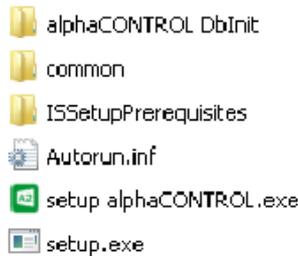


## 1. File Structure

This is what the root setup directory looks like:



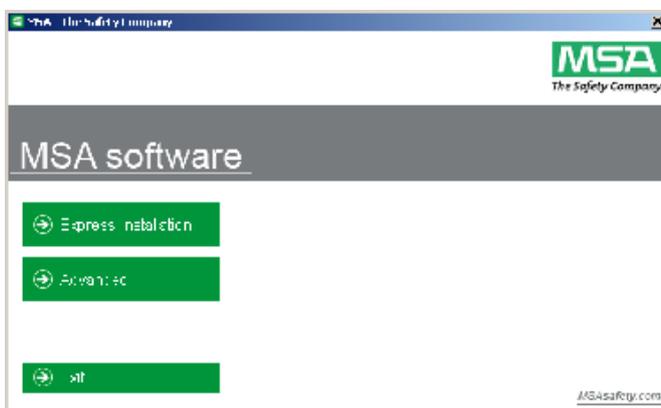
- **alphaCONTROL DbInit:** Contains setup routine to install an empty database instance
- **common:** Contains Firebird DMBS Setup, MsSql 2012 Express Setup, A2 Licence Agreement and MSA Encryption Tool
- **ISSetupPrerequisites:** Contains third party runtime libraries required by A2 (.Net Framework 4.0 Full) and the Setup routine itself (MSXML 4.0, required to manipulate A2 Xml configuration files during installation)
- **Autourun.inf:** Common auto run file
- **setup alphaCONTROL.exe:** The real setup routine for A2
- **setup.exe:** Setup launcher used to launch the real setup routine with different parameters

## 2. Setup Launcher

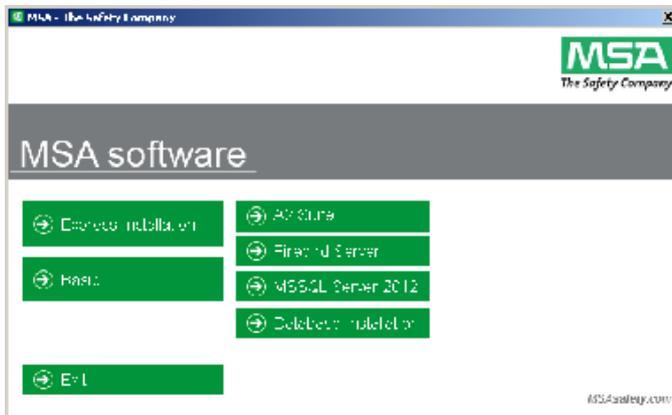
The Setup Launcher is used to invoke the real setup routine with different parameters to customize the behaviour. The application is written in Delphi and compiled to binary executable. The reason for this is that a customer does not need to have .NET pre-installed on his machine to let it run.

Actually it is not possible to translate the GUI of the setup launcher into another language. The default language is English.

Default View:



Expert / Advanced View:



### 3. Default installation directories

#### On 32 bit OS:

A2 Application: C:\program files\MSA\A2 Suite\

Config files: C:\Users\Public\Documents\MSA\

#### On 64 bit OS:

A2 Application: C:\program files (x86)\MSA\A2 Suite\

Config files: C:\Users\Public\Documents\MSA\

### 4. Installation Scenarios

#### Express Installation (Recommended for first time users)

The express installation is highly recommended for first time users, since it installs everything that is required to run MSA A2 on the machine where the express installation gets executed. To execute the express installation, a user has to click the “Express Installation” button of the setup launcher.

Parameter for **setup alphaCONTROL.exe** to get into express mode:

setup alphaCONTROL.exe /v”SUPEREXPRESS=TRUE”

Following components are getting installed during express installation:

