

Fro B	om Our Reference Tel Γ-ΑΙ/ΡΑΑ	2020-10
Be	osch Access Importer/Exporter Installation and User Guide	
Ab	This document describes the installation and operation of the Bosch Access Importer/Exporter tool for cardholder data.	
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1 Overview

The **Bosch Access Importer/Exporter**, hereafter referred to by the abbreviation IMPEX, is a standalone software tool to facilitate the bulk import and export of cardholder data to and from the cardholder database of the Bosch Access Management system.

- The import process adds, deletes or modifies cardholder data.
- The **export** process writes specific cardholder data from the database to a CSV file. An export template file specifies which data are exported, and how they are formatted.

IMPEX handles LDAP data and data from customizable CSV files.

IMPEX is installed on a computer with a network connection to the cardholder database of the access control system. You can operate IMPEX via a secure HTTPS web client from any authenticated computers and browsers on the same network.

1.1 Terminology

AMS/Access Management system: the Bosch access control system to which the cardholder database belongs

Login server: the computer where the access control system (e.g. AMS or BIS-ACE) is installed

Database server: the computer where the cardholder database is installed, typically but not necessarily the Login server.

IMPEX server: the computer where IMPEX is installed

IMPEX client: a computer where IMPEX is operated via a secure web connection



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LDAP: (Lightweight Directory Access Protocol) an open protocol for sharing and maintaining user data.

CSV: (Comma-separated values) a file extension denoting a text file which contains tabular data. The data records are separated by new lines, and the attribute fields are separated by a designated character, typically a comma or semicolon. **Cardholder**: a personnel record that is managed by the access control system, irrespective of whether their credentials are cards, key fobs, PINs or biometric. **Old Import/Export tool**: A tool available in the BIS Configuration Browser **Tools** > **ACE Configuration import/export** > **Configuration import/export**

2 Updating the application

Note: If you have reinstalled over an older version without following the steps in this section, then you may find that no HTTPS certificate was created and secure connection no longer works. To remedy this, follow the steps described in section <u>There is no Certificate file on IMPEX server</u>.

2.1 Prerequisite software

• **IMPEX** is installed on the IMPEX server. If not, proceed to section 3 Installation

2.2 Preliminary steps

- 1. Log on to the IMPEX web UI application.
- 2. Make sure there are no Scheduler Templates in Active state.

schedui	er Template List						+ N6
Type 🔶	Template Name	Data Type 🛛 👙	Last Started 🔶	Last Completed	Next Start 👙	Active 🔶	Action
All \checkmark	Q	Ali 🗸	Ħ	Ē	Ë	Ali 🗸	
Export	IDs_of_ent	CSV	21.10.2019 11:36	21.10.2019 11:40	-		0 🖉 🖻
Export	auths	CSV	21.10.2019 11:34	21.10.2019 11:38	-	-	0 🖉 🖻
Export	cards	CSV	21.10.2019 11:33	21.10.2019 11:37	÷	-	0 🖉 🖻
Import	Idapss	LDAP	21.10.2019 11:33	21.10.2019 11:37	-	-	0 🖉 🖻
Import	Idap8	LDAP	21.10.2019 11:34	21.10.2019 11:38	-		0 🖉 🖻
Import	companiesAll	CSV	21.10.2019 11:32	21.10.2019 11:36	-	-	1 🛛 🖉 🖻
Import	personsAll	CSV	21.10.2019 11:35	21.10.2019 11:39	-		1 🛛 🎤 🖻
Import	delete_personsAll	CSV	21.10.2019 11:31	21.10.2019 11:36	-	-	1 ⊘ ⊿ 🖻
Import	CompPersCardsAuth	CSV	30.09.2019 18:36	30.09.2019 18:36	-		1 🛛 🖉 🖻

3. Make sure there are no import/export tasks in 'Pending' or in 'In Progress' state.



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٩ge	ent Tas	sk List								
										٢
	Туре 🔅	Template Name	¢	Data Type 🕴	Executed By	Created On 🚽	Started On 🕴	Completed On	State (Action
	All \checkmark		Q	All 🗸	9	Ë	Ë	Ë	Ali 🗸	
	Import	ldap8		LDAP	Scheduler	25.10.2019 14:59	25.10.2019 14:59	-	In progress	
	Import	Idaps		LDAP	Scheduler	25.10.2019 14:59	25.10.2019 14:59		In progress	
	Export	cards		CSV	Scheduler	25.10.2019 14:59	25.10.2019 14:59		In progress	
	Import	Idapss		LDAP	Scheduler	25.10.2019 14:59	25.10.2019 14:59		In progress	
÷	Export	auths		CSV	Scheduler	25.10.2019 14:59	25.10.2019 14:59	25.10.2019 14:59	Succeeded	⊻ ඬ
+	Import	ldap8		LDAP	Scheduler	25.10.2019 14:58	25.10.2019 14:58	25.10.2019 14:58	Failed	Ð
۲	Export	IDs_of_ent		CSV	Scheduler	25.10.2019 14:58	25.10.2019 14:58	25.10.2019 14:59	Succeeded	⊻ ඬ
+	Export	cards		CSV	Scheduler	25.10.2019 14:57	25.10.2019 14:57	25.10.2019 14:58	Succeeded	± @
+	Import	Idapss		LDAP	Scheduler		25.10.2019 14:57		Failed	Ð
	Export	auths		CSV	Scheduler	25 10 2010 14-57	25.10.2019 14:57	25 10 2010 14:59	Succeeded	⊻ ඬ

2.3 Updating IMPEX to a newer version

- 1. Go to Control Panel > All Control Panel Items > Programs and Features
- 2. Choose 'AMS ImportExport' in the list and check the version of the product

Programs and Features					- 0	>
← → × ↑ 🖬 > Control I	anel > Programs > Programs and Features		~ (5 Search Pr	ograms and Feature	s ,¢
Control Panel Home	Uninstall or change a program					
View installed updates	To uninstall a program, select it from the list and then	click Uninstall, Change, or Repair.				
Turn Windows features on or off	Organize 🕶 Uninstall Repair					
	Name	Publisher	Installed On	Size	Version	
	Haccess Management System - Server	Bosch Sicherheitssysteme GmbH	10/22/2019	1.45 GB	4 6 0013.0	
	AMS ImportExport	Bosch Sicherheitssysteme	10/23/2019	128 MB	1.0.4.0	
	Browser for SQL Server 2017	iviicrosott Corporation	10/22/2019	LLO MB	14.011000.109	
	Microsoft ODBC Driver 13 for SQL Server	Microsoft Corporation	10/22/2019	8.50 MB	14.0.1000.169	
	Microsoft SQL Server 2012 Native Client	Microsoft Corporation	10/22/2019	9.71 MB	11.3.6540.0	
	Microsoft SQL Server 2017 (64-bit)	Microsoft Corporation	10/22/2019			
	Microsoft SQL Server 2017 Setup (English)	Microsoft Corporation	10/22/2019	42.1 MB	14.0.1000.169	
	Microsoft SQL Server 2017 T-SQL Language Service	Microsoft Corporation	10/22/2019	7.92 MB	14.0.1000.169	
	Microsoft Visual C++ 2010 x86 Redistributable - 10.0	Microsoft Corporation	10/22/2019	11.1 MB	10.0.40219	
	Hicrosoft Visual C++ 2015 Redistributable (x64) - 14.0	Microsoft Corporation	10/22/2019	22.5 MB	14.0.23506.0	
	Microsoft Visual C++ 2017 Redistributable (x86) - 14.1	Microsoft Corporation	10/22/2019	20.0 MB	14.15.26706.0	
	Microsoft VSS Writer for SQL Server 2017	Microsoft Corporation	10/22/2019	3.17 MB	14.0.1000.169	

- 3. If **Version=**1.0.4.0 then click **Uninstall**, otherwise proceed with step 5
- Uninstall starts
- 4. Wait until uninstall finishes
- Uninstall finished
- 5. If **Version** is not 1.0.4.0, proceed to the <u>Installation</u> section.

2.4 Post-update steps

After updating from 1.0.4.0 version to 1.0.5.0 or higher, follow the instructions in this section to update the credentials in every LDAP Import Template, and verify that IMPEX uses the correct credentials in the **Preferences** pop-up.



