

# The Orixa Server Program

If you use the full version of Orixa this will include running a Server Program on the main server computer you use to hold the database files.

The Server Program is a fairly simple utility program, which runs in the Windows "Task" area, and can be opened to view the status of active and inactive user-sessions. The server manages user sessions and requests to the database to minimize conflicts and locking. It allows multiple users to connect to the database.

In general it is only necessary to copy this program onto your server computer, set a few simple settings, and ensure that it runs at Windows Start-up, so that users can connect to it. Very little administration is required.

The main use for the Orixa Server is to show who is connected to your database, and to review its settings, version number etc.

### KEY ACTIONS DONE USING THE ORIXA SERVER

Most SQL Scripts which make changes to your App can be run from the Orixa Database Utility. However because this Utility connects to the database in order to work, some basic actions can only be done within the Orixa Server. These include:

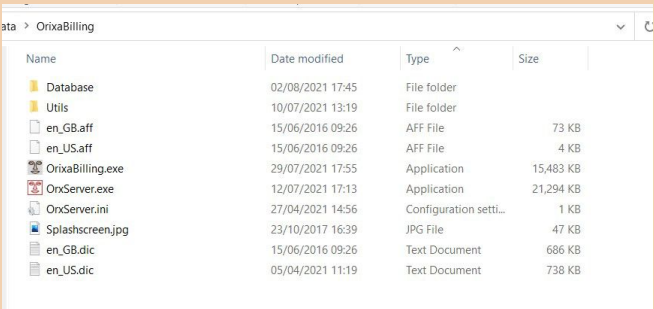
- Restoring the database from a backup file in case of data-corruption or data-loss.
- ALTERING and REPAIRING certain key tables which are locked in the Database Utility.

Neither of these actions are performed at all often, but when they are needed, consult the documentation at the end of this section for the necessary steps.

## Basic Set up

If you run the Orixa Installer Program, it will undertake all the following steps automatically. The steps are laid out here, so it is possible to review and understand them.

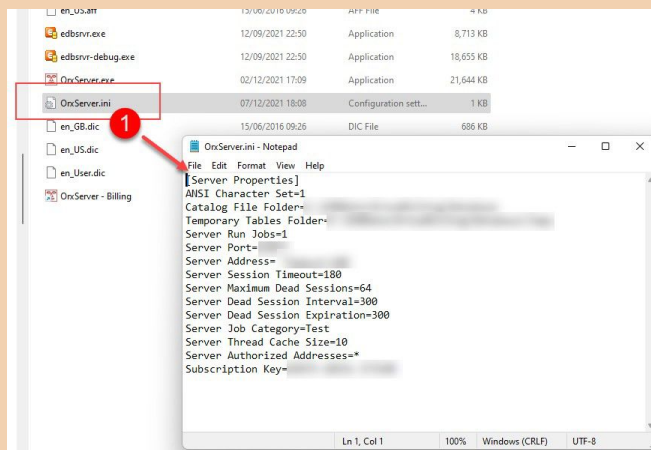
1. Copy the "OrxServer.exe" file into a folder on your computer. Usually, this is a sub-folder of the main "C:\[YourSystemName]" folder. "C:\[YourSystemName]\Utils" is commonly used.
2. Create an "OrxServer.ini" file, a text file containing basic settings for your system's database. Your Orixa Developer will set up this file for you, or the Orixa Installer Program will create one. An Example of the text in one of these files is detailed below.
3. Set a number of settings in the Registry of your computer. These are set to make it harder for a hacker to infiltrate your system.
4. Add a short-cut to the application created in step one, to Windows "Start-up" folder. This guarantees that the server will start every time the machine starts, allowing the database data to be accessed.



Name	Date modified	Type	Size
Database	02/08/2021 17:45	File folder	
Utils	10/07/2021 13:19	File folder	
en_GB.aff	15/06/2016 09:26	AFF File	73 KB
en_US.aff	15/06/2016 09:26	AFF File	4 KB
Orixabilling.exe	29/07/2021 17:55	Application	15,483 KB
OrxServer.exe	12/07/2021 17:13	Application	21,294 KB
OrxServer.ini	27/04/2021 14:56	Configuration setti...	1 KB
Splashscreen.jpg	23/10/2017 16:39	JPG File	47 KB
en_GB.dic	15/06/2016 09:26	Text Document	686 KB
en_US.dic	05/04/2021 11:19	Text Document	738 KB

The OrixServer.exe in the base folder of a system.

