

Data migration from APE to AMS

en Operation manual

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1 Overview

This document describes the process of data migration from the Access Professional Edition 3.8 (APE 3.8) software to the Access Management System (AMS) software (version 3.0 onwards).

Note: The Access Management System (AMS) software should not be installed on the computer where Access Professional Edition (APE) is installed.

2 Migration support tools

The data migration from APE to AMS is supported by tools that can be found in the AMS installation media in the folders:

```
\AddOns\Standard\ImportExport\
```

\AddOns\Standard\ImportExport\APE Migration\

- APE migration.exe exports APE data and creates the necessary output files for a successful data migration.
 - ACEAuthorizations.csv
 - ACEPersons.csv
 - ACEVisitors.csv
 - Photos.zip
- ImportExportInstaller.exe installs the Importer-Exporter tool to import APE data into the AMS system.

Notice!

These tools migrate only personnel data.

Authorizations used in APE are migrated with their respective validity periods. The authorizations of a person and the corresponding period are visible in the **Persons** dialog. All authorizations assigned to a person are visible in the **Authorizations** dialog. If you also migrate ACEAuthorizations.csv, you will also see the unassigned permissions. However, the hardware configuration requires manual intervention: First, create the device structures in the target system, for example, MAC, AMC, entrances. Next assign the entrances to the authorizations manually.

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Migrating the data 3 3.1

Exporting the data

Prerequisites:

- APE is installed.
- The APE SDK is installed from the same installation media as the APE version that you have installed. This is to ensure that the versions of APE and its SDK are compatible.
- The following folder is copied from the AMS installation media to the computer where _ APE is running.\AddOns\Standard\ImportExport\APE Migration\ It contains the executable APEMigration.exe and its auxiliary files.

Procedure

- On the computer where APE is running, start APEMigration.exe from the folder that 1. you copied as a prerequisite above.
- A login dialog box opens. _

Access Professional Edition migration	tool (version 1.0.0.0)	×
	BOSCH	I
User name:		
User password:		
	Login]

- Enter your APE administrator user credentials. 2.
- 3. Click Login.
- 4. Click Export.

Access Professional Edition migration tool (versi	ion 1.0.0.0) X
	BOSCH
Export your Person, Visitor and Authorization data if you want to import them into Access Engine later.	Export
	Show files

Personnel data is exported and four output files are created:

- ACEPersons.csv
- ACEVisitors.csv
- ACEAuthorizations.csv
- Photos.zip



Notice!

Photos.zip is not shown in the dialog box, but has been exported.

麗 Access Professional Edition migration tool (version 1.0.0.0) ×						
Export your Person, Visitor and Authoriz data if you want to import them into Ac Engine later.	BOSCH					
File name	Number of entities					
Persons.csv	39					
Visitors.csv	8					
Authorizations.csv	13					
	Show files					

5. Click **Show files** to open the file location, or click **Update export** to restart the export.



Notice!

The exported files will be the input for the **AMS ImportExportTool** and must be available when starting the tool.

Import the data once only, and thereafter, keep both systems (APE and AMS) updated

i

manually.

Notice!

Notice!

Make sure that all personal data stored during the migration is handled according to GDPR conformity (applicable to EU citizens only).

3.2 Importing the data

Prerequisites:

- Have AMS (version 3.0 or later) installed.
- Have the APE data export files available.
- Have the latest version of the AMS Import Export Tool installed. It is found on the AMS installation media in the folder: \AddOns\Standard\ImportExport
 - Have a user with SDK rights configured in AMS.

í	Notice! Make sure that the user that will be importing the data has the user rights to use the AMS SDK, otherwise it is not possible to use the AMS Import Export Tool.
i	Notice! Import the data once only and keep both systems (APE and AMS) updated manually. For detailed information on how to manually configure the data in AMS, see chapter Creating and managing personnel data, <i>in the</i> AMS Configuration and Operation manual. The AMS Configuration and Operation manual can be found in the Help file of AMS, or in the Bosch Security Systems online product catalog, in the <u>AMS product page</u> , under Downloads > Literature.

- 1. Start the **AMS Import Export Tool**.
- 2. Enter your User Name and Password, and click Log in.

BOSCH		Log in
Besch		ACE Importer/Exporter
	Log in	
	Use ACE account to log in	
	ACE Authority APEWIN10TESTEN	
	User Name	
	Password	
	Log in	
© BOSCH Security Systems B.V. v(0.1.7436.38738	

3. Make sure that the log files are configured correctly (see *Configuring log files, page 16*).



Notice!

