

## 1 Installation Guide Authorization Box on Azure

This document describes how to install the Authorization Box Connector and the Dynamics 365 Business Central (formerly known as Dynamics NAV, new name introduced October 1<sup>st</sup>, 2018) web service. These steps are required for installing the Authorization Box Connector. This service is required for (secure) communication with the other components of Authorization Box.

Please contact 2-Control support if you have any questions: [support@2-control.nl](mailto:support@2-control.nl). Be sure to provide:

- Version of your Dynamics environment and Windows
- Screenshot of any error or message you receive
- If possible, send any log files or other error messages which may be relevant.

## 2 Installation Requirements Authorization Box

### 2.1 System requirements

- Supported Dynamics 365 Business Central / Dynamics NAV versions: Dynamics NAV 2009 R2 and up:
  - For version 2009 R2 a RTC-version of NAV server needs to be installed, otherwise use of Authorization Box is not possible;
- Service tier configuration:
  - NTLM authentication is not supported and should be disabled on the service tier configuration, or a separate service tier should be created without NTLM authentication;
  - SOAP Services needs to be enabled;
- A free object ID for execution of the web service codeunit in your Dynamics license:
  - For on premise installations:
    - If you have 2-Controlware add-on's such as Field and Dataset Security, you do not need a free object ID, the codeunit is included in every 2-Controlware add-on. You might need to upgrade to the most recent version of 2-Controlware;
    - Otherwise, please pass the free object ID to 2-Control support so we can provide you with the correct codeunit. If you have problems in finding a free object ID, please contact your Microsoft partner;
  - For Dynamics 365 Business Central in the cloud:
    - We can provide you with an extension that can be used as connector;
- A Windows version supported by Microsoft;
- .Net framework 4.6.1 or more recent.

### 2.2 Accounts and permissions

Authorization Box requires two accounts:

1. Dynamics access: a Dynamics user with SUPER permissions in any environment which needs to communicate with Authorization Box;
2. Account permissions for the Authorization Box Connector (Windows service): default this service is installed with the Network Service account. You are free to use a different account for this service afterwards, the following permissions are then required:
  - a. Log on as a service;
  - b. Read and execute permissions for the service installation folder.

The firewall needs to enable communication between:

1. The Authorization Box Connector and any Dynamics service tier to be connected;
2. The Authorization Box Connector and <https://login.2-control.nl>. This concerns only outside communication from your server to the Authorization Box web application (port 443).



## 2.3 Installation by 2-Control

In case a consultant installs Authorization Box Connector for you, we need a contact or an account with administrator rights on the machine where the service will be installed in addition to the requirements mentioned below.

## 3 Steps for installation

See below the different steps for installing the Dynamics web service and the Authorization Box Connector. Finally, we help you setting up your first database connection.

### 3.1 Dynamics 365 Business Central / Dynamics NAV

For on premise installations:

1. Import the provided codeunit ABWebService in your development environment.
  - a. If you have the most recent version of 2-Controlware, you already have this codeunit with id 11112022
  - b. 2-Control support will help you if you need the object with a different object id because of license permissions
2. Compile the codeunit after import, also if the property Compiled is checked.
3. Create in the page Web Services a web service with this information:
  - a. Object Type: Codeunit
  - b. Object ID: 11112022 (or a customization number if you do not have 2-Controlware)
  - c. Service Name: AB
  - d. Published should be True (ticked)
  - e. OData URL is not applicable
  - f. Copy the SOAP URL, you will need it in the next steps.

#### Web Services ▾

Object Type ▲	Object ID	Object Name	Service Name ▲	Published	OData URL	SOAP URL
Codeunit	11112022	ABWebService	AB	<input checked="" type="checkbox"/>	Not applicable	<a href="http://2CONI">http://2CONI</a>