Base Application Folder

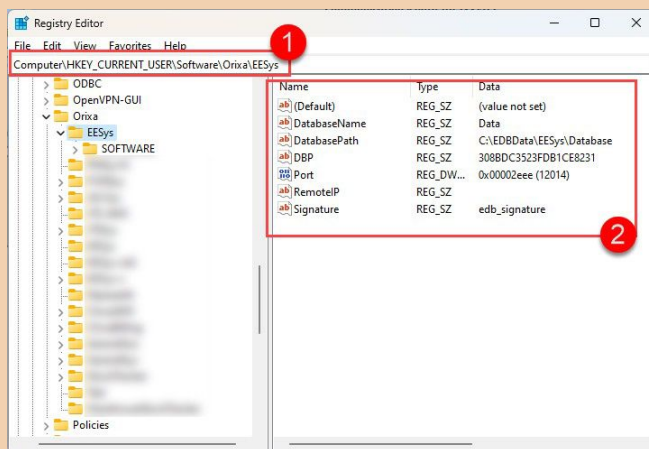


OrxServer Ini File

The "Ini" text file which contains basic settings of the Server. Fuller details of managing this file are laid out below.

Note that this file is usually updated by changing settings in the OrxServer, which then saves the changes you have made, but if you want to make changes manually you can.

If the computer will not run any Orixia App, just the OrxServer there is no need to add Registry Settings.



Registry Settings for an Orixia App

The **Registry Settings** created by Orixia. These are only needed if the computer will run an Orixia App.

Note these are all saved under:

Computer\HKEY\_CURRENT\_USER\Software\Orixia\ (shown at 1., on the image).

Each App has an entry for the AppName as a heading for its Registry Settings.

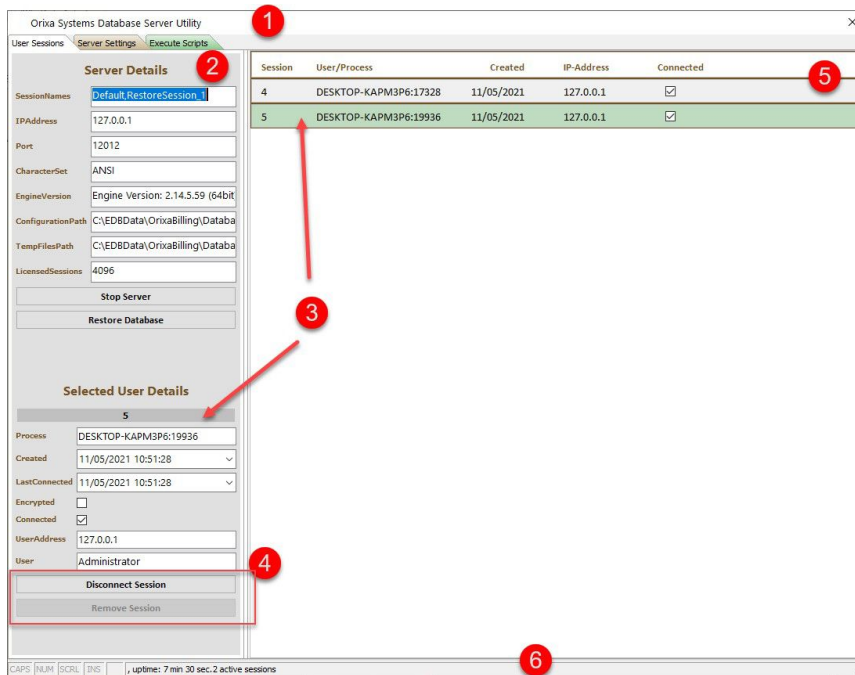
**NOTE:** Some of the settings (for example the Server Port) are duplicated in the "Registry Settings" and "Ini" file. This is because the OrxServer connect to multiple Apps, each App needs its own App-specific settings for database connection. Also, the App does not need to have access to the folder where the "Ini" file is stored, which might even be on a different computer.

