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# WAY4Tools

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# Introduction

This document is intended for WAY4 Cards system administrators (bank or processing centre employees).

The following notation is used in the document:

- Field labels in screen forms are shown in *italics*.

- Key combinations are shown in angular brackets, for example, <Ctrl>+<F3>.

- Names of screen form buttons and tabs are shown in square brackets, for example, [Approve].

- Sequences for selecting user menu items or context menu items are shown using arrows as follows: "Issuing → Contracts Input & Update".

- Sequences for selecting system menu items are shown using arrows as follows: Database => Change password.

- Variables that differ for each local instance, such as directory and file names, as well as file paths are shown in angular brackets, as in <OWS_HOME>.

Warnings and information are marked as follows:

> (!) Warnings about potentially hazardous situations or actions.

> (i) Messages with information about important features, additional options, or the best use of certain system functions.

# Chapter 1. Overview

The WAY4Tools utility is used to perform administrative actions with the WAY4 database (DB).
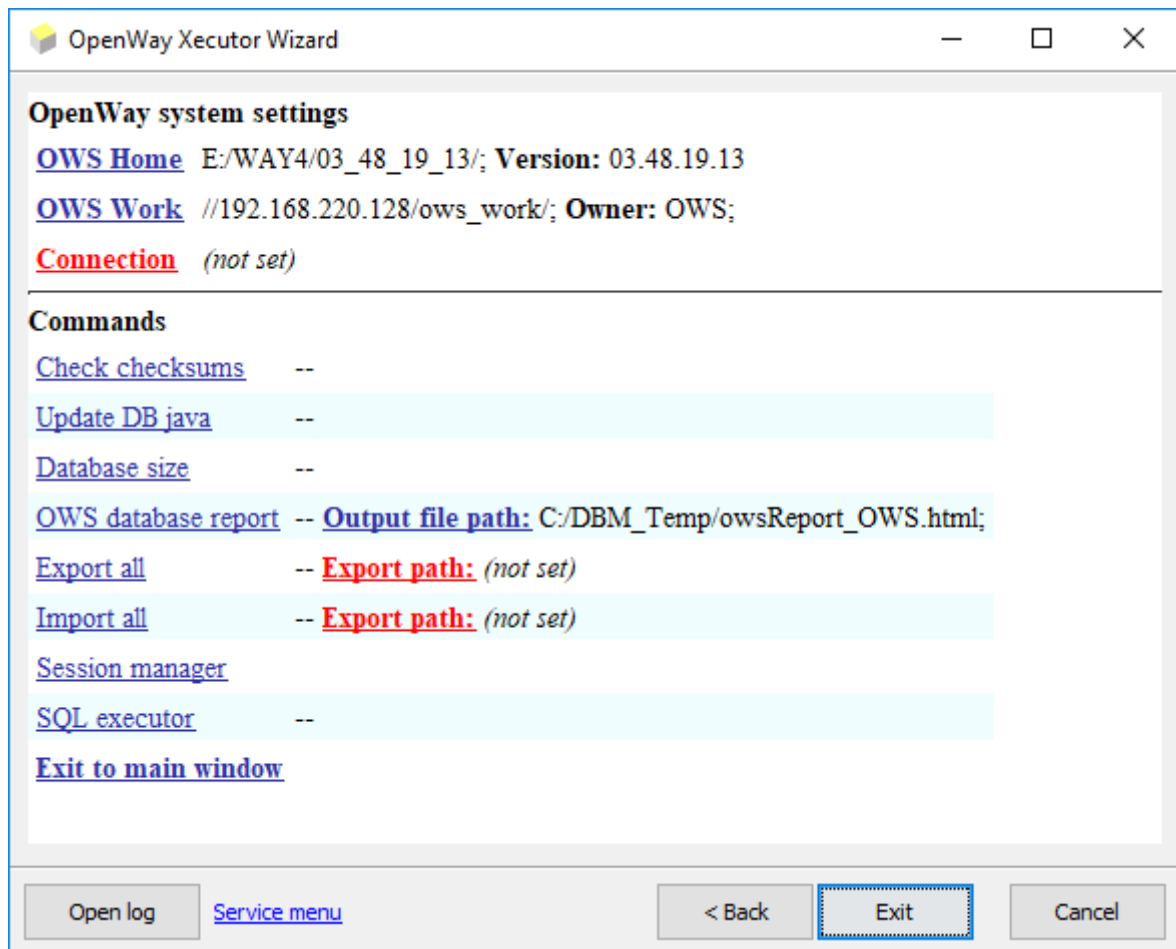
WAY4Tools is used to do the following:

- Check checksums (including building a report on structural differences between WAY4 versions).

