



# EPV Products Installation and EXPRESS Customization in Windows



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Supporting

**EPV zParser V15**

**EPV for z/OS V15**

**EPV for Db2 V15**

**EPV for CICS V15**

**EPV for MQ v15**

**EPV Graph for z/OS V15**

**EPV Graph for Db2 V15**

**EPV for zLINUX V15**

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# Contents

About this manual .....	- 4 -
1 Overview .....	- 5 -
2 Installation.....	- 6 -
2.1 DBMS Installation .....	- 6 -
2.1.1 MySQL Server installation and configuration .....	- 6 -
2.1.2 Creation of a MySQL user .....	- 8 -
2.1.3 Microsoft SQL Server installation and configuration.....	- 8 -
2.1.4 Creation of the MS SQL Server user .....	- 8 -
2.2 Preparing products and password folders .....	- 9 -
3 EXPRESS customization .....	- 10 -
3.1 Building the user profile .....	- 11 -
3.2 Manual EPV databases creation.....	- 19 -
3.3 Scheduling.....	- 20 -
3.3.1 Scheduling in “once a day” parsing mode .....	- 20 -
3.3.2 Scheduling in “continuous” parsing mode.....	- 20 -
4 Customer support .....	- 22 -
Attachment A – Installing MYSQL.....	- 23 -
Related documentation.....	- 24 -



## **About this manual**

This manual is intended to help anyone who wants to install and customize the EPV Products suite in a Windows environment.

## **Changes**

Technical changes or additions to the text are indicated by a vertical line to the left of the change.



## 1 Overview

Using this manual, you can perform an easy and quick installation and customization of all the EPV products for the mainframe by using the EXPRESS customization feature.

The EXPRESS customization currently supports collecting data in “once a day” or “continuous” parsing mode.

Collecting data in “once a day” parsing mode is for small amount of SMF input data (up to 20 GB per day), for bigger amounts, the “continuous” parsing mode is preferable.

Please refer to the appropriate product documentation for more details.



## 2 Installation

EPV products support MySQL Server and MS SQL Server; only EPV zParser with Big Data license supports also the CSV repository.

If you want to use the CSV repository with EPV zParser, skip to Chapter 2.2.

To install the EPV products, you need to perform the following steps:

1. DBMS installation (not needed in case of CSV repository);
2. prepare products and password folders.

### 2.1 DBMS Installation

EPV products support MySQL Server (from version 5.5 or later) and MS SQL Server<sup>1</sup>.

If you plan to use the MySQL Server installation please refer to Chapters 2.1.1 and 2.1.2, otherwise refer to Chapters 2.1.3 and 2.1.4.

#### 2.1.1 MySQL Server installation and configuration

To install MySQL, you can use the version (for Windows) provided in the EPV installation CD or you can download the last free version from [www.mysql.com](http://www.mysql.com). The EPV products databases are created during the customization phase.

If you install MySQL for the first time please see attachment A.

If MySQL is already installed, you need to customize the following parameters in order to let EPV zParser work properly:

- set the default-storage-engine (formerly table\_type) parameter to MYISAM;
- set the sql-mode parameter to blank;
- set default-character-set parameter to latin1;
- set the lower\_case\_table\_names parameter to 1;
- remove if exists the join\_buffer\_size parameter (only MySQL version 5.7);
- set secure\_file\_priv="" (only MySQL version 5.7).

MySQL has to be closed and restarted for the modifications to take effect.

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<sup>1</sup> It is possible to load the HDR and TXT files produced by the EPV zParser Reader on any DBMS; the HDR file contains the record layout of the TXT file.

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Note that if you don't have the MySQL Workbench installed you can customize these parameters inside the my.ini file which is the MySQL's main configuration file.

Usually the my.ini file is located in the following path:

C:\Program Files\MySQL\MySQL Server 5.5\my.ini or in C:\Program Data\MySQL\MySQL Server 5.5\my.ini (where 5.5 is an example of the MySQL Version).

Remember that the Program Data folder is hidden by default so in order to display it you need to follow these steps:

**If you have Windows Vista or Windows 7:**

1. Click on the Organize button in any folder, and then select "Folder and Search Options" from the menu;
2. Click the View tab, and then you should select "Show hidden files and folders" in the list;
3. Click OK.

**If you have Windows 8/8.1:**

1. From the Control Panel, type "folder" in the search box and select Folder Options;
2. Select "Show hidden files and folders" in the list;
3. Click Apply and then OK.

**If you have Windows 10:**

1. Open a folder of your choice;
2. Select the 'Visualize' tab from the top of the window;
3. Check 'Hidden elements'.

For all the other Windows versions please refer to the relevant documentation.

**WARNING:** Whether you change the MySQL parameters from the MySQL Workbench or whether you change them from the my.ini file remember that MySQL has to be closed and restarted for the modifications to take effect.