Create a template for every export file. You will end up with 3 templates: one for the ACEPersons.csv, one for the ACEVisitors.csv, and one for the ACEAuthorizations.csv.

4. In the **Import** section, click **+ New** to create a new template to configure the data structure.

Hello, Import Logout ACE Importer/Exporter								
Import Template List	+ New							
Type \Rightarrow Name \Rightarrow Created By \Rightarrow Created On \Rightarrow Modified By \Rightarrow Modified On \checkmark	Action							
AII ~ Q (1)								
No matching records found								

- 5. In the **Select Import Template Source** dialog box, select the source type **CSV** from the drop-down list.
- 6. Click Add.
- You are redirected to the **Create Import Template** area, **1 Basic Configuration**.

() BOSCH			Select Import 1	Select Import Template Source ×			Hello, Hyporte CE: Importent'E	xporte
👝 import 📩 Export 🖂 Schedul			Source Type CSV					
mport Terr	plate List			Cancel Ad	d			+ 104
5px 1	Name		wated By	Dreated Dn 1	Modified By		Modified Dr	Action
			Q.			$\mathbf{G}_{\mathbf{h}}$		
			No. match					

7. Under **Name**, enter a name for your import (e.g. APEDatalmportPerson).

				Hello, Import!	Logout
BOSCH				ACE Importer/I	Exporter
import ⊥ Export ⊟ Schedul	er 🔚 Agent				
Import > Create					
Create Import Template					
1	- 2				
Basic Configuration					
Name APEDataPersons	Upload sample file	<u>↑</u>	Type CSV		\sim
Separator Semicolon	Column names in first data re	ow	Enable	e automapping	
				Cancel	Next

8. Under **Upload sample file**, select one of the files that has been previously exported from APE 3.8 (e.g. ACEPersons.csv).



9. Select the **Enable automapping** selection box.

A POSCH		Hello, Import! Logout
BUSCH		ACE Importer/Exporter
import în Export 🛱 Schedu	ler 🔚 Agent	
Import > Create		
Create Import Template		
1	- 0	
Basic Configuration		
APEDataPersons	ACEPersons.csv	- CSV ~
Separator Semicolon	✓ Column names in first data row	Enable automapping
		Cancel Next

10. Under Additional data, select the import photo mode From Zip file from the drop-down list.

Name		Upload sample file		Type	
APEDataPersons		ACEPersons.csv	<u>↑</u>	CSV	\sim
Separator Semicolon	\checkmark	✓ Column names in first data ro	W	Enable automapping	
Skip rows:					
Advanced configuration					
Default Formatting:					
Date dd.MM.yyyy	\checkmark	Time HH:mm	\sim	Date/Time dd.MM.yyyy HH:mm	\sim
Decimal separator	\sim	Decimal places O			
Additional data:					
Import photo mode Full path	^				
Full path					
Relative path				Cancel	Next
From Zip file	1738				

11. Click Next.

- You are redirected to the Create Import Template area, 2 - Preview of sample data.

12. Check the sample data preview.

Create Import Template							
1		2					
Basic Config	uration	Preview of sample data	a				
Persons.Externalld 🖉	Persons.FIRSTNAME	Persons.LASTNAME	Persons.DATEOFBIRTH 2	Persons.Image 🧹	Pers		
1		001 Administrator		00000001.jpg			
2		002 Testperson1		00000002.jpg			
2		002 Testperson1		00000002.jpg			
2		002 Testperson1		00000002.jpg			
4		004 Test2					
5	Test4 Firstname	005 Test4					
5	Test4 Firstname	005 Test4					
5	Test4 Firstname	005 Test4					
Previous				Cancel	lext		

13. Click Next.

- You are redirected to the **Create Import Template** area, **3 Mapping**.
- 14. Select the **Add entities** selection box.



You are redirected to the ¹ Import section.

16. In the Import Template List, under Action, click on the import icon $\stackrel{\smile}{\rightharpoonup}$.

					Hello, Impor	t! Log
BOS	СН				ACE Importer	/Expor
년 Import	🕂 Export 🛱	Scheduler 🔚 Agent				
nport 1	Template List					
						+ Ne
Type 🔶	Name 🍦	Created By	Created On	Modified By	Modified On 🔻	Action
Ali 🗸	Q	Q	Ë	Q	Ë	
csv /	APEDataPersons	Import	25.05.2020	Import	25.05.2020	

17. In the **Immediate Import** dialog box, under **Choose file**, select the data file (e.g. ACEAuthorizations.csv) that you want to import.

