

Data migration from APE to AMS

en Operation manual

Table of contents

1	Overview	4
2	Migration support tools	5
3	Migrating the data	6
3.1	Exporting the data	6
3.2	Importing the data	7
4	Configuring log files	16
5	Detailed overview of the migrated data	18
6	Restrictions	22

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).

2 Migration support tools

The data migration from APE to AMS is supported by these tools:

1. APE migration.exe - Tool that exports APE data and creates the necessary output files for a successful data migration.

Output files:

- ACEAuthorizations.csv
- ACEPersons.csv
- ACEVisitors.csv
- Photos.zip
- 2. ImportExportTool.zip IMPEX web application tool that imports APE data into the AMS. The file includes both tools and a version number (e.g. AMS20_Software_AMS_ImporterExporter_Installer_v0.1.7215.30352_all_733737 77675.zip).

Notice!

The support tools can be found in the Bosch Security Systems online product catalog, in the <u>AMS product page</u>, under **Downloads** > **Software** > **Software** (**Importer-Exporter**).

Notice!

Although these tools support the migration, they do not provide a migration of all data. Only personnel data is migrated.

Authorizations used in APE are migrated with information on the validity period. This means, 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, entrances that belong to these authorizations must be reassigned. This means, first, the hardware structure must be created (server, MAC, AMC, reader), and then, the entrances must be created and assigned to the authorizations manually.

3 Migrating the data3.1 Exporting the data

Prerequisites:

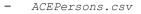
- APE is installed.
- The APE SDK is installed from the same installation media as the APE version that you have installed. This is to ensure that the versions of APE and its SDK are compatible.
- The following folder is copied from the AMS installation media to the computer where APE is running.\AddOns\Standard\ImportExport\APE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

Access Professional Edition m	igration tool (version 1.0.0.0) $ imes$
	BOSCH
User name:	
User password:	
	Login

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

Access Professional Edition migration tool (version	on 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:



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



Notice!

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

廲 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. 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.

í

Notice!

Import the data once only and keep both system (APE and AMS) updated manually.

Notice!

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

All the data must be deleted within the regulation period.

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.
- 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.
í	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.

BOSCI	4				Hello, Import! Logou
				AC	CE Importer/Exporte
, Import	⊥ Export 🛱 So	heduler 🔚 Agent			
Import Te	mplate List				
					+ New
Туре 🔶	Name 🔶	Created By	Created On	Modified By	Modified On 🚽 Action
All 🗸	Q	Q	Ë	٩	Ë
		No matchi	ng records found		

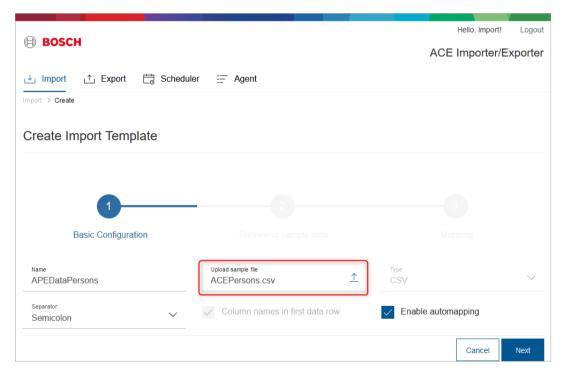
- 5. In the **Select Import Template Source** dialog box, select the source type **CSV** from the drop-down list.
- 6. Click Add.
- You are redirected to the **Create Import Template** area, **1 Basic Configuration**.

	() BOSCH			Template Source	×	AC	Hello, Hyporte CE: Emporten/E	ungen Aporter
	L Expert 🖸	Schedule	Source Type CSV		~			
Import Terr	plate List			Cancel Ad	d			+ 104
100	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).

Deceu				Hello, Import	! Logout
BOSCH				ACE Importer/	Exporter
Jupport ⊥ 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.

BOSCH		Hello, Import! Logout
BUSCH		ACE Importer/Exporter
import în Export ⊟ Schedu	ler 🔚 Agent	
Import > Create		
Create Import Template		
1	2	
Basic Configuration		
		_
Name APEDataPersons	Upload sample file ACEPersons.csv	Type 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		Туре	
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.

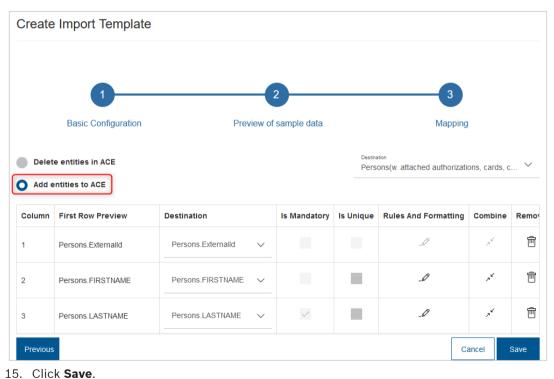
- You are redirected to the Create Import Template area, 2 - Preview of sample data.

