

Fujitsu Enterprise Postgres

Installation/Uninstallation in Silent Mode (Parameters and Messages)

Linux

July 2024

Preface

Purpose of this document

This document explains the parameters to be specified when installing and uninstalling Fujitsu Enterprise Postgres in silent mode, and explains the installation messages and return values.

Structure of this document

This document is structured as follows:

[Chapter 1 Server Feature](#)

Describes how to install and uninstall the Fujitsu Enterprise Postgres server feature in silent mode.

[Chapter 2 Client Feature](#)

Describes how to install and uninstall the Fujitsu Enterprise Postgres client feature in silent mode.

[Chapter 3 Server Assistant](#)

Describes how to install and uninstall the Fujitsu Enterprise Postgres Server Assistant in silent mode.

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Issue date and version

Edition 3.0: July 2024 Edition 2.0: April 2023 Edition 1.0: January 2022
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Chapter 1 Server Feature

This chapter provides specifications for installation and uninstallation of the server feature in silent mode.

1.1 Installation

This chapter provides specifications for installation.

1.1.1 Specification Format

The installation parameters CSV file, which is specified as the argument for the silent installer, has three columns per line in CSV format.

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

Enter the following settings in respective columns.

Item	Settings	Optional
<i>sectionName</i>	Specify the section name. There are two types of section names: "installinfo": Set the product information. "parameters": Set the parameter information for this product.	Mandatory
<i>parameterName</i>	Specify the parameter name. Each section has a valid parameter.	Mandatory
<i>value</i>	Specify the value.	Optional

Note

- Blank lines cannot be included.
- Section names and parameter names cannot be omitted.
- Undefined parameters cannot be set in lines where the section name is "installInfo". Also, note that the same parameter cannot be specified multiple times.
- Specify at least one line with the section name "parameters".
- Undefined parameters specified in lines within the "parameters" section will be ignored during execution. Note that when the same parameter is specified multiple times, the settings in the lowest line will be valid.
- The setting values for lines where the section name is "installInfo" may contain alphanumeric characters (at least one), and symbols, excluding double quotation marks (") and commas (,).
- The following characters can be used in the setting for rows with the section name "parameters":
Alphanumeric characters, hyphens, commas and forward slashes

Information

The template for the installation parameters CSV file is "*mountPoint/sample/sample.csv*".

1.1.2 List of Parameters

This section describes the parameters that can be set for each section.

installInfo section

The parameters that can be set in the installInfo section are shown below.

No.	Type	Parameter		Description
1	Software ID	Parameter name	Name	Mandatory. Specify the software identifier. For this software, specify the following value: "Fujitsu Enterprise Postgres"
		Value/Range	String	
		Default value	None	

Information

- In addition to "Name", the following parameters can be used in the "installInfo" section.
 - softwareName
 - OS
 - Version
 - Edition
- Note that specifying a parameter name other than "Name" and the parameters listed above will result in an error.
- The values set in these parameters do not affect silent installation.

Example

```
installInfo,Name,Fujitsu Enterprise Postgres
```

parameters section

The parameters that can be set in the parameters section are shown below.

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

No.	Type	Parameter		Description
1	Whether to install the server	Parameter name	ServerInstallExecute	Optional. Specify whether to run the installation of the server. Y: Install No: Do not install
		Value/Range	Y or N	
		Default value	Y	
2	Installation destination of the server	Parameter name	ServerInstallPath	Optional. Specify the installation destination of the software. The root directory (/) cannot be specified.
		Value/Range	Path name	
		Default value	/opt/fsepv<x>server64	
3	Whether to install the client (64-bit)	Parameter name	Client64InstallExecute	Optional. Specify whether to run the installation of the client (64-bit). Y: Install N: Do not install
		Value/Range	Y or N	
		Default value	Y	