### 2.1.2 Creation of a MySQL user

Once you have installed and configured MySQL software you can create a dedicated user for the EPV products or use the root user defined at installation time. To create a dedicated user (epv in the following example) please type the following commands in the DOS window:

```
cd PathToMysqbin2  
mysql --user=root --password=root_pwd
```

From the MySQL shell perform the following commands:

- MySQL>  
GRANT ALL PRIVILEGES ON \*.\* TO epv@localhost IDENTIFIED BY 'epv' WITH GRANT OPTION;
- MySQL>  
GRANT ALL PRIVILEGES ON \*.\* TO epv@%' IDENTIFIED BY 'epv' WITH GRANT OPTION;
- MySQL>QUIT;

### 2.1.3 Microsoft SQL Server installation and configuration

Please follow the Microsoft documentation to perform the MS SQL Server installation. The licensed MS SQL Server standard edition is supported by EPV products.

**WARNING:** In case the MS SQL Server and the EPV suite are installed on two different servers (remote installation) remember to install the SQL Server Management Studio, which is shipped with each SQL Server version, on both the servers.

### 2.1.4 Creation of the MS SQL Server user

Once you have installed and configured MS SQL Server you can work with the “sa” user or create a dedicated user for EPV. To create a dedicated user, open the SQL Server Management Studio utility and perform the following steps:

- Expand the “Security” folder in the tab on the left; open the Logins folder inside there are all the defined users.
- Right click on the Logins folder, a popup menu will appear, select then the “New Login” option. It will prompt a new window with the login properties.
- In the “Login Name” type the name of your new user (e.g. epvuser).
- Choose the type of authentication (Windows or SQL). We suggest to choose “SQL Server authentication” and type a password for your SQL Server user.
- On the left side, in the Select a Page box, choose the “Server Roles” tab and select the options:

<sup>2</sup> Please substitute the right path to the *bin* folder inside the MySQL product structure.





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In case the database will be created with the EPV Setup:

1. sysadmin
2. dbcreator
3. bulkadmin

In case the database will be manually created by the DBA:

1. bulkload
2. dbowner
3. bulkadmin

- Click ok. Now you have created your SQL Server user

## 2.2 Preparing products and password folders

In Windows systems you have to copy the whole EPVROOT folder (and its subfolders /PASSWORD, /PRODUCTS, /SETUP, /TOOLS, /DOCUMENTS and /USERPROFILE) from the EPV Installation package to a freely chosen position. From here on the “*\$ENV{EPVPATH}*” variable should be substituted with the path where the installation software was copied.

**WARNING:** Those folders should not be copied to the disk drive root folder, so we recommend to create a folder in the root (e.g. *\$ENV{EPVPATH}=/EPVROOT*) and copy the /PASSWORD, /PRODUCTS, /SETUP, /TOOLS, /DOCUMENTS and /USERPROFILE folders into it. Please remember that the path where the EPVROOT will be copied must not contain special characters (such as: \$,#,\*,£ etc..) because they will disrupt EPV processing.

Products licenses will be separately provided in files named LICENSE\_product.EPV; they have to be copied into the PASSWORD folder.



### 3 EXPRESS customization

The EPV Setup has been designed to run on a Windows system; however, you can create a profile that can be used to run the EPV products on Unix or Linux.

The created profile (Windows or Unix/Linux) can be modified manually or by using the EPV Setup in advanced mode. See products installation manuals for details.

To start the EXPRESS customization, you must enter the SETUP folder and run the EPV\_Setup.exe program.

The first time that you run the EPV Setup, you'll see the window in Figure 1.

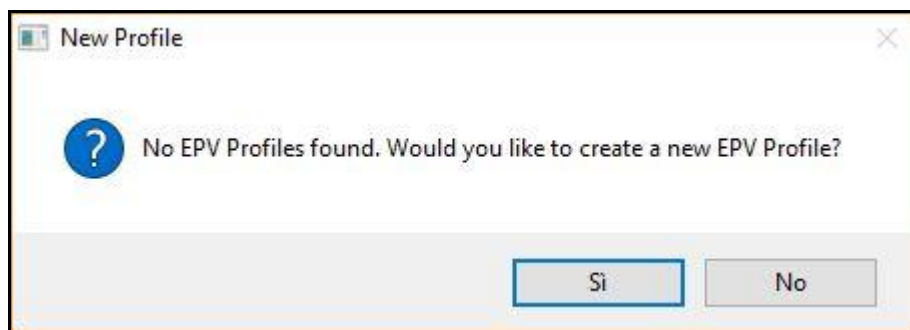


Figure 1

To proceed with the EXPRESS customization, you have to select EXPRESS (Figure 2).