## The Orixia Server Management Program

Once the OrxServer is running on a computer, if its connection settings are correct and there is a local database it can connect to, it is "available." Users starting an Orixia App will connect to it, and then view the data on their device. The OrxServer does not need to be running on their computer, only on a computer that their device can connect to. Note that a slow data-connection will result in their Orixia App running slowly.

If the OrxServer is running on a computer, it will show as a small icon in the "Task Bar Notification Area." This is shown further down this document.

If there is a need to change or review settings for the OrxServer, this can be done by opening the Main Window of the program, which is shown below.



**Orx Server Main Window**

The above image shows a running version of the Orixa Server with 2 users connected.

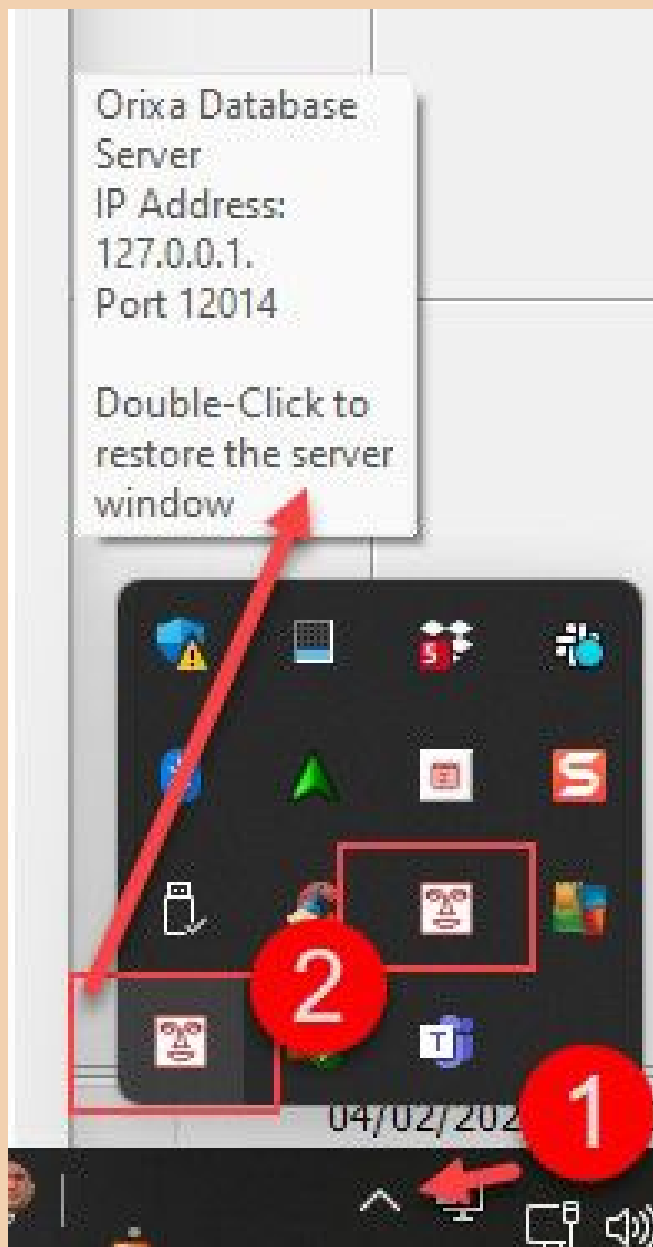
1. Main program window.
2. Server Details information panel, which shows settings for the running instance of the database.
3. User details, listed on the right. Click on one and it is highlighted in light-green and the details displayed on the bottom-left.
4. Buttons to disconnect and remove a session. Note that the "Remove" button only becomes active after the "Disconnect" button has been clicked.
5. User Connection details are shown. If users log-on or log-off this list will update.
6. Status panel for the program, showing up-time and the number of active sessions.