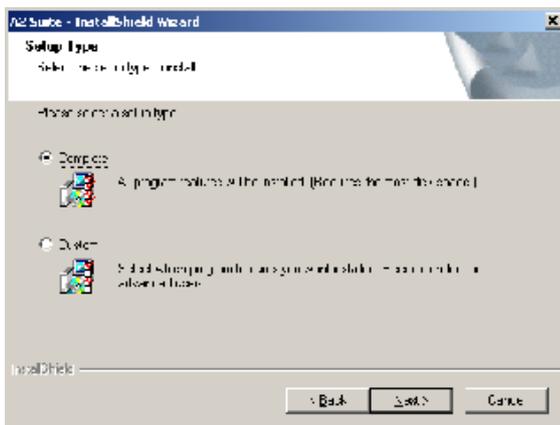
- Firebird 2.5.2.26540 super server DMBS (32/64 bit depending on environment)
- Empty A2 Database gets integrated into Firebird DMBS automatically
- Microsoft .Net Framework 4.0 Full (if not already installed)
- A2 Application
- A2 Windows Service
- Hardware drivers:
  - MSA alphaBASE
  - MSA alphaTAG Writer

- MSA G1
- MSA M7 Firehawk

### Advanced Installation

The advanced installation is similar to the express installation. It is recommended for environments where a DBMS (Firebird, MSSql) is already present and ready to be used. The main difference is that no DBMS gets installed automatically, nor does the user have any chance to install it during the installation. To execute the advanced installation, the user has to click the “Advanced Installation” button of the setup launcher.

The user has the possibility to choose between Complete and Custom setup type during the installation:



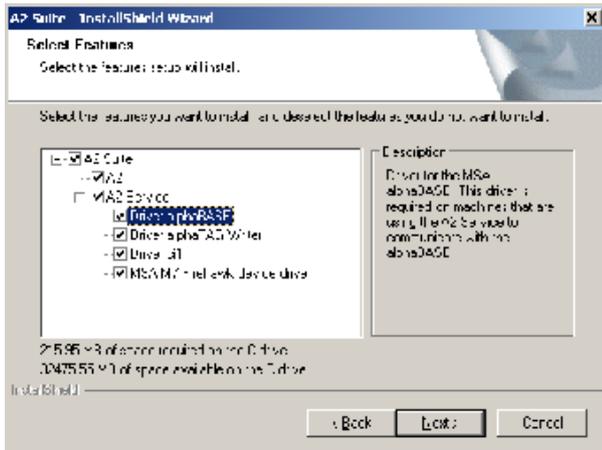
#### Complete:

Following components are getting installed during advanced complete installation:

- Microsoft .Net Framework 4.0 Full (if not already installed)
- A2 Application
- A2 Windows Service
- Hardware drivers:
  - MSA alphaBASE
  - MSA alphaTAG Writer
  - MSA G1
  - MSA M7 Firehawk

#### Custom:

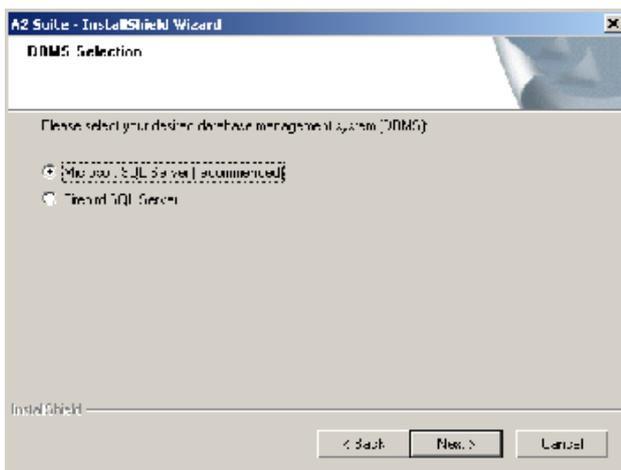
The user has the possibility to change the default installation path and can select the features he wants to install at the following dialog:



- Microsoft .Net Framework 4.0 Full (Always if not already installed, not possible to disable)
- A2 Application (if A2 is selected)
- A2 Windows Service (if A2 Service is selected)
- Hardware drivers:
  - MSA alphaBASE (if Driver alphaBASE is selected)
  - MSA alphaTAG Writer (if Driver alphaTAG Writer is selected)
  - MSA G1 (if Driver G1 is selected)
  - MSA M7 Firehawk (if M7 Firehawk is selected)