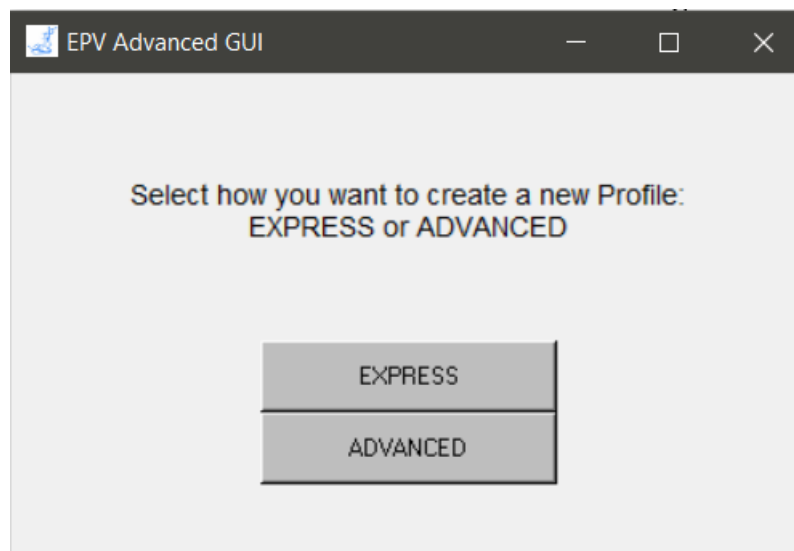


Figure 2



### 3.1 Building the user profile

In the next window, (see Figure 3) you have to insert a name of your choice for the profile that you want to create and click the NEXT --> button.

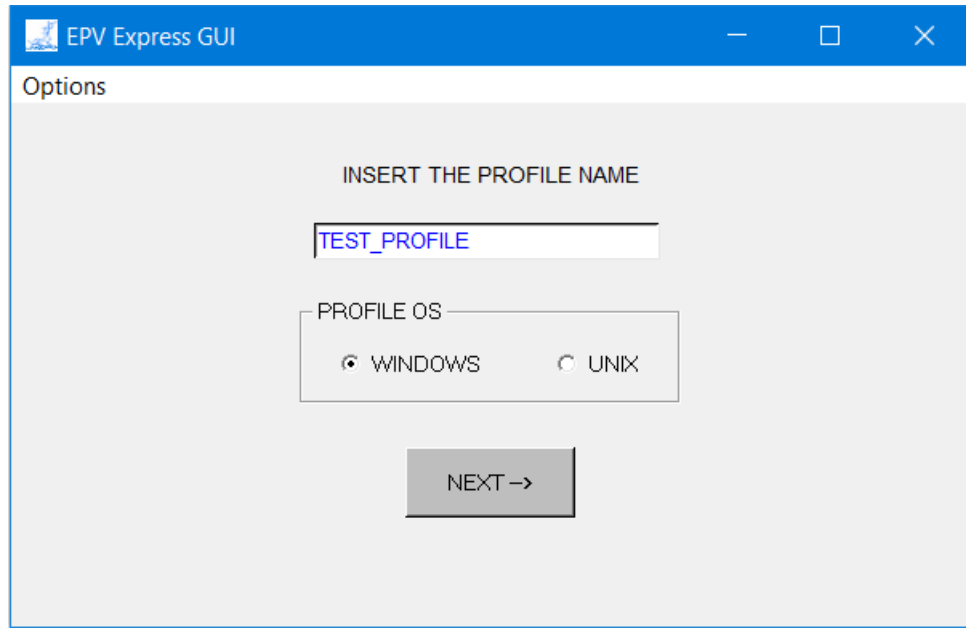


Figure 3

**NOTE:** as you can see two radio buttons are provided in the window in Figure 3: WINDOWS and UNIX (the UNIX type supports also Linux systems). They allow to create the profile type appropriate to the Operative System where EPV Products have to run: WINDOWS is the default.

You will get the window in Figure 4. To complete the profile creation, you have to customize the parameters in the General Parameters, Input Folders and Other Settings tabs.