12. Check the sample data preview.

1		2			
Basic Config	juration	Preview of sample data	a		
Persons.Externalid 🖉	Persons.FIRSTNAME	Persons.LASTNAME 🗸	Persons.DATEOFBIRTH	Persons.Image 🧹	Per
		001 Administrator		00000001.jpg	
2		002 Testperson1		00000002.jpg	
2		002 Testperson1		00000002.jpg	
2		002 Testperson1		00000002.jpg	
1		004 Test2			
5	Test4 Firstname	005 Test4			
5	Test4 Firstname	005 Test4			
5	Test4 Firstname	005 Test4			

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 $\stackrel{\smile}{\rightharpoonup}$.

mport	Template List					
mport						
						+ Ne
Туре 🔅	Name 🔶	Created By	Created On	Modified By	Modified On 🚽	Action
All \checkmark	Q	Q	Ē	Q	Ē	
CSV	APEDataPersons	Import	25.05.2020	Import	25.05.2020	
howing 1	to 1 of 1 rows					

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

nport 7	Li Dipot 📋 Schedale	Chose File ACEPERSONS.CSV Bilp rows: Chose photos archive		1 1 1		h Access Impo	
. 10	Name			Cancel Import		Modified Co	Action
n	9	9			$\Omega_{\rm h}$		
	ACEMap	report	15.06.2020	import		15.06.2020	4/8
	ACEAdhoripation	aquet	15.06.2125	import		15.06.2020	山/日
	ACEVIDADA	argost.	15.06.2020	Import		15.06.2020	山/日
	AcoPersons	import	15.06.2020	import		15.06.2020	418
	AcaPersons 6 of 8 room	Input	15.06.2020	Input		15.04.2020	518

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

mport	t ≟ Export 🖾 Schedule Template List	Choose File ACEPersons.csv Skip rows: Choose photos archive Photos.2p		<u>↑</u>		h Access Impo	
100	Name			Cancel Import		Modified Dr	Action
	9	9			9		
	ACENIQ	report	15.06.2020	import		15.06.2020	218
	ACEAuthorization	input	15.06.2120	import		15.06.2125	218
	ACEVIMON	Import	15.06.2020	Import		15.06.2121	418
	AcoPersons	import	15.06.2525	import		15.06.2020	218

19. Click Import.

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

–									
la	sk List		gent Task List						
							G	Ó	
								¹	
\$	Template name 🍦	Data Type	Executed By 🔶	Created On 🚽	Started On 🔶	Completed On	State 🔶	Actio	
\sim	Q	Ali 🗸	Q	Ë	Ë	Ë	All \checkmark		
rt	APEDataPersons	CSV	Import	25.05.2020 11:12	-	-	Pending	\downarrow	
	∼ t	~ 9	 ✓ ✓	All All APEDataPersons CSV Import	✓ Q All ✓ Q ⊟ t APEDataPersons CSV Import 25.05.2020 11:12	✓ Q All ✓ Q III t APEDataPersons CSV Import 25.05.2020 11:12 -	AII AII Solution Column A Colum	AII AII State CSV Import 25.05.2020 11:12 - - Pending	



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! Logou					Logout xporter			
↓	⊥ Import ⊥ Export ⊟ Scheduler ≔ Agent								
Ą	Agent Task List								Ø
	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	$\underline{\downarrow}$
	owing 1 to 1	of 1 rows urity Systems B.V. vC).1.7436.38738						

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
	Cancer	
Preferences	Cancer	
Preferences Delete agent tasks older than X days 90	Cancer	
Preferences Detes agent tasks older than X days 90 Agent credentials User Name	Cancer	
Preferences Detes agent tasks older than X days 90 Agent credentials User Name Import Password		
Preferences Deter agent tasks older than X days 90 Agent credentials User Name Import Password		
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Preferences Deter spart tasks older than X days 30 Agent credentials User Name Import Passerd Custom Import/export directories Custom Import/export directories Enable custom import and export directories Ever directory for import Ever directory for import		
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Preferences Deter agent tasks older than X days 90 Agent credentials User Name Import Passed Oustom Import/export directories Enable custom import and export directories Enable custom import Server directory for import Eucos configuration Custom C	Cancel	

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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