# GENESYS™

# iWD Deployment Guide

## iWD History Node Database Schema Migration

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There are two scenarios to note when you should perform database schema migration:

- Creating a database schema from scratch in the initial startup process.
- Updating the database schema when upgrading iWD History Node to a new version.

In both cases it works the same way. Complete either one of the following procedures:

- Enable automatic database schema migration by setting the value of Configuration Server option **[iWD]/migrate-schema** to `true`. This means that the application will check the current data schema at startup and update (or create) it if necessary. Note that default value of **[iWD]/migrate-schema** is `false`. Or;
- Migrate the schema manually using the command line as shown below:
  - **Linux**—`./iwd_history.sh -host CFG_SRV_HOST -port CFG_SRV_PORT -app HN_APP db migrate`
  - **Windows**—`JavaServerStarter.exe -host CFG_SRV_HOST -port CFG_SRV_PORT -app HN_APP db migrate`

## Important

All commands like "./iwd_history.sh" and "JavaServerStarter.exe" should be executed from the directory where History Node has been installed.

## Troubleshooting

Schema migration can sometimes get stuck in a loop that prevents History Node starting. When this happens, the following entries are written to the log file:

```
INFO  [2017-05-26 10:10:57,497] com.genesyslab.iwd.history.HistoryApplication: Running database schema migration
INFO  [2017-05-26 10:11:03,313] liquibase: Waiting for changelog lock....
INFO  [2017-05-26 10:11:13,317] liquibase: Waiting for changelog lock....
...
```

To correct this, after stopping History Node application, do the following:

- On Linux

1. List any database locks.

```
./iwd_history.sh -host CFG_SRV_HOST -port CFG_SRV_PORT -app HN_APP db locks --list
```

2. Release the database locks.

```
./iwd_history.sh -host CFG_SRV_HOST -port CFG_SRV_PORT -app HN_APP db locks --force-release
```

- On Windows:

1. List any database locks.

```
JavaServerStarter.exe -host CFG_SRV_HOST -port CFG_SRV_PORT -app HN_APP db locks --list
```

2. Release the database locks.

```
JavaServerStarter.exe -host CFG_SRV_HOST -port CFG_SRV_PORT -app HN_APP db locks --force-release
```