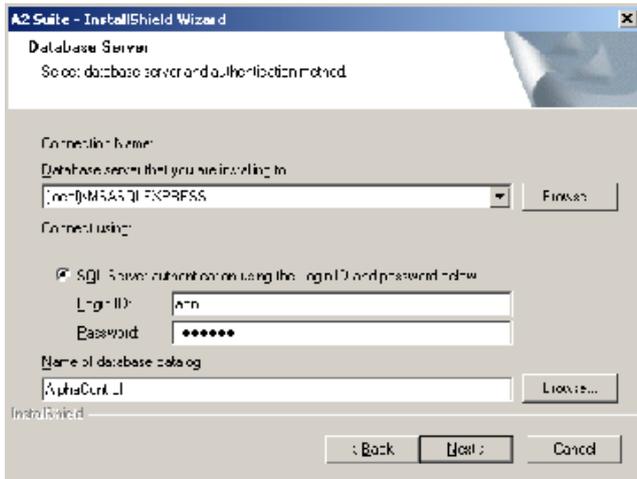
#### DMBS Selection

At the Dialog DBMS Selection the user needs to select the DBMS he wants to use for A2. Keep in mind that this does not install the selected DBMS but required to setup configuration files to establish the database connection later on:



#### MSSql Configuration

MSSql Configuration Dialog:

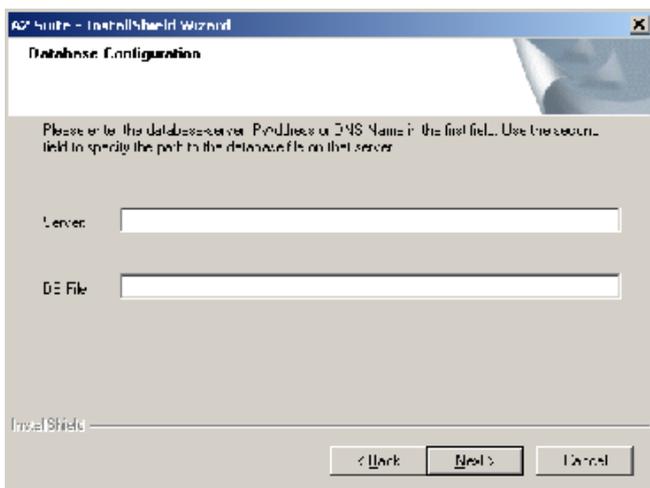


The user needs to enter valid login credentials for the desired MSSql Server. To ensure that the credentials are correct, the „Browse...“ button next to the input field for the database catalog can be used.

The default login credentials for the MSSql Server installation that ships with the complete installation package are already entered when the user gets to this dialog. This means a user does not need to change anything here if the shipped MSSql Setup routine has been used before to setup the Server. For more information please check section DBMS Installation of this document.

### Firebird Configuration

Firebird Configuration Dialog:



The user needs to enter the DNS-Name or IP-Address of the firebird server into the first input field. The second input field is the physical path to the database file.

Example:

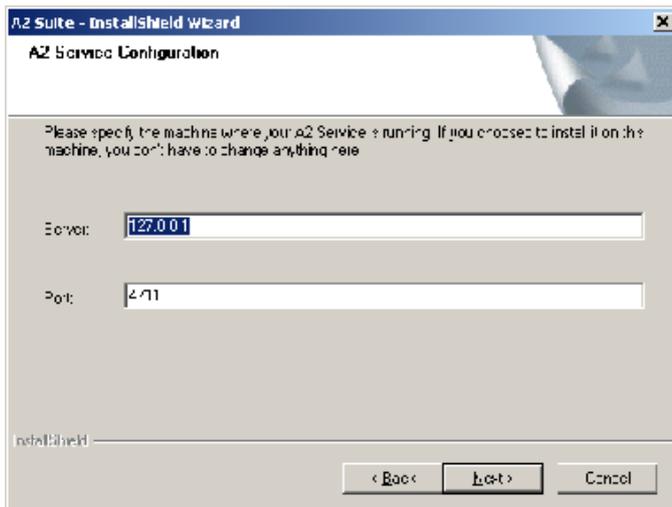
DNS-Name of the machine where Firebird DBMS is running: „server-01“

File located on server-01: „C:\program files\MSA\A2 Suite\data.fdb“

This way „server-01“ goes into the first field, „C:\program files\MSA\A2 Suite\data.fdb“ into the second one.

### A2 Service Configuration

A2 Service Configuration Dialog:



Server: The user has to specify the DNS-Name or IP-Adress of the server where the A2 Service is running.

Port: The listening port of the A2 Service, the default Port is always 4711. It is not recommended to change it unless another application is blocking it.

## DMBS Installation

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The complete installation package ships with two DBMS: Firebird and MSSql.

### Firebird

To launch the shipped Firebird 2.5 setup, the user has to click the „Firebird Server“ button of the setup launcher. It will launch the default Firebird 2.5 32/64 bit setup depending on the environment.