- Update DB Java objects.

- Determine the DB size.

- Generate reports for WAY4 DB objects.

- Export/import WAY4 DB tables.

- Manage sessions.

- Execute SQL queries.

# Chapter 2. Use cases

To start the WAY4Tools utility, run the WAY4Tools.bat file (<OWS_HOME>/install/WAY4Tools.bat).

In the window that opens, click the {OWS Work} link and select the required <OWS_WORK> directory.

Click the {Connection} link and enter DB connection parameters (see figure).



*WAY4Tools main window*

Click the [Open log] button to open a log file.

Click the {Service menu} link to open a context menu with the following activities:

- "Abort action" – cancel the action.
- "Start http server" – start the http server to view reports.
- "Start SSP console" – start the SSP console.
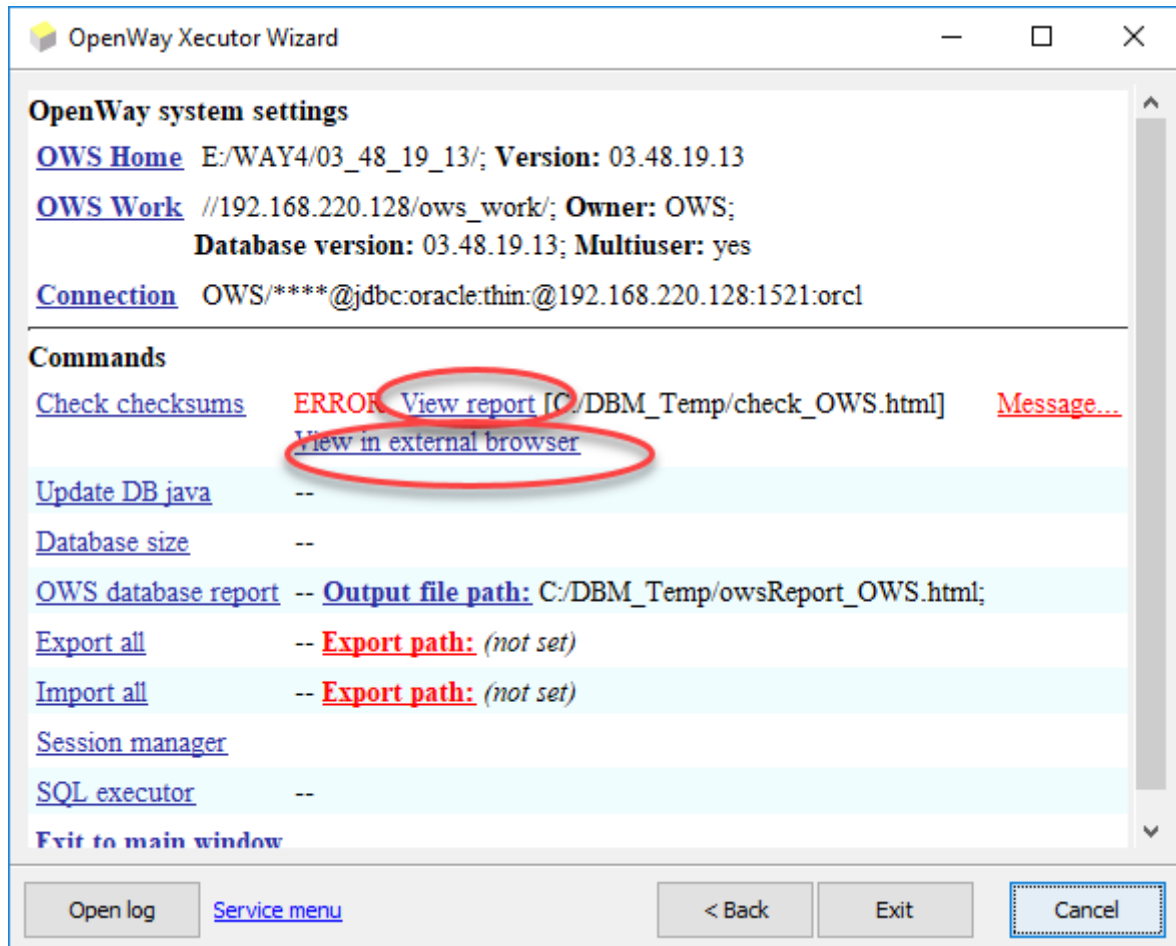- "Log level" – set the logging level.

## Checking checksums

To check checksums for the current version of WAY4, run the WAY4Tools utility from the <OWS_HOME> directory of the version that is installed.