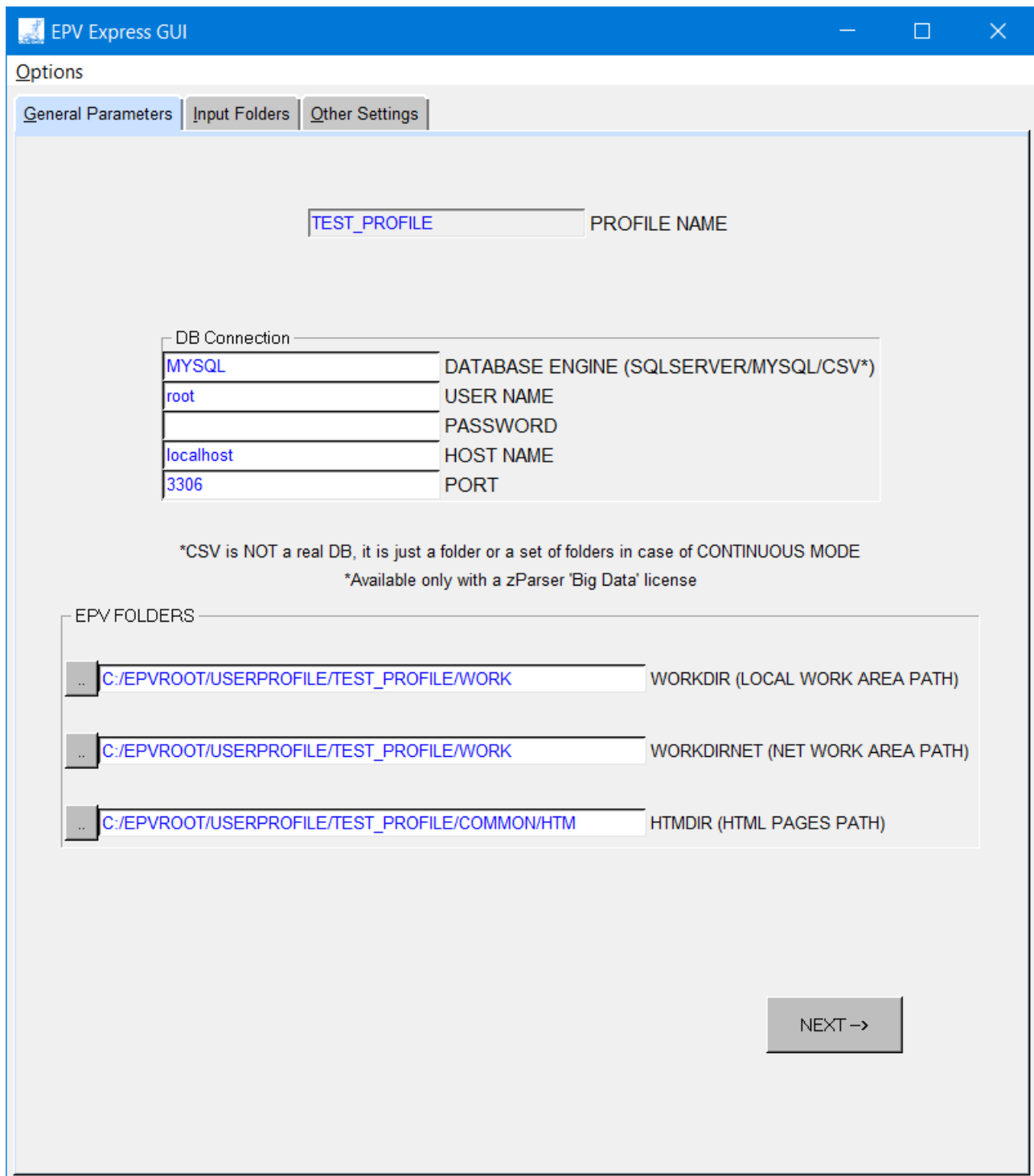


Figure 4

### General Parameters

In the DB Connection window you have to set:



- 
- DATABASE ENGINE (SQLSERVER/MYSQL/CSV) to the DB type<sup>3</sup> you are going to use. If you use the CSV repository you only need to set the HOST NAME and do not care about the other parameters; only available with zParser's 'Big Data' license;
  - USER NAME = user name to access the DB;
  - PASSWORD = password associated to the above user name;
  - HOST NAME = Host Name where your DB server is running, maybe a network name (when using SQLSERVER, you must provide HOSTNAME\INSTANCENAME<sup>4</sup>) or the path (specified using the / character) in which you want to create the CSV folders if you're using the CSV repository (e.g.: C:/CSVDB);
  - PORT = TCP/IP port number where your DB server is listening to; default is 3306 for MySQL or 1433 for SQLSERVER.

In the EPV FOLDERS, you have to set:

- WORKDIR = folder where the EPV zParser Reader will output .TXT and .HDR files which are the result of the parsing phase;
- WORKDIRNET = folder where the EPV zParser Loader will read the .TXT and .HDR files to load them in the DBs;
- HTMDIR = folder where your produced HTML pages will be put; it is used by EPV for z/OS, EPV Graph for z/OS, EPV for DB2 and EPV for WMQ (not by EPV zParser).

The \$WORKDIR and \$WORKDIRNET parameters allow you to separate the EPV zParser code, the DBs and the work areas on different systems.

The following scenarios can be implemented:

a) they are in the same system and the work areas are local to both of them:

\$WORKDIR = \$WORKDIRNET (e.g. C:/WORK)

b) they are in different systems the work areas are remote to both of them:

\$WORKDIR = \$WORKDIRNET (e.g. //remote\_system/WORK)

c) they are in different systems the work areas are local to the EPV zParser code and therefore remote to the DBs:

\$WORKDIR = C:/WORK

\$WORKDIRNET = //system\_EPV\_zParser\_code/WORK

d) they are in different systems the work areas are local to DBs and therefore remote to the EPV zParser:

\$WORKDIR = //system\_EPV\_zParser\_DBs/WORK

\$WORKDIRNET = C:/WORK

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<sup>3</sup> In case of CSV repository, no DB will be used. CSV files will be put inside folders.

<sup>4</sup> In some cases when the DB is remote it is necessary to provide the following string:

HOSTNAME\INSTANCENAME,PortNumber.



After completing your customizations click NEXT-->.

