USING THE IPS FOR WINDOWS IMPORT/EXPORT UTILITY

The Import/Export Utility is a command line utility that lets you exchange token records between an Intelligent Programmer Software for Windows (IPS for Windows) device configuration and an ASCII (text) file. It also lets you export history records from a device configuration to an ASCII file.

The Import/Export Utility provides a powerful way to:

- create the user database for a device configuration from an existing list of users.
- update a device configuration by adding, modifying, and/or deleting records in the user database.
- export a device's user database to an ASCII file that can be imported into a word processing or spreadsheet program. Then you can easily update the user database and import it back into the device configuration. You also can use the exported file to track user names and other user information associated with token data.
- export a device's history records to maintain a continuous log of events at a door, or to analyze and report events at an individual door or group of doors.

PC REQUIREMENTS FOR RUNNING THE IMPORT/EXPORT UTILITY

The Import/Export Utility is a 32-bit Windows-compatible application. This utility, as well as the IPS for Windows, are year 2000 compliant.

To run the Import/Export Utility, you need an IBM-compatible desktop PC or laptop PC with:

- 486 33 MHz or higher speed processor
- at least 16 MB of RAM (random access memory)
- at least 10 MB of free hard disk space
- Microsoft Windows 95 or higher or Microsoft Windows NT 4.0 or higher
- IPS for Windows 1.00 or higher.

INSTALLING THE IMPORT/EXPORT UTILITY

The Import/Export Utility runs on a desktop PC or laptop PC. However, it does not run on a palmtop PC.

The Import/Export Utility is automatically installed when you install the IPS for Windows. It is located in the IPS for Windows program folder on the PC's hard drive.

COMMAND LINE SYNTAX

The command line syntax for the Import/Export Utility is:

IMPEXPW [-I/-E/-H/-?] [-R] [-F(SEP)] [-D("DEVICE")] [-G("GROUP")] FILENAME

Note: Only one command (-I, -E, -H, or -?) may be included in the command line.

Run the command line from the program directory DOS prompt **C:\ . . . \IPSFOR~1>**. The table below briefly describes the commands and options.

Command	Description
-I	Imports token records from the specified file to the specified device configuration's user database.
-E	Exports token records from the specified device configuration's user database to the specified file.
-H	Exports history records from the specified device configuration to the specified file.
-?	Displays the on-line help.
Option	**Description**
-R	Resets the specified device configuration's user database (deletes all tokens). (Optional with -I.)
-F(SEP)	Specifies a field separator instead of comma (,). The field separator can be any single character. (Optional with -I/-E/-H.) **Note:** To use tab as the field separator, in place of **SEP** type **"**, then press Tab, then type **"**. The option appears as **-F(" ")**.
-D("DEVICE")	Specifies a device configuration. (Used with -I/-E/-H.) Quotation marks are required if the device name is more than one word.
-G("GROUP")	Specifies a device group. (Optional with -H). Quotation marks are required if the group name is more than one word.
FILENAME	Specifies the ASCII file name. (Used with -I/-E/-H.)

ASCII FILE FORMAT

Using the import command (-I)

Each line in the ASCII file that you create for use with the import command (-I) indicates an action to perform for a token record. You can create the ASCII file using any word processing, spreadsheet, or database program that lets you save the file as an ASCII (text) file.

The format for an ASCII file to be used with the import command (-I) is:

ACTION,TOKEN,ISSUE CODE,TIME ZONE,EXPIRATION,DEADBOLT,PASS MODE

The fields (other than **ACTION**) correspond to the fields in the IPS for Windows Add/Modify Card dialog box. By default, use a comma (,) to separate each field. If you use the -F option on the command line to specify a different character to serve as the field separator, use that character. Do not leave a space before or after the field separator. *You must provide an entry for every field.*

The following table describes each field.

Field	Description
ACTION	Type one of the following actions: ■ ADDMOD. This action lets you add or modify a token record in the specified device configuration's user database. If the token does not already exist in the user database, the record is added. If the token already exists, the record is modified. ■ DELETE. This action lets you delete a token from the specified device configuration's user database.
TOKEN	Provide the token's card number or access code. The number of digits cannot exceed the card number for the selected token format.
ISSUE CODE	Provide the token's issue code. The number of digits cannot exceed the issue code for the selected token format. If the issue code for the selected token format is 0 (an issue code is not used), type **0**. **Note:** Issue codes generally are not used for V Series Keypad Security Devices.
TIME ZONE	Provide the number of the time zone representing the time periods when you want the token to be able to access the doors controlled by devices using the device configuration. Type the number of one of the time zones defined for the device configuration (from **1** to **8**), or type **0** for never, or type **9** for always.
EXPIRATION	Provide the date when you want the token to expire and no longer be able to access the doors. Type the year, then the month, then the day. For example, if you want the token to expire on December 31, 2000, type **001231**.