No.	Type	Parameter		Description
4	Installation destination of the client (64-bit)	Parameter name	Client64InstallPath	Optional. Specify the installation destination of the client (64-bit). The root directory (/) cannot be specified.
		Value/Range	Path name	
		Default value	/opt/fsepv<x>client64	
5	Whether to install WebAdmin	Parameter name	WebAdminInstallExecute	Optional. Specify whether to run the installation of WebAdmin in multiserver mode. Y: Install N: Do not install
		Value/Range	Y or N	
		Default value	Y	
6	Installation destination of WebAdmin	Parameter name	WebAdminInstallPath	Optional. Specify the installation destination of WebAdmin. The root directory (/) cannot be specified.
		Value/Range	Path name	
		Default value	/opt/fsepv<x>webadmin	
7	Whether to set up WebAdmin	Parameter name	WebSetupExecute	Optional. Specify whether to set up WebAdmin. Y: Setup N: Do not set up This will be ignored if the WebAdmin is not installed.
		Value/Range	Y or N	
		Default value	Y	
8	Web server port number	Parameter name	WebPortNumber1	Optional. Specify the port number of the Web server. This will be ignored if the WebAdmin is not installed.
		Value/Range	1024 to 32767	
		Default value	27515	
9	WebAdmin internal port number	Parameter name	WebPortNumber2	Optional. Specify the WebAdmin internal port number. This will be ignored if the WebAdmin is not installed.
		Value/Range	1024 to 32767	
		Default value	27516	
10	Whether to install Pgpool-II	Parameter name	Pgpool2InstallExecute	Specify whether to run the installation of the Pgpool-II. Y: Install N: Do not install
		Value/Range	Y or N	
		Default value	N	
11	Installation destination of Pgpool-II	Parameter name	Pgpool2InstallPath	Optional. Specify the installation destination of Pgpool-II. The root directory (/) cannot be specified.
		Value/Range	Path name	
		Default value	/opt/fsepv<x>pgpool-II	
12	Whether to install pgBackRest	Parameter name	PgbackrestInstallExecute	Specify whether to run the installation of the pgBackRest. Y: Install N: Do not install
		Value/Range	Y or N	
		Default value	N	

No.	Type	Parameter		Description
				This parameter is valid in Fujitsu Enterprise Postgres 15 SP1 and later.
13	Installation destination of pgBackRest	Parameter name	PgbackrestInstallPath	Optional. Specify the installation destination of pgBackRest. The root directory (/) cannot be specified. This parameter is valid in Fujitsu Enterprise Postgres 15 SP1 and later.
		Value/Range	Path name	
		Default value	/opt/fsepv<x>pgbackrest	

Example

```
parameters,ServerInstallExecute,Y
parameters,ServerInstallPath,
parameters,Client64InstallExecute,Y
parameters,Client64InstallPath,
parameters,WebAdminInstallExecute,Y
parameters,WebAdminInstallPath,
parameters,WebSetupExecute,Y
parameters,WebPortNumber1,27515
parameters,WebPortNumber2,27516
parameters,Pgpool2InstallExecute,Y
parameters,Pgpool2InstallPath,
parameters,PgbackrestInstallExecute,Y
parameters,PgbackrestInstallPath,
```

1.1.3 Messages and Return Values

Messages are output when errors are detected during parametric analysis.

If an error is detected during installation of the product, a message is output to the log:

Log file

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

```
var/log/fsep_SERVER64_media_xyz_install.log
```

Messages and return values

CSV file errors

The following messages are output if errors are detected while parsing CSV files.

Return value	Message	Explanation and actions
4	CSV file error:code = 1, Invalid CSV error.	There is an error in the specification format of the CSV file.
4	CSV file error:code = 2, installInfo/Name is required.	Either installInfo or the Name parameter has not been specified.
4	CSV file error:code = 3, Invalid installInfo key.	There is an error in the installInfo specification. Or the section name is invalid.
4	CSV file error:code = 4, Duplicated installInfo key.	The same parameter has been defined more than once in installInfo.
4	CSV file error:code = 5, Invalid character length.	No setting value is specified, or the specified string is too long.

Return value	Message	Explanation and actions
4	CSV file error:code = 6, Invalid character format or encoding.	An invalid character has been specified in the installation parameters CSV file.
4	CSV file error:code = 8, Parameter is required.	There is no line in the "parameters" section.
20	The input file does not exist.	The input file does not exist.
21	The value of @1@ is incorrect, the value is @2@.	The value is incorrect. Specify the correct value. The parameter name is displayed in @1@. The specified parameter is displayed in @2@.
22	The value same at @1@ and @2@ is specified.	The same value is specified in different parameters. Specify different values. The parameter name is displayed in @1@ and @2@.
23	The @2@ of @1@ already exists.	The path already exists. Specify a different path. The parameter name is displayed in @1@. The specified value is displayed in @2@.
26	Port number @1@ is already used in the service file(/etc/services).	The port number is already being used. Specify an unused port number. The port number is displayed in @1@.
28	There is no product for installation.	No product was specified for installation. Specify "Y" for at least one of the following parameters: - ServerInstallExecute - Client64InstallExecute - WebAdminInstallExecute - Pgpool2InstallExecute - PgbackrestInstallExecute
29	USAGE : silent.sh inputfile	The argument specified in the command is incorrect. Specify the correct argument.

Product installer errors

The following return values are returned when errors occur while the product installer is running.

Return value	Explanation
0	Completed successfully.
3	Failed to setup WebAdmin.
13	Processing was interrupted.
14	The resources required for installation do not exist on the media.
15	The resources required for installation do not exist.
16	Unable to change the permission because the directory does not exist.
17	Failed to install because a required package is missing.
19	A process is running.
30	Failed to copy the installation material.