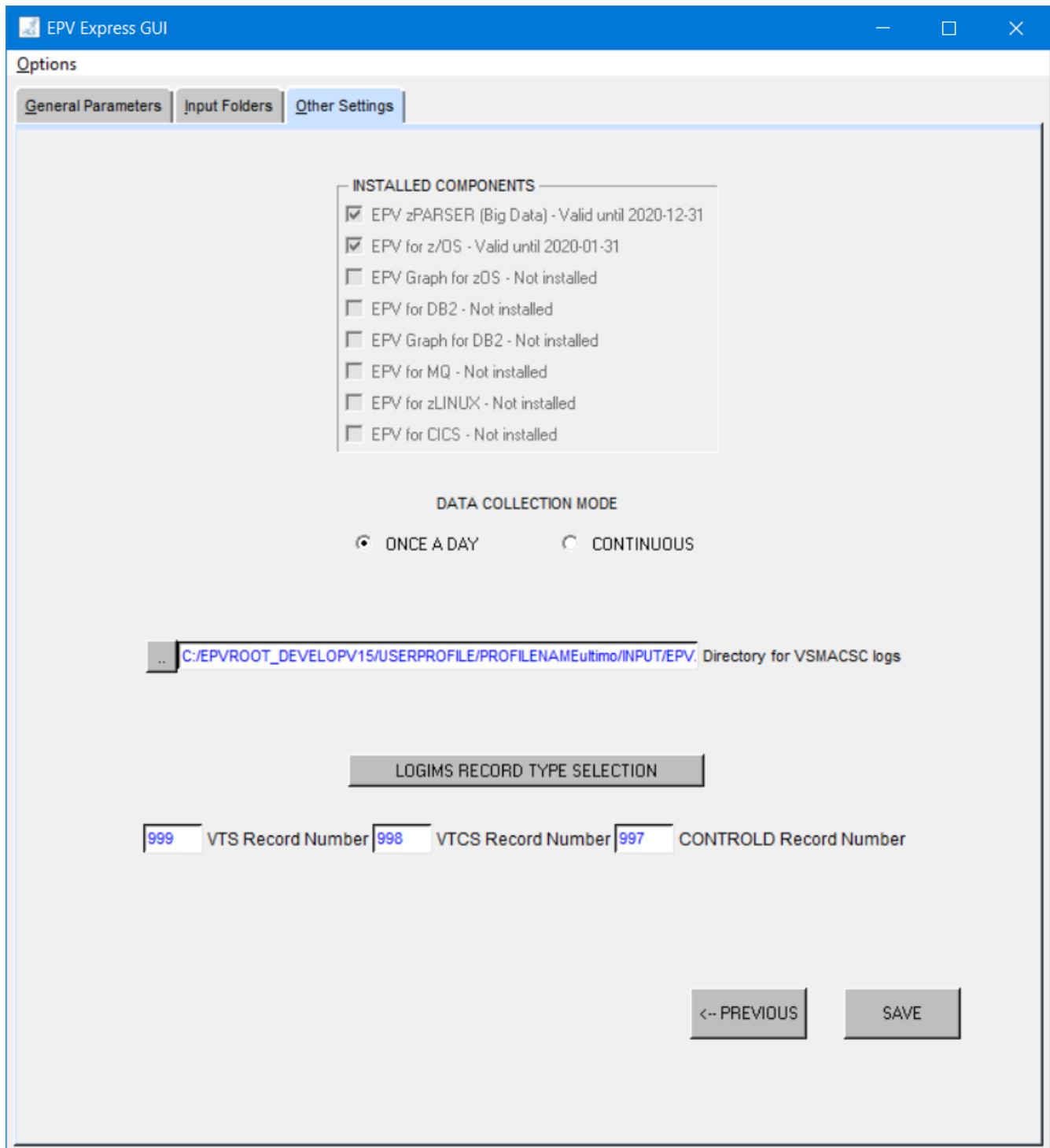


Figure 5



### Input Folders

In Figure 5 all the possible input folder types are listed; a default path is provided for each one of them. By clicking on the default path, you can remove it; then you can click the button on the right of each entry to set the desired path and folder.

**NOTE:** parsing of CSV is only supported when zParser in full mode is licensed.  
Please refer to “EPV zParser V15 Installation and Customization” manual for more info.

After you have set all the needed input folders, click NEXT-->.