The number of the current WAY4 version is available in the DB Manager/WAY4 Manager application through the "Help" system menu item ("Help => About...").

To start the process for gathering checksums, click the {Check checksums} link.

After the process has been completed, the report can be viewed in the application or web browser (see figure).



*Checking checksums*

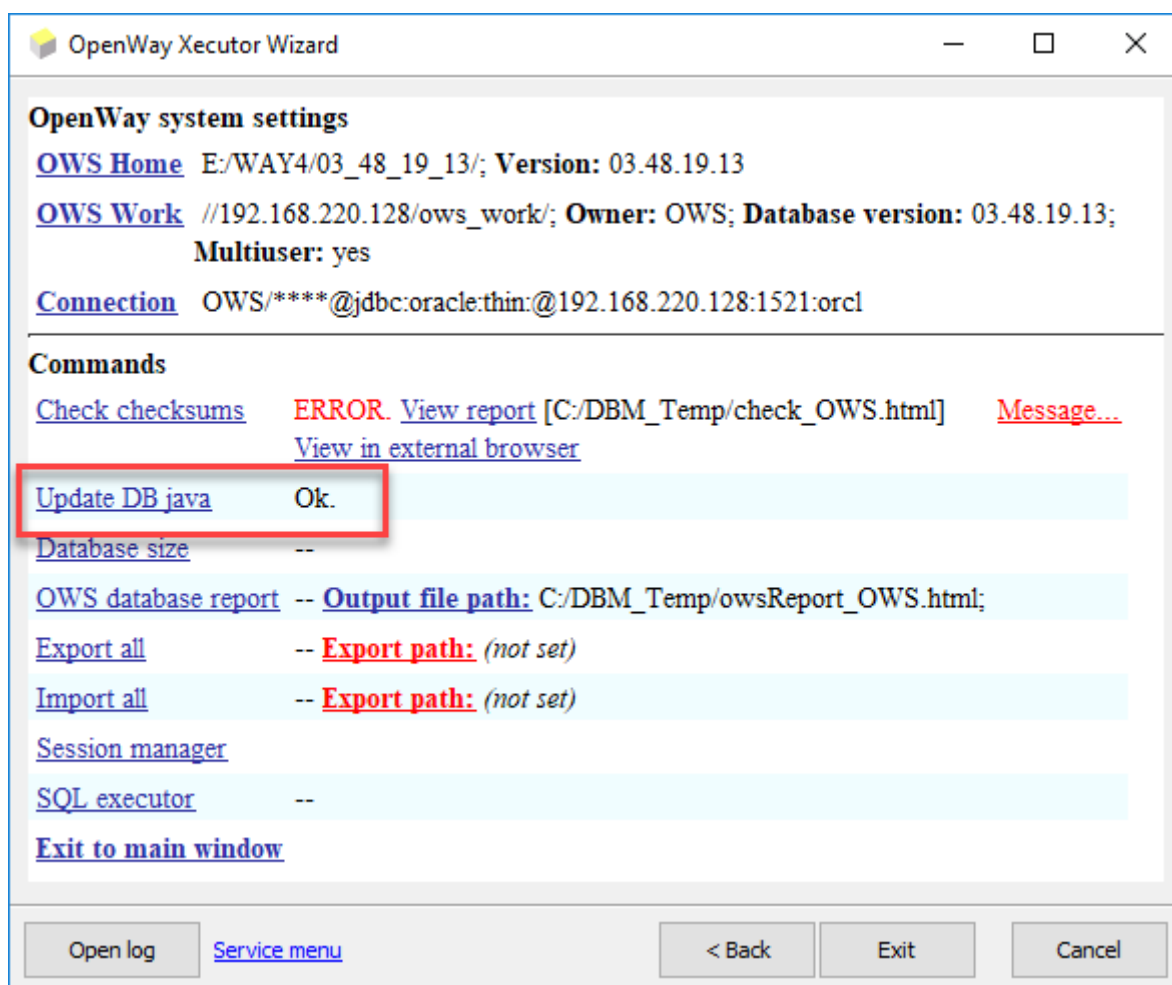If there are errors in the report, it is necessary to analyse them and contact OpenWay.

> (i) To get information about structural differences between WAY4 versions (the new version that was installed and the "old" version) select the directory with the "old" version of <OWS_HOME>.

# Updating DB Java objects

To start updating DB Java objects, click the {Update DB java} link (see figure).

