



Installation and Upgrade Guide

APS for Abas 21

EDITION: Basic / Advanced

VERSION: APS2100R8N01P05

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1 NOTE



This document often refers to the name of the APS installation directory and installation package. Ensure that you use the correct name when you use commands that contain it.

Generic notation

allinstall/aps-<Version>-<Edition>

Notes:

- As of APS for Abas 2100r8n01, the installation directory has been renamed from **allinstall** to **allinstall** (without "s").
- APS is available in the following editions: Basic ("basic"), Advanced ("advanced") and Professional ("pro").
- Ensure that everything is written in lower case.

EXAMPLE: Version-based notation

| allinstall/aps-2100r8n01-basic

2 REQUIREMENTS

The following system requirements must be met for the installation:

- Abas client version 2100r8n10 or higher
- The **gawk** program usually included in the Linux distribution must be installed.
- Configured EDP server
- Administrator permissions on the server
- An active Abas password data record with
 - System permissions
 - Permissions for the **allspp** workspace
- The client need not be locked to install APS Basic and Advanced.
- You can only upgrade from APS version 2016r2n00 or higher.

2.1 Identity number

The installation uses fixed identity numbers.

In the following database, existing objects will be renamed according to the following template:

Database name		Template	Example
Data export	V-87-09	4913nnn	4913007
Company (key table)	V-12-31	9FPnnnn	9FP0007

3 LICENSING

Contact Forterro Deutschland Abas GmbH for the relevant licenses for your edition.

4 UPGRADE NOTE

Use the same file in the installation package for performing the upgrade as for the new installation. This file is for upgrades from an APS Basic/Advanced version 2016r2n00 or higher.

The same steps are required for the upgrade as for a new installation, as described in this guide.

Contact your Abas partner to update APS from earlier versions.

5 INSTALLATION

5.1 Preparing the installation



Ensure that there are no prepared or defective keys in the system, or reorganize them beforehand.

The installation script creates the **\$MANDANTDIR/win/productionplanner** directory automatically during the installation.

If an error occurs because the win directory cannot be written to, you must create the **\$MANDANTDIR/win/productionplanner** directory manually.

Login to the help and open the client shell:

Help menu > Maintenance programs for a client > <Select client> > Shell

Unpack the installation archive in the client directory.

```
bash-4.1$ tar xvfz aps-<Version>-<Edition>.tgz
```

5.2 Performing the installation



Do not perform the installation without first creating a backup of the system.

Make sure you are in the client directory:

```
bash-4.1$ cd $MANDANTDIR
```

Start the installation with the following call:

```
bash-4.1$ allinstall/aps-<Version>-<Edition>/install-APS-<Edition>.sh
```

The installation script checks the system requirements, and aborts if they are not fulfilled. If the installation aborts, you can start it again after removing the cause. The installation will continue where it stopped.

If the installation was successful, the installation script ends with the notification **Installation completed** and the **Exit status 0**.

The installation creates the following protocol files in the **\$MANDANTDIR/Messages** directory:

Standard output:	APSinstall<version>.log
Error output:	APSinstall<version>.err.log

Instructions and EDP notifications:	APSinstall<version>.notes.log
-------------------------------------	-------------------------------

5.3 Screens

APS uses standard Abas fields that are not included in the standard Abas screens. The screens must be customized in order to use these fields. The following section lists the screens and the variables relevant for APS.

File Group	Variable	Edition	Screen template
Part Product Screen number 2 V-02-01	apspaketschl (apszumgr as of 2018r4)	Advanced	In the production list line zoom, on a separate APS tab Recommendation: Additionally, in the production list table, to the right of the mgr field, field length 30
Sales Item V-03-02 Screen number 32	apssimterm	Basic Advanced	In the line zoom, on a separate APS tab Recommendation: Additionally, integrate the standard fields vorlauf and wtsterm and the apssimterm in the customer order table, to the right of the wtterm field
Sales Item V-03-02 Screen number 32	apsfprio	Advanced	In the line zoom on a separate APS tab
Purchasing Work order suggestion V-04-05 Screen number 40	fixterm	Basic Advanced	In the table, to the right of the fix field
Purchasing Work order suggestion V-04-05 Screen number 40	fprio apsgeplant	Advanced	In the line zoom of the work order suggestion on a separate APS tab Recommendation: Additionally, in the table, to the right of the fixterm field
Capacity Work center V-08-02 Screen number 80	apsplanmgr	Basic Advanced	On a separate APS tab
Capacity Work center V-08-02 Screen number 80	apspaketmin apspaketbildfrist	Advanced	On a separate APS tab

File Group	Variable	Edition	Screen template
Calendar Available capacity V-137-02 Screen number 898	apssplan	Basic Advanced	In the table to the left of the ptext field
Purchasing Reservations V-04-04 Screen number 113	apspaketschl (apszumgr as of 2018r4) apskonfiginfo	Advanced	In the line zoom, on a separate APS tab Recommendation: If required, integrate the fields in the table, to the right of the mgr field, field length 30

6 CONFIGURATION

Additional configuration steps are usually not required. See the manual for details on the requirements and notes for the client installation.