Return value	Explanation
32	The same version of the same product is already installed.
60	An error occurred in Uninstall (middleware).
61	Failed to install Uninstall (middleware).
62	Uninstall (middleware) was started.
63	The uninstallation cannot be performed either because Uninstall (middleware) does not exist or because there are no execution privileges.
83	Failed to install FJQSS or register information.
85	Different editions of the same generation are installed.
86	A newer version of the product is already installed.
88	Exclusive product is already installed.
99	A system error occurred.
106	The command was not executed with administrator privileges.
110	License registration failed.
129	Unsupported operating system.
200	Failed to install of package.
201	A conflicting package is installed.

1.1.4 CSV File Format

The format of CSV files is based on RFC4180, with the following specifications.

Records

- Separate each record with a "CRLF" newline (operation is not guaranteed with only a "CR" or "LF" newline).
- Specify a newline at the end of a file.
- Separate each field within a record with a halfwidth comma ",".

Format	Record		
aaa,bbb,ccc	aaa	bbb	ccc

- If several commas are entered in succession, or if a comma precedes a newline, the data following the comma is regarded as empty.

Format	Record		
aaa,,ccc	aaa		ccc
aaa,bbb,	aaa	bbb	

- Headers cannot be specified.

Format	Record		
	field1	field2	field 3
aaa,bbb,ccc	aaa	bbb	ccc

Double quotation marks

- Enclose fields that contain newlines, double quotation marks, or commas in double quotation marks.

Format	Record		
"aaa","bb b","ccc"	aaa	bb b	ccc
"aaa","bb,b","ccc"	aaa	bb,b	ccc

- If a double quotation mark is used in a field enclosed with double quotation marks, the first double quotation mark is regarded as an escape character.

Format	Record		
"aaa","bb""b","ccc"	aaa	bb""b	ccc

Note

An error occurs in the following cases:

- Each space, tab, or whitespace character is recognized as one character, and will cause a parameter error.
- A space is entered before or after a field enclosed with double quotation marks.

```
"zzz ", "yyy ", " xxx "
```

- The number of fields differs between records.

```
aaa,bbb
aaa,bbb,ccc
aaa,bbb,ccc,ddd
```

- Fields enclosed with double quotation marks and fields not enclosed with double quotation marks are both used.

```
aaa,"bbb",ccc
"xxx",yyy,"zzz"
```

- The double quotation escape characters are not positioned correctly.

```
"aaa","bb""b","ccc"
```

- Double quotation marks enclose the entire field.

```
"aaa,bbb,ccc"
```

1.2 Uninstallation

This chapter provides specifications for uninstallation.

1.2.1 Messages and Return Values

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.

Server product

```
/var/log/fsep_SERVER64_xyz_uninstall.log
```

Client product

```
/var/log/fsep_CLIENT64_xyz_uninstall.log
```

WebAdmin

```
/var/log/fsep_WEBADMIN_xyz_uninstall.log
```

Pgpool-II

```
/var/log/fsep_PGPOOL2_xyz_uninstall.log
```

pgBackRest

```
/var/log/fsep_PGBACKREST_xyz_uninstall.log
```

Return values

The following return values are output:

Return values	Meaning
0	Uninstallation was successful.
3	WebAdmin unsetup failed.
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.
83	Failed to delete the information from FJQSS.
99	A system error occurred.
100	The command argument is invalid.
106	The command was not executed with administrator privileges.
200	Failed to uninstall of package.

Chapter 2 Client Feature

This chapter provides specifications for installation and installation of the client feature in silent mode.

Note that "<x>" in paths indicates the product version.

2.1 Installation

This chapter provides specifications for installation.

2.1.1 Specification Format

The installation parameters CSV file, which is specified as the argument for the silent installer, has three columns per line in CSV format.

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

Enter the following settings in respective columns.

Item	Settings	Optional
<i>sectionName</i>	Specify the section name. There are two types of section names: "installInfo": Set the product information. "parameters": Set the parameter information for this product.	Mandatory
<i>parameterName</i>	Specify the parameter name. Each section has a valid parameter.	Mandatory
<i>value</i>	Specify the value.	Optional

Note

- Blank lines cannot be included.
- Section names and parameter names cannot be omitted.
- Undefined parameters cannot be set in lines where the section name is "installInfo". Also, note that the same parameter cannot be specified multiple times.
- Specify at least one line with the section name "parameters".
- Undefined parameters specified in lines within the "parameters" section will be ignored during execution. Note that when the same parameter is specified multiple times, the settings in the lowest line will be valid.
- The setting values for lines where the section name is "installInfo" may contain alphanumeric characters (at least one), and symbols, excluding double quotation marks (") and commas (.).
- Do not use the following halfwidth characters in the setting values for lines with the section name "parameters".