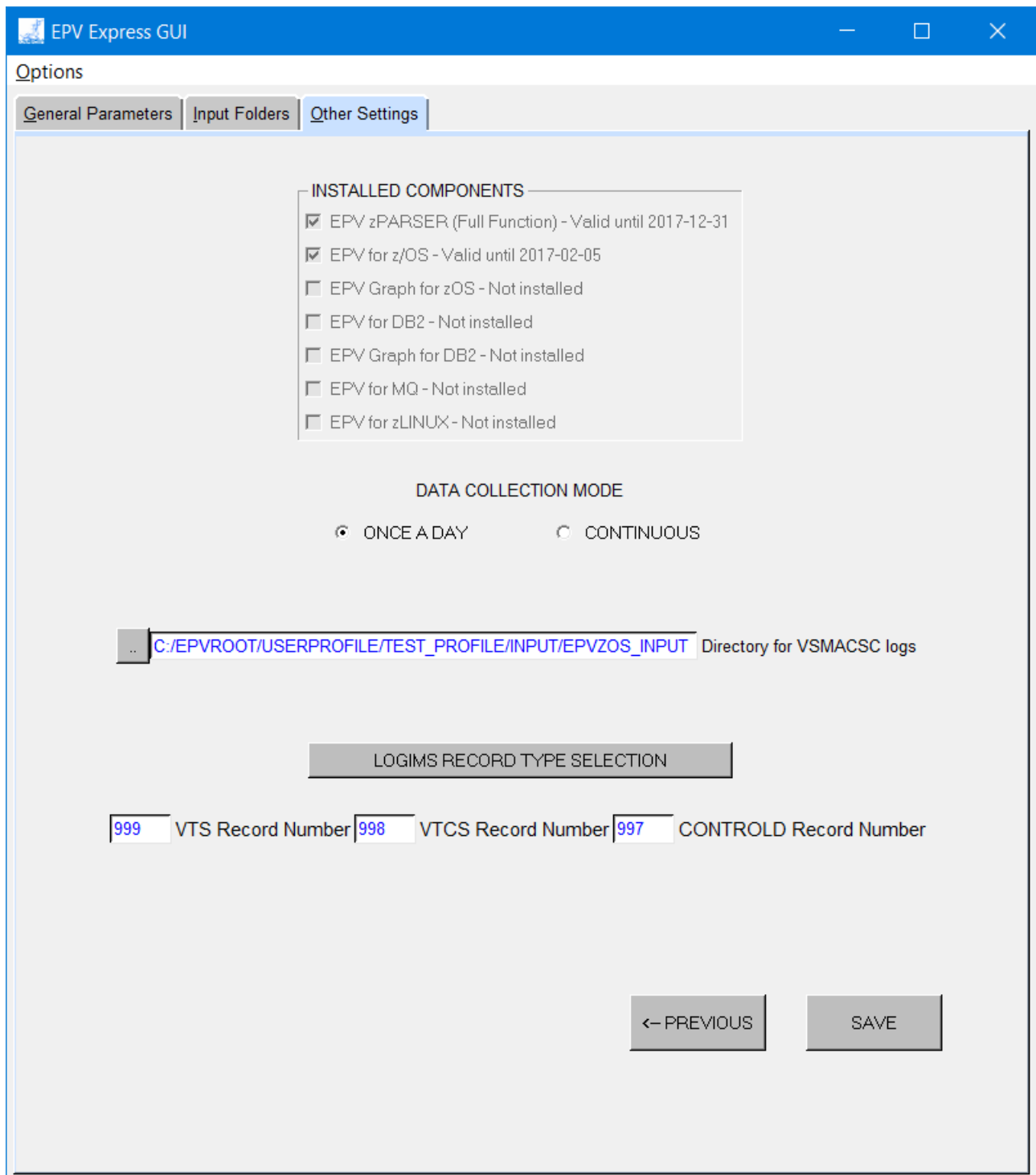


Figure 6





Other settings

**NOTE:** the EXPRESS customization will also prepare the other licensed EPV products, shown in the installed components box, by using the provided default values. If you want to customize them, please refer to the appropriate EPV product installation manual.

Other optional parameters that may need to be customized are:

- the input directory for VSMACSC logs (see the EPV for z/OS Installation and Customization manual);
- the input directory for DB2 files, only displayed if you have the product installed (see the EPV for DB2 Installation and Customization manual);
- IMS release in the IBM LOGIMS box (only if you want to load IMS log records, see Figure 8);
- SMF user record number of BVIR (IBM VTS) data;
- SMF user record number of VTCS (ORACLE VSM) data;
- SMF CONTROL-D user record number;
- Data collection mode, select the ONCE A DAY or CONTINUOUS parsing mode; the first is for small amount of SMF input data (up to 20 GB per day) the second for bigger installations;
- LOGIMS record type selection (only if you want to load LOGIMS): LOGIMS 7 & 8, LOGIMS FA and LOGIMS 56 FA.

If you choose CONTINUOUS, a pop up window (see Figure 7) will be displayed asking you to set the number of staging databases<sup>5</sup>; EPV zParser provides a feature called Staging DB; its main purpose is to permit the continuity of the EPV zParser processing by using a set of DBs from a minimum of 2 to a maximum of 99;

For more details about staging DB and agents please refer to the “EPV zParser V15 Installation and Customization” manual.

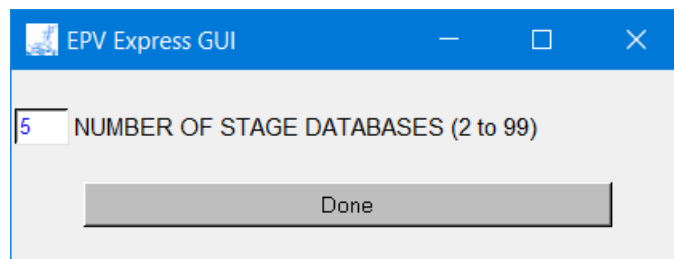


Figure 7

Click Done.

Then if you want to load LOGIMS records and you click the ‘LOGIMS RECORD TYPE SELECTION’ button, the following popup will appear (Figure 8).

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<sup>5</sup> In case of CSV repository, no DB will be used. CSV files will be put inside folders.