ΡΑΑ		nce		T	el	
Credential Go to the Imp	-	•				
Find all Import Open each ter				entials	s for the LDAP serve	er
Basic	1 Configuration	_				
Name Idap		Type Ldap		~		
Configuration: Server 10.33.14.101		Port 10389	Protocol version V3	~	Authentication type BBSiC	~
Login USER Default Formatting:		Password ••••			Use SSL (Secure Socket Layer)	
Date dd.MM.yy	~	Time HH:mm		~	Date/Time dd.MM.yy HH:mm	~
Decimal separator	~	Decimal places 0				
	lates					
Go to the Age Make sure tha	e nt tab and c at the correct sks				• Preferences ntered to perform im	port ×
and export tas	e nt tab and c at the correct sks	Agent				
Go to the Age Make sure tha and export tas Preferent	ent tab and c at the correct sks ces	Agent				

2.4.2 Updating the certificates

After installing a new version a new IMPEX certificate is created. Copy it to the client working stations as described in the section <u>Importing the HTTPS certificate for</u> <u>IMPEX clients and browsers</u>



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3 Installation

3.1 Prerequisite software

- SQL Server 2014 Express edition or higher on the IMPEX server
- .NET Framework 3.5 on the IMPEX server

3.2 Preliminary steps

- 1. Log on to the IMPEX server.
- 2. Copy the installation package to the IMPEX server.

3.3 Installing IMPEX on the IMPEX server

- In the installation package, right-click
 ImportExportInstaller_x.x.x.exe, where each x represents any
 digit in the version number, and select Run as administrator.
 - The installation preparation wizard opens. Follow the installation
 preparation wizard.
- 2. Read and accept the terms in License Agreement and click **Next>**
- 3. Enter the SQL Database Server configuration data:
 - Choose whether to use local or remote SQL Server
 - **SQL Server**: The host name of the access control system's database server. If remote was chosen than please follow steps described in <u>Setting up a remote SQL server database for IMPEX</u> before proceed.
 - **SQL instance**: The SQL instance name. The default instance name is ACE
 - **SQL user name**: The name of the SQL user that will be used to access the database. This user must have administrative rights. The default SQL user name is sa
 - SQL password: The database password for the chosen SQL user name
 - 'ImportExportUser' user password the password defined during the user creation on remote SQL Server
- 4. Click Next>
- 5. Enter the Administrator password and confirm if prompted.
- 6. If a dialog window appears listing Files in Use
 - 1. Choose Close the application and attempt to restart them
 - 2. Click OK
- 7. Click **OK** if warned that setup was unable to automatically close all requested applications.
- 8. Observe the installation progress bar.
 - You will be notified if the installation program needs to enable IIS.
- 9. Click Finish

If the installation fails, see section 13.4 An error occurred while processing your request. for possible causes.

10. If you began this installation by uninstalling version 1.0.4.0, proceed with <u>Post-update steps</u>



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3.4 Setting up a remote SQL server database for IMPEX

IMPORTANT: In order for IMPEX to use remote database, make sure that the SQL server has the same Windows user for database administration, with the same name/password, BEFORE running the IMPEX setup on the IMPEX server.

On the remote database server:

- 1. Create the user "ImportExportUser" with the following settings
 - Username (case sensitive): "ImportExportUser"
 - Password: Set the password according to your policies, and note it carefully as it will be required for the IMPEX setup on the IMPEX server.
 - Member of group: Administrators
 - User must change password at next logon: NO
 User cannot change password: YES
 Password never expires: YES
 Logon as a service: YES
 - Account is disabled:
- If a firewall is installed, deactivate it now.
 The firewall can be restarted after a successful installation. Refer to the document "BIS Firewall Configuration.pdf".
- Ensure that network protocols "Named Pipes" and "TCP/IP" are enabled for the SQL Server. (Refer to the section Installing and publishing SQL server databases on database servers in the BIS Installation Guide.)
- 4. Start the SQL Server Browser service, if it has not been started automatically.

3.5 Importing the HTTPS certificate for IMPEX clients and browsers

The installation program creates a self-signed certificate and installs it on the IMPEX server. It is not necessary to import the certificate to the IMPEX server, unless you are using Firefox. If you are using Firefox, proceed to 3.4.2 Importing an HTTPS certificate to the Firefox browser.

To run IMPEX via HTTPS from a computer other than the IMPEX server (i.e. from an IMPEX client) copy a certificate from the server to the IMPEX client and install it there, as described below:

3.5.1 Installing the HTTPS certificate on an IMPEX client

1. On the IMPEX server find the certificate



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            a. AMS
                C:\Program Files (x86) \Bosch Sicherheitssysteme \
                ImportExportACEWS\ACEImportExport CA.cer
            b. BIS:
                Start > Manage Computer Certificates > trusted root
                certification authorities > Certificates, right click
                BisSelfSignedCERF, All tasks > Export
    And copy it to the intended IMPEX client computer.
    3. From an account with access to administrator rights on the IMPEX client,
    double-click the certificate.
       - A certificate dialog box appears.
    4. Click Install Certificate...
       - The Certificate Import Wizard opens.
    5. Select Local Machine (recommended) and click Next
    6. Select Place all certificates in the following store to specify a location for
    the certificate (recommended).
    7. Click Browse...

    A dialog box opens to browse the certificate store.

    8. Select Trusted Root Certification Authorities (recommended)
    and click OK.
       - You return to the Certificate Import Wizard.
    9. Click Next
    10. Click Finish to import the certificate.
3.5.2 Importing an HTTPS certificate to the Firefox browser
Skip this section if you are not using the Firefox browser.
In principle, you can use any browser on the IMPEX client: Chrome reads the
certificate from the operating system, but Firefox and others may require you to import
the certificate separately into the browser. Use the following procedure for Firefox.
    On the IMPEX server locate the certificate
        AMS:
        C:\Program Files (x86)\Bosch Sicherheitssysteme\
        ImportExportACEWS\ACEImportExport CA.cer
        BIS:
        Start > Manage Computer Certificates > trusted root certification
        authorities > Certificates, right click BisSelfSignedCERF, All tasks >
        Export
    If you are going to use Firefox on the server, treat the server as a client in
    performing the following steps:
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4 Logon and authentication

In order to browse and manipulate the cardholder database, IMPEX must log on with an operator name that has sufficient rights. In particular:

- User profile: UP-Administrator
- API usage: unlimited

If such an operator is already defined in the access control system, you may skip the next section.

If no such user exists, or if you wish to operate IMPEX only through a dedicated operator name, follow the next section to create the operator and assign those rights.

4.1 Creating and enabling an IMPEX user

If no such user exists, or if you wish to operate IMPEX only through a dedicated user, create the operator in the access control system and assign those rights.

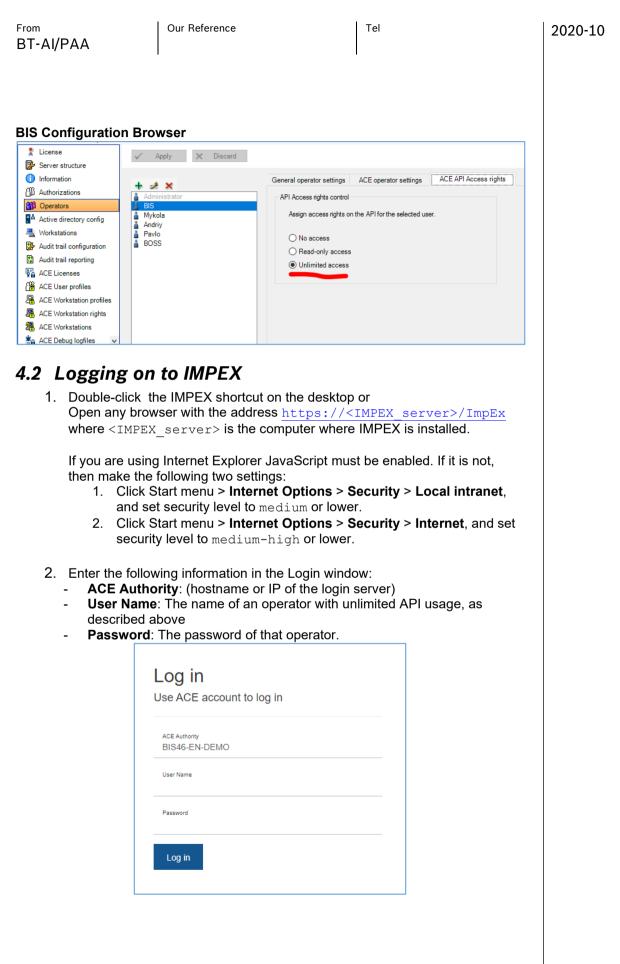
- Dialog path (AMS): Main menu > Configuration > Operators and workstations > User rights
- Dialog path (BIS): Configuration Manager > Administration > Operators > tabs: ACE operator settings and ACE API Access rights

After creating the operator, save the configuration and reboot the login server of the access control system.

