



# Anysense Clone

Data cloning tool for Anysense

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## Introduction

This document describes how to setup and configure Anysense Clone.

A technical documentation about Anysense and the service is located at <http://www.anysense.dk/support>.

The Anysense Clone tool is distributed as an installer, which installs a configuration tool and a Windows service. The tool is used for the initial setup and the Windows service handles the data download.

### Prerequisites

- An active Anysense subscription.
- A Windows based PC (Windows 7 / Windows Server 2008 or newer)
- A Microsoft SQL Server (Preferably 2012 or newer)
- .NET Framework 4.5
- An active Internet connection
- An Anysense user with Dataadministrator rights

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## 1. Installation

Once the setup files is downloaded from our website, run the installer. The installer will automatically install all required dependencies.

## 2. Updating

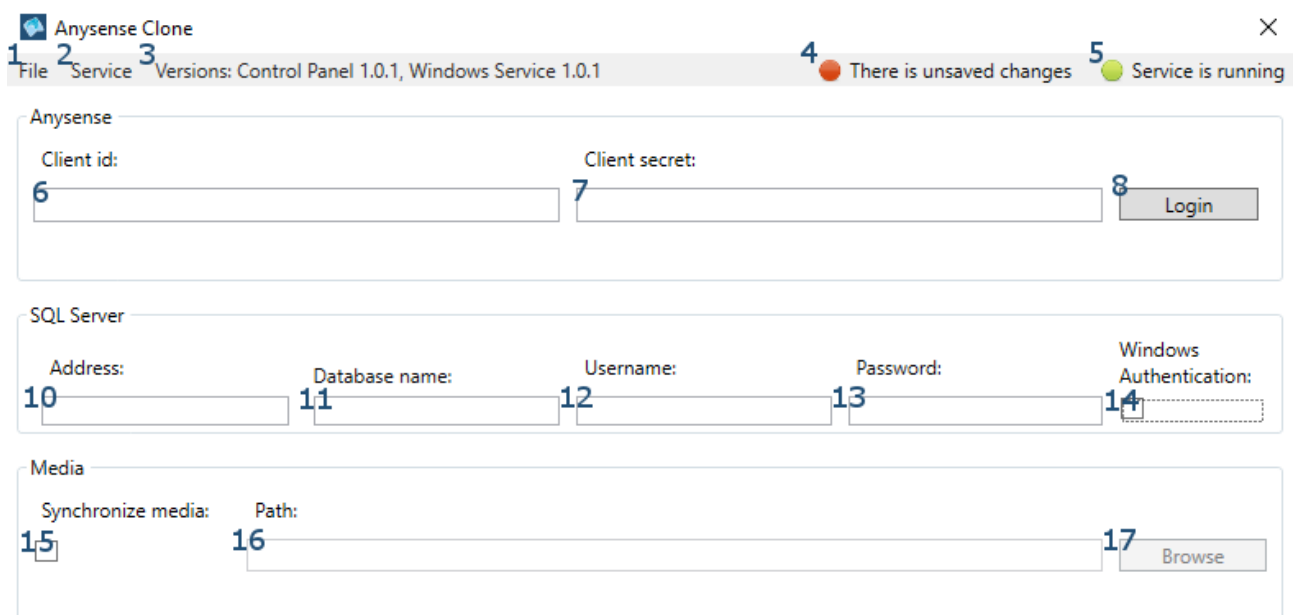
The software is self-updating and should only require manual updating very rarely.

## 3. Configuration

### 3.1 Control Panel

After installing the software, the Control Panel is available through desktop and Start Menu shortcuts. When clicked, it will prompt for Administrator privileges, be sure to grant those.

#### 3.1.1 The user interface



The screenshot shows the 'Anysense Clone' Control Panel window. The title bar includes a close button (X) and a status bar with two indicators: a red dot labeled '4 There is unsaved changes' and a green dot labeled '5 Service is running'. The main interface is divided into three sections:

- Anysense:** Contains a 'Client id:' field (6), a 'Client secret:' field (7), and a 'Login' button (8).
- SQL Server:** Contains five fields: 'Address:' (10), 'Database name:' (11), 'Username:' (12), 'Password:' (13), and 'Windows Authentication:' (14).
- Media:** Contains a 'Synchronize media:' checkbox (15), a 'Path:' field (16), and a 'Browse' button (17).

#### 3.1.2 The user interface explained

1. File menu – access this to save the configuration
2. Service menu. Start/stop/restart the Windows service from here
3. Version numbers. Displays the current version number of the running software. Click to update, the version numbers.
4. Indicator that displays if there are unsaved changes. The Windows service doesn't have the last changes settings if this is red.