0 805	сн	Immediate Import for AcePerso	ons	×	Board	Hells, H	soft Laport fee:Exporter
di, Impor	1 Depot 2 Schedule	Choose File ACEPersons.csv		1			
Import	Template List	Skip rows:					
		Choose photos archive		<u> </u>			
100	Name			Cancel Import		Modified Dr	Action
$M \sim 10^{-10}$	9	ď			Q.,		
	ACEMIN	import	15.06.2020	import		15.06.2020	4/8
	ACEAuthorization	import	15.06.2020	import		15.06.2020	山ノ吉
	ACEVINIUS	import.	15.06.2125	import.		15.06.2020	山18
	AcaPerson	Import	15.06.2020	import		15.06.2020	山ノ吉
Storing 1.5	- 4 of 4 men						
0 80804 5	ecurity Bysteens B.X. v0.1.7404.21080						

18. In the **Immediate Import** dialog box, under **Choose photo** archive, select the photo archive (e.g. Photos.zip) that you want to import.

i mport	CH 🗠 Export 🚍 Schedule Template List	Immediate Import for AcePerso Oncose File ACEPersons.csv Skip row: Choose photos archive Photos.zip	ins	× <u>↑</u> <u>↑</u>	Bosc	nan, s	ent Lapoter for Exporter
100	Name			Cancel Import		Modified Dr	Action
$M_{-} \sim$	9	9			Q.,		
	ACENTR	report	15.06.2020	report		15.06.2020	418
	ACEAuthorization	import	15.06.2120	import		15.06.2020	山ノ日
	ACEVERUS	Import	15.06.2020	Import		15.06.2020	山18
	AcoPersons	import	15.06.2020	Import		15.06.2020	山ノ日
Elements 1.1	0 4 <i>d</i> 7 4 mast.						

19. Click Import.

 You are automatically redirected to the Agent section and the import will start automatically.

						Hel	lo, Import!	Logout
BOSC	BOSCH ACE Importer/Exporter							
. ↓ Import	Export	Scheduler	= Agent					
Agent Ta	Agent Task List							
							G	0
Туре 🔶	Template name 🍦	Data Type 🍦	Executed By	Created On 🚽	Started On	Completed On 🍦	State 🔶	Action
All 🗸	Q	All 🗸	Q	Ē.	Ë	Ē	All 🗸	
Import	APEDataPersons	CSV	Import	25.05.2020 11:12	-	-	Pending	$\underline{\downarrow}$
Import APEDataPersons CSV Import 25.05.2020 11:12 - - Pending ↓ Showing 1 to 1 of 1 rows Showing 1 to 1 of 1 rows								



Notice!

Repeat steps 1 to 9 for ACEVisitors.csv and ACEAuthorizations.csv. For the ACEVisitors.csv file, the Photos.zip must be selected again.

Refer to

- Configuring log files, page 16

4 Configuring log files

- 1. Start the AMS Import Export Tool.
- 2. Enter your User Name and Password, and click Log in.
- 3. Click on the **Agent** section.
- The **Preferences** dialog box opens.

Ø	BOSCH Hello, Import! Lo					Logout xporter			
↓	Import	⊥ Export É	Scheduler	E Agent					
Ą	Agent Task List								
	Туре 🔅	Template name	Data Type 🍦	Executed By 👙	Created On 💡	Started On 🍦	Completed On 🍦	State 🔶	Action
	All \checkmark	Q	All 🗸	Q	Ē	Ē	Ē	All 🗸	
	Import	APEDataPersons	CSV	Import	25.05.2020 11:12	-	-	Pending	$\underline{\downarrow}$
Sho © E	Import APEDataPersons CSV Import 25.05.2020 11:12 - - Pending ↓ Showing 1 to 1 of 1 rows Showing 5 to 1 of 1 rows								

4. Under **Agent credentials**, enter the password.

Preferences	×	
Delste agent tasks older than X days 90		
Agent credentials]
User Name Import		
Password		
Custom import/export directories		
Enable custom import and export directories		
Server directory for import		
Server directory for export		
Logs configuration		
C Enable server logs		
Enable user logs		
	Cancel Save	