AMS

Access Management Syste File Edit Data Help	en: User rights [Administrator] (Demo mode expires: 10/08/2019 04:39:53 PM) -	ð ×
« Configuration	Last name: ImpExp First name:	
L User rights	Birth name: Personnel no.: Date of birth:	
User profiles	Employee ID: Employee v Gender: v	
Workstation rights	Conpany: Title: Title: Car license no.:	
Workstation profiles	User account User profiles Divisions	
	User name: ImpExp Change password Valid from:	
	Global administrator API usage: Unlimited	







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    Templates for import and export
5
Templates are named files, created by the IMPEX user, that contain mappings
between the fields of the cardholder database and the fields of the CSV file.
IMPEX can retrieve, add, modify and delete only those fields that are specified in a
template.
After logon the first screen shown in IMPEX is Import Template List.
If the list is empty, create an import template as described in the next subsection.
5.1 Creating an import template for a CSV data source
        Select Import
     1.
               The Import Template List dialog appears
    2.
        Click the +New button
                                                                           Hello, BISI
                                                                                 Logout
 BOSCH
                                                                Bosch Access Importer/Exporter
 ↓ Import
       🗅 Export 🛗 Scheduler 듣 Agent
Import Template List
 Туре

    Created On
                                                                      Modified On
                                                                               Action
               Name
                                  Created By
                                                          Modified By
 All 🗸
                           Q
                                           Q
                                                   Ë
                                                                   Q
                                                                           Ë
    4.
       In the pop-up select Csv as Source Type and click the Add button
                The Create Import Template dialog is displayed.
    5. Enter or select values for the following fields. (*) means the field is mandatory:
               (*) Name: A unique name for the template
                (*) Upload sample file:
                Separator: the character that is used to demarcate data fields
                Column names in first data row: If the check box is selected, the
                first row in the table is interpreted as column names.
                Enable automapping: make this option active and if input file
                contains headers in format EntityName.PropertyName. then IMPEX will
                try to map columns automatically.
                Default Date, Time and Date/time formats
                Decimal separator: the period or the comma character, used to
                separate units from tenths.
                Decimal places: the number of decimal places to be imported.
                Import Photo mode: Defines the mode on how IMPEX will handle
                Image property, see Import of images
```



						20
Create Import Ten	nplate					
Bas	sic Configuration	F				
Name		Upload sample file		•	Туре	
Name is required		The Upload sample f	ile is required	<u> </u>	CSV	
Separator			nes in first data	row	Enable automapping	
Semicolon Skip rows:	`	_				
Advanced configuration Default Formatting:	on					
Date dd.MM.yyyy	~	™e HH:mm		\checkmark	Date/Time dd.MM.yy HH:mm	~
Decimal separator		Decimal places				
	~	0				
Additional data:						
Full path	\checkmark					
						Cancel Next
	.4					Cancel Next
	The second p				nplate wizard ap	
- T v	The second p vith a preview	/ of the sar	nple da	ita.		opears,
ד - v ا -	The second p vith a preview f you selected	/ of the sar d Column	nple da names	in first data	a row on page 1	opears, , then the
- T v - I f	The second p vith a preview f you selected irst row of inp	v of the sar d Column out file will b	nple da names pe displ	ita. in first data layed as a h		opears, , then the d font.
- T V - Ii fi - T	The second p with a preview f you selected irst row of inp The preview of nput file chos	y of the sar d Column but file will b contains the en on page	nple da names pe displ e first 1 e 1.	ita. in first data layed as a h 0 rows plus	a row on page 1 eader row in bol the header from	opears, , then the d font. sample
- 7 v - 1: fi - 7 ii - 7	The second p vith a preview f you selected irst row of inp The preview c nput file chos The data is di	y of the sar d Column but file will b contains the en on page vided into o	nple da names pe displ e first 1 e 1. columns	ita. in first data layed as a h 0 rows plus	a row on page 1 eader row in bol	opears, , then the d font. sample
- T v - I: fi - T ii - T t	The second p with a preview f you selected irst row of inp The preview of nput file chos The data is di hat you chose	y of the sar d Column but file will b contains the en on page vided into o	nple da names pe displ e first 1 e 1. columns	ita. in first data layed as a h 0 rows plus	a row on page 1 eader row in bol the header from	opears, , then the d font. sample
- 7 v - 1: fi - 7 ii - 7	The second p with a preview f you selected irst row of inp The preview of nput file chos The data is di hat you chose	y of the sar d Column but file will b contains the en on page vided into o	nple da names pe displ e first 1 e 1. columns	ita. in first data layed as a h 0 rows plus	a row on page 1 eader row in bol the header from	opears, , then the d font. sample
- T v - I: fi - T ii - T t	The second p with a preview f you selected irst row of inp The preview of nput file chos The data is di hat you chose	y of the sar d Column but file will b contains the en on page vided into o	nple da names pe displ e first 1 e 1. columns	i n first data ayed as a h 0 rows plus	a row on page 1 eader row in bol the header from	opears, , then the d font. sample
- T v - I: fi - T ii - T t	The second p with a preview f you selected irst row of inp The preview of nput file chos The data is di hat you chose	y of the sar d Column but file will b contains the en on page vided into o	nple da names pe displ e first 1 e 1. columns	i n first data ayed as a h 0 rows plus	a row on page 1 eader row in bol the header from	opears, , then the d font. sample
- T v - I i - T i t Create Import Te	The second p vith a preview f you selected irst row of inp The preview of nput file chos The data is dir hat you chose emplate	y of the sar d Column but file will b contains the en on page vided into o	nple da names pe disple first 1 e 1. column: 1.	ita. in first data layed as a h 0 rows plus s according	a row on page 1 eader row in bol the header from	opears, , then the d font. sample
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Destination	(Select from list) The field in the database record into
(first column in	which the value will be written
table, not the	
Destination from	
the previous step)	
Туре	(Select from list)The data type of the destination field
Is mandatory	(Check box) Select if the database record would be
	invalid without a value in this field.
ls unique	(Check box) Select if the value in this field is unique
	to the database record.
	See the following subsections for details.
Datetime format	(Select from list) The datetime format of the
	destination field, e.g. dd/MM/yyyy HH:MM
	See the following subsections for details.
Rules	(Click the edit icon to start a selection dialog) One or
	more text transformations that will be applied to the
	value before it is written to the database.
	See the following subsections for details.
The Reset button at	the end of each row instantly deletes all the metadata
for that row.	

11. When the mappings are complete, click **Save** to save the import template. - The Import Template List is displayed, including a new row for the

template you have just created.

5.1.1 Unique identifier option mechanism

If you select one of the following in the **Destination** drop-down list:

- Persons(w. attached authorizations, cards, companies)
- Visitors(w. attached authorizations, cards, companies)