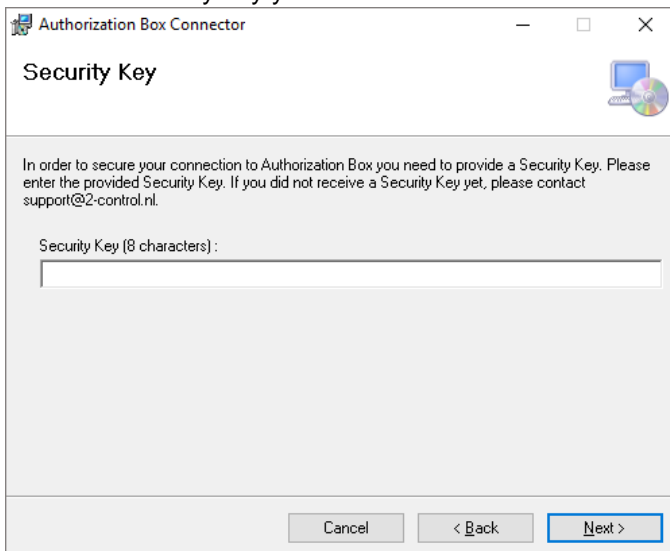
4. The Authorization Box Connector should be installed on a server which can access the above installed web service. Check on the machine on which the connector will be installed whether you can open the SOAP URL in a browser. You might have to enter account credentials used by the service for Dynamics access. You should see a valid XML-document (see below for an example). If you do not get something like the screenshot below, either:
  - a. the configuration of the web service is incorrect;
  - b. the codeunit is not compiled in Dynamics;
  - c. any credentials entered are incorrect – check by starting the Dynamics client with Run as other user in the right mouse menu combined with shift;
  - d. the (domain) name of the server needs to be replaced with its internal IP address because incorrect set up of delegation (SPN's) - see [https://msdn.microsoft.com/en-us/library/jj551742\(v=nav.90\).aspx](https://msdn.microsoft.com/en-us/library/jj551742(v=nav.90).aspx) for more information about delegation;
  - e. or the browser cannot reach the URL because of firewall restrictions or a disabled SOAP-service.



```
<?xml version="1.0"?>
- <definitions xmlns="http://schemas.xmlsoap.org/wsdl/" xmlns:tns="urn:microsoft-dynamics-
schemas/codeunit/AB" targetNamespace="urn:microsoft-dynamics-schemas/codeunit/AB">
- <types>
- <schema xmlns="http://www.w3.org/2001/XMLSchema"
targetNamespace="urn:microsoft-dynamics-schemas/codeunit/AB"
elementFormDefault="qualified">
- <element name="Select">
- <complexType>
- <sequence>
<element name="tableName" type="string" maxOccurs="1"
minOccurs="1"/>
<element name="fields" type="string" maxOccurs="1" minOccurs="1"/>
<element name="where" type="string" maxOccurs="1" minOccurs="1"/>
<element name="xmlText" type="string" maxOccurs="1" minOccurs="1"/>
</sequence>
</complexType>
</element>
- <element name="Select_Result">
- <complexType>
- <sequence>
<element name="return_value" type="boolean" maxOccurs="1"
minOccurs="1"/>
<element name="xmlText" type="string" maxOccurs="1" minOccurs="1"/>
</sequence>
</complexType>
</element>
- <element name="Insert">
- <complexType>
- <sequence>
<element name="tableName" type="string" maxOccurs="1"
minOccurs="1"/>
<element name="fields" type="string" maxOccurs="1" minOccurs="1"/>
<element name="values" type="string" maxOccurs="1" minOccurs="1"/>
</sequence>
</complexType>
</element>
- <element name="Insert_Result">
- <complexType>
- <sequence>
<element name="return_value" type="boolean" maxOccurs="1"
minOccurs="1"/>
</sequence>
</complexType>
</element>
- <element name="Update">
- <complexType>
- <sequence>
<element name="tableName" type="string" maxOccurs="1"
minOccurs="1"/>
<element name="fields" type="string" maxOccurs="1" minOccurs="1"/>
<element name="values" type="string" maxOccurs="1" minOccurs="1"/>
<element name="where" type="string" maxOccurs="1" minOccurs="1"/>
</sequence>
</complexType>
</element>
- <element name="Update_Result">
- <complexType>
- <sequence>
<element name="return_value" type="boolean" maxOccurs="1"
minOccurs="1"/>
</sequence>
</complexType>
</element>
- </definitions>
```

### 3.2 Install Authorization Box Connector

1. On the server where you want to install the connector, run the installer setup.exe from the zip file authorizationbox-setup.zip. You can download the installer from: <https://2-control.nl/nl/software/authorization-box/> (bottom of the page: Authorization Box Connector Windows Service);
2. Choose a different location for installation if required;
3. Insert the security key you received in the welcome mail after registration:



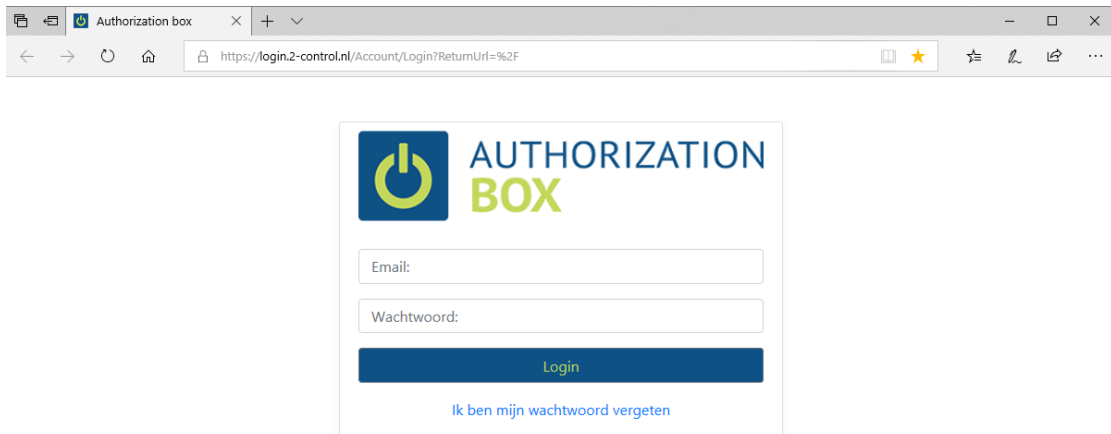
4. Permit changes to the system from the UAC dialog.



