplexing)
9	FUJITSU Enterprise Postgres Security Operation Guide
10	FUJITSU Enterprise Postgres Application Development Guide
11	FUJITSU Enterprise Postgres Reference
12	FUJITSU Enterprise Postgres Java API Reference
13	FUJITSU Enterprise Postgres Npgsql API Reference
14	FUJITSU Enterprise Postgres Glossary
15	FUJITSU Enterprise Postgres Messages
16	PostgreSQL 12.1 Documentation (*1)

\*1) This is included as reference material.

For the latest version, refer to the "The PostgreSQL Global Development Group" website (<http://www.postgresql.org/>).

A copy of this reference material, downloaded from the above website on December 19 2019, is included with this product.

### 2.1.1 Reading Manuals Directly from the DVD

Insert the DVD in the DVD drive.

Open the file below in a Web browser.

```
+-----+
|DVD Drive Name:\manual\en\manual.html |
+-----+
```

## 3 Software Environment

### 3.1 Basic Software

For information on the basic software that can be installed by this software, refer to the following chapter in the FUJITSU Enterprise Postgres Installation and Setup Guide for Server in the online manuals:

"Chapter 2 Operating Environment"

### 3.2 Required Software

For information on the software required to install this software, refer to the following chapter in the FUJITSU Enterprise Postgres Installation and Setup Guide for Server in the online manuals:

"Chapter 2 Operating Environment"

### 3.3 Update Information

For information on the required modifications to the operation of this software, refer to the following chapter in the FUJITSU Enterprise Postgres Installation and Setup Guide for Server in the online manuals:

"Chapter 2 Operating Environment"

### 3.4 Mutually Exclusive Software

For information on the software with which this software is mutually exclusive, refer to the following chapter in the FUJITSU Enterprise Postgres Installation and Setup Guide for Server in the online manuals:

"Chapter 2 Operating Environment"

## 4 Hardware Environment

For information on the hardware required to install this software, refer to the following chapter in the FUJITSU Enterprise Postgres Installation and Setup Guide for Server in the online manuals:

"Chapter 2 Operating Environment"

## 5 Restrictions

None.

## 6. Notes on Migration

If an existing 9.4 or newer instance is going to be used in this version, perform `pg_upgrade` in advance. Refer to "Notes on Upgrading Database Instances" in the Operation Guide for details.

Refer to "`pg_upgrade`" in the PostgreSQL Documentation for information on using `pg_upgrade`.

## 7. Other Notes

For notes on this software, refer to the following chapter in the FUJITSU Enterprise Postgres Installation and Setup Guide for Server in the online manuals:

"Chapter 3 Installation"

## 8 Installation Procedure

### 8.1 Installation Method

For information on installing this software, refer to the following chapters in the FUJITSU Enterprise Postgres Installation and Setup Guide for Server in the online manuals:

"Chapter 3 Installation"

### 8.2 Uninstallation Method

For information on uninstalling this software, refer to the following chapter in the FUJITSU Enterprise Postgres Installation and Setup Guide for Server in the online manuals:

"Chapter 5 Uninstallation"

## 9 FUJITSU Enterprise Postgres Client

This software includes FUJITSU Enterprise Postgres Client for the platforms listed below.

If an application is used in a remote environment, install FUJITSU Enterprise Postgres Client for each platform.

- Windows(R) FUJITSU Enterprise Postgres Client 12
- Linux FUJITSU Enterprise Postgres Client 12

## 10. About streaming replication

Use streaming replication only with features compatible with PostgreSQL 12.

## Appendix A License Terms and Exclusions of Liability

### A.1 License for Open Source Software

This product uses the open-source software.

Refer to OSS\_Licence/OSS\_List.pdf in this media for the name, version and license conditions of the open source software included in this product. After providing this product and this media, the OSS version and license conditions may change due to the provision of the correction program. Refer to the following folder for the changed OSS version and license conditions.

```
+-----+
| <Installation destination of the product>/doc/Licence/ |
+-----+
```

It is allowable to choose a license from one of the following for jQuery and jQuery UI Library; MIT License or GNU GENERAL PUBLIC LICENSE (GNU GPL). This product redistributes jQuery and jQuery UI Library based on the MIT License.