W

Windows: # \$ & ' = ^ ~ | @ ` [] ; < > / tab

L

Linux: " # \$ & = ' () ^ ~ \ | @ ` [] { } ; : < > tab

Information

The template for the installation parameters CSV file is as follows:

W

- Windows client: Z:\sample\sample_windows.csv (Z is the drive into which the DVD is inserted.)



- Linux client: *mountPoint/sample/sample_linux.csv*

2.1.2 List of Parameters

This section describes the parameters that can be set for each section.

installInfo section

The parameters that can be set in the installInfo section are shown below.

No.	Type	Parameter		Description
1	Software ID	Parameter name	Name	Mandatory. Specify the software identifier. For this software, specify the following value: "Fujitsu Enterprise Postgres"
		Value/Range	String	
		Default value	None	



Information

- In addition to "Name", the following parameters can be used in the "installInfo" section.
 - softwareName
 - OS
 - Version
 - Edition
- Note that specifying a parameter name other than "Name" and the parameters listed above will result in an error.
- The values set in these parameters do not affect silent installation.

Example

```
installInfo,Name,Fujitsu Enterprise Postgres
```

parameters section

The parameters that can be set in the parameters section are shown below.

No.	Type	Parameter		Description
1	Whether to install the client (32-bit)	Parameter name	Client32InstallExecute	Optional. Specify whether to run the installation of the client (32-bit). Y: Install N: Do not install This parameter is ignored on Linux.
		Value/Range	Y or N	
		Default value	Y	
2	Installation destination of the client (32-bit)	Parameter name	Client32InstallPath	Optional. Specify the installation destination of the client (32-bit).
		Value/Range	Path name	

No.	Type	Parameter		Description
		Default value	<p>W Windows(32-bit) %ProgramFiles%\Fujitsu\fssepv<x>client32 Windows(64-bit) %ProgramFiles(x86)%\Fujitsu\fssepv<x>client32</p> <p>L Linux</p> <p>None.</p>	<p>W A root folder (such as C:\) cannot be specified.</p> <p>L This parameter is ignored on Linux.</p>
3	Whether to install the client (64-bit)	Parameter name	Client64InstallExecute	<p>Optional.</p> <p>Specify whether to run the installation of the client (64-bit).</p> <p>Y: Install</p> <p>N: Do not install</p> <p>W This parameter is ignored on 32-bit operating systems.</p>
		Value/Range	Y or N	
		Default value	Y	
4	Installation destination of the client (64-bit)	Parameter name	Client64InstallPath	<p>Optional.</p> <p>Specify the installation destination of the client (64-bit).</p> <p>W This parameter is ignored on 32-bit operating systems.</p> <p>A root folder (such as C:\) cannot be specified.</p> <p>L A root directory cannot be specified.</p>
		Value/Range	Path name	
		Default value	<p>W Windows(64-bit) %ProgramFiles%\Fujitsu\fssepv<x>client64</p> <p>L Linux</p> <p>/opt/fssepv<x>client64</p>	
5	Whether to install Pgpool-II	Parameter name	Pgpool2InstallExecute	<p>Specify whether to run the installation of the Pgpool-II.</p> <p>Y: Install</p> <p>N: Do not install</p> <p>W This parameter is ignored on Windows.</p>
		Value/Range	Y or N	
		Default value	N	
6	Installation destination of Pgpool-II	Parameter name	Pgpool2InstallPath	<p>Optional.</p> <p>Specify the installation destination of Pgpool-II.</p> <p>W This parameter is ignored on Windows.</p> <p>L A root directory cannot be specified.</p>
		Value/Range	Path name	
		Default value	/opt/fssepv<x>pgpool-II	

No.	Type	Parameter		Description
7	Whether to install pgBackRest	Parameter name	PgbackrestInstallExecute	Specify whether to run the installation of the pgBackRest. Y: Install N: Do not install W This parameter is ignored on Windows. This parameter is valid in Fujitsu Enterprise Postgres 15 SP1 and later.
		Value/Range	Y or N	
		Default value	N	
8	Installation destination of pgBackRest	Parameter name	PgbackrestInstallPath	Optional. Specify the installation destination of pgBackRest. W This parameter is ignored on Windows. L A root directory cannot be specified. This parameter is valid in Fujitsu Enterprise Postgres 15 SP1 and later.
		Value/Range	Path name	
		Default value	/opt/fsepv<x>pgbackrest	
9	Whether to install ldap2pg	Parameter name	Ldap2pgInstallExecute	Specify whether to run the installation of the ldap2pg. Y: Install N: Do not install W This parameter is ignored on Windows. This parameter is valid in Fujitsu Enterprise Postgres 16 and later.
		Value/Range	Y or N	
		Default value	N	
10	Installation destination of ldap2pg	Parameter name	Ldap2pgInstallPath	Optional. Specify the installation destination of ldap2pg. W This parameter is ignored on Windows. L A root directory cannot be specified. This parameter is valid in Fujitsu Enterprise Postgres 16 and later.
		Value/Range	Path name	
		Default value	/opt/fsepv<x>ldap2pg	