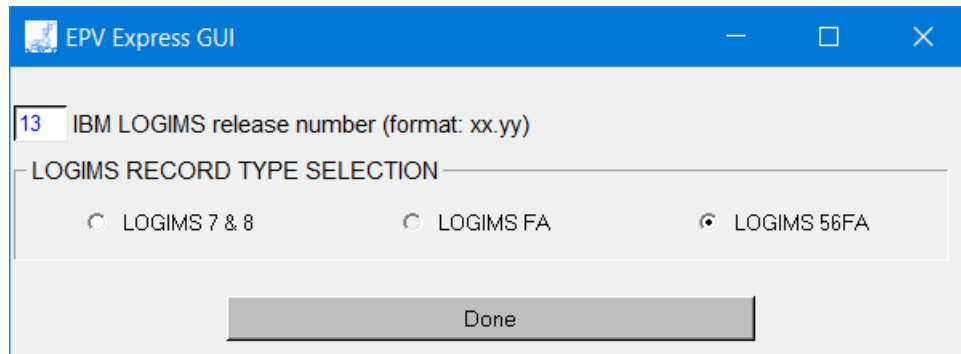


Figure 8

Configure the prompted parameters and click Done.  
Then click SAVE.

Now you will be prompted to check the DB connection. If you get an error, you should check the parameter you set otherwise progress bars will be shown and the user profile will be saved. The popup window in Figure 9 will appear, asking you to allocate all the databases needed by the EPV Products suite.

**INFORMATION:** In case you want to create the databases later on, you can stop here with the Express Customization and follow the instructions contained in Chapter 3.2

In case of CSV repository, all the folders, where the CSV files have to be saved, will be created. The creation path you have specified as MYHOST in the DB connection parameters will be used.

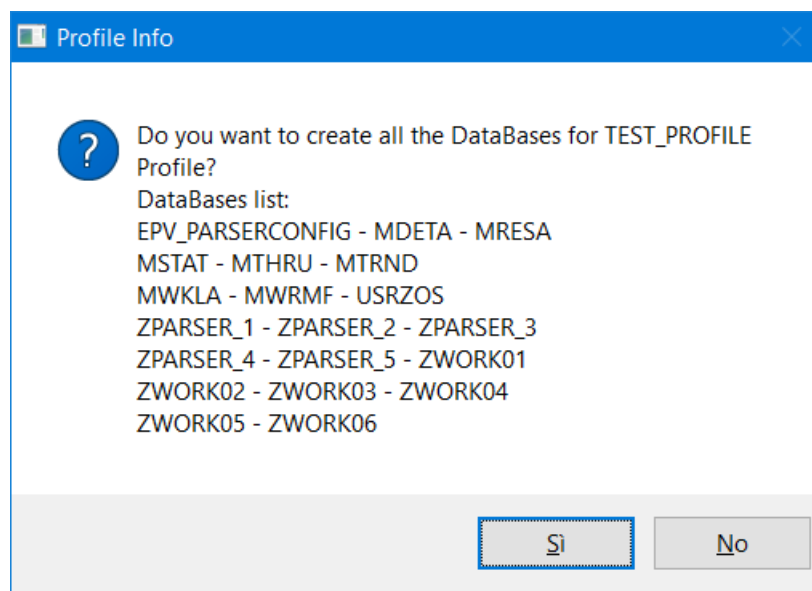


Figure 9



Choose YES if you want the procedure to allocate them or choose NO if you want to perform this step later.

Finally, when using MS SQL Server, you will be also prompted to specify database and log paths as shown in Figure 10.

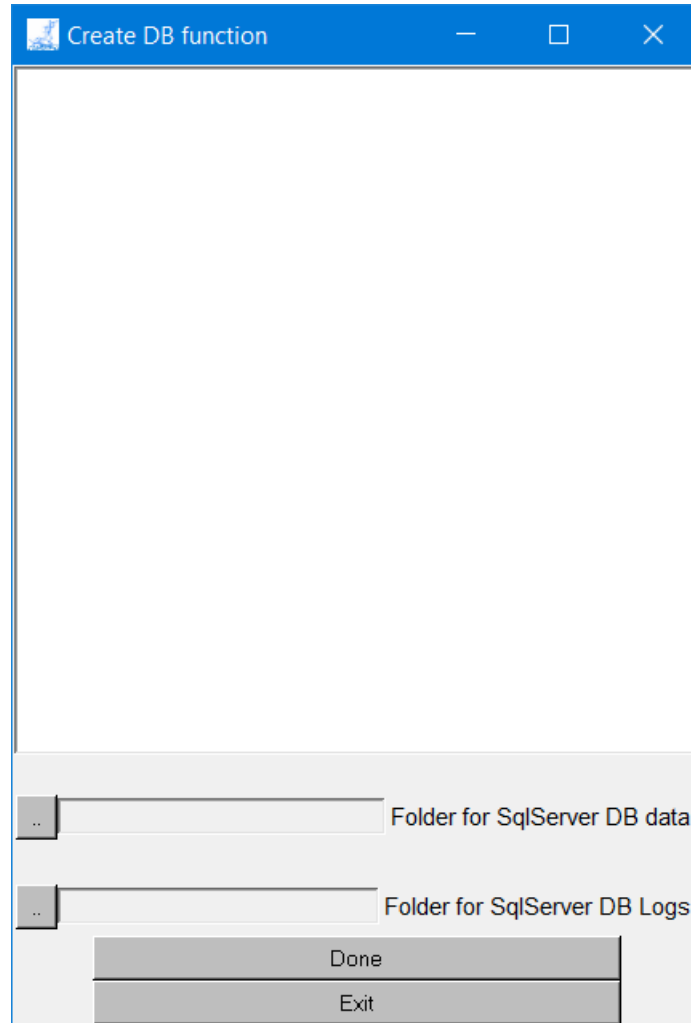


Figure 10

Set appropriate paths and click Done.