and the import file contains property fields for more than one entity type (Persons, Visitors, Companies, Authorizations, or Cards) then each entity type requires at least one of its fields to be unique. Since version 1.0.5.0 only Persons/Visitors require unique keys to be defined. For Cards, Companies and Authorizations unique keys are set automatically.

The import process then groups the rows in the CSV import file by this unique field value. That is, all lines in the import file that have the same value in the unique field will be treated as belonging to the same database entry. If multiple lines in the import file refer to the same field in a unique entity, then the last line "wins", that is, its field value will supersede that of the earlier lines.



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There are three methods for defining a field as unique:

- A) If an entity type, such as Persons or Visitors, has a naturally unique field, such as an ID number, in the database, then select the Is unique check box in the mapping. An example is Persons.PERSNO
- B) If an entity type, such as Persons, does not have a naturally unique field in the database, then you can define a dummy field called, for example ext in the import template, and give it a Destination of ExternalID, for example Persons.ExternalID.
 The import process will then treat all the Person lines in the import file that

have the same value in the column ext as belonging to the same Person. In this case do **not** select the **Is unique** check box.

IMPORTANT: If you have used the **Old Import/Export tool** with key field(s) not mapped to any of the properties, and you create a template using same data input, this will cause duplication of data in the BIS or AMS system. Similarly, if the BIS or AMS system already has data inserted somehow with ExernalID (without using ImpEx) and you will try to do update of such a data, ImpEx will create new entries in the system, because these ExternalIDs are new for it.

C) Use Persons.PERSID for Persons or Visitors.VISID. The internal database identifiers of the entities. Please note that only update is available with this option, and if the input value is empty import will fail with an error.

IMPORTANT: Do not mix the methods A, B and C within the same entity type.

5.1.2 Import of images

To do import of the Person's or Visitor's photos a column which contains a path to image file or image file name should be mapped to special property 'Image' There are 3 options available to import images (drop-down on 1st step of Import Template):

- 1. Full path input file should contain value with full path to the image file located on the IMPEX server
- Relative path input file should contain value with image file name with extension. User should provide a path to folder with images located on the IMPEX server
- 3. From Zip file input file should contain value with image file name with extension. User should upload a ZIP archive with images on immediate or scheduled import.

Note: Image files should not be bigger than 500Mb.

5.1.3 Setting a datetime format for a mapping

- 1. Click the Edit icon in the Rules And Formatting column
- 2. Select a datetime format from the list



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	3.	Click Save The Preview reflects the	Split configuration		
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After y			, the selected values from in	put file will be	
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	nterval based Calendar based					
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	ates of the mor ote : If a choser				ot occur in the	,
	' Save ' button to	scheduler acti			in the month.	



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7.2 Ed	itina ovn							

- In addition: -

 - Added mappings are highlighted in green.
 Modified mappings are highlighted in orange.
 Deleted mappings are highlighted in red.



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7.3 Editing import templates for LDAP data sources

The editing process of the template is almost identical to its creation except for the following points on page 3:

- All mappings will be removed if '**Destination'** is changed. The user receives an appropriate warning beforehand.
 - Added mappings are highlighted in green.
 - Modified mappings are highlighted in orange.
 - o Deleted mappings are highlighted in red.

7.4 Editing export templates for LDAP data sources

The editing process of the template is almost identical to its creation except for the following points on page 2:

- All mappings will be removed if '**Source**' is changed. The user receives an appropriate warning beforehand.
 - Added mappings are highlighted in green.
 - Modified mappings are highlighted in orange.

7.5 Editing schedules

- 1. Click the **Scheduler** tab to display a list of schedules.
- 2. At the end of the row of the desired schedule, click the Edit (pen) icon.
- 3. Clear the **Active** check box, to prevent the schedule from being executed in the meantime.
- 4. Make the desired changes
- 5. Click the Save button to finish editing.
- 6. Select the Active check box to allow the execution of the schedule.

8 Deleting templates and schedules

Notes:

- If the template that you wish to delete is included in a schedule, then you must delete the schedule first, regardless of whether the schedule is active.
- You cannot delete a schedule if any of its tasks are **in progress** or **Pending**. Wait for the tasks to finish before deleting the schedule.

To delete an import template, an export template or a schedule:

- 1. Locate the template or schedule in the list on the first page of the respective tab (**Import**, **Export** or **Scheduler**).
- 2. Click the 'Delete' (trash can) icon in the 'Action' column.
- 3. Confirm or cancel the deletion in the popup warning message.



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	Import	Template List								+ New	
	Туре 🕴	Name	¢	Created By	¢	Created On 👙	Modified By	¢	Modified On 🚽	Action	
	All 🗸					Ë			Ë		
	Csv	d		Pavlo		15.04.2019	Pavio		15.04.2019		

9 Execution of import/export tasks: The Agent

9.1 Execution of the import process

If a line in an input file refers to an entity that already exists in the access control database, then the import will update it. Otherwise the import will create a new database record.

Before every create/update operation, entities in the access control database are searched by the following fields:

- Authorizations will be checked by SHORTNAME property.
- **Companies** by COMPANYNO.
- **Cards** by CARDNO and Customercode (CODEDATA). **Persons and Visitors** – by unique identifiers provided by operator (see section 5.1.1 Unique identifier option mechanism)

Note: If Input file contains empty value for text type of properties such a property will be cleared on update import. This is actual only for text type of properties. Dates, Numbers and Boolean will not be cleared.

9.2 To execute an import or an export immediately

- 1. Locate the template in the list on the first page of the respective tab (**Import** or **Export**).
- 2. Click the 'Import' or Export icon in the 'Action' column.
- 3. Specify quantity of rows to be skipped on the execution

Note: If Import Template was created with 'Column names in first data row' enabled, than 1st row will be skipped during every import execution.

- 4. Confirm or cancel the execution in the popup message.
 - a. The Agent Task List is displayed.
 - b. The new import or export appears at the top of the list, with dates and times for **Created**, **Started** and **Completed**, and a **State** (one of Pending, In Progress, Succeeded, Failed).



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	Ag	ient Ta	sk List										
												ø	
		Туре	Template Name	¢	Data Type	Executed By	¢	Created On 🚽	Started On	Completed On	State	Action	
		All \checkmark			All 🗸			Ë	Ë	Ë	All 🗸		
	-	Import	Idap_persons		Ldap	Scheduler		15.04.2019 17:10	15.04.2019 17:10	15.04.2019 17:10	Succeeded	1	
	Ор	eration has	completed: 8 entities imp	orted suc	ccessfully, 0 entit	ies failed to import, 0 entities	s del	eted successfully, 0	entities failed to de	elete.			