## Normal Operation: Accessing the OrxServer from Task-area

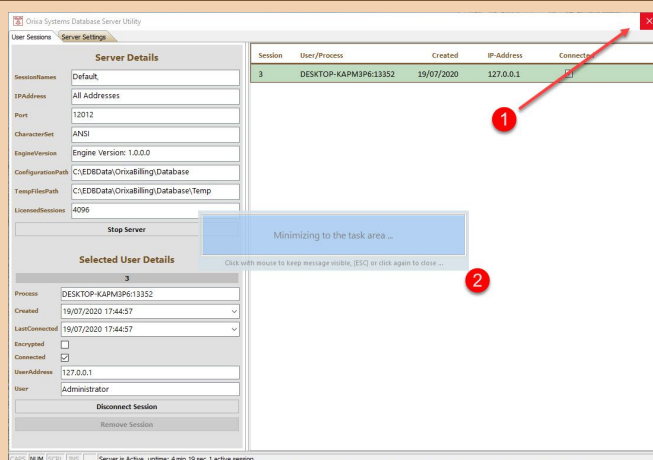
In normal use once running the Orixa Server will sit in the Server-computer's memory and wait for connections from users. You do not have to do anything, it will manage its own resources and activity.

To see the Orixa Server's user interface:

1. Click on the Windows Task-area icon.
2. Select the Orixa Server program and click on it with your mouse. Note how, when you hover over an OrxServer icon its details become visible as a floating hint.



Orx Server in Task-area

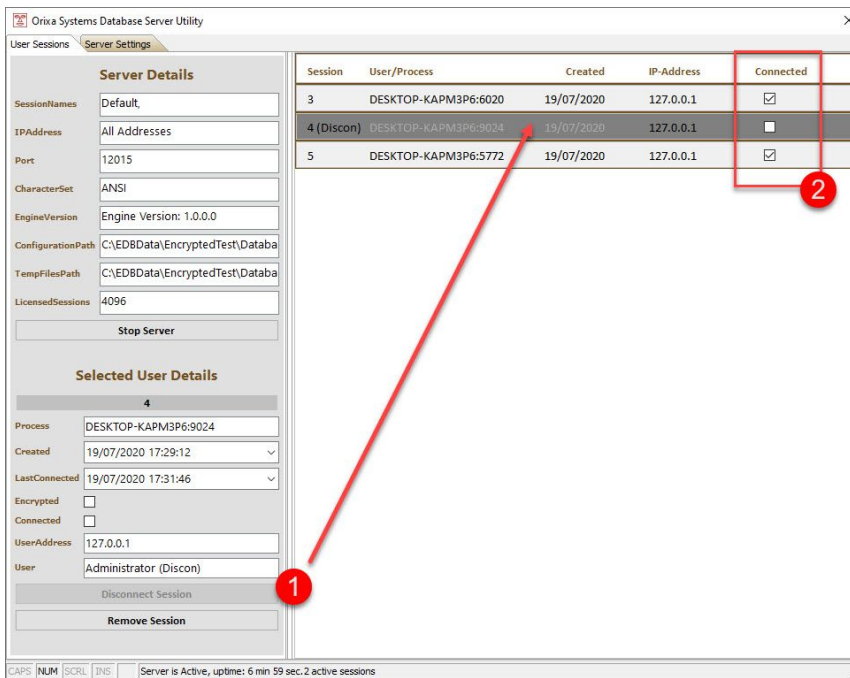


Orx Server minimizing in-use

Once you have finished looking at any aspect of the Orixa Server's operation, to return it to the Task-area:

1. Click on the close button.
2. Minimizing message will display and it will close, **but it will continue running**, with user's connected.

## Disconnecting and Removing Sessions



### Orx Server Disconnect Session

From time to time you may want to remove a connected session. Simply click on the desired session, and click the "Disconnect Session" button (1.). Once disconnected, the "Remove Session" button will become active. If a user is Disconnected their connections to tables in the database are removed, and changes that they are making which are not posted are cancelled. However if a disconnected user starts working again their connection will be "refreshed", and you will see the "Connected" tick-box become ticked again (2.).