### 3.2 Manual EPV databases creation

In order to create the EPV databases without using the Express Customization, you need to run EPVzParserConfigDBUpdater\_RestoreDefault.(BAT/sh) located in \$EPVPATH/USERPROFILE/\$profilename/EPVZPARSER/PROCS.

This procedure reads your configuration parameters, allocates all the needed databases, tables and stored procedures.



If, after some time, you need to change the number of your EPV zParser Staging databases, you can run EPVzParserConfigDBUpdater\_Edit.(BAT/sh) and follow the prompted instructions.

NOTE: In ‘Continuous Mode’, the procedure will create the zParser Staging databases plus a configuration database called EPV\_ParserConfig.

### 3.3 Scheduling

As mentioned, you can run in “ONCE A DAY” or “CONTINUOUS” parsing mode (see the “EPV zParser V15 Installation and Customization” manual for more details).

#### 3.3.1 Scheduling in “once a day” parsing mode

To run the EPV products, in a “once a day” mode, you have to:

- 1) **Prepare the input files;** schedule the needed procedures in z/OS (or z/VM) in order to put your input files<sup>6</sup> in the appropriate input folders.
- 2) **Run the data collection process;** to run data collection, including all the installed EPV products processing, you have to schedule the ALLPHASES.BAT file daily.

#### 3.3.2 Scheduling in “continuous” parsing mode

To run the EPV products, in a “continuous” mode, you have to:

1) **Run the EPVzParserAgentsHandler.BAT:**

It is provided in the ../USERPROFILE/\$Profilename/EPVZPARSER/PROCS/AGENT\_PROCS folder;

- 2) **Prepare the input files:** when EPVzParserAgentsHandler is running, you must perform the following steps in order to parse and collect data:
- send the input files you want to process in the previously defined input folders;
  - after the end of each file transfer you need to send a FLAG (an empty file) with the same exact name of the file already sent, with the ‘\_END’ suffix (e.g.: if the name of the file is SMFRC the flag must be named as SMFRC\_END).

**WARNING:** the FLAG file must be without any extension.

- 3) **Run the daily consolidation process;** daily data consolidation, including all the installed products processing, is automatically initiated by EPVzParserAgentsHandler when a file named STARTBTC is received in any of the input FTP folders.

<sup>6</sup> Input files can also be compressed in zip format.



**DAYLIGHT SAVING TIME WARNING:** During the change of the hour to or from Daylight Saving Time the STARTBTC flag must be scheduled far away from the time change. This operation is needed in order to avoid sending the flag twice or do not send it at all.



## **4 Customer support**

For any technical problem with or question about the EPV products please write an email to:

[epv.support@epvtech.com](mailto:epv.support@epvtech.com)

For any other issue about EPV products please write an email to:

[epv.info@epvtech.com](mailto:epv.info@epvtech.com)



## Attachment A – Installing MYSQL

### MySQL installation in Windows

Please note that the installation procedure described in this document refers to MySQL 5.5; installing a different version of MySQL may require some changes.

The following tools are needed to install the MySQL database. It is provided in the EPV installation cd:

1. mysql-5.5.46-win32.msi or mysql-5.5.46-win64.msi
2. mysql-administrator-1.1.9-win.msi
3. mysql-query-browser-1.1.20-win.msi
4. mysql-workbench-gpl-5.2.47-win.msi

1. Install the **mysql-5.5.46-win32.msi** following the steps of the setup wizard.

Be sure to set the following parameters:

- Choose ‘Developer Machine’<sup>7</sup>
- Choose ‘Non-Transactional Database Only’
- Choose ‘Decision Support (DSS)/OLAP’
- Check ‘Enable TCP/IP Networking’ and leave the port number to 3306
- Uncheck ‘Enable Strict Mode’
- Choose ‘Latin1’ as character set
- Check ‘Install As Windows Service’
- Check ‘Include Bin Folder in Windows PATH’
- Choose a password for the root user

2. Install the **mysql-administrator-1.1.9-win.msi**:

- Choose ‘Complete’

3. Install the **mysql-query-browser-1.1.20-win.msi**:

- Choose ‘Complete’

4. Install the **mysql-workbench-gpl-5.2.47-win.msi**:

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<sup>7</sup> If you have a dedicated machine for MySQL, you can choose the ‘Dedicated MySQL Server Machine’ option to let databases use more memory and work faster.

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## Related documentation

The following manuals complement the information provided in this manual:

- *EPV zParser V15 Installation and Customization*
- *EPV for z/OS V15 Installation and Customization*
- *EPV Graph for z/OS V15 Installation and Customization*
- *EPV for Db2 V15 Installation and Customization*
- *EPV Graph for Db2 V15 Installation and Customization*
- *EPV for CICS V15 Installation and Customization*
- *EPV for MQ V15 Installation and Customization*
- *EPV for zLINUX V15 Installation and Customization*
- *EPV V15 Operations Guide*
- *EPV V15 Messages and Codes*