Example

```
parameters,Client64InstallExecute,Y
parameters,Client64InstallPath,
parameters,Pgpool2InstallExecute,Y
parameters,Pgpool2InstallPath,
```

```
parameters,PgbackrestInstallExecute,Y
parameters,PgbackrestInstallPath,
parameters,Ldap2pgInstallExecute,Y
parameters,Ldap2pgInstallPath,
```

2.1.3 Messages and Return Values

Messages are output when errors are detected during parametric analysis.

If an error occurs during installation of the product, a message is output to the log.

Log file

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

W

Windows

```
%TEMP%\fsep_CLIENT_media_xyz.log
```

L

Linux

```
/var/log/fsep_CLIENT_media_xyz_install.log
```

Messages and return values

CSV file errors

The following messages are output if errors are detected while parsing CSV files.

Return value	Message	Explanation and actions
4	CSV file error:code = 1, Invalid CSV error.	There is an error in the specification format of the CSV file.
4	CSV file error:code = 2, installInfo/Name is required.	There is an error in the specification format of the CSV file.
4	CSV file error:code = 3, Invalid installInfo key.	There is an error in the installInfo specification. Or the section name is invalid.
4	CSV file error:code = 4, Duplicated installInfo key.	The same parameter has been defined more than once in installInfo.
4	CSV file error:code = 5, Invalid character length.	No setting value has been specified, or the specified string is too long.
4	CSV file error:code = 6, Invalid character format or encoding.	An invalid character has been specified in the installation parameters CSV file.
4	CSV file error:code = 8, Parameter is required.	The "parameters" section has no lines.
20	The input file does not exist.	The input file does not exist.
21	The value of @1@ is incorrect,the value is @2@.	The value is incorrect. Specify the correct value. The parameter name is displayed in @1@. The specified value is displayed in @2@.
22	The value same at @1@ and @2@ is specified.	The same value is specified in different parameters. Specify different values. The parameter name is displayed in @1@ and @2@.
23	The @2@ of @1@ already exists.	The path already exists. Specify a different path. The parameter name is displayed in @1@.

Return value	Message	Explanation and actions
		The specified value is displayed in @2@.
24	Drive @2@ of @1@ does not exist.	The drive does not exist. Specify an existing drive. The parameter name is displayed in @1@. The specified value is displayed in @2@.
28	There is no product for installation.	There is no product to be installed. Specify "Y" for at least one of the following parameters: W Windows - Client32InstallExecute - Client64InstallExecute L Linux - Client64InstallExecute - Pgpool2InstallExecute - PgbackrestInstallExecute - Ldap2pgInstallExecute
29	W Windows USAGE : silent.bat inputfile L Linux USAGE : silent.sh inputfile	The argument specified in the command is incorrect. Specify the correct argument.

Product installer errors

The following return values are returned when errors occur while the product installer is running.

W

Windows

Return value	Explanation
0	Completed successfully.
14	The resources required for installation do not exist on the media.
32	The same version of the same product is already installed.
60	An error occurred in Uninstall (middleware).
61	Failed to install Uninstall (middleware).
62	Uninstall (middleware) was started.
74	Failed to write to the registry.
79	Failed to load the registry.
85	Different editions of the same generation are installed.
86	A newer version of the product is already installed.
88	Exclusive product is already installed.
129	The operating system is not supported.
142	Insufficient disk space at the installation destination.
144	The command was not executed with administrator privileges.
200	Failed to install of package.

Return value	Explanation
201	A conflicting package is installed.
220	Failed to create a folder in the installation folder.
221	Failed to create files in the installation folder.
251	An error occurred when running a system function.
255	An internal inconsistency occurred.