The ecj is covered by the Eclipse Public License.

We will provide, on request, the source code for software for which source code disclosure is a license requirement. If you require this source code, please contact our sales staff.

The jstl is covered by the COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL).

We will provide, on request, the source code for CDDL target software and for software for which source code disclosure is a license requirement. If you require this source code, please contact our sales staff.

Will Hartung - getline is license-free open source software available in the public domain.

### A.2 Provision of the Source Code for Software Based on LGPL

This product comes with the following software licensed under the GNU LESSER GENERAL PUBLIC LICENSE (GNU LGPL) V2.1, GNU LESSER GENERAL PUBLIC LICENSE Version 3, and GNU LIBRARY GENERAL PUBLIC LICENSE Version 2.

The source code of the software below will be provided on request at cost for a period of three years from the date of shipment of this product, or for the term of the maintenance support agreement entered into for this product, whichever is longer.

- gettext
- libiconv
- psqLODBC
- qt

Contact Fujitsu technical support if you require the source code.

### A.3 Provision of the Source Code for Software Based on Microsoft Reciprocal License

This product comes with the following software licensed under the Microsoft Reciprocal License.

The source code of the software below will be provided on request at cost for a period of three years from the date of shipment of this product, or for the term of the maintenance support agreement entered into for this product, whichever is longer.

- WiX Toolset

Contact Fujitsu technical support if you require the source code.

### A.4 Programs for which Modification and Reverse Engineering are Permitted

Modification and reverse engineering are permissible for the following programs included in this product to the extent permitted under the GNU LESSER GENERAL PUBLIC LICENSE V2.1, GNU LESSER GENERAL PUBLIC LICENSE Version 3, and the GNU LIBRARY GENERAL PUBLIC LICENSE Version 2, which are applied to the open source software used together with this product.

Folder names

- <FUJITSU Enterprise Postgres install dir>\bin
- <FUJITSU Enterprise Postgres install dir>\lib
- <Windows FUJITSU Enterprise Postgres Client install dir>\bin
- <Windows FUJITSU Enterprise Postgres Client install dir>\lib
- <Windows FUJITSU Enterprise Postgres Client install dir>\odbc
- <Windows FUJITSU Enterprise Postgres Client install dir>

## A.5 Apache License

This product includes the following software that are covered by Apache License, Version 2.0

- Modified source code of software Shaj
- apache commons io
- apache commons lang
- apache commons logging
- apache dbcp
- apache derby
- Apache Tomcat
- commons-codec
- commons-configuration
- commons-pool
- Jackson-annotations
- Jackson-core
- Jackson-databind
- javax-inject
- log4j
- spring framework
- spring-security-web

For the license statement of Apache License, Version 2.0, refer to the OSS\_Licence folder in this media.

## A.6 Python

This product includes the following Python libraries.

- -ip 19.2.3
- alembic 1.4.2
- appdirs 1.4.3
- Babel 2.8.0
- bcrypt 3.1.7
- blinker 1.4
- certifi 2020.4.5.1
- cffi 1.14.0
- chardet 3.0.4
- click 7.1.1
- cryptography 2.9
- distlib 0.3.0
- filelock 3.0.12
- Flask 1.0.2
- Flask-BabelEx 0.9.4
- Flask-Compress 1.4.0
- Flask-Gravatar 0.5.0
- Flask-Login 0.4.1
- Flask-Mail 0.9.1
- Flask-Migrate 2.4.0
- Flask-Paranoid 0.2.0
- Flask-Principal 0.4.0
- Flask-Security 3.0.0
- Flask-SQLAlchemy 2.3.2
- Flask-WTF 0.14.3
- idna 2.9
- importlib-metadata 1.5.0
- itsdangerous 1.1.0
- Jinja2 2.11.1
- Mako 1.1.2
- MarkupSafe 1.1.1
- packaging 20.3
- paramiko 2.7.1
- passlib 1.7.1
- pip 20.0.2
- psutil 5.5.1
- psycopg2 2.8.5
- pycparser 2.20
- PyNaCl 1.3.0
- pyparsing 2.4.7
- python-dateutil 2.8.1
- python-editor 1.0.4
- pytz 2018.9
- setuptools 46.0.0