5. Indicator that displays the state of the Windows service.
6. Client Id of the Anysense Client created on the Anysense Website.
7. Client Secret of the Anysense Client created on the Anysense Website
8. Login/Logout button
9. [no longer present]
10. Address to the local SQL server that should store the cloned data (use comma if specifying a port number)
11. Database name for the cloned data. It is created automatically if the SQL user has dbcreator rights.
12. Username for the SQL user (if not using Windows Authentication)
13. Password for the SQL user (if not using Windows Authentication)
14. Toggle to use Windows Authentication. Note: The Windows Service will not impersonate the current user, unless this is changed in the Windows settings on the machine!  
([https://technet.microsoft.com/en-us/library/cc755249\(v=ws.11\).aspx](https://technet.microsoft.com/en-us/library/cc755249(v=ws.11).aspx))
15. Toggle to clone media
16. Path to where the cloned media should be stored
17. Click to browse for the path instead of entering it.

## 4. Technical questions

### 4.1 Interval

The service synchronizes every 10th minute. If the procedure is still running, it will be queued once.

### 4.2 Media synchronization

If enabled, then every time the system synchronizes a row, it check if all media is present. If media file has been downloaded once and then removed on the local machine, it will be downloaded again.

### 4.3 Only changes are synchronized

The server doesn't return all data at every synchronization. If the data has been downloaded once, it is not downloaded again until it has been changed on the server.

### 4.4 Can I write changes to the database?

No. You risk ruin the data and then cause errors in the service. Furthermore, the changes are never sent to the server. If you need data exchange, check out Anysense Sync, our CSV exchange tool.

### 4.5 What kind of data format is this?

All the data formats are documented in our API Documentation on the our support website.

## 5. Logging

Log information for the Windows service can be found in Event Viewer in Windows (Danish: Logbog). There is a logfile called Anysense.

### 5.1 Verbose logging

If there – for any reason – is a need for more detailed logging, verbose logging can be enabled by creating an empty text-file at C:\ProgramData\ITXpress\AnysenseClone\verbose.txt

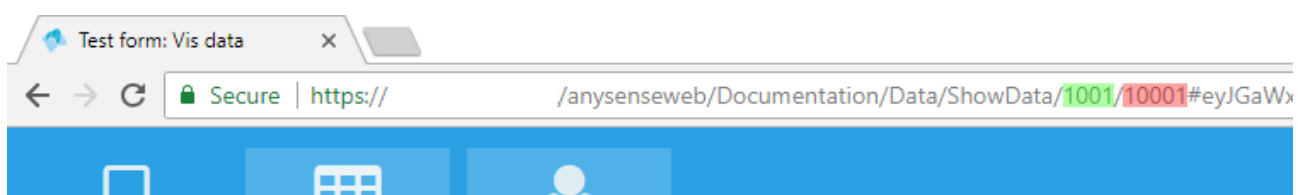
### 5.2 Status files

For a simpler automatic surveillance, the service writes a timestamp in on specific events.

- Beginning to check for data
  - o C:\ProgramData\ITXpress\AnysenseClone\LastCheckInitiated.txt
- Got data changes from Anysense
  - o C:\ProgramData\ITXpress\AnysenseClone\LastDataChange.txt
- Finished cloning logic
  - o C:\ProgramData\ITXpress\AnysenseClone\LastCheckCompleted.txt
- An error occurred during cloning
  - o C:\ProgramData\ITXpress\AnysenseClone\LastError.txt

## 6. Database structure

Anysense forms is designed that way, that when a user changes the structure, a new version is created. Each version has their own table in the database named “ResultData\_{version id}”. The version id, can be found on the web page, when looking at data for a given form.



*The highlighted green text is the Form Id, the highlighted red text is the Version Id.*

The latest version id, can also be found in the local database, by looking at the Forms table, which has a column named NewestVersionId, where form Form Id is the primary key. This id can also be found on the webpage when looking at data

A data table consists of multiple system value columns, such as submitter, submit date, archived state etc. The entered data, are in named columns in the same order as they are represented in the form. The names

of the columns is "{section name} | {element name}". If multiple fields is named the same, then there will be added a counter, ex "{section name} | {element name} (2)".

## 6.1 Subforms

Data for each subform is saved in its own data table. The version id is always the version id of the parent form, incremented by 1 plus the number of subform elements before the current subform element in the form.

If version id 22032 has two subforms, then they will be 22033 and 22034.

Subform data is linked to their parent data by ParentDataId foreign key in the subform data tables.

## 7. Reset of client cache

In some cases, the Control Panel will ask for the user to delete the client cache. Simply delete the local database, or all tables and all medias. It is very important that the prompts is not just ignored.

It will always happen when a user is doing something active.

### 7.1 Logged out

If the service stops cloning data and the error log says that the token is expired, or that the user is not logged in, then open the Control Panel and log in again.

This happens if the user used for cloning changes their password.

In some very rare cases, we have to perform operations on the data on the server, and we have to force all clients to login again and clear the client cache. (This will be prompted).

## 8. Support

Our support can be reached through the chat, e-mail or phone.

- Support website: <http://anySense.dk/support>
- Chat on <http://anySense.dk/> or your companys AnySense web portal
- Email at [support@anySense.dk](mailto:support@anySense.dk)
- Call at +45 6171 8833