6.1 Assigning workspaces to users

The following workspaces are required for working with APS Professional:

- allspp

During the installation, the program assigns all workspaces to allspp that do not yet have the assignment, even if they are assigned to other workspaces.

- fe
- la
- allspro

6.2 Configuring user permissions

6.2.1 Permissions for the APS application

The following permissions are required for using APS:

Type commands

- Type command 8: Scheduling
- Type command 12: System
- Type command 38: Infosystem

Database commands

Database number/name	Required permissions
0 – Customer 1 – Vendor 2 – Part 3 – Sales 4 – Purchasing 5 – Account 7 – Operation 8 – Capacity 9 – Production order 11 – Employee 12 – Company 28 – Material allocation 39 – Warehouse	display, empty, modify, select
65 – Infosystem	Call

Database number/name	Required permissions
86 – Operation 87 – Data export 106 – Packing instructions 109 – Value set 121 – Value sequence 137 – Calendar 192 – Lock configuration	view, empty, modify, select
If using Abas Project Management: 149 – ProjectSuitePlanning 150 – ProjectSuiteMasterdata 154 – ProjectSuiteValuedata	view, empty, modify, select

6.2.2 Permissions for interacting with and writing back to Abas from APS

The following permissions are required for actions such as: shifting operations, releasing work order suggestions, writing production plans etc.:

Additional commands

- Additional commands 3: edit parts list

Database commands

Database number/name	Required additional permissions
3 – Sales 4 – Purchasing	Edit
9 – Production order	release, edit

6.2.3 Permissions for master data related to planning

In order to administer the master data in the production planning we recommend at least the following permissions:

Database number/name	Required permissions
2 – Part 7 – Operation 8 – Capacity 11 – Employee	display, edit, new, empty, modify, select

6.3 APS user menu

The abasAPS.ucm workgroup menu is created during installation. This menu must be entered in the password record of each user.

The ucm files are included in scope of supply, and saved in the **\$MANDANTDIR/win/productionplanner/Install** directory.

6.4 Connecting to the machine loading and scheduling infosystem and procurement status infosystem

The installation script connects APS to the Machine loading and scheduling (MABEL), and the procurement status (BSTATUS) infosystems.

6.5 Business Apps and Abas DMS

APS for Abas supports the connection with Abas Business Apps and Abas DMS. The client must have JavaFX from gluon installed, and the bin directory for the JavaFX installation in the path environment variable for the user or the system:

<https://gluonhq.com/products/javafx/>

Restart the Abas GUI on the client after installing JavaFX.

6.6 Abas WebUI (optional)

Some additional steps are required to run the application in the Abas WebUI. Skip this paragraph, if you are running the application in the native Abas GUI.

1. Enter the URL for the client in the s3/mandantdir.env file:

```
ALLWEBUIURL=<URL>
```

2. Reconfigure the environment as s3 with the command:

```
envmake -B
```

Every user who wants to start APS via the Abas WebUI must register APS for Abas once using their Windows login on their terminal device by running the following file:

```
\\<host>\<client>\productionplanner\Install\RegisterAPSCient.exe
```

6.7 Access via the Abas Mini GUI

If you are using the Abas Mini GUI to access APS, it must be set up as follows:

- Copy the **\$MANDANTDIR/win/productionplanner** folder to the local GUI directory

To automatically determine the connection data for Abas:

- Copy the **\$MANDANTDIR/win/mandant.ini** folder to the local GUI directory

6.8 Creating database keys

Database keys are created during the installation to shorten the time required for loading the scheduling data from the database. If the installation script could not create a key (because a similar or same key already exists, for

example), it saves the relevant files in the **productionplanner/Install/keytable** directory, for importing the key with the Abas standard program (**xmlimport.sh**). Check these keys and install them manually if required.