- simplejson 3.16.0
- six 1.14.0
- speaklater 1.3
- sphinxcontrib-applehelp 1.0.2
- sphinxcontrib-devhelp 1.0.2
- sphinxcontrib-htmlhelp 1.0.3
- sphinxcontrib-jsmath 1.0.1
- sphinxcontrib-qthelp 1.0.3
- sphinxcontrib-serializinghtml 1.1.4
- SQLAlchemy 1.3.15
- sqlparse 0.2.4
- sshunnel 0.1.5
- urllib3 1.25.8
- virtualenv 20.0.10
- Werkzeug 1.0.1
- wheel 0.34.2
- WTForms 2.2.1
- zipp 3.1.0

Refer to the files below for the license statement of each library.

- -ip  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\~ip-19.2.3.dist-info\LICENSE.txt
- alembic  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\alembic-1.4.2.dist-info\LICENSE
- appdirs  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\appdirs-1.4.3.dist-info\METADATA
- Babel  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\Babel-2.8.0.dist-info\LICENSE
- bcrypt  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\bcrypt-3.1.7.dist-info\LICENSE
- blinker  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\blinker-1.4.dist-info\LICENSE
- certifi  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\certifi-2020.4.5.1.dist-info\LICENSE
- cffi  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\cffi-1.14.0.dist-info\LICENSE
- chardet  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\chardet-3.0.4.dist-info\METADATA
- click  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\click-7.1.1.dist-info\LICENSE.rst
- cryptography  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\cryptography-2.9.dist-info\LICENSE
- distlib  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\distlib-0.3.0-py3.7.egg-info\PKG-INFO
- filelock  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\filelock-3.0.12.dist-info\LICENSE
- Flask  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\Flask-1.0.2.dist-info\LICENSE.txt
- Flask-BabelEx  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\Flask\_BabelEx-0.9.4.dist-info\LICENSE
- Flask-Compress  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\Flask\_Compress-1.4.0.dist-info\LICENSE.txt
- Flask-Gravatar  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\Flask\_Gravatar-0.5.0.dist-info\METADATA
- Flask-Login  
<Windows FUJITSU Enterprise Postgres Client install dir>  
 \pgadmin4\venv\Lib\site-packages\Flask\_Login-0.4.1.dist-info\LICENSE
- Flask-Mail  
<Windows FUJITSU Enterprise Postgres Client install dir>

```
\pgadmin4\venv\Lib\site-packages\Flask_Mail-0.9.1.dist-info\LICENSE
- Flask-Migrate
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\Flask_Migrate-2.4.0.dist-info\LICENSE
- Flask-Paranoid
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\Flask_Paranoid-0.2.0.dist-info\METADATA
- Flask-Principal
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\Flask_Principal-0.4.0.dist-info\METADATA
- Flask-Security
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\Flask_Security-3.0.0.dist-info\METADATA
- Flask-SQLAlchemy
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\Flask_SQLAlchemy-2.3.2.dist-info
  \LICENSE.txt
- Flask-WTF
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\Flask_WTF-0.14.3.dist-info\LICENSE.txt
- idna
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\idna-2.9.dist-info\LICENSE.rst
- importlib-metadata
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\importlib_metadata-1.5.0.dist-info\LICENSE
- itsdangerous
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\itsdangerous-1.1.0.dist-info\LICENSE.rst
- Jinja2
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\Jinja2-2.11.1.dist-info\LICENSE.rst
- Mako
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\Mako-1.1.2.dist-info\LICENSE
- MarkupSafe
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\MarkupSafe-1.1.1.dist-info\LICENSE.rst
- packaging
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\packaging-20.3.dist-info\LICENSE
- paramiko
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\paramiko-2.7.1.dist-info\LICENSE.txt
- passlib
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\passlib-1.7.1.dist-info\METADATA
- pip
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\pip-20.0.2.dist-info\LICENSE.txt
- psutil
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\psutil-5.5.1.dist-info\LICENSE
- pycopg2
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\pycopg2-2.8.5.dist-info\LICENSE
- pycparser
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\pycparser-2.20.dist-info\LICENSE
- PyNaCl
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\PyNaCl-1.3.0.dist-info\LICENSE.txt
- pyparsing
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\pyparsing-2.4.7.dist-info\LICENSE
- python-dateutil
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\python_dateutil-2.8.1.dist-info\LICENSE
- python-editor
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\python_editor-1.0.4.dist-info\METADATA
- pytz
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\pytz-2018.9.dist-info\LICENSE.txt
- setuptools
  <Windows FUJITSU Enterprise Postgres Client install dir>
  \pgadmin4\venv\Lib\site-packages\setuptools-46.0.0.dist-info\LICENSE
- simplejson
```

```

<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\simplejson-3.16.0.dist-info\LICENSE.txt
- six
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\six-1.14.0.dist-info\LICENSE
- speaklater
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\speaklater-1.3.dist-info\LICENSE
- sphinxcontrib-applehelp
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\sphinxcontrib_applehelp-1.0.2.dist-info
  \LICENSE
- sphinxcontrib-devhelp
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\sphinxcontrib_devhelp-1.0.2.dist-info
  \LICENSE
- sphinxcontrib-htmlhelp
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\sphinxcontrib_htmlhelp-1.0.3.dist-info
  \LICENSE
- sphinxcontrib-jsmath
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\sphinxcontrib_jsmath-1.0.1.dist-info
  \LICENSE
- sphinxcontrib-qthelp
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\sphinxcontrib_qthelp-1.0.3.dist-info
  \LICENSE
- sphinxcontrib-serializinghtml
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages
  \sphinxcontrib_serializinghtml-1.1.4.dist-info\LICENSE
- SQLAlchemy
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\SQLAlchemy-1.3.15.dist-info\LICENSE
- sqlparse
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\sqlparse-0.2.4.dist-info\METADATA
- sshtunnel
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\sshtunnel-0.1.5.dist-info\LICENSE
- urllib3
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\urllib3-1.25.8.dist-info\LICENSE.txt
- virtualenv
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\virtualenv-20.0.10.dist-info\LICENSE
- Werkzeug
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\Werkzeug-1.0.1.dist-info\LICENSE.rst
- wheel
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\wheel-0.34.2.dist-info\LICENSE.txt
- WTForms
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\WTForms-2.2.1.dist-info\METADATA
- zipp
<Windows FUJITSU Enterprise Postgres Client install dir>
\pgadmin4\venv\Lib\site-packages\zipp-3.1.0.dist-info\LICENSE