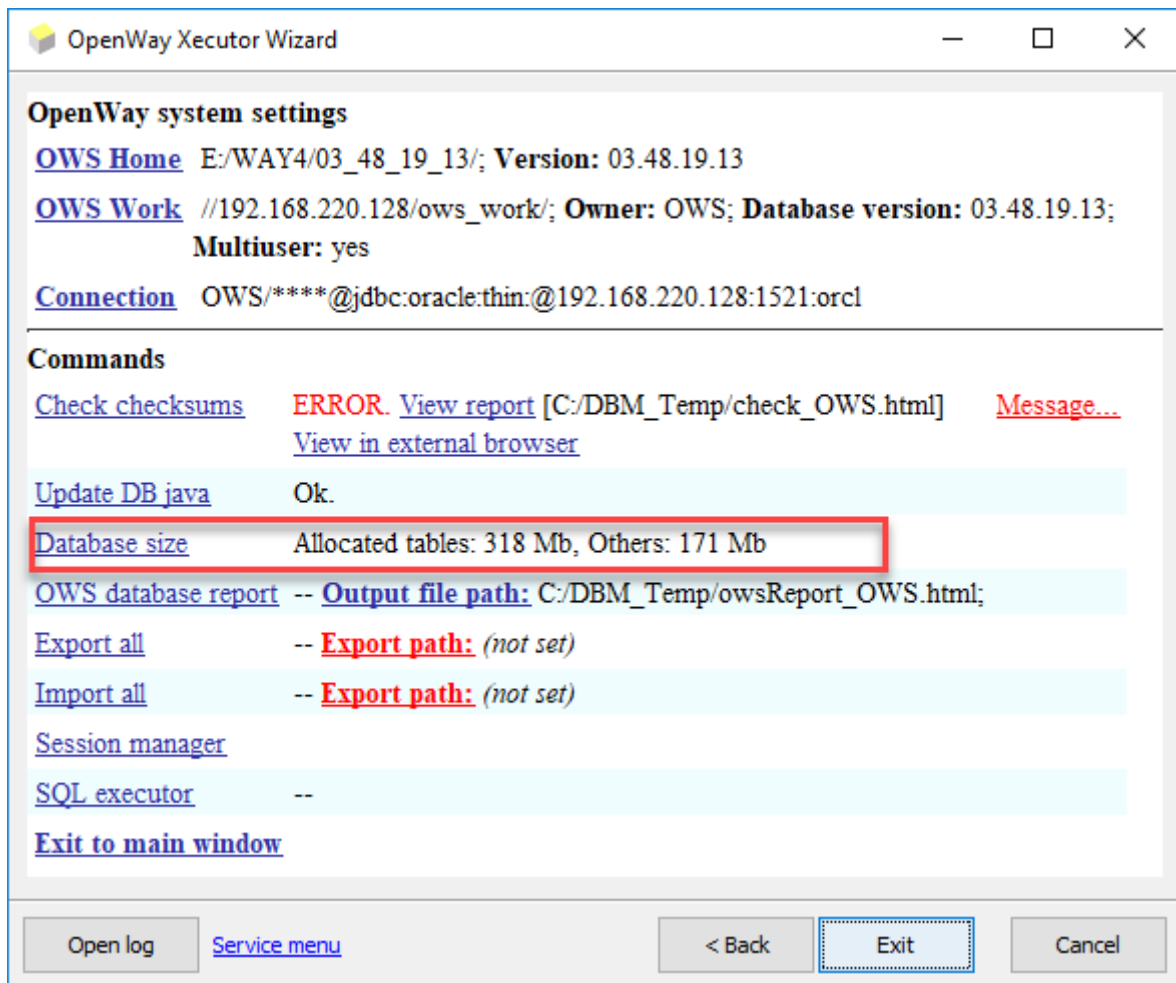After successful update, the main window will show "OK" next to the link.

If errors occur, contact OpenWay.