Default database administrator account:

sydba / masterkey

Find more information about the setup at <http://www.firebirdsql.org/en/documentation/>

### MSSql

To launch the shipped MSSql 2012 Express setup, the user has to click the “MSSQL Server 2012” button of the setup launcher. It will launch the setup with a custom configuration file to make the setup easier for the user.

Default database administrator account:

sa / MSA!alphacontrol

Default instance name:

MSASQLEXPRESS

Authentication Mode:

SQL

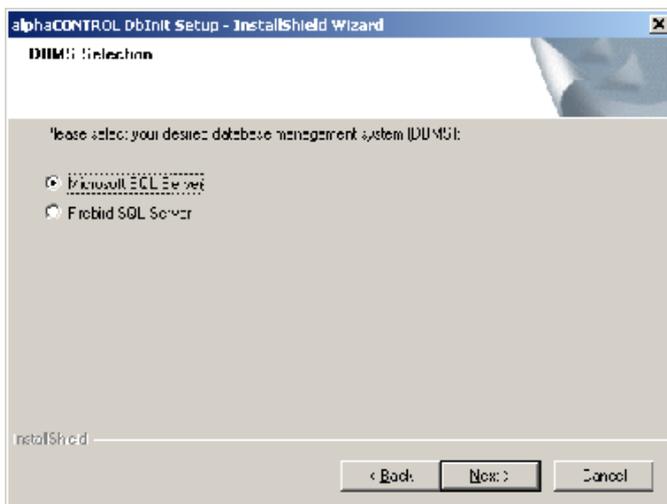
A complete list of the configuration is located at

- common\Mssql\SQL2012x64Config.ini (for 64 bit environments)
- common\Mssql\SQL2012x86Config.ini (for 32 bit environments)

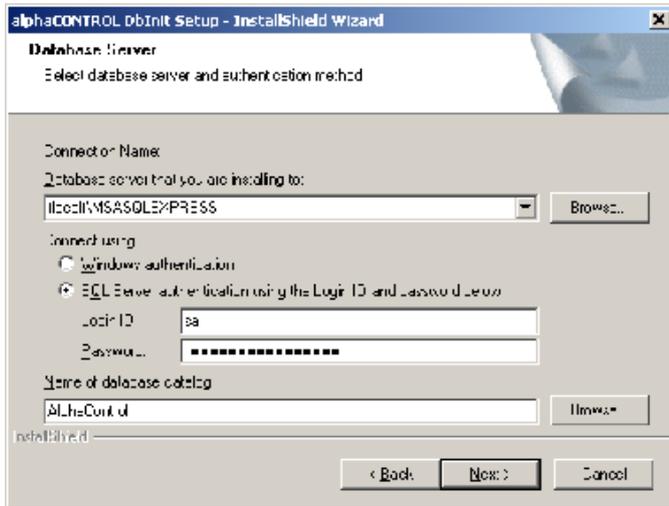
## 5. Database Installation

The Database installation is required to set up the required data structure (database tables, user accounts, etc.) into an existing DBMS. The Database installation is not required for the express installation because it is executed automatically during the express installation.

To launch the database installation the user has to click the “Database Installation” button of the setup launcher. During the setup the user needs to select the desired DBMS:



MSSql:



Note: Make sure you enter the credentials of the database administrator account here. If the MSSql setup that shippes with the installation package has been used, dont change anything here.

Firebird:



Note: The user needs to enter the DNS-Name or IP-Adress of the firebird server into the first input field. The second input field is the physical path to the database file.

## 6. Troubleshooting

### Setup prompts that a Firebird Version is already installed

It is recommended to make a backup of the machine. After that uninstall the existing firebird instance and install the A2 Setup with the newer version.

If “TecBOS.Solutions” is installed on the machine, you have to remove “TecBOS.Solutions” before you can install a newer version of the Firebird Server. The problem is that Tecbos.Solutions does have a Firebird Installation integrated and you can’t remove it separately. When the newer Version of Firebird is installed, you can re-install “TecBOS.Solutions” with the client setup method.

## 7. How To: Uninstall Application / MSA Hardware Drivers

To uninstall the application use the Windows “Programs and Features” panel inside the system configuration. Each hardware driver does have its own entry.

## 8. How To: Edit Licence Agreement

The location of the licence file that is shown during the installation is:

\\common\Licence Agreement\Eula.rtf

This file can be changed to change the text that is shown in the licence agreement dialog during the setup.