Field	Description
DEADBOLT	To give the token the deadbolt override privilege, type **1**. If you do not want to give the token the deadbolt override privilege, type **0**. **Note:** The deadbolt override feature applies only to electronic locks with a mortise deadbolt function chassis.
PASS MODE	To give the token passage mode privilege, type **1**. If you do not want to give the token passage mode privilege, type **0**.

Using the export command (-E)

Each line in the ASCII file created using the export command (-E) is a token record. You can access the ASCII file using any word processing, spreadsheet, or database program that opens or imports ASCII (text) files.

The format for an ASCII file produced using the export command (-E) is:

TOKEN,ISSUE CODE,TIME ZONE,EXPIRATION,DEADBOLT,PASS MODE

The fields correspond to the fields in the IPS for Windows Add/Modify Card dialog box. By default, a comma (,) is used to separate each field. If you use the -F option on the command line to specify a different character to serve as the field separator, that character is used. The following table describes each field.

Field	Description
TOKEN	Lists the token's card number or access code.
ISSUE CODE	Lists the token's issue code. **0** indicates that an issue code is not used. **Note:** Issue codes generally are not used for V Series Keypad Security Devices.
TIME ZONE	Lists the number of the time zone representing the time periods when the token is able to access the doors controlled by devices using the device configuration. The number is one of the time zones defined for the device configuration (from **1** to **8**), or **0** for never, or **9** for always.
EXPIRATION	Lists the date (year, month, day) when the token will expire and no longer be able to access the doors.
DEADBOLT	Indicates whether the token has (**1**) or does not have (**0**) deadbolt override privilege. **Note:** The deadbolt override feature applies only to electronic locks with a mortise deadbolt function chassis.
PASS MODE	Indicates whether the token has (**1**) or does not have (**0**) passage mode privilege.

Using the history command (-H)

Each line in the ASCII file created using the history command (-H) is a history record. You can access the ASCII file using any word processing, spreadsheet, or database program that opens or imports ASCII (text) files.

The format for an ASCII file produced using the history command (-H) is:

EVENT,DATE,TIME,TOKEN,TOKEN

By default, a comma (,) is used to separate each field. If you use the -F option on the command line to specify a different character to serve as the field separator, that character is used.

Performing tasks using the Import/Export Utility

The table on the next page summarizes the command line and ASCII file required to perform tasks using the Import/Export Utility.

Task	Command line	ASCII file
View the on-line help	**IMPEXPW -?**	None
Reset the specified device configuration's user database (delete all tokens) before adding tokens[a]	**IMPEXPW -I -R -F(SEP) -D("DEVICE") FILENAME** For example, **IMPEXPW -I -R -F(/) -D("EAST MAIN") EMAIN.TXT** See footnotes 1, 2, and 3.	For each token to be added, include a line using the **ADDMOD** action. For example, **ADDMOD/123456/0/9/001231/0/1** For a description of the fields, see page 4.
Add or modify a token in a device configuration's user database[a]	**IMPEXPW -I -F(SEP) -D("DEVICE") FILENAME** For example, **IMPEXPW -I -F(/) -D("EAST MAIN") EMAIN.TXT** See footnotes 1, 2, and 3.	For the token to be added or modified, include a line using the **ADDMOD** action. For example, **ADDMOD/123456/0/9/001231/0/1** For a description of the fields, see page 4.
Delete a token in a device configuration's user database[a]	**IMPEXPW -I -F(SEP) -D("DEVICE") FILENAME** For example, **IMPEXPW -I -F(/) -D("EAST MAIN") EMAIN.TXT** See footnotes 1, 2, and 3.	For the token to be deleted, include a line using the **DELETE** action. For example, **DELETE/123456/0/9/001231/0/1** For a description of the fields, see page 4.
Export all of the records in a device configuration's user database	**IMPEXPW -E -F(SEP) -D("DEVICE") FILENAME** For example, **IMPEXPW -E -F(/) -D("EAST MAIN") EMAIN.TXT** See footnotes 1, 2, and 3.	The exported file includes a line for each record in the user database. For example, **000456/0/9/001231/0/1** **000321/0/9/001231/1/1** **000111/0/3/011231/0/0** For a description of the fields, see page 5.
Export all of the history records for a device[b]	**IMPEXPW -H -F(SEP) -D("DEVICE") -G("GROUP") FILENAME** For example, **IMPEXPW -H -F(/) -D(GARAGE) -G(SHOP) S_GARAGE.TXT** See footnotes 1, 2, 3, and 4.	The exported file includes a line for each history record. For example, **ACCESS GRANTED/990411/1810/000123,0** **ADD RANGE/990411/2032/000200/000219**

a. The Import/Export Utility lets you change the IPS for Windows device configuration. To implement the changes at the device, you must transfer the device configuration to the device.

b. The Import/Export Utility lets you export the history records that have been retrieved from the device.