Recc whet To e	L ords her	.ist s in they they uate Clic	ne Agent ta y succeeded an import or k the Agen t ate the desi Click the + were proce Click the D CSV export	sk I I, pa I, pa I tab I tab I tab I tab I tab	ist are artially s to disp import in the d succe aload (c	olay the Ageı or export in t first column t	gr fa nt he to	een, yell ailed. Task Li s e list see deta on in the	ow or red st ills of hor Action of	d, depend w many re	ing on		
tab to	b d	elete		natio	cally that	he server. Us at are older th					-		
						luled imp			-		. .		
		0	schedule na s defined.	S De	een crea	ated and set	a	ctive it wi	II be exe	cuted at t	ne		
		SV (LI A.	DAP and ex Manually so Use an exte	port elec erna	s will be t the inp al progra	e List there a e executed a but file from t am to copy a efore each so	ut he n	omatical e schedu ew versio	ly). Ier temp on of the	late list			
	Me	2.	Locate the Click the U	ploa	ıd icon i	import in the in the Action /s to be skipp	I C	olumn	-				



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						, i				
Note	e: If Imp	ort Template	e was i	created	with 'Colu	mn names ii	n first data	row' e	nabled.	
	1st row	/ will be skip	ped dı	uring eve	ery import	execution.				
	4.	Use the file The input fi time indicat	le that	t you sel	ect will be	imported or		at the o	date and	
[Schedule	er Template List								
									+ New	
	Туре	Template Name	÷ ÷	Data Type 🔺	Last Started 👙	Last Completed	Next Start 🗍	Active 🍦	Action	
	Import V			All V	Ë	Ë	Ë	All 🗸		_
l	Import	companiesAll		Csv	15.04.2019 17:35	15.04.2019 17:35	15.04.2019 17:50	Yes	10⊿1	
Note		C:\inetput er path can be Ensure that column. Fo input file me The input fi Start colum schedule. Use a shell overwritten	b\www. e char t the fil r insta ust be le will nn, and script by a r import	root\In nged in <u>/</u> lename ince, if th named be impo d then r e	Agent Pref matches the matches the companie orted at the epeatedly r external sion with th	rtWebApp\(Content\f the Templ companie me indicat terval spece ensure that ne, in time	Files Hate Na esAll, ed by t cified b t the in e for the	import\ me then the the Next by the uput file is e next	
	Prefere from th control 1. Se 2. Clie	ng Agen ences are se e list, and st system. lect the Age ck the ' Prefe ndow.	ettings ore the nt tab	that sch e creder	nedule the ntials used	for executir	g the task	s in the	e access	



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			٢
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All ✓ + Import companiesAll	All V Csv Scheduler	Image: Height of the second	~
Import companiesAll Import d	Csv Pavlo	15.04.2019 17:20 15.04.2019 17:20 15.04.2019 17:20 Succeeded 15.04.2019 17:20 15.04.2019 17:20 15.04.2019 17:20 Partially Succeed	led 🗐
+ Import Idap_persons_no_delete	Ldap Scheduler	15.04.2019 17:16 15.04.2019 17:16 15.04.2019 17:16 Succeeded	
logged-on w We recommended rord that never exp rtant: It is required ntials were change er, AMS, etc.). Oth d credentials.	will be used. d you have a dedicated bires. I to do an update of the ed from other application herwise all import tasks	scheduled. By default first operator operator/user in the BIS/AMS with credentials here, if operator account on (e.g. BIS client, Configuration s will fail as IMPEX will continue to s can execute import tasks.	h a unt
Enables tw where on II import/expo Sicherheit (x86)\Bosc default). In imported by Before ena Server and the folders: <i>Right click</i> Add Impor	MPEX Server should be ort tasks (C:\Program F ssysteme\ImportExpor h Sicherheitssysteme case of import, same f y Scheduler. Only full p bling the option, it is re give IMPEX sufficient on the folder > Proper	ere it is possible to specify folders e stored result and log files of files (x86)\Bosch tACEWS\Import and C:\Program File \ImportExportACEWS\Export by older will be searched for files to b baths can be used. quired to define folders on IMPEX access rights to read/write data fro rties > Security > Edit > Add cial user created by the installation	e om



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	Group or user names: Tr Pe Pe Permissions for ImportExportUser Full control Modify Read & execute List folder contents Read OK Enable server logs (disabled by defate Enables server logs to be written and se MPEX service logs - C:\Program Fil icherheitssysteme\ImportExportA MPEX website logs - :\inetpub\wwwroot\ImportExportA	ions Customize	o under
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9.6 Using Agent Backup/Restore

IMPEX configuration (Import Templates, Export Templates, Scheduler Templates and Preferences) can be backed up and restored via a dedicated menu on the **Agent** tab. Agent Task List

	Туре 🔅	Template name 🔶	Data Type 🛛 🍦	Executed By	Created On 🚽	Started On	Completed On	State	÷	A
	All \checkmark	Q	Ali 🗸	Q	Ë	Ë	Ë	All	\sim	
F	Import	ACEPersons	CSV	Scheduler	23.01.2020 15:53	23.01.2020 15:54	23.01.2020 15:56	Partially Succeeded		1
F	Import	ACEPersons	CSV	Pavlo	23.01.2020 14:40	23.01.2020 14:40	23.01.2020 14:42	Partially Succeeded		1
	Import	ACEPersons	CSV	Pavlo	23.01.2020 14:36	23.01.2020 14:36	23.01.2020 14:37	Succeeded		
•	Import	ACEPersons	CSV	Pavlo	23.01.2020 14:32	23.01.2020 14:32	23.01.2020 14:34	Partially Succeeded		1
•	Import	ACEPersons	CSV	Pavlo	23.01.2020	23.01.2020	23.01.2020 14:28	Partially		

- Backup
- Password Restore
- Choose file
- Password

Backup/Restore	×
Backup	
Password	Backup
Restore	
Choose File	<u>↑</u>
Password	Restore
	Close



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Backup

This option provides ability to enter a password for the BAK file which will contain the IMPEX configuration. Then click the '**Backup**' button to initiate the backup process. After the process is finished, the password protected BAK file can be downloaded and saved.

Restore

Old Template List

This option allows you to select the BAK file created with **Backup** option. After providing the password specified on the **Backup** option, and clicking on '**Restore'** button, the current configuration will be replaced with the configuration from the BAK file.

Migrate old templates

This button is shown only if import and export templates (descriptions) are configured in old ImpEx. After click on the button, an Old Template list will be shown. To do migration of old templates select Destination (required) and scheduler (optional) for each of the templates to be migrated. Only templates with defined Destination will be included into migration process. Note that new ImpEx does not support multiple schedulers for one template. If migration is not possible or contains some warnings an old template will be marked with error/warning sign in the list. (Click on sign to see more details).

	Destination	Name	Туре	Scheduler Templates	Description	Date created
()		Test	Export		Test	2018-10-04
Configuration Configuration	em does not support custom date format "yyyy-mm-dd" for a star setting "Description" will be skipped setting "Overwrite (an existing export file with the current export setting "File encoding" will be skipped					
	Persons(w. attached authorizations, cards, compa \checkmark	Test	Import	TestImport.txt 🗸	Test	2018-10-04
\wedge	~	pers with image	Import	~	pers with image	2020-04-09
		·		·		Cancel Migrate

Scheduler Template columns contains drop-downs with file names options, but this file names are used only for indication of Tasks configuration from Old ImpEx and not the file itself.



Examples CSV import example using the example file import_input_exampl.csv, the following Import Template tettings are defined for an import. mort_input_exam ple.csv Page 1:		N		eference				Tel				
Using the example file import_input_exampl.csv, the following Import Template settings are defined for an import: mport_input_exam ple.csv Page 1:	Exai	nples										
1 2 3 Basic Configuration Preview of sample data Mapping Name import_input_exampl Uplead sample file import_input_exampl.csv 1 Type Csv ✓ Sequence ✓ ✓ Column names in first data row Default Formatting: Data ✓ Data MM.yy Default sequence ✓ Time HH:mm ✓ Data Decimal segurator Decimal places ✓	Using t settings import_	he example are define	e file im ed for an	oort_in		examp	l.csv,	, the fo	llowing	ı İmpc	ort Terr	ıplate
Name import_input_exampl Uplead sample file import_input_exampl.csv T Type Csv ✓ Separator Semicolon ✓ ✓ Column names in first data row Default Formatting: Data dd MM, yy ✓ Time HH:mm ✓ Detaut Formatting: Detau separator Detau Time dd MM.yy ✓ Detomal separator Detau Time Detomal separator Detamal fixes	Page 1	:										