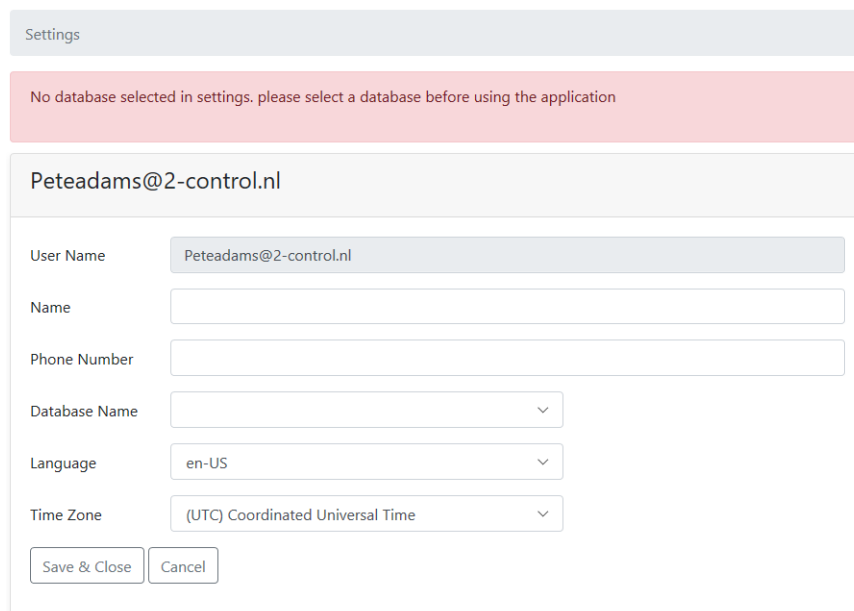
5. If required, you can set the recovery model of the Authorization Box Connector to restart the service after the first failure in the default Windows Services console;
6. If required you can change the user account of the Authorization Box Connector in the default Windows Services console. The connector is default installed with the Network Service account.

### 3.3 Create your first Database Connection

1. Login at <https://login.2-control.nl> using the credentials provided in the registration email. The user name is the email address used to register with Authorization Box. The page Authorization Box shows up:



2. After login, the system will open the user settings but you first have to create a Database Connection. Click therefor on Cancel.



3. The next step is to create a connection between the Authorization Box and your Dynamics environment. Click in the menu on Setup, General for the Customer details. In this page you can create a new Database Connection under the Fast Tab Databases.
  - a. Click on the New button
  - b. Enter the Database Name. Mind this cannot be changed afterwards; choose a name without NAV version, date, etc.

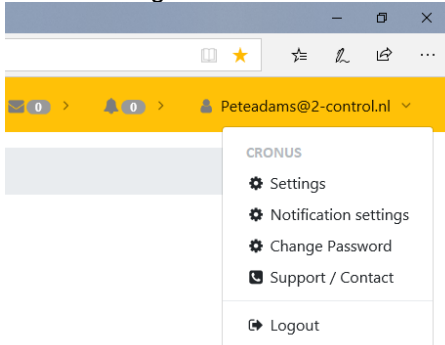


- c. Paste the SOAP-URL from the web service in the Connection URL-field (see 3.1)
- d. Enter the Domain
- e. Enter the Username and Password for access to Dynamics. This should be the account with SUPER-permissions.
- f. Click on Test Connection for a connection test.
- g. After a successful test you can Save & Close the database setup.

### Database

Database Name	<input type="text" value="Accept2018"/>
Connection URL	<input type="text" value="http://2CONTROL18.2-control.local:7047/DynamicsNAV110/WS/CRONUS/Codeunit/AB"/> <small>http(s)://&lt;Domain&gt;:&lt;Port&gt;/&lt;NAV Service Name&gt;/WS/&lt;Company&gt;/Codeunit/AB</small>
Domain	<input type="text" value="2-control"/>
User	<input type="text" value="Admin"/>
Password	<input type="password" value="••••••"/>

4. After creating the database connection(s) you must link the database in your user settings.



### Settings

Peteadams@2-control.nl

User Name	<input type="text" value="Peteadams@2-control.nl"/>
Name	<input type="text" value="Pete Adams"/>
Phone Number	<input type="text" value="0612585896"/>
Database Name	<input type="text" value="Accept2018"/>
Language	<input type="text" value="en-US"/>
Time Zone	<input type="text" value="(UTC) Coordinated Universal Time"/>



### 3.4 Finish

You have completed installation of Authorization Box. Refer to the user guide for further instructions.

Do not hesitate to contact us at [support@2-control.nl](mailto:support@2-control.nl) or +31 76 50 194 70 if you have any questions or remarks about our products or services.