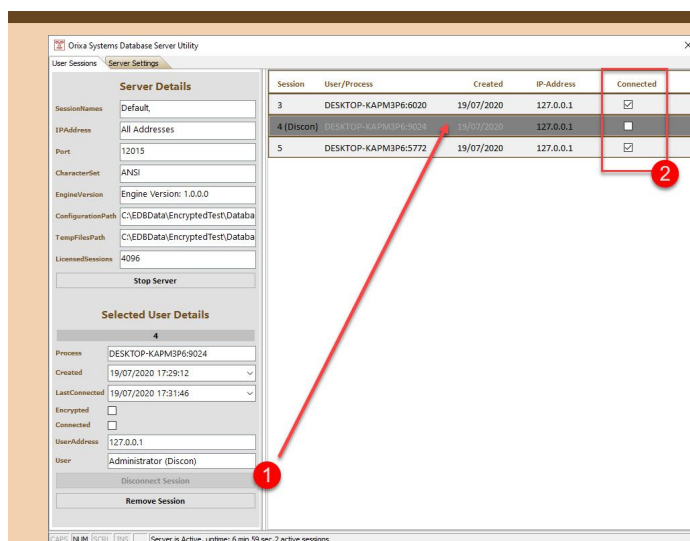
To stop a user from reconnecting, after clicking "Disconnect Session" click "Remove Session".

## Settings for your Orixa Server

When communication occurs between your Orixa App and the Orixa Server the two programs communicate using standard computer protocols connecting via Ports, and IP Addresses.

Your Orixa App will need to know the IP Address of the server computer, and the Port number of the Server Program. The Server Program must have the Port-number set, as well as a few other variables. All these details are stored in a simple plain-text "Ini" file, in the same folder as the Server Program. You can edit this file directly using any text editor, or you can edit the settings from the "Server Settings" page of the Server Program.

The Server must be **Stopped** before settings are edited. New settings are adopted after the server is re-started.



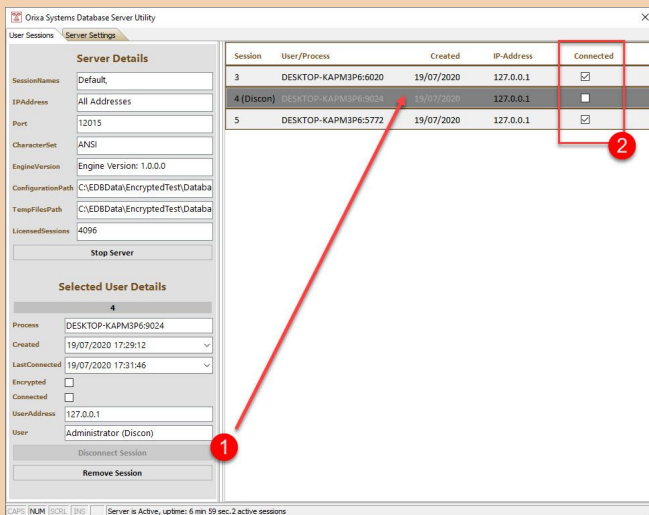
### Orixa Server Stopped

To stop the server simply click on the "Stop Server" button on the right side of the user-interface (1.). Once stopped the button will change so it reads "Start Server"

Any connected sessions will be removed, and the server will be marked as "Stopped" (1. bottom arrow)

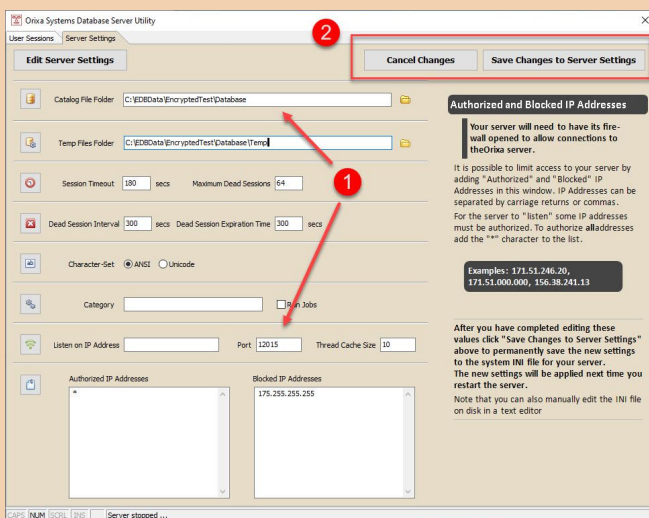
To edit settings, once the server is stopped:

1. Click on the "Server Settings" tab.
2. Click the "Edit Server Settings" button.



Orix Server Edit Settings 1

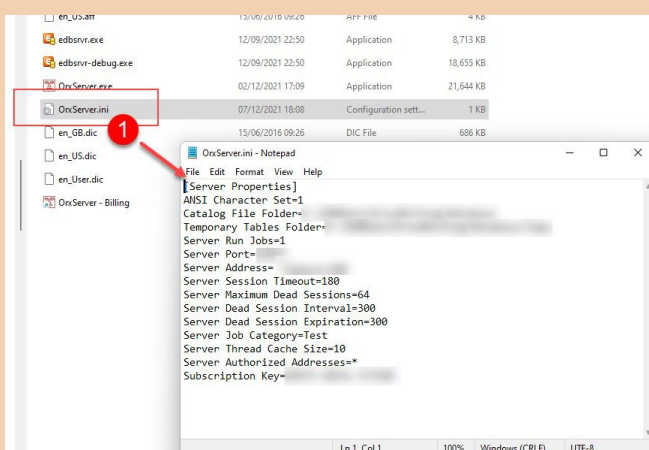
- Until the "Edit Server Settings" button is clicked the settings will be read-only and shown in gray. You can still see details and information about each setting, in the information panel on the right-hand-side of the screen.



Orix Server Edit Settings 2

Once Editing Settings:

- All the edits and be updated. The Server Program includes help-information about what each settings is for and how it works.
- Once you have finished editing, click a button to either save or cancel your changes.



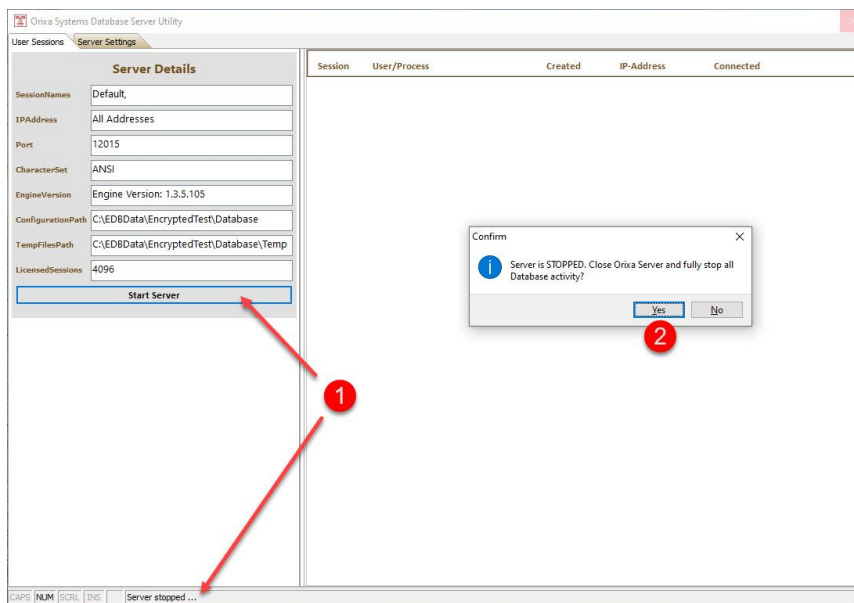
OrxServer Ini File

Manually editing the Ini File

The settings saved in the server program are stored on-disk in a file with the extension ".ini". This is a simple plain-text file.

All server settings can be set here directly, without opening the Server Program user-interface. However, new settings are only applied when the server **starts** so once edited it is important to restart the server if you want your changes to be used.

Fully exiting the Orix Server



### Orx Server full exit

In normal use, once started the Orixa Server is minimized to the Windows task-area. The action of "closing" the program window does not switch it off, it simply minimizes it into the "task area" of your computer.

#### If you wish to completely close the server:

1. Open the Orixa Server user-interface from the task-area, and click on the "Stop Server" button to stop the server.
2. Click on the "Close Window" "X" in the top right-hand corner of the user-interface and then confirm that you wish to close. The server will shut down.

Note that you can re-start the Orixa Server at any time by simply double-clicking on the OrxServer.exe program wherever you have stored it on your computer. Once the Orixa Server is switched off, no connections are possible to your App's database.