Name import_input_exampl Uplead sample file import_input_exampl.csv T Type Csv ✓ Separator Semicolon ✓ ✓ Column names in first data row Default Formatting: Data dd MM, yy ✓ Time HH:mm ✓ Detaut Formatting: Detau separator Detau Time dd MM.yy ✓ Detomal separator Detau Time Detomal separator Detamal fixes		1- Basic Configur	ration									
Separator Column names in first data row Default Formatting: Date dd.MM.yy Time HH:mm Detomal separator Decimal places		-				CSV						~
Date Time Date Time dd.MM.yy HH:mm dd.MM.yy HH:mm Decimal places	Separator	sz_oventbi	~	_								
	Date dd.MM.yy	-	~	HH:mm Decimal place	es					m		~
	Date dd.MM.yy	-	~	HH:mm Decimal place	es					m		~
			ation							Mapping		
		Basic Configura				Last name	First name					
Company Extid Company name short Company name Company comp	Company Extlo	Company name short				Arnoldssons	Arnold	14.08.98				
Company Extid Company name short Company name Company city Person No Last name First name Date of birth Card number Code data Collect date Auth name		Company name short				Arnoldssons	Arnold	14.08.98				



					-				
O Add	entities to ACE				Per	sons(w. attached	aumonzauon	s, caros, con	ipanies)
Column	Column name in source	Destination		Туре	Is Mandatory	Is Unique	Format	Rules	Remo
1	Company ExtId	Companies.ExternalId	~	String			Ĵ	ſ	Ē
2	Company name short	Companies.COMPANYNO	~	String	~		Ĵ	ſ	Ē
3	Company name	Companies.NAME	~	String	~		Ĺ	ſ	Ť
4	Company city	Companies.CITY	~	String			Ĵ	ſ	Û
5	Person No	Persons.PERSNO	~	String		\checkmark	Ĵ	ſ	Ū
6	Last name	Persons.LASTNAME	~	String	\checkmark		Ĵ	ſ	Ū
7	First name	Persons.FIRSTNAME	~	String			Ĵ	Ĺ	Û
8	Date of birth	Persons.DATEOFBIRTH	~	ACEDateT			ſ	ſ	Û
9	Card number	Cards.CARDNO	~	String	~	\checkmark	Ĵ	ſ	Ū
10	Code data	Cards.CODEDATA	~	String	~	\checkmark	ſ	ſ	Ē
11	Collect date	Cards.COLLECT	~	DateTime			_0 dd/IV	_ℓ IM/yyyyy HH:r	1
12	Auth name	Authorizations.SHORTNAME	~	String	~	\checkmark	Ĵ	_l	Û
13	Auth desc	Authorizations.NAME	~	String			Ĵ	ſ	Ē

The format of the **Date** column is overridden to match the input:

Add Format			×
	dd/MM/yyyy HH:mm	~	
			Cancel Save
			Cancel Save

After the import

- Task finishes with a success message.

٩g	ent Tas	sk List									
											Ø
	Туре 🔅	Template Name	¢	Data Type 🕴	Executed By	Created On 💡	Started On 🕴	Completed On 🍦	State	¢	Action
	All \checkmark			All 🗸		Ħ	Ē	Ë	All	\sim	
-	Import	import_input_exampl		Csv	Pavlo	10.06.2019 14:30	10.06.2019 14:30	10.06.2019 14:30	Succeeded		$\underline{\downarrow}$



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- the Access control database contains the following entries:

COMPAN YNO	NAME	СІТҮ	PERSNO	LASTNAME	FIRSTNAME	DATEOFBIRTH	CARDNO	CODEDATA	COLLECT	SHORTNAME	NAME
Lagoda	Lagoda Inc.	Berlin	p12378951	Arnoldssons	Arnold	19980814		0x068F4D820001E6 B1	2018-01-05 19:55:00.000	Authz-1	Authorization number one
Sisters	Sisters & Co	Helsinki	p78915610	Jamesson	James	19801201	00000045781 2	0x0045B6D50006FC 54	2019-01-10 09:15:00.000	Authz-All	Authorization for administrator S



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0.2 Export Ex	amples				
).2.1 CSV	V Export	example			
The following Ex Page 1:	port Templ	ate's settings d	efined for a	n export:	
Create Export Templat	le				
	1				
Name	Basic Configuration	Separator		Mapping Type	
import_input_exampl		Semicolon	~	Csv	<u> </u>
Headers row presence					
Default Formatting: Date dd.MM.yy	~	Time HH:mm	~	Date/Time dd.MM.yy HH:mm	~
Decimal separator	~	Decimal places 0			



	Page	e 2:					
		0		2	3		
		Basic Configuration		Mapping		e data	
+	Add Mapp	ing			Source Persons(w. attached authorizat	ions, cards, companies)	
	Column	Column name in source		Rules And Formatting	Combine	Remove	
	1	Companies.COMPANYNO	~	Ĩ	بر ا	Ē	
	2	Companies.NAME	~	Ĵ	, st	Ē	
	3	Companies.CITY	\checkmark	Ĵ	p st	Ē	
	4	Persons.PERSNO	\checkmark	Ĵ	p st	Ē	
	5	Persons.LASTNAME	\checkmark	Ĵ	p st	Ē	
	6	Persons.FIRSTNAME	\checkmark	Ĵ	p st	Ē	
	7	Persons.DATEOFBIRTH	~	Ĵ	p st	m	
	8	Cards.CARDNO	~	Ĵ	p st	m	
	9	Cards.Customercode	~	Ĵ	p st	m	
	10	Cards.COLLECT	~	Ĩ	pt	Ť	
				_0	»K	Ē	

The following database entries are available for the export:

COMPANYNO	NAME	CITY	PERSNO	LASTNAME	FIRSTNAME	DATEOFBIRTH	CARDNO	Customercode	COLLECT	SHORTNAME	NAME
Lagoda	Lagoda Inc.	Berlin	p12378951	Arnoldssons	Arnold	19980814	000000124593	0x068F4D820001E6B1	2018-01-05 19:55:00.000	Authz-1	Authorization
Sisters	Sisters & Co	Helsinki	p78915610	Jamesson	James	19801201	000000457812	0x0045B6D50006FC54	2019-01-10 09:15:00.000	Authz-All	Authorization for administrators

The Export generates a file that can be downloaded from the Agent Task List with the following contents:



File Edit Format View Help COMPANYNO;NAME;CITY;PERSNO;LASTNAME;FIRSTNAME;DATEOFBIRTH;CARDNO;Customercode;COLLECT;SHORTNAME;NAME Lagoda;Lagoda Inc.;Berlin;p12378951;Arnoldssons;Arnold;14.08.98;000000124593;110054786;05.01.18 23:55;Authz-1;Authorization number one Sisters;Sisters & Co;Helsinki;p78915610;Jamesson;James;01.12.80;000000457812;4568789;10.01.19 13:15;Authz-All;Authorization for administrators



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	·			'	
	-	-		erial number cards	
1. Cards a <i>Dialog (Wie</i> ,		linked to pe	erson via Alvis	or ACE dialog:	
Recording ba	idge ID		×		
	Usage type:	Personal card			
-	Card no.:	111111111			
-	Facility code:	2222			
а	Card technology:	Mifare Classic	•		
-	Card data type:	Serial number	•		
	Number of bits:	0			
<u>о</u> к			Cancel		
				1	
Dialog (Bos	ch)			1	
Recording ba	idge ID		×		
-	Usage type:	Personal card	•		
	Card no.:	2222222222			
	Version:	33			
-	Facility code:	4444			
а	Country code:	01			
	Card technology:	Mifare Classic	•		
	Card data type:	Serial number	-		
	Number of bits:	0			
ОК			Cancel		
2. See sec	tion 10.2.1 CS	V Export ex	ample for a ter	mplate file defined for an	
export					
3. The exp	ort generates a	a file that ca	an be download	led from Agent Task List. It	
will have	e the following			-	
2					
	nput_exam				
pl	(2).csv				
File Edit Format View Hel COMPANYNO; NAME; CITY; PERSNO	;LASTNAME;FIRSTNAME;DAT				
Sisters;Sisters & Co;Helsi Sisters;Sisters & Co;Helsi	nki;p78915610;Jamesson; nki;p78915610;Jamesson;	James;01.12.80;00 James;01.12.80;00	1111111111;2222;;Authz-	-All;Authorization for administrators ;Authz-All;Authorization for administrators	



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11 Possible usage examples

ImpEx tool provides an ability to do numerous operations with BIS/AMS system entities (Persons, Visitors, Companies, Cards and Authorizations). This chapter contains a description of available actions to be done with ImpEx.

1. Insert single entity in the system via CSV.

To insert single entity to the system you may perform a simple import of the CSV file containing a list of entities e.g. file with Companies only or Persons only or etc.

2. Update single entity in the system via CSV.

To do an update on the entities already inserted or existing in the system, an input file should contain the rows with values for unique fields used during inserts.

Before every update operation, entities in the access control database are searched by the following fields:

Authorizations will be checked by SHORTNAME property. Companies – by COMPANYNO.

Cards - by CARDNO and Customercode (CODEDATA).

Persons and **Visitors** – by unique identifiers provided by operator (see section <u>5.1.1 Unique identifier option mechanism</u>)

Note: If Input file contains empty value for text type of properties such a property will be cleared on update import. This is actual only for text type of properties. Dates, Numbers and Boolean will not be cleared.

Delete single entity in the system via CSV. If there is a need to delete entries in the system then use the <u>Delete mode</u> for CSV templates.

Note: If input data contains cards, Visitor's or Person's, the cards will be deleted from the system without deleting a Visitor or a Person.

4. Insert related entities via CSV.

To insert related entities to the system an input file should have a row for each relation between the entities. E.g. to insert 1 Person with 2 cards the input file should have 2 rows: Firstname;Lastname;Cardno;Customercode Bob;Willson;1;123 Bob;Willson;2;124

