

# INVOICES

## Multiple Services Setup Guide

Version: 5.7.x or later

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## Introduction

This document describes how to use multiple services (that is, production systems) for INVOICES on the same computer using INVOICES 5-7 Patch 7 or later.

## How to set up a new service

The following is required to set up new services that run against a production system. For each production system (database), complete the following steps.

1. Make a copy of the `eilocal.ini` file, and put it in a separate folder.
2. Create a new folder for the global files and copy the following files to it from the global path for the INVOICES installation currently installed on the computer:
  - `eiglobal.ini`
  - `eiglobalextra.ini`
  - `EHCharSet.ini`
  - The *Country Profiles* folder
  - `License.dat`
  - `ReporterPlugin.ini` (if REPORTER is used)
3. In the new location, change the setting in `eiglobal.ini` to point to the database intended for the new production system.
4. In the new folder where it is located, change all directory paths in the `eilocal.ini` file to point to the location of the `eiglobal.ini` file for the new system. This is to be able to get separate folders for logging, and so on, and to avoid any files becoming locked, etc.
5. If REPORTER is to be used, change the paths for the INI-flags `MsgSequenceFilePath` and `XMLMessagePath` in the `ReporterPlugin.ini` file to point to separate folders.
6. Register the new service. These parameters must be specified during the registration:
  - `<name>` - a unique display name that is shown in the Services manager.
  - `<X>` - a unique instance ID for the new service.
  - `<ini-file>` - the path to the `eilocal.ini` file that should be used for the new service. Use double quotes if there are spaces in the path.
7. The registration is performed from the command prompt using the `PMService` application. Open a Command prompt and navigate to the INVOICES bin folder. To register the service, type the following:

```
pmservice /name <name> /inifile <ini-file> /ID <X>  
/RegServerInterpretNonDep
```

```
pmservice /name <name> /inifile <ini-file> /ID <X>  
/RegServerTransferNonDep
```

Note that the `X` in ID must be specified using a single Alpha-numeric character (A-Z, a-z, 1-9). This allows for a maximum of 61 different services and production systems.

### Example:

```
pmservice /name TestInterpret /inifile "C:\Test folder" /ID A /RegServerInterpretNonDep
```

This registers the *TestInterpret* service with ID *A* to use the *eilocal.ini* file found on the computer at *C:\Test* folder.

## Unregister services

To unregister a service, open a command prompt and type the following syntax:

```
pmservice /name <name> /UnRegServerInterpret
pmservice /name <name> /UnRegServerTransfer
```

## Running services

Services can be started and stopped from the Service manager, or they can be started and stopped from the Command Prompt using the following commands:

```
net start < name>
net stop < name>
```

## Troubleshooting tips

Here are some troubleshooting tips for running multiple service instances on one server:

### Event logging

All INVOICES services write logs to the event log (to the Application log in the Windows Logs category). The source listed for all entries is "INVOICES Service." The display name for the service where the event occurred is added to the event log entry.

This is an example of a log entry when an Interpretation service called "INV2ltp" is started:

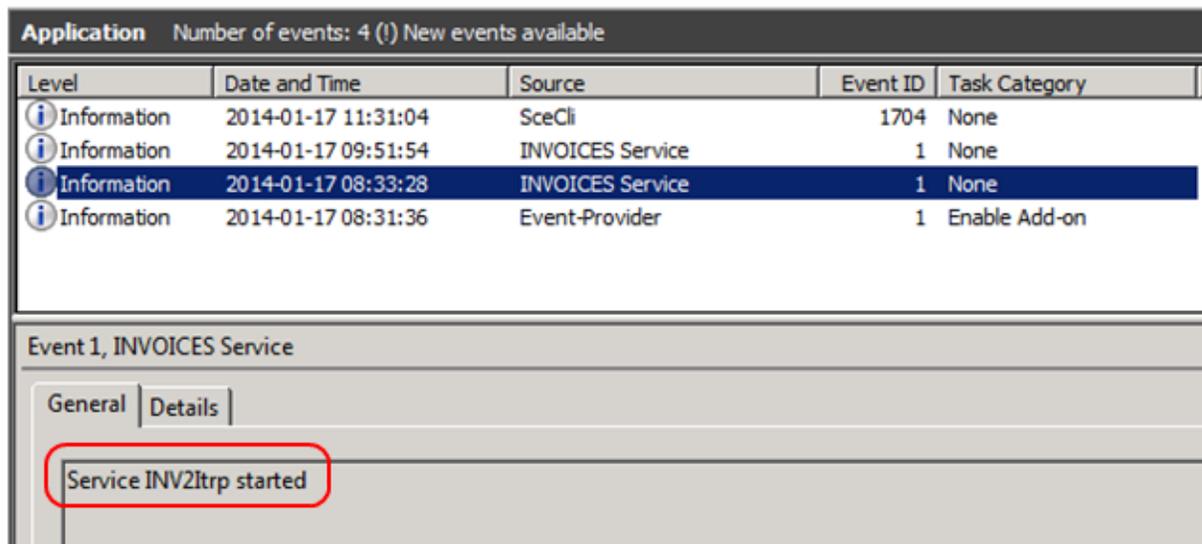


Fig. 1 Example of event log – the name of the service in focus in the dialog is displayed in the General tab.

## Logs

Make sure that the `Log` directory flag in `eilocal.ini` points to a separate folder for each production system so that it is easier to see which instance is causing problems.

## Plugins

If there are issues with any plugins, ensure that they use the INVOICES API to access the `eilocal.ini` and `eiglobal.ini` files. Do not use the `READSOFTINVOICESLOCAL` environment variable!

Also ensure that if a plugin uses common resources (logging to file, for example) that separate folders are used for each production system.

## Tips and tricks

It is a good idea to create a separate shortcut for all INVOICES modules for each production system. Include the location of the `eilocal.ini` file that the system should use when starting the corresponding module in the **Target** setting of the **Properties** dialog for each shortcut. Starting the modules as applications in this way makes it easier to access the different production systems.

Example of the target property for a Manager module shortcut that will use the `eilocal.ini` file located in `"C:\INVOICES2"`:

```
"C:\Program Files (x86)\Readsoft\INVOICES\Bin\eimngr.exe" /eid C:\INVOICES2
```

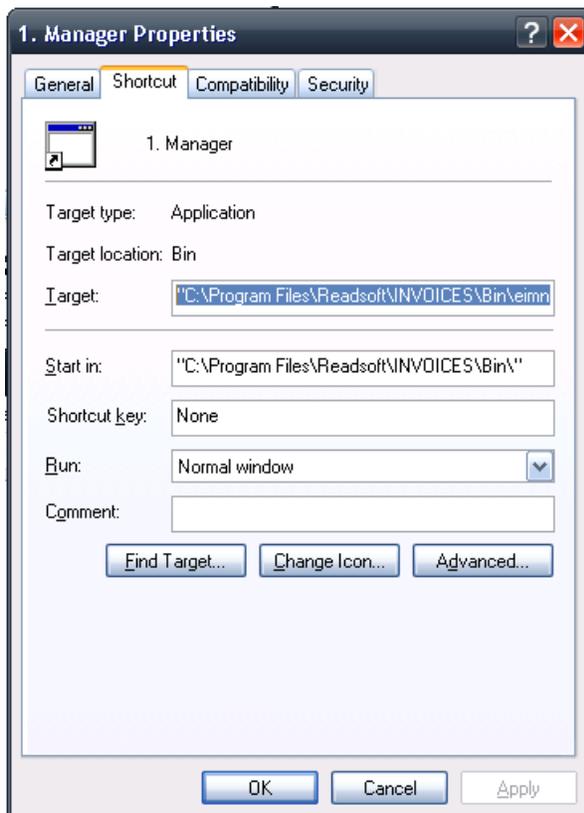


Fig. 2 Target property for shortcut