```

#### A.7 Microsoft Visual C++ 2010 Redistributable Package

Microsoft Visual C++ 2010 redistributable package are included in this software.  
The customer cannot distribute Microsoft Visual C++ 2010 redistributable package.

#### A.8 Microsoft Visual C++ 2013 Redistributable Package

Microsoft Visual C++ 2013 redistributable package are included in this software.  
The customer cannot distribute Microsoft Visual C++ 2013 redistributable package.

#### A.9 Microsoft Visual C++ 2015-2019 Redistributable Package

Microsoft Visual C++ 2015-2019 redistributable package are included in this software.  
The customer cannot distribute Microsoft Visual C++ 2015-2019 redistributable package.

#### Appendix B Viewing FJQSS and FUJITSU Enterprise Postgres HTML Files

If you log in using the built-in Administrator account and attempt to view the FJQSS User's Guide(HTML) from the application menu or Manual(Java API) in the FUJITSU Enterprise Postgres group, the following error message will be output and you may not be able to view the file.

"This app can't open. Internet Explorer can't be opened using the Built-in Administrator account. Sign in with a different account and try again."

In this case, take one of the following actions to resolve the problem:

- As indicated in the message, log in again using an account other than the built-in Administrator account, and then view the above-mentioned document.
- Change the Internet Explorer settings for the built-in Administrator.  
By default, the Internet options are set to "Always in Internet Explorer".  
Change this setting to either of the following options:
  - Let Internet Explorer decide
  - Always in Internet Explorer on the desktop