5. Update related entities via CSV.

Similar to **Update single entity in the system via CSV** but unique values should be same as used for insert for each entity in the row.

Note: If input data contains visitor card with a Person in one line and the card is not in use, such a card will be removed from visitor's cards and assigned to the Person.



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6. Delete related entities via CSV.

Similar as for **Delete single entity in the system via CSV** but file should contain related entities. Deleting will be done in next sequence:

- 1) Select all cards of an employee or visitor.
- 2) Delete the cards of the employee.
- 3) Remove the assignments of the cards from the visitor.
- 4) Select all authorizations of the employee or visitor and remove them.
- 5) Delete the employee or visitor record itself.

7. Insert Persons of Visitors from LDAP.

Please refer to <u>Creating an import template for LDAP data</u> for more details on how to configure import from LDAP. During import from LDAP there is no need to configure unique properties as LDAP has distinguished name which is unique already.

8. Update Persons or Visitors from LDAP.

All previously imported entities from LDAP will be automatically updated in the Access system on each next import.

There is no backwards import from the Access system to the LDAP, so if e.g. Person was updated in AMS/BIS this change will not be reflected in the LDAP.

9. Insert or Update Persons with Authorizations from LDAP

To insert Persons from LDAP together with Authorizations it is required to configure a dedicated **Person type** in AMS/BIS with locked **Access profile** which has a set of Authorizations under it, and map dedicated attribute from LDAP to PERSCLASSID property.

E.g. in the AMS/BIS you have **Access profile** named "LDAP access profile" and a special **Person type** named "LDAP person" and this **Access profile** is locked with the **Person type**. Then on the LDAP you have an attribute which contains 'LDAP person' values. During creation of the LDAP import template map the attribute to PERSCLASSID property and execute the import. During the import IMPEX will search for **Person type** named "LDAP person" and will use it to create of update entries in the system, and as we have locked **Access profile** to the **Person type** all Authorizations connected to the **Access profile** will be automatically assigned to the Persons from LDAP.

10. Delete Persons or Visitors from AMS/BIS if they does not present on LDAP.

There are 2 modes for the LDAP import template, as described in detail below.

- Delete if not in LDAP

- Delete by attribute value

Delete if	Selects all persons/visitors in the database that are no longer					
not in	found in LDAP, but which had been previously imported from					
LDAP	LDAP and deletes them.					
	The deletion process is then as follows:					
	1. Select all cards of an employee or visitor.					
	a. Delete the cards of the employee.					
	b. Remove the assignments of the cards from the					
	visitor.					



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	 Select all authorizations of the employee or visitor and remove them. Delete the employee or visitor record itself.
Delete by attribute value	Deletes persons/visitors if the specified attribute and its value are found in the record that is being imported. Note : If all data was deleted from LDAP server deletion from ACE system will not be performed. The task will be finished with 'Failed' state and an error message, for example: 'LDAP server ' <ip address="" ldap="" of="" server="">:<port number="">' returned 0 entries'</port></ip>

11. Migrate data from APE

The process of migration data from APE is described in separate document 'Migration from APE to AMS User Guide.docx'

12 Data field reference

Entity	Property	Datatype	Dialog / (Tab) / Dialogfield Valid characters	Description / Remarks
Authorizations	SHORTNAME	String	Access Authorizations / Authorization name	Can be used to assign existing authorizations. But also it is possible to create new authorizations - note that there are no entrances included.
	MACID	String	Access Authorizations / MAC	Reference to Devices table (MAC type only) Unique Identifier from Devices table of type MAC is used as ID can be used. If nothing is provided then default instance 1 of type MAC is used.
	TMID	String		Reference to time models table
	SPECIALFUNCTIONID	String String		Optional, reference to clients (=divisions) table Reference to special functions table
	NAME	String	Access Authorizations / Description	Description provided for Authorization



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Cards	CARDNO	String	PersHdr / ID card no.	card number for a particular card, Combined with CODEDATA it should be unique
	CLIENTID Customercode (CODEDATA)	String String		Optional, reference to clients (=divisions) table Required field, accepts decimal values which will be converted to CODEDATA.
	CODELEN	Int16		Optional field, codelen
	CODELEN2	Int16		Optional field, codelen (codedata2)
	CODETYPE	ACECardT	Accepts one of	Optional field, codetype.
		уреТ	next values, literal or	
			numeric: ACE_CARDTYPE	
			UNKNOWN = 0	
			ACE_CARDTYPE	
			C = 1	
			ACE_CARDTYPE	
			_MIFAREDESFIR	
			E = 2	
			ACE_CARDTYPE	
			_LEGICPRIME =	
			3	
			ACE_CARDTYPE	
			_LEGICADVANT	
			ACE_CARDTYPE _ICLASS = 5	
			ACE_CARDTYPE	
			-HIDPROX = 6	
			ACE_CARDTYPE	
			_EM = 7	
			ACE_CARDTYPE	
			_HITAG = 8	



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	CODEVAR		Accepts one of next values, literal or numeric: ACE_CARDVARI ATIONS_UNKNO WN = 0	Optional field, cardvariation.	
			ACE_CARDVARI ATIONS_CSN = 1 ACE_CARDVARI ATIONS_BOSCH = 2		
	CODEVAR2	ACECardV ariationT	Accepts one of next values, literal or numeric: ACE_CARDVARI ATIONS_UNKNO WN = 0 ACE_CARDVARI ATIONS_CSN = 1 ACE_CARDVARI ATIONS_BOSCH = 2		
	COLLECT	DateTime		Optional field, timestamp of card collection date Date Time format must be defined.	
	PERSID	String		NULL if it is a card for later visitors usage; in all other cases it references the Persons table.	
	USAGETYPEID	String		Either Unique Identifier from CardUsageTypes is used as ID or Usage type name can be used. If nothing is provided then default value 1 usage type id is used.	
Companies	ATTENDANT	String		n/a	
	СІТҮ	String	Companies / City	City of the company	



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	COMPANYNO	String	Companies /	Required and unique field. Represents
			Short name	company Short name in the access control system.
	COUNTRY	String		Country of the company
	EMAIL	String	Companies / E- mail	E-mail address
	FAX	String	Companies / Fax	Company's Fax number.
	HOMEPAGE	String	Companies / Webpage address	Company's webpage address
	MAILBOX	String	Companies / Post-office box	Company's Post-Office box
	MOBILEPHONE	String	Companies / Mobile	Company's Mobile phone number
	NAME	String	Companies / Name	Represents company Name in the access control system. COMPANYNO will be used if this is not present in the template.
	PHONE	String	Companies / Phone	Company's phone number
	REMARKS	String	Companies / Remarks	Company's remark
	STATE	String		The geographical state where the company' is located.
	STREETHOUSENO	String	Companies / Street	Company's Street
	STREETHOUSENOEXT	String		Company's Address line #2
	ZIPCODE	String	Companies / Zip code	Company's Zip code
Persons	Externalld	String		This property is not written to ACE system but used for linking entries in input file that refer to the same object.
	ADDITIONALLASTNAME	String	PersHdr / Birth name	Birth name
	ATTENDANT	String	Persons / (Additional Company Data) / Adviser	
	AUTHFROM	DateTime	Cards / Authorizations /	Date Time format must be defined.



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		Authorization /	
		Valid from	
AUTHUNTIL	DateTime	Cards /	Date Time format must be defined.
		Authorizations /	
		Authorization /	
		until	
CENTRALOFFICE	String	Persons /	
		(Additional	
		Company Data)	
		/ Location	
CITY	String	Persons /	
		(Address) / City	
CITYOFBIRTH	String	Persons /	
		(Additional	
		Person Data) /	
		Birthplace	
CLIENTID	String		Client ID from Clients table, to which Divisio
			this person belongs.
COMPANYID	String		Company ID from Companies table, to whic