*Updating DB Java objects*

## Determining the DB size

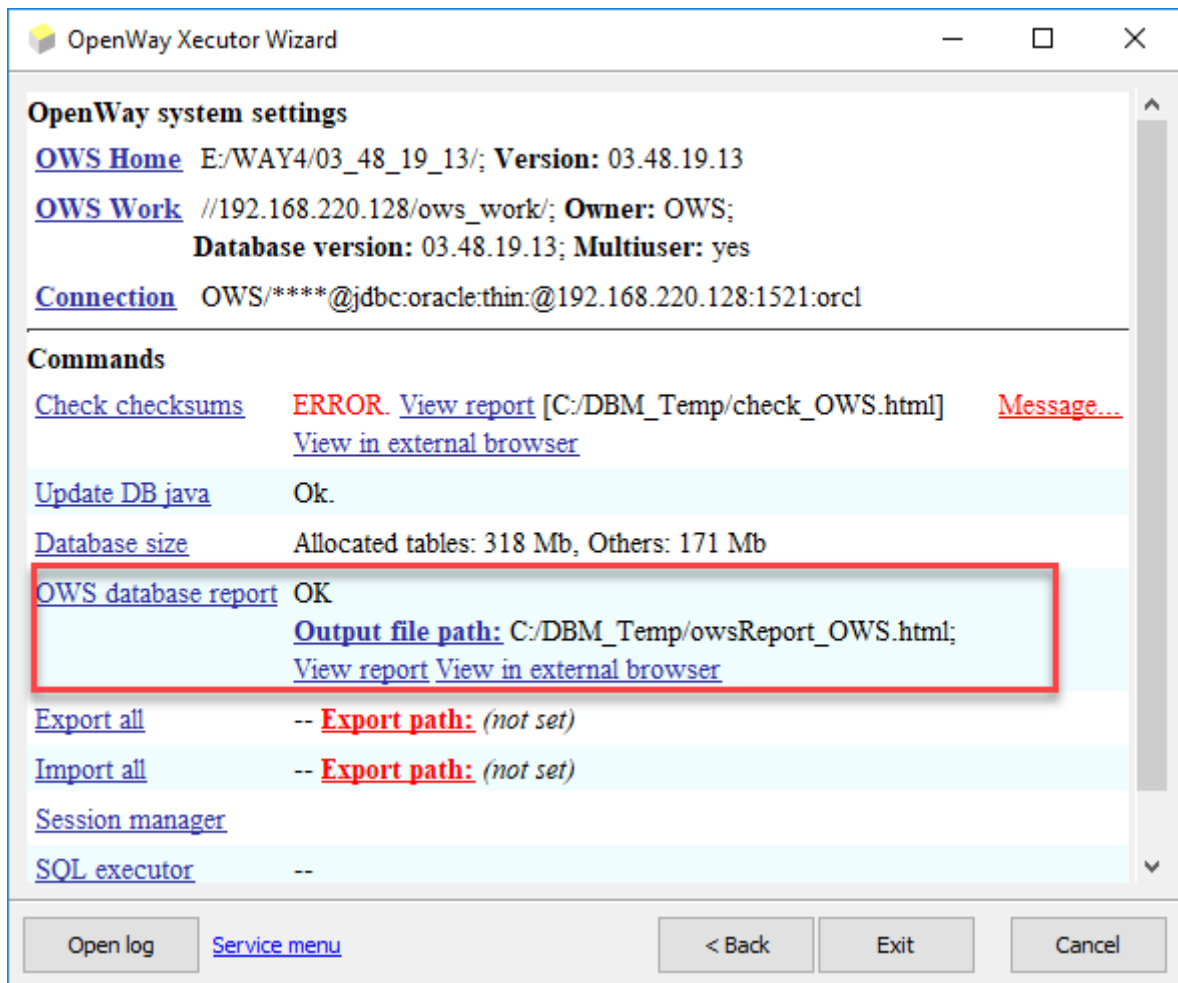To determine DB size, click the {Database size} link (see figure).

*DB size*

## WAY4 DB objects report

To generate a report for WAY4 DB objects, click the {OWS database report} link.