5. Select the selection boxes **Enable server logs** and **Enable user logs**.

Preferences		×
Delete agent tasks older than \boldsymbol{X} days 90		
Agent credentials		
Password 		
Custom import/export directories		
Enable custom import and export directories		
Server directory for export		
Logs configuration		
Enable server logs		
Enable user logs		
	Cancel	Save
	Cancer	Caro
Click Save .	Cancer	Garo
Click Save .	Cancer	x
Click Save. Preferences	Cancer	×
Click Save. Preferences Detete agent tasks older than X days 90 Agent credentials	Cancer	×
Click Save. Preferences Delete agent tasks older than X days 90 Agent credentials User Name Import	Cancer	×
Click Save. Preferences Detes agent tasks older than X days 90 Agent credentials User Name Import Passeord	Cancer	×
Click Save. Preferences Deter agent tasks older than X days 90 Agent credentials User Name Import Passeed Custom import/export directories		х
Click Save. Preferences Deteke agent tasks older than X days 30 Agent credentials User Name Import Passeed Custom Import/export directories Enable custom Import and export directories		х
Click Save. Preferences Meterstein stein		х
Click Save. Preferences Descent task soker than X days 30 Agent cacedentials Agent cacedentials Agenter Descent inport/export directories Cacedentials Agent Restored Target Same Same Same Same Same Same Same Same		×
Click Save. Preferences Deter spent tasks obter than X days 90 Agent credentials User Name Import Passeed Custom Import/export directories Enable custom import and export and export directories Enable custom import and export and export directories Enable custom import and export and e		×
Click Save. Preferences Deter agent tasks older than X days 90 Agent credentials User Name Import Passerd Oustom Import/export directories Server directory for report Server directory for report Custom configuration Custom configuratico Custom configuratico Cus		×
Click Save. Preferences Deter spert tasks older than X days 9 Agent credentials User Name Import Passeed Custom import/export directories Enable custom import and export directories Enable custom import and export directories Enable server for spect Custom custom import and export directories Enable server logs Custom custom import logs Custom custo		x
Click Save. Preferences Detere agent tasks older than X days 30 Agent credentials User Name Import Passeed Custom import/export directories Enable custom import and export directories Ever directory for inport Custom import/export directories Enable custom import and export directories Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable user logs Enable us		×

Refer to

- Importing the data, page 7

5

Detailed overview of the migrated data

ACEPersons.csv file

Data type	Description	Example
Persons.ExternalId	Reference ID created by the APE export tool	15
Persons.FIRSTNAME	First name of the person	Harry
Persons.LASTNAME	Last name of the person	Watkin
Persons.DATEOFBIRTH	Date of birth of the person	20.05.1995
Persons.IMAGE	Name of the JPEG file with the picture of the person	000002.jpg
Persons.AUTHFROM	Starting date to the validity of the person	01.04.2020
Persons.AUTHUNTIL	Ending date to the validity of the person	15.04.2020
Persons.REMARK	Additional remark	Next week scheduled for new badge.
Persons.VIP	Defines whether a person is included or excluded from random screening (true = person excluded; false = person included); to be considered, random screening must be configured	True
Persons.PERSNO	User specific reference number	12345
Persons.PIN	Personal Identification Number (PIN) used in combination with a physical credential to enforce greater security	001224
Companies.COMPANYNO	Name of the company*2	Bosch
Companies.NAME	Name of the company*2	Bosch
Authorizations.SHORTNAME	Name of the authorization given to the person* ³	MainEntrance
Authorizations.NAME	Name of the authorization given to the person* ³	MainEntrance
Authorizations.ValidFrom	Starting date to the validity of the authorization given to the person	19.02.2020

Data type	Description	Example
Authorizations.ValidUntil	Ending date to the validity of the authorization given to the person	23.02.2020
Cards.CARDNO	Part of the code data of the card that has been assigned to the person	6754821
Cards.Customercode	Part of the code data of the card that has been assigned to the person	9000

*¹ Verification PIN unencrypted; during the migration, PINs with 4 digits are converted to PINs with 6 digits by adding leading zeros to the 4 digit PIN (e.g. 001224).

*² Companies.COMPANYNO and Companies.NAME will always match. These data types are only differentiated on AMS, not on the APE system. You can update the data before starting the import, by editing the CSV file.

*³ Authorizations.SHORTNAME and Authorizations.NAME will always match. These data types are only differentiated on AMS, not on the APE system. You can update the data before starting the import, by editing the CSV file.

Notice!



On APE, the default length of a PIN is of 4 digits. On ACE, the default length of a PIN is of 6 digits. During the migration, PINs with 4 digits are converted to PINs with 6 digits by adding leading zeros to the 4 digit PIN (e.g. 001234).