Linux

Return value	Explanation
0	Completed successfully.
13	Processing was interrupted.
14	The resources required for installation do not exist on the media.
15	The resources required for installation do not exist.
16	Unable to change the permission because the directory does not exist.
17	Failed to install because a required package is missing.
19	A process is running.
30	Failed to copy the installation resources.
32	The same version of the same product is already installed.
60	An error occurred in Uninstall (middleware).
61	Failed to install Uninstall (middleware).
62	Uninstall (middleware) was started.
63	The uninstallation cannot be performed either because Uninstall (middleware) does not exist or because there are no execution privileges.
85	Different editions of the same generation are installed.
86	A newer version of the product is already installed.
88	Exclusive product is already installed.
99	A system error occurred.
106	The command was not executed with administrator privileges.
129	Unsupported operating system.
200	Failed to install of package.
201	A conflicting package is installed.

2.1.4 CSV File Format

The format of CSV files is based on RFC4180, with the following specifications.

Records

- Separate each record with a "CRLF" newline (operation is not guaranteed with only a "CR" or "LF" newline).
- Specify a newline at the end of a file.
- Separate each field within a record with a halfwidth comma ",".

Format	Record		
aaa,bbb,ccc	aaa	bbb	ccc

- If several commas are entered in succession, or if a comma precedes a newline, the data following the comma is regarded as empty.

Format	Record		
aaa,,ccc	aaa		ccc
aaa,bbb,	aaa	bbb	

- You cannot specify a header.

Format	Record		
	field1	field2	field 3
aaa,bbb,ccc	aaa	bbb	ccc

Double quotation marks

- Enclose fields that contain newlines, double quotation marks, or commas in double quotation marks.

Format	Record		
"aaa","bb b","ccc"	aaa	bb b	ccc
"aaa","bb,b","ccc"	aaa	bb,b	ccc

- If a double quotation mark is used in a field enclosed with double quotation marks, the first double quotation mark is regarded as an escape character.

Format	Record		
"aaa","bb""b","ccc"	aaa	bb"b	ccc



Note

An error occurs in the following cases:

- Each space, tab, or whitespace character is recognized as one character, and will cause a parameter error.
- A space is entered before or after a field enclosed with double quotation marks.

"zzz ", "yyy ", " xxx "

- The number of fields differs between records.

aaa,bbb aaa,bbb,ccc aaa,bbb,ccc,ddd

- Fields enclosed with double quotation marks and fields not enclosed with double quotation marks are both used.

aaa,"bbb",ccc "xxx",yyy,"zzz"

- The double quotation escape characters are not positioned correctly.

"aaa","bb""b","ccc"

- Double quotation marks enclose the entire field.

```
"aaa,bbb,ccc"
```

2.2 Uninstallation

This chapter provides specifications for uninstallation.

2.2.1 Messages and Return Values

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.

W

Windows

64-bit product

```
%TEMP%\fsep_CLIENT64_xyz_uninstall.log
```

32-bit product

```
%TEMP%\fsep_CLIENT32_xyz_uninstall.log
```

L

Linux

64-bit product

```
/var/log/fsep_CLIENT64_xyz_uninstall.log
```

Pgpool-II

```
/var/log/fsep_PGPOOL2_xyz_uninstall.log
```

pgBackRest

```
/var/log/fsep_PGBACKREST_xyz_uninstall.log
```

ldap2pg

```
/var/log/fsep_LDAP2PG_xyz_uninstall.log
```

Return values

The following return values are output:

W

Windows

Return values	Meaning
0	Uninstallation was successful.
64	Failed to install because "Uninstall (middleware)" is running.
74	Failed to write product information (updating registry).
79	Failed to read product information (viewing registry).
144	The command was not executed with administrator privileges.
200	Failed to uninstall of package.

Return values	Meaning
251	An error occurred when running a system function.
255	An internal inconsistency occurred.



Linux

Return values	Meaning
0	Uninstallation was successful.
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 occurred.
100	The command argument is invalid.
106	The command was not executed with administrator privileges.
200	Failed to uninstall of package.

Chapter 3 Server Assistant

This chapter provides specifications for installation and uninstallation of the Server Assistant in silent mode.

Note that "<x>" in paths indicates the product version.

3.1 Installation

This chapter provides specifications for installation.

3.1.1 Specification Format

The installation parameters CSV file, which is specified as the argument for the silent installer, has three columns per line in CSV format.

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

Enter the following settings in respective columns.

Item	Settings	Optional
<i>sectionName</i>	Specify the section name. There are two types of section names: "installInfo": Set the product information. "parameters": Set the parameter information for this product.	Mandatory
<i>parameterName</i>	Specify the parameter name. Each section has a valid parameter.	Mandatory
<i>value</i>	Specify the value.	Optional

Note

- Blank lines cannot be included.
- Section names and parameter names cannot be omitted.
- Undefined parameters cannot be set in lines where the section name is "installInfo". Also, note that the same parameter cannot be specified multiple times.
- Specify at least one line with the section name "parameters".
- Undefined parameters specified in lines within the "parameters" section will be ignored during execution. Note that when the same parameter is specified multiple times, the settings in the lowest line will be valid.
- The setting values for lines where the section name is "installInfo" may contain alphanumeric characters (at least one), and symbols, excluding double quotation marks (") and commas (.).
- Do not use the following halfwidth characters in the setting values for lines with the section name "parameters".