After the process has been completed, the report can be viewed in the application or web browser (see figure).
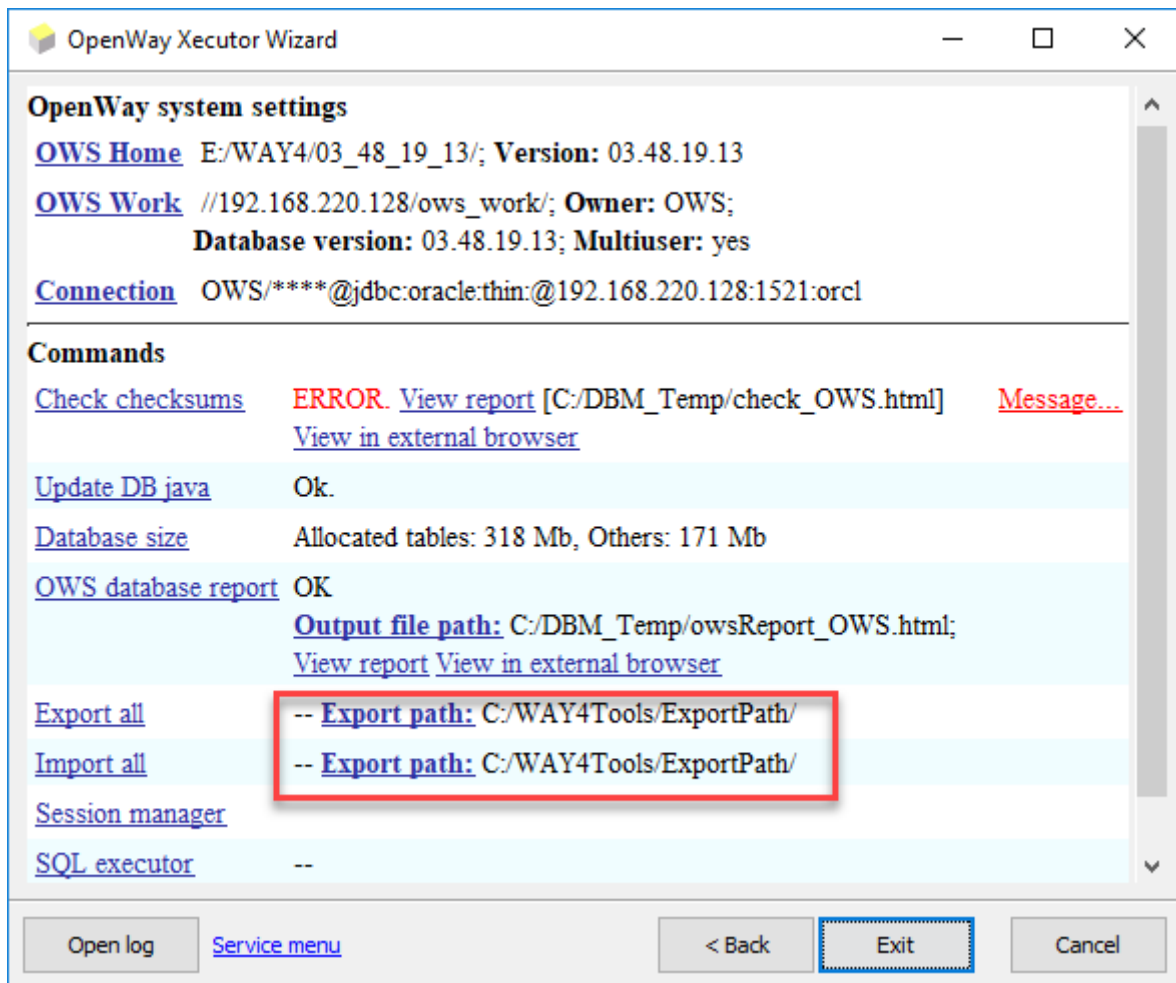
*WAY4 DB objects report*

# Exporting/importing WAY4 DB tables

Before export/import, define the directory for file export and import (the {Export path} link), see figure.

*Directory for export and import of files*

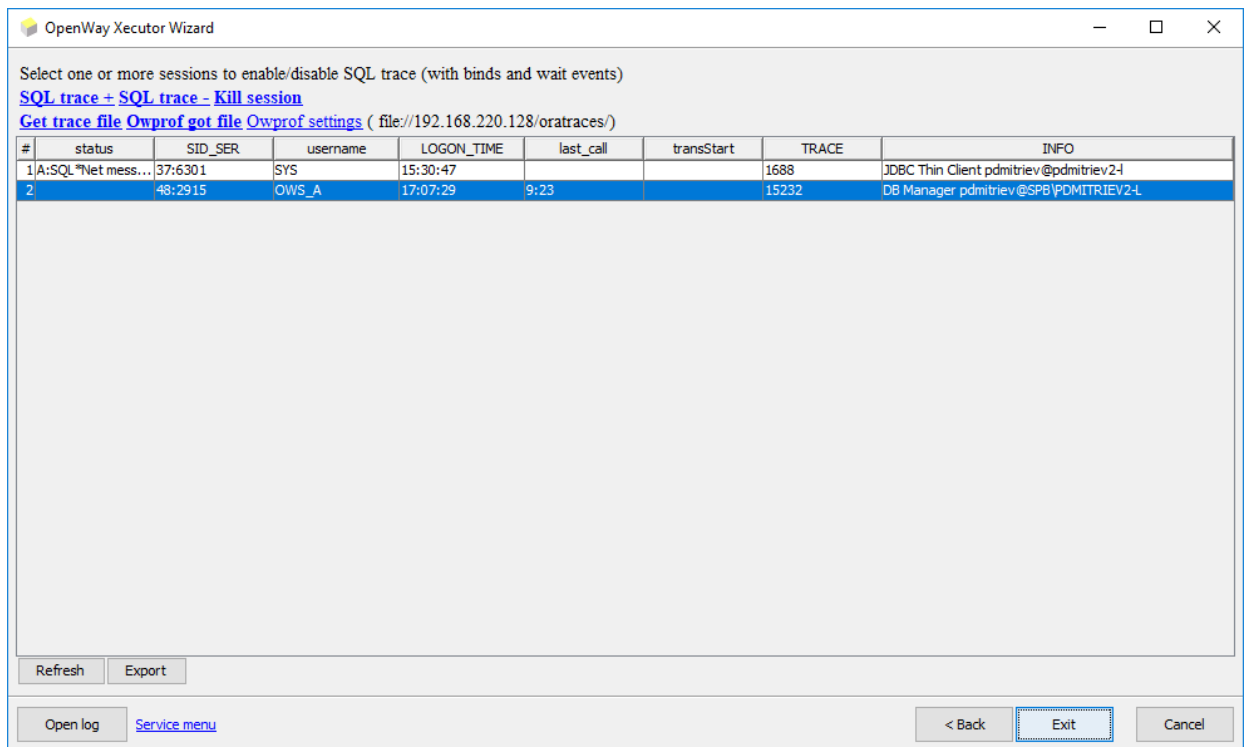To start export/import of WAY4 DB files, click the {Export all}/{Import all} link.