6.9 Java environment

The Java environment for the Planner components in APS can be configured via the entries in this file:

```
$MANDANTDIR/win/productionplanner/Planner/productionplanner.l4j.ini
```

The following options are available:

1. -Xms1024m
Initial size of the heap for the application.
Defines the amount of memory that is initially occupied by the application. The larger the heap, the more objects can be loaded without the application becoming sluggish due to garbage collection. However, the main memory on the target computer must also be available (as a contiguous block), otherwise the application will not start. In this case no error message is displayed. If this occurs, then the Xms and Xmx values in productionplanner.l4j.ini must be lowered.
2. -Xmx2048m
Maximum size of the heap for the application.
Defines the maximum amount of memory that is occupied by the application. (For further descriptions see Xms)
3. -noverify
Causes the JavaVM to not verify the bytecode when loading the classes.
This will speed up the application startup process. If there are security concerns, the parameter can be deleted from the file. Bytecode verification is usually only necessary for programs from unprotected sources.
4. -Djava.locale.providers=COMPAT,JRE,CLDR
Defines sources from which language-specific style sheets are obtained.
This parameter is required for technical reasons and must not be changed or removed.
5. --add-exports java.desktop/com.sun.java.swing.plaf.windows=ALL-UNNAMED
Allows the application to modify standard graphical elements from the Java Look and Feel for Windows.
This parameter is required for technical reasons and must not be changed or removed.

7 INSTALLING THE ENGLISH USER LANGUAGE

APS can be translated into other languages by importing the dictionaries.

The following conditions apply for installing a language:

1. The language is activated in the respective client.
2. The dictionaries exist.

The following language dictionaries are contained in scope of supply:

- American English
- British English

The languages are installed automatically at the end of the APS installation/upgrade routine.

Perform the following steps to run the translation again:

Login to the help and open the client shell:

- **Help menu > Maintenance programs for a client > <Select client> > Shell**

Make sure you are in the client directory:

```
bash-4.1$ cd $MANDANTDIR
```

Start the installation with the following call:

```
bash-4.1$ allinstall/aps-<Version>-<Ausprägung>/install-trans.sh
```

```
#####
Installation der Woerterbuecher fuer APS fuer Abas ERP 2100r8n01, 20220519-125752
Installation of language pack for APS fuer Abas ERP 2100r8n01, 20220519-125752
#####Pruefe
Vorbedingungen / Checking preconditions ...
Abas Version: 2100r8n02
```

Follow the instructions for entering the Abas password and confirm the installation of the languages.

The installation creates the following protocol files in the **\$MANDANTDIR/Messages** directory:

Standard output	siminstall<version>.trans.log
Error output	siminstall<version>.trans.err.log
Instructions and EDP notifications	siminstall<version>.trans.notes.log



All available languages will be installed without being confirmed individually. Installing the English user language overwrites any existing translations. If you do not want this to happen, you must perform the translation manually.

7.1 Installing additional languages

7.1.1 Abas dictionaries

You can install additional languages as follows:

1. After you have unzipped the installation package, there are multiple directories in the allinstall/aps-<Version>-<Edition>/trans/<language> directory.
2. Each language directory is named using the Abas language code (LC column on the Languages tab in the Abas configuration: i.e. American English = A, English = E, French = F, Turkish = T), and contains the dictionaries for the respective language.
3. Save the partial dictionaries in the corresponding directory (i.e.: French partial dictionaries msg.lg, msg.ma, msg.me, msg.pr, msg.tx and msg.vt in the \$MANDANTDIR/allinstall/aps-<Version>-<Edition>/trans/<language>).
4. Perform the steps listed in the [Installing the English user language](#) section.
5. If some translations are missing, complete the partial dictionary and run the translation again.

7.2 Translating user menus (ucm)

The standard user menu for APS is provided in the installation routine. The standard file is in the German user language.

7.2.1 User commands in other languages

If you are using a different user language, the user command menu will be translated automatically as long as the dictionary for the languages is available.

The installation routine translates the command menu into the following languages:

- American English
- British English

If these languages are activated in the client, the translations will be saved in the client dictionaries during the installation routine (install-trans.sh). These languages are then directly available for the command menu if installed accordingly.

You can add other languages or change the command menu text by entering the translations in the Abas dictionaries.

7.2.2 Customizing the user menu

The standard APS user menu should not be edited as it will be overwritten during the next APS installation.

Perform the following steps to customize the user menu in other languages:

- Right click the standard command menu in the selected language and select "save as". Save it as a new menu or .ucm file.
- Make the required changes to the menu
- Permit the new command menu in the password data record.

In this way, you can create command menus for specific languages, even though the standard command menu is in German, as long as the Abas dictionaries have been correctly amended.



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