



# Rifidi DBApp Quick Start Guide

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*Version 2.1 (Rifidi Edge Server version 2.1)*

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## Introduction

This guide is a brief overview of the Rifidi DB App solution. The document explains the various components of the solution and how they are being used in the Rifidi Edge Server environment.

For detailed information about how to configure and run the Rifid Edge Server, please see the [Rifidi Edge Server User's Guide](#). For information about how to develop and export applications, please see the [Rifidi Edge Server Developer's Guide](#). Additional information can be found on the [Rifidi Wiki](#) and the [Rifidi Forums](#).

## Required Software

The following software components should already be installed on your system:

- Rifidi Edge Server, with the application DBApp and the DBApp.properties file.
- MySQL database, with the db schema installed. Use db.sql file to generate it.

Default values for the database:

```
dbapp.url=jdbc:mysql://127.0.0.1/db, user=root, pass=rifidi
```

You can override these values in the .ini for windows or the "rifidi-server" file for Linux if you wish.

## Configuration

This section steps users through simple steps how to verify the DBApp configuration.

### Starting the Rifidi Edge Server

The Rifidi Edge server is an executable that starts by doubleclicking on it (rifidserver.exe in the server directory). After you see rifidi start messages type in the command "apps":

```
apps
0:Rifidi App: AppService:ReadZones <STARTED>
1:Rifidi App: AppService:SensorStatus <STARTED>
2:Rifidi App: AppService:UniqueTagInterval <STARTED>
3:Rifidi App: AppService:StableSet <STARTED>
4:Rifidi App: AppService:LimitStableSet <STARTED>
5:Rifidi App: AppService:UniqueTagBatchInterval <STARTED>
6:Rifidi App: AppService:GPIO <STOPPED>
7:Rifidi App: AppService:Serial <STOPPED>
8:Rifidi App: AppService:Tags <STARTED>
9:Rifidi App: AppService:TagGenerator <STARTED>
10:Rifidi App: Monitoring:ReadZones <STARTED>
11:Rifidi App: Monitoring:Tags <STARTED>
12:Rifidi App: Monitoring:SensorStatus <STARTED>
13:Rifidi App: DB:DBApp <STARTED>
osgi>
```

You see all the applications that are available. Some are running (“STARTED”), some are stopped. Please ensure the DBApp is listed and started.

If the DBApp is not listed, it is required to load it:

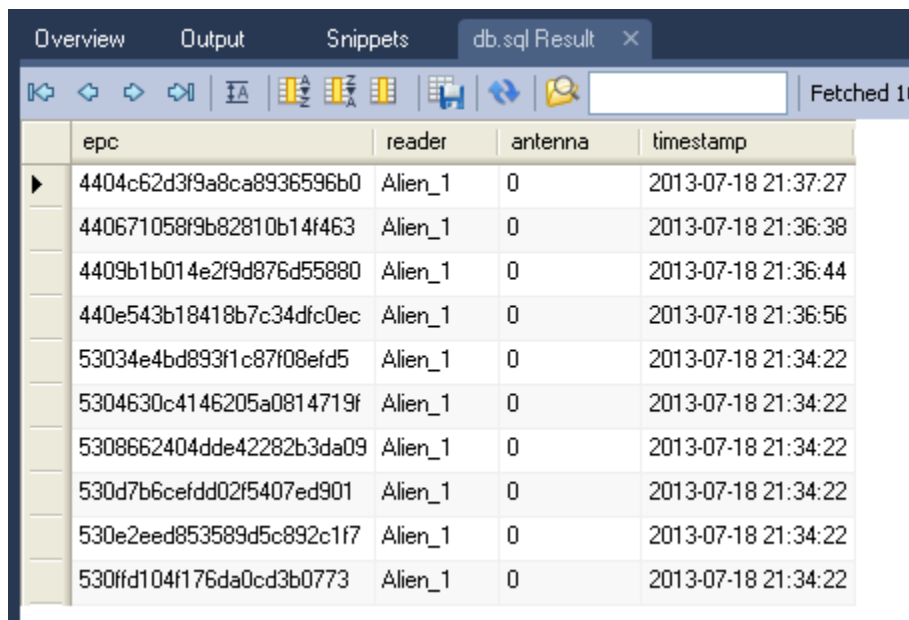
```
osgi> loadapp dbapp
Bundle added: org.rifidi.app.db
osgi> ... INFO org.rifidi.edge.api.AbstractRifidiApp:227 - Starting
App: DBApp
```

Loading the DBApp will also start it. If the application is loaded, but stopped, you need to start it with the command startapp.

Ensure you have one or more readers configured on the Rifidi Edge Server so tag reads can be received by the Edge Server. If you need information how to do that, check out the Rifidi Users Guide and Quick Start Guide [here](#).

## Verifying the Database Installation

The application enters the epc ID, reader name, antenna number, and the arrival timestamp into the ‘assets’ table in the ‘db’ database. Please use your MySQL tools (workbench or command line interface) to ensure the database is started, and the ‘assets’ table is available. When the ‘DBApp’ application is started and receives tag reads from a reader, it will start inserting entries into the ‘assets’ table:



epc	reader	antenna	timestamp
4404c62d3f9a8ca8936596b0	Alien_1	0	2013-07-18 21:37:27
440671058f9b82810b14f463	Alien_1	0	2013-07-18 21:36:38
4409b1b014e2f9d876d55880	Alien_1	0	2013-07-18 21:36:44
440e543b18418b7c34dfc0ec	Alien_1	0	2013-07-18 21:36:56
53034e4bd893f1c87f08efd5	Alien_1	0	2013-07-18 21:34:22
5304630c4146205a0814719f	Alien_1	0	2013-07-18 21:34:22
5308662404dde42282b3da09	Alien_1	0	2013-07-18 21:34:22
530d7b6cefd02f5407ed901	Alien_1	0	2013-07-18 21:34:22
530e2eed853589d5c892c1f7	Alien_1	0	2013-07-18 21:34:22
530ffd104f176da0cd3b0773	Alien_1	0	2013-07-18 21:34:22

The timestamp is taken from the reader. When there are tags within the read range of the reader, and you stop and restart the reader, the tags will be treated as if they were removed from the reader and put back again.