# Managing sessions

To manage sessions, click the {Session manager} link.

Enter DB connection parameters. Set <OWS_OWNER> or the the DB administrator (SYS) as the user.

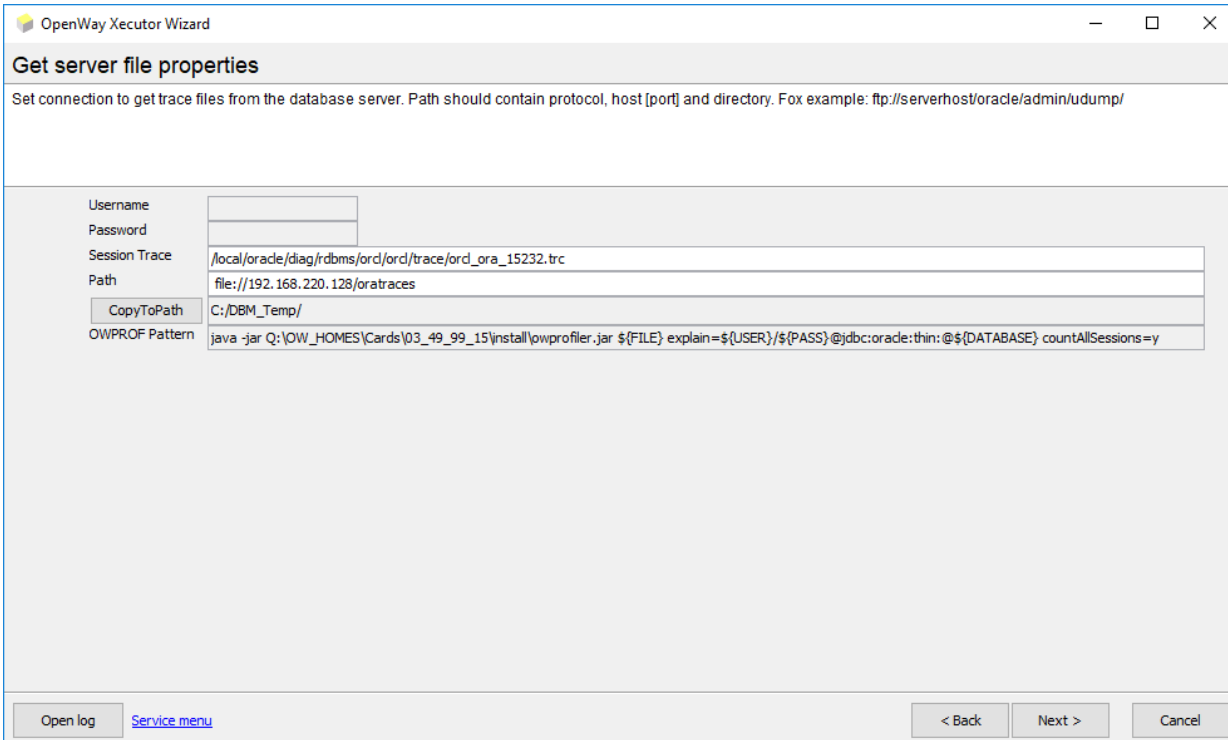The following actions are supported for managing sessions (see figure):

- Enable/disable debugging ({SQL Trace +} and {SQL Trace -} links).

- Kill a session ({Kill session} link).