W

Windows: # \$ & ' = ^ ~ | @ ` [] ; < > / tab

L

Linux: " # \$ & = ' () ^ ~ \ | @ ` [] { } ; : < > tab

Information

The template for the installation parameters CSV file is as follows:

W

- Windows Server Assistant: Z:\sample\sample.csv (Z is the drive into which the DVD is inserted.)



- Linux Server Assistant: *mountPoint/sample/sample.csv*

3.1.2 List of Parameters

This section describes the parameters that can be set for each section.

installInfo section

The parameters that can be set in the installInfo section are shown below.

No.	Type	Parameter		Description
1	Software ID	Parameter name	Name	Mandatory. Specify the software identifier. For this software, specify the following value: "Fujitsu Enterprise Postgres"
		Value/Range	String	
		Default value	None	



Information

- In addition to "Name", the following parameters can be used in the "installInfo" section.
 - softwareName
 - OS
 - Version
 - Edition
- Note that specifying a parameter name other than "Name" and the parameters listed above will result in an error.
- The values set in these parameters do not affect silent installation.

Example

```
installInfo,Name,Fujitsu Enterprise Postgres
```

parameters section

The parameters that can be set in the parameters section are shown below.

No.	Type	Parameter		Description
1	Whether to install the server assistant	Parameter name	ArbiterInstallExecute	Optional. Specify whether to run the installation of the Server Assistant. Y: Install N: Do not install
		Value/Range	Y or N	
		Default value	Y	
2	Installation destination of the server assistant	Parameter name	ArbiterInstallPath	Optional. Specify the installation destination of the Server Assistant. W A root folder (such as C:\) cannot be specified. L A root directory cannot be specified.
		Value/Range	Path name	
		Default value	W Windows %ProgramFiles%\Fujitsu\fspepv<x>assistant64	

No.	Type	Parameter	Description
		L Linux /opt/fsepv<x>assistant	

Example

```
parameters,ArbiterInstallExecute,Y
parameters,ArbiterInstallPath,
```

3.1.3 Messages and Return Values

Messages are output when errors are detected during parametric analysis.

If an error occurs during installation of the product, a message is output to the log.

Log file

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

W

Windows

```
%TEMP%\fsep_SERVER_ASSISTANT_media_xyz.log
```

L

Linux

```
/var/log/fsep_SERVER_ASSISTANT_media_xyz_install.log
```

Messages and return values

CSV file errors

The following messages are output if errors are detected while parsing CSV files.

Return value	Message	Explanation and actions
4	CSV file error:code = 1, Invalid CSV error.	There is an error in the specification format of the CSV file.
4	CSV file error:code = 2, installInfo/Name is required.	There is an error in the specification format of the CSV file.
4	CSV file error:code = 3, Invalid installInfo key.	There is an error in the installInfo specification. Or the section name is invalid.
4	CSV file error:code = 4, Duplicated installInfo key.	The same parameter has been defined more than once in installInfo.
4	CSV file error:code = 5, Invalid character length.	No setting value has been specified, or the specified string is too long.
4	CSV file error:code = 6, Invalid character format or encoding.	An invalid character has been specified in the installation parameters CSV file.
4	CSV file error:code = 8, Parameter is required.	The "parameters" section has no lines.
20	The input file does not exist.	The input file does not exist.
21	The value of @1@ is incorrect,the value is @2@.	The value is incorrect. Specify the correct value. The parameter name is displayed in @1@. The specified value is displayed in @2@.
22	The value same at @1@ and @2@ is specified.	The same value is specified in different parameters. Specify different values.

Return value	Message	Explanation and actions
		The parameter name is displayed in @1@ and @2@.
23	The @2@ of @1@ already exists.	The path already exists. Specify a different path. The parameter name is displayed in @1@. The specified value is displayed in @2@.
24	Drive @2@ of @1@ does not exist.	The drive does not exist. Specify an existing drive. The parameter name is displayed in @1@. The specified value is displayed in @2@.
28	There is no product for installation.	There is no product to be installed. Specify "Y" for the following parameters: - ArbiterInstallExecute
29	<div style="background-color: #e6f2ff; padding: 2px;"> W Windows USAGE : silent.bat inputfile </div> <div style="background-color: #e6f2ff; padding: 2px;"> L Linux USAGE : silent.sh inputfile </div>	The argument specified in the command is incorrect. Specify the correct argument.