			company this person refers to.
			It is possible, that this data field is missing in
			the list.
			With the entries for Company.Name and
			Company.Shortname the company name is
			displayed.
COSTCENTRE	String	Persons /	
		(Additional	
		Company Data)	
		/ Cost unit	
COUNTRY	String	Persons /	
		(Address) /	
		Country, State	
DATEOFBIRTH	ACEDateT	PersHdr / Date	Date format must be defined.
		of birth	
DEPARTMENT	String	Persons /	
		(Additional	
		Company Data)	
		/ Department	



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EMAIL	String	Persons /	
		(Contact) / e-	
		mail	
EXTOPENTIME	ACEBoolT	TRUE=1	
		FALSE=0	
FAXOFFICE	String	Persons /	
		(Contact) / Fax	
		business	
FAXPRIVATE	String	Persons /	
		(Contact) / Fax	
		home	
FIRSTNAME	String	PersHdr / First	
		name	
GLOBALLYADMINIS	TERE ACEBooIT	PersHdr /	
D		Administrated	
		globaly	
		TRUE=1	
		FALSE=0	
GRADE	String	PersHdr / Title	
HEIGHT	Int32	Persons /	
		(Additional	
		Person Data) /	
		Size	
Image	String		Special property to do import of the Person's
			ID photo.
			Should contain a path to image file.
IDENTIFICATIONMO	DDE ACEPerso	ACE_IDENTMOD	
	nldentMo	E_UNKNOWN =	
	deT	0	
		ACE_IDENTMOD	
		E_FINGER = 1	
		ACE_IDENTMOD	
		E_CARD = 2	
		ACE_IDENTMOD	
		E_FINGERANDC	
		ARD = 3	
IDNUMBER	String	Persons /	
		(Additional	
		Person Data) /	



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		Identification	
		No	
IDTYPE	String	Persons /	
		(Additional	
		Person Data) /	
		Official pass	
IDVALIDUNTIL	ACEDateT	Persons /	Date format must be defined.
		(Additional	
		Person Data) /	
		Valid until	
JOB	String	Persons /	
		(Additional	
		Company Data)	
		/ Job title	
LASTNAME	String	PersHdr / Last	= required
		name	
MAIDENNAME	String	Persons /	
	String	(Additional	
		Person Data) /	
		Father's name	
MARITALSTATUS	ACEMarit		
	alStateT	(Additional	
	ubluter	Person Data) /	
		Marital status	
		UNMARRIED = 0	
		MARRIED = 1	
		WIDOWED = 2	
		DIVORCED = 3	
		MARITALSTATU	
		S_UNDEFINED =	
		-1	
NATIONALITY	String	Persons /	
	Stille	(Contact) /	
		Nationality	
NUMBERPLATE	String	PersHdr / Car	
	Julig	license no.	
	ACEDociT		
PERMOPEN	ACEBoolT		
		FALSE=0	
PERSCLASSID	String	Employee ID	PersClassId should be provided, it has to be
			the identifier from PersClasses



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PERSNO	String	PersHdr /	
	0	Personnel no.	
PHONEMOBILE	String	Persons /	
		(Contact) /	
		Mobile	
PHONEOFFICE	String	Persons /	
		(Contact) /	
		Phone business	
PHONEOTHER	String	Persons /	
	o timb	(Contact) /	
		Phone	
PHONEPRIVATE	String	Persons /	
	Stille	(Contact) /	
		Phone home	
REASONSTAY	String	Persons /	
REASONSTAT	Stillg	(Additional	
		Company Data)	
		/ Residence	
		reason	
REMARK	String	Persons /	
NEWIARK	String	(Remarks) /	
		Remarks	
REMOTECTRL1	ACEBoolT	FALSE=0	
REMOTECTRL2	ACEBoolT		
		FALSE=0	
SEX	ACESexT	PersHdr /	
		Gender	
		SEX_MALE = 0	
		SEX_FEMALE = 1	
		SEX_UNDEFINE	
		D = -1	
STREETHOUSENO	String	Persons /	
		(Address) /	
		Street, No	
VIP	ACEBoolT		
		FALSE=0	
WEBPAGEURL	String	Persons /	
		(Contact) /	
		Homepage	



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	ZIPCODE	String	Persons / (Address) / ZIP	
Visitors	Externalld	String		Dummy property which will not be written to ACE system but used for identifying entries in input file.
	ADDITIONALLASTNAME	String	VisitorHdr / Birth name	mput me.
	ARRIVALDATE	DateTime		Date Time format must be defined.
	ARRIVALEXPECTED	DateTime		Date Time format must be defined.
	ATTENDANT	String		
	ATTENDANTID	String	Visitor / (Additional data) / Attendant	Identifier of the Person who is the attendant.
	AUTHFROM	DateTime		Date Time format must be defined.
	AUTHUNTIL	DateTime	Visitor / (Authorizations) / Authorization / until	Date Time format must be defined.
	CENTRALOFFICE	String		
	CITY	String	VisitorHdr / City	
	CITYOFBIRTH	String		
	CLIENTID	String		
	COMPANYID	String	VisitorHdr / Company	Company ID from Companies table, to which company this visitor refers to. It is possible, that this data field is missing in the list. With the entries for Company.Name and Company.Shortname the company name is displayed.
	COUNTRY	String		



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DATEOFBIRTH	ACEDateT	VisitorHdr /	Date format must be defined.
	Deter	Date of birth	
DEPARTDATE	DateTime	(Additional	Date Time format must be defined.
		,	
		data) /Date of	
	DeteTime	departure	Date Time format must be defined.
DEPARTEXPECTED	DateTime	(Additional	Date Time format must be defined.
		data) /Expected	
		departure	
DEPARTMATTEND	String	departure	
	String		
	String		
	String		
	String		
FIRSTNAME	String	VisitorHdr / First	
		name	
GLOBALLYADMINISTERE	ACEBoolT		
D		FALSE=0	
	String		
HEIGHT	Int32		
Image	String		Special property to do import of the Visito
			photos.
			Should contain a path to image file.
		ACE_IDENTMOD	
		E_UNKNOWN =	
	deT	0	
		ACE_IDENTMOD	
		E_FINGER = 1	
		ACE_IDENTMOD	
		E_CARD = 2	
		ACE_IDENTMOD	
		E_FINGERANDC	
		ARD = 3	
		VisitorHdr / Official pass	
	nuentityl	ACE_IDENTIFY_	
		TYPE_PASSPORT = 0	



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		TYPE_DRIVING_	
		LICENCE = 1	
		ACE_IDENTIFY_	
		TYPE_ID_CARD	
		= 2	
		ACE_IDENTIFY_	
		TYPE_OTHER =	
		3	
		ACE_IDENTIFY_	
		TYPE_UNKNOW	
		N = -1	
IDENTPAPER	String	VisitorHdr /	It is valid only if the Visitor.IDENTIFIEDBY is
		Official pass /	
		Other	
IDNUMBER	String		
IDTYPE	String		
IDVALIDUNTIL	ACEDateT		Date format must be defined.
JOB	String		
LASTNAME	String	VisitorHdr / Last	required
		name	
LOCATION	String	Visitor /	
		(Additional	
		data) / Location	
MAIDENNAME	String		
MARITALSTATUS	ACEMarit	UNMARRIED = 0	
	alStateT	MARRIED = 1	
		WIDOWED = 2	
		DIVORCED = 3	
		MARITALSTATU	
		S_UNDEFINED =	
NATIONALITY	String	-1	
NUMBERPLATE	String	VisitorHdr / Car	
	0	license No.	
PASSPORTNO	String	VisitorHdr /	
		Official pass /	
		Number	
PHONEMOBILE	String		
PHONEOFFICE	String		



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PHONEOTHER	String		
PHONEPRIVATE	String	VisitorHdr /	
		Phone	
REASON	String	Visitor /	
		(Additional	
		data) / Reason	
REASONSTAY	String		
REMARKS	String	Visitor /	
		(Additional	
		data) / Remark	
SEX	ACESexT	SEX_MALE = 0	
		SEX_FEMALE = 1	
		SEX_UNDEFINE	
		D = -1	
STREETHOUSENO	String	VisitorHdr /	
		Street, no	
WEBPAGEURL	String		
ZIPCODE	String	VisitorHdr / Zip	
		code	



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13 Troubleshooting

Before troubleshooting, please be sure that User and Server (see <u>9.5 Using Agent</u> <u>Preferences</u> for more details) and AMS/BIS API logs are enabled. If AMS/BIS logs are enabled usually they are stored under

C:\Users\ImportExportUser\AppData\Local\Temp

13.1 Installation failed

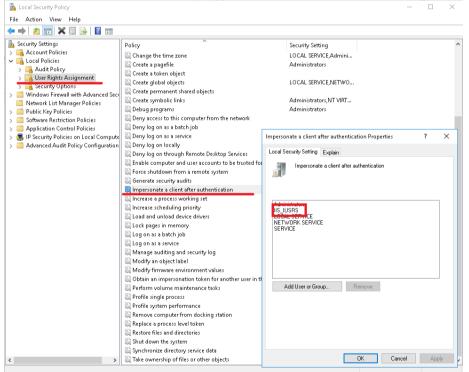
Check installation logs, usually located at system path %temp%

13.2 Pictures and icons are not displayed

Verify if user's group IIS_USRS is added into Local Security Policy:

Start > Local Security Policy > Local Policies > User Rights Assignment >

Impersonate a client after authentication



13.3 There is no Certificate file on IMPEX server

- Go to IMPEX installation folder
- Execute PowerShell script 'CreateCertificates.ps1' as Administrator



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13.4 An erroi	r occurred w	vhile proce:	ssing your requ	Iest	
			Bosch Access Ir	mporter/Exporter	
Error.					
An error occurred wh	nile processing your	request.			
valid. - Verify it IMPEX	f ImportExportUse	er has the same Administrators g	EX server and SQL ser password on both SQL roup (refer <u>Setting up a</u> ore details).	and	
- Verify t	hat ImportExportL	Jser is added to	SQL users and that it is	s mapped	
	properties - BIS46-EN-DEMO			_	
Select a pa & General & Server	- 1	icript 🔻 🕜 Help			
User Ma		ers mapped to this login: ap Database	User	Default Schema	
🖋 Status		acedb acedb Bosch.EventDb Bosch.IntrusionDb Bosch.KeyValueDb Posch StateDh			
		ImportExport master model msdb tempdb	BIS46-EN-DEMO\ImportExportUser	dbo	
Connection					
Connection sa	emo\bis_ace Dat	Guest account enabled for: ac abase role membership for: ac db_accessadmin db_backupoperator db_datareader db_ddatawriter db_ddatawin db_ddanin db_ddenydatareader			
Progress		db_denydatawriter db_owner			
A Re		db_securityadmin public			
				ОК	Cancel
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