- Process trace files using the owProfiler utility ({Get trace file}, {owProfiler got file} and {owProfiler settings} links).

*Managing sessions*

To process a trace file using the owProfiler utility, do as follows:

- Generate a trace file ({SQL Trace +} and {SQL Trace -} links) for the necessary session.

- Set trace file access parameters ({owProfiler settings} link) (see figure).

- Click the {Get trace file} link to copy the trace file to the directory specified with the [CopyToPath] button in the window with trace file access parameters ({owProfiler settings} link) (see figure).

- Click the {owProfiler got file} link to generate an html report.

- Open the report in the directory that was specified using the [CopyToPath] button in the window with trace file access parameters ({owProfiler settings} link) (see figure). The report file name matches the name of the trace file and has the html extension.
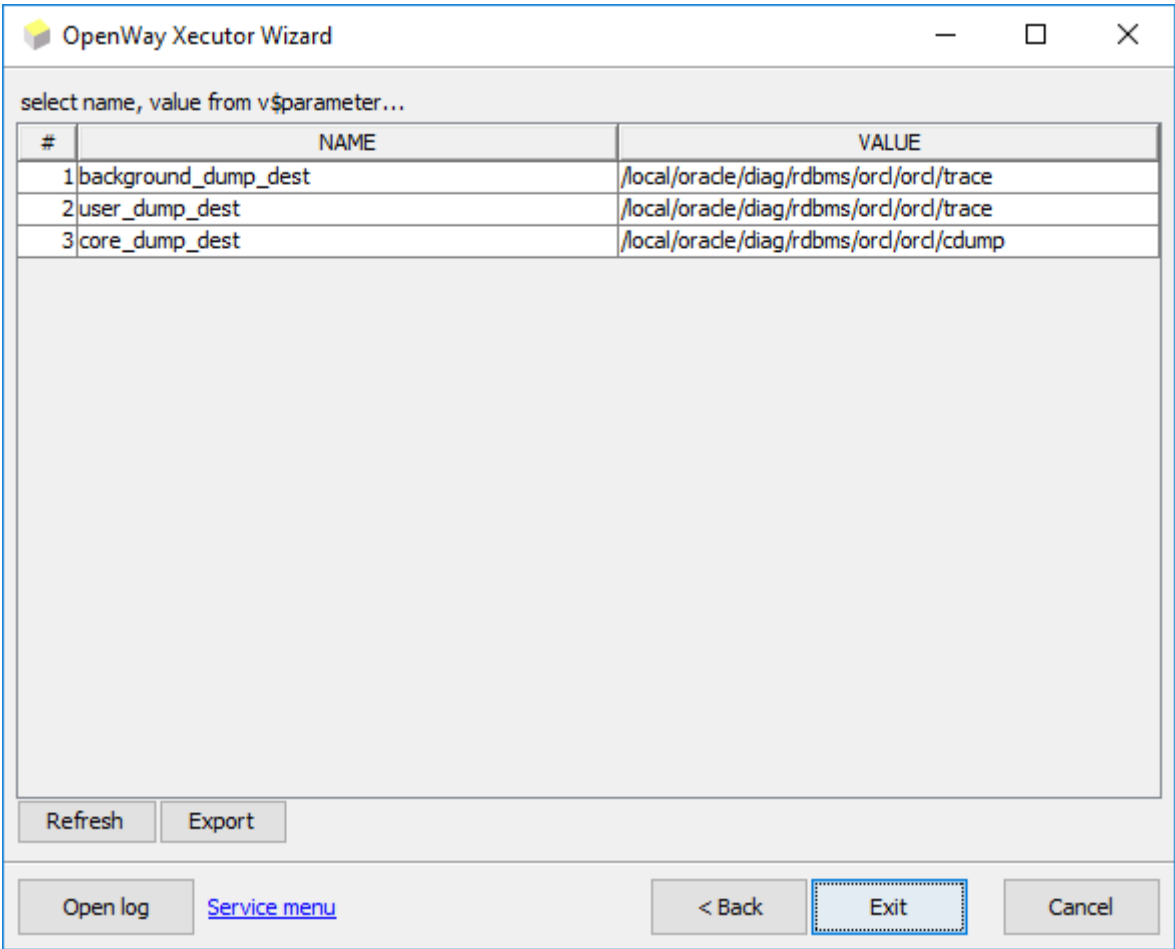
*Trace file access parameters*

# Executing SQL queries

To execute an SQL query, click the {SQL executor} link.

Click the [SQL] button, select a file with an SQL query and click the [Next >] button.

Check the query's result (see figure).

*Executing an SQL query*