Product installer errors

The following return values are returned when errors occur while the product installer is running.



Windows

Return value	Explanation
0	Completed successfully.
14	The resources required for installation do not exist on the media.
32	The same version of the same product is already installed.
60	An error occurred in Uninstall (middleware).
61	Failed to install Uninstall (middleware).
62	Uninstall (middleware) was started.
74	Failed to write to the registry.
79	Failed to load the registry.
83	Failed to install FJQSS or register information.
86	A newer version of the product is already installed.
88	Exclusive product is already installed.
129	The operating system is not supported.
142	Insufficient disk space at the installation destination.
144	The command was not executed with administrator privileges.
200	Failed to install of package.
201	A conflicting package is installed.
220	Failed to create a folder in the installation folder.
221	Failed to create files in the installation folder.
251	An error occurred when running a system function.

Return value	Explanation
255	An internal inconsistency occurred.



Linux

Return value	Explanation
0	Completed successfully.
13	Processing was interrupted.
14	The resources required for installation do not exist on the media.
15	The resources required for installation do not exist.
16	Unable to change the permission because the directory does not exist.
17	Failed to install because a required package is missing.
19	A process is running.
30	Failed to copy the installation resources.
32	The same version of the same product is already installed.
60	An error occurred in Uninstall (middleware).
61	Failed to install Uninstall (middleware).
62	Uninstall (middleware) was started.
63	The uninstallation cannot be performed either because Uninstall (middleware) does not exist or because there are no execution privileges.
83	Failed to install FJQSS or register information.
86	A newer version of the product is already installed.
88	Exclusive product is already installed.
99	A system error occurred.
106	The command was not executed with administrator privileges.
129	Unsupported operating system.
200	Failed to install of package.
201	A conflicting package is installed.

3.1.4 CSV File Format

The format of CSV files is based on RFC4180, with the following specifications.

Records

- Separate each record with a "CRLF" newline (operation is not guaranteed with only a "CR" or "LF" newline).
- Specify a newline at the end of a file.
- Separate each field within a record with a halfwidth comma ",".

Format	Record		
aaa,bbb,ccc	aaa	bbb	ccc

- If several commas are entered in succession, or if a comma precedes a newline, the data following the comma is regarded as empty.

Format	Record		
aaa,,ccc	aaa		ccc
aaa,bbb,	aaa	bbb	

- You cannot specify a header.

Format	Record		
	field1	field2	field 3
aaa,bbb,ccc	aaa	bbb	ccc

Double quotation marks

- Enclose fields that contain newlines, double quotation marks, or commas in double quotation marks.

Format	Record		
"aaa","bb b","ccc"	aaa	bb b	ccc
"aaa","bb,b","ccc"	aaa	bb,b	ccc

- If a double quotation mark is used in a field enclosed with double quotation marks, the first double quotation mark is regarded as an escape character.

Format	Record		
"aaa","bb""b","ccc"	aaa	bb"b	ccc

Note

An error occurs in the following cases:

- Each space, tab, or whitespace character is recognized as one character, and will cause a parameter error.
- A space is entered before or after a field enclosed with double quotation marks.

```
"zzz ", "yy ", " xxx "
```

- The number of fields differs between records.

```
aaa,bbb
aaa,bbb,ccc
aaa,bbb,ccc,ddd
```

- Fields enclosed with double quotation marks and fields not enclosed with double quotation marks are both used.

```
aaa,"bb",ccc
"xxx",yy,"zzz"
```

- The double quotation escape characters are not positioned correctly.

```
"aaa","bb""b","ccc"
```

- Double quotation marks enclose the entire field.

```
"aaa,bbb,ccc"
```

3.2 Uninstallation

This chapter provides specifications for uninstallation.

3.2.1 Messages and Return Values

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.

W

Windows

```
%TEMP%\fsep_SERVER_ASSISTANT_xyz_uninstall.log
```

L

Linux

```
/var/log/fsep_SERVER_ASSISTANT_xyz_uninstall.log
```

Return values

The following return values are output:

W

Windows

Return values	Meaning
0	Uninstallation was successful.
64	Failed to install because "Uninstall (middleware)" is running.
74	Failed to write product information (updating registry).
79	Failed to read product information (viewing registry).
83	Failed to delete the information from FJQSS.
144	The command was not executed with administrator privileges.
200	Failed to uninstall of package.
251	An error occurred when running a system function.
255	An internal inconsistency occurred.

L

Linux

Return values	Meaning
0	Uninstallation was successful.
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.
83	Failed to delete the information from FJQSS.
99	A system error occurred.
100	The command argument is invalid.

Return values	Meaning
106	The command was not executed with administrator privileges.
200	Failed to uninstall of package.