After the migration, readers that are running on AMS will always expect the 6 digit PIN. The user can either enter the leading zeros, or enter # or E. These digits can signalize to the reader that the input is finalized.

Data type	Description	Example
Visitors.Externalld	Reference ID from the APE export tool	14
Visitors.FIRSTNAME	First name of the person	Sarah
Visitors.LASTNAME	Last name of the person	Watkin
Visitors.DATEOFBIRTH	Date of birth of the person	25.08.1994
Visitors.Image	Name of the JPEG file with the picture of the person	000160.jpg
Visitors.AUTHFROM	Starting date to the validity of the person	02.04.2020
Visitors.AUTHUNTIL	Ending date to the validity of the person	16.04.2020
Visitors.REMARKS	Additional remark	Next week scheduled for new badge.
Companies.COMPANYNO	Name of the company*2	Bosch
Companies.NAME	Name of the company*2	Bosch
Authorizations.SHORTNAME	Name of the authorization given to the person* ³	MainEntrance
Authorizations.NAME	Name of the authorization given to the person* ³	MainEntrance
Authorizations.ValidFrom	Starting date to the validity of the authorization given to the person	20.02.2020
Authorizations.ValidUntil	Ending date to the validity of the authorization given to the person	24.02.2020
Cards.CARDNO	Part of the code data of the card that has been assigned to the person	765532
Cards.Customercode	Part of the code data of the card that has been assigned to the person	9001

ACEVisitors.csv file

*² Companies.COMPANYNO and Companies.NAME will always match. These data types are only differentiated on AMS, not on the APE system. You can update the data before starting the import, by editing the CSV file.

*³ Authorizations.SHORTNAME and Authorizations.NAME will always match. These data types are only differentiated on AMS, not on the APE system. You can update the data before starting the import, by editing the CSV file.

ACEAuthorizations.csv file

Permissions that have not been assigned to anyone will be found in this file. Authorizations.SHORTNAME and Authorizations.NAME will always match. These data types are only differentiated on AMS, not on the APE system. You can update the data before starting the import, by editing the CSV file.

Data type	Description	Example
Authorizations.SHORTNAME	Name of the authorization given to the individual	MainEntrance
Authorizations.NAME	Name of the authorization given to the individual	MainEntrance

6 Restrictions

Data fields that are not migrated

Data field in APE	Description	Data field in AMS*4
Title	Job of a person, or a word used before the name to indicate the status of a person	Title
Memo	Additional note about the person	Remarks
Phone	Phone number of the person	Phone
External cardno	External card number given by the person	Does not exist in AMS.
Version	Administrative version of the card number	Version
Identification PIN	Personal Identification Number (PIN) that is the sole credential required for access	Identification PIN
Arming PIN	Personal Identification Number (PIN) that is used to arm an entrance	Arming PIN
Blocked persons	Person or list of persons who are blocked from an entrance	Blocking

*4 Dialog path: Main menu > Personnel data > <sub-dialogs>

Notice!

For detailed information on how to manually configure the data in AMS, see chapter **Creating** and managing personnel data, *in the* **AMS Configuration** and **Operation** manual.

The **AMS Configuration and Operation** manual can be found in the Help file of AMS, or in the Bosch Security Systems online product catalog, in the <u>AMS product page</u>, under **Downloads** > **Literature**.

Other restrictions

- Cards to activate threat alert are imported as standard cards and will get the authorizations given to the cardholder.
- The migration of VIP flags works as follows:
 - Persclass must contain VIP
 - During the migration, the ExcludeFromRandomAccess flag will be set in AMS
 - Other VIP features will not be migrated. The chosen name with VIP is not relevant.
- Time models assigned to a person will not be migrated.
 - (Create a new list and assign the time models manually on AMS.)
- Company names longer than 50 characters will not be migrated, i.e. the company name will be skipped.

- On the **Company** field with CR (carriage return), data until carriage return will be migrated (maximum of 50 characters).
- Persons.AUTHUNTIL will be changed from Date only format (e.g. 31.12.2020) to Date+Time format (e.g. 31.12.2020 00:00). Time is set to 00:00 by default. This means, the validity of the person will end at the beginning of the day.
- APE has two default personnel classes: "Employee" and "Visitor". It is possible to create new, customized personnel classes (e.g. "VIPEmployee" or "Foreign worker") in APE.
 During the migration, only default personnel classes are assigned. New, customized personnel classes from APE are either mapped to personnel class "Employee" or to personnel class "Visitor" during the migration.

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