1. Comma (,) is the default field separator. **-F(SEP)** is optional and lets you specify a different field separator. In place of **SEP**, type the character to serve as the field separator.
2. In place of **DEVICE**, type the device name. Use quotation marks if the name is more than one word.
3. In place of **FILENAME**, type the name of the ASCII file from which records are to be imported or to which records are to be exported.
4. Include **-G(GROUP)** only if you have more than one device (belonging to different groups) with the same name as the specified device. In place of **GROUP**, type the name of the group that the device belongs to. Use quotation marks if the name is more than one word.

EXAMPLES

The following table describes examples of tasks that you can perform using the Import/Export Utility.

Task	Example command line	Example ASCII file
Add two token records and delete a token record in a device configuration.	**IMPEXPW -I -D("MAIN LOBBY") MLOBBY.TXT**	**ADDMOD,123456,0,7,981215,0,0** **ADDMOD,6543,0,3,001215,1,1** **DELETE,2343,0,9,991215,0,1**
Export the token records from a device configuration. Use ! as the field separator.	**IMPEXPW -E -F(!) -D(PERSONNEL) DOOR45.TXT**	**123456!0!7!991215!0!0** **006543!0!3!001215!1!1** **002343!0!9!011215!0!1**
Replace all of the token records in a device configuration with the token records in an ASCII file.	**IMPEXPW -I -R -D(PERSONNEL) DOOR45.TXT**	**ADDMOD,123456,0,7,001215,0,0** **ADDMOD,6543,0,3,001215,1,1**
Export the history from a device configuration.	**IMPEXPW -H -D(LOBBY) -G("MAIN HOSPITAL") MH_LOBBY**	**ACCESS GRANTED,990817,0737,000123,0** **ACCESS GRANTED,990817,0756,001199,0** **DOOR UNLOCKED,990817,0800,0,0** **DOOR LOCKED,990817,2100,0,0**

SUMMARY REPORT

After you use the Import/Export utility to import token records, export token records, or export history records, a summary report appears indicating the actions performed. The following table describes the format of the summary report, which varies depending on which command you use.

Command used	Summary report	
Import (-I)	Cards Added	*####*
	Cards Modified	*####*
	Cards Deleted	*####*
	Errors Reported	*####*
Export (-E)	Cards Exported	*####*
	Errors Reported	*####*
History (-H)	History Records Exported	*####*
	Errors Reported	*####*

ERROR MESSAGES

The format for most general error messages is:

ERROR: MESSAGE TEXT

The format for errors associated with a record is:

TOKEN:LINE: MESSAGE TEXT

where **TOKEN** is the card number or access code associated with the error

LINE is the number of the line in the ASCII file where the error occurred

MESSAGE TEXT describes the error

The following table describes possible error messages.

Error message	Description
Bad data	One or more fields in the record for the indicated token contain bad data.
Cannot find import file	The import file indicated on the command line does not exist.
Could not delete card	The indicated token record cannot be deleted because it is not in the device configuration's database.
Could not find database	The IPS for Windows database cannot be found in the DBS directory.
Device full	The indicated token record cannot be added to the device configuration because the user database contains the maximum number of records (1000).
Device name found more than once	More than one device configuration has the device name provided on the command line. If you are using -H, two devices have the same name. Use -G on the command line to specify the group name (in addition to using -D to specify the device name). If you are using -I or -E, a group name and a device name are the same. Use the IPS for Windows to rename the device or group.
Device name too long	The device name provided on the command line is more than 20 characters.
Device not found	The device name provided on the command line cannot be found.
Device not specified	A device name has not been specified on the command line.

Error message	Description
Empty file, no action performed	The import file specified on the command line does not have any information in it.
Export file exists, overwrite (Y/N)	The export file specified on the command line already exists. Type **Y** to overwrite the existing file. Type **N** to quit the command and not overwrite the existing file.
Group name too long	The group name provided on the command line is more than 20 characters.
Group not found	The group name provided on the command line cannot be found.
Invalid action	The action for the indicated token cannot be performed.
Invalid command line	The command line specifies more than one command or is not formatted correctly.
No filename specified	The import or export filename is not specified on the command line.
VCF error in Card #	The card number for the indicated token is longer than the device configuration's variable card format allows.
VCF error in Issue Code	The issue code for the indicated token is longer than the device configuration's variable card format allows.