

DISPLAY PLUS SOFTWARE

INSTALLATION MANUAL







DISPLAY Software application

Code 97830I V04_22

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DISPLAY



TABLE OF CONTENTS

1.	INTRODUCTION	. 5
2.	INSTALLING THE SOFTWARE 5 2.1 Recommended requirements	5
3.	QUICK CONFIGURATION GUIDE	6
4.	INSTALLING THE SOFTWARE «Display»	8
5.	UNINSTALLING THE SOFTWARE «Display»	.11
6.	START - Login and Password Request Screen	.12
7.	MAIN SCREEN of the Display application	12
8.	APPLICATION SETTINGS	14
	8.1 Language	.14
	8.2 Serial port (communications port)	
	8.2.1 PC connections port (PC Interface)	.15
9.	LOGIN	.17
	9.1 Description	.17
	9.2 Add new login	.17
	9.3 Edit login	.17
	9.4 Delete login	.18
10	SITE	.18
	10.1 Description	.18
	10.2 Add new site	.18
	10.3 Edit site	.19
	10.4 Delete site	.19
	10.5 Select site	.19
11.	DIRECTORY	.20
	11.1 Description	.20
	11.2 Add or Edit directory	.20
	11.3 Delete directory	.21
	11.4 Export directory	.21
	11.5 Import directory	
	11.6 Directory format files (for export/import)	.23
12	DIRECTORY MANAGEMENT	.24
	12.1 Description	.24
	12.2 New directory (empty)	.24
	12.3 Edit directory	
	12.4.Add User	
	12.5.Edit User	
	12.6. Delete User	
	12.7 Receive directory	
	12.8 Send directory	
	12.9 Status	.31

DISPLAY



13. PANELS	31
13.1 Description	31
13.2 Test	32
13.3 Upload images	33
13.4.Date and Time	35
13.5 Firmware	35
13.6 Custom languages	36
13.6.1 File format of custom languages	37
14. PARAMETERS	38
14.1 Description	38
14.2 Calls	39
14.3 Access control	40
14.4 Screen	41
14.5 Clock	42
15. BACKUP	43
15.1 Description	43
15.2 Restore back-up copy	44
15.3 Save back-up copy	44



1. INTRODUCTION

The Display Plus software is a PC application with the aim of exchanging data with the **DISPLAY DUOX** and **DISPLAY DUOX PLUS** by FERMAX.

Via this exchange of data you can perform different operations with the **DISPLAY**, making the Display Plus software work as a tool to facilitate the installer in some of the most tedious tasks that must be performed over a keypad on the street panel where the **DISPLAY** is being installed.

Some of the operations highlighted that can be performed with the Display Plus on a **DISPLAY** are:

- Reading and writing various configuration parameters of the **DISPLAY**:
 - o Call parameters.
 - o Access control parameters.
 - o Screen parameters.
 - o Clock parameters.
- Send/receive a directory (list of users), edited on a PC.
- Various operations on the **DISPLAY**:
 - o Communication Test with the **DISPLAY**.
 - o Set date and time
 - o Loading images.
 - o Customising languages.
 - o Updating Firmware for **DISPLAY**.

In this document we will describe, for all functional purposes, all operations that can be performed on the **DISPLAY** using Display Plus.

Communication between the Display Plus and **DISPLAY** are done via a RS485 bus. Note that the Display Plus requires access to the RS485 bus via a serial port that is visible from the operating system as a «COM Port».

Display Plus uses a database where it stores information you wish to keep:

- The different logins that the application can execute.
- Configuration settings for each login (language and COM port).
- The different sites in which they are working.
- The different Directories that each site has with the list of corresponding users.

It also presents the option of importing and exporting data to different file types, with which you can store information of various forms.

Finally, you have the «backup» option to save all of your information in a single file that later can be restored in the application.

2. SOFTWARE INSTALLATION

2.1 Recommended requirements

The application has the following requirements:

- Operating System: Windows 7 or 8, 32 or 64 bits.
- RAM: 1Gb RAM (32 bits) 2Gb RAM (64 bits).
- Port: The program uses the RS-485 serial port to interact with the DISPLAY.
- Space on disc: Approximately 205 MB free for the installation, and as data is being saved, the space used will increase.

No compatible between them.						
Soft Display	Soft Display					
Plus V1.0	Plus V2.1					
Compatible with	Compatible with					
Display DUOX hasta	Display DUOX PLUS					
V21.23	desde V40.10					



3. QUICK CONFIGURATION GUIDE

Below we will indicate the steps to follow to perform the basic operations with the Display Plus application and the panels with the **DISPLAY**.

In the different points we reference later chapters where all options are described in detail.

1) Configure a communications serial port (chapter 8. Application settings/ 8.2 Serial port).

Select the serial port to be used to make the communications with the different panels, from the corresponding drop-down menu.

Select the port and check that this is the one really used. If no port is selected you can not interact with the panels, (see chapter: **13. Panels / 13.2 Test).**

2) Carry out panels test (chapter 13. Panels / 13.2 Test).

Fill in all fields in the panel's address with the values permitted in the **Test**, to test if the connection with the selected panel works. Upon testing the panel, an information exchange is performed with it, returning if correct, or if there has been a problem.

Once the communication with this panel is confirmed, select the **the current panel**, that is, the default panel.

After reaching this point, now you can use the remaining **panel options**, to configure the different values and parameters.

2a) Panels: Drop-down menu that allows you to configure various functions to interact with the panels:

- Test.
- Upload images.
- Date and time.
- Firmware.
- Custom language.

(See chapter: 13. Panels).

- **2b) Parameters**: Window that allows you to program other parameters that are not contemplated in the panel's previously mentioned drop-down menu: **Panels.** This allows you to interact with the panel to receive and send these parameters. The parameters are distributed in different selectable tabs:
 - Calls.
 - Access Control.
 - Screen.
 - Clock.

(See chapter: 14. Parameters).

IF YOU NEED TO CREATE DIRECTORIES, YOU NEED TO PERFORM THE ADDITIONAL STEPS DETAILED BELOW.

Display Plus software's work philosophy is that a site corresponds to a real installation (condominium, residential complex). Keeping in mind that a condominium can have several street panels, each with its **DISPLAY**, and each **DISPLAY** can require saving a different directory (different blocks of neighbours, general entrance), then it is easy to deduce that if the Directories are saved in their corresponding sites, the information is always easy to locate in the future. This is crucial when performing periodic maintenance of Directories on **DISPLAYS** in a real residential complex.

3) Create a new Site.

Within the Display Plus software, a site is an element that allows you to store different Directories inside (user lists).

Once created, you must select one of the sites, like **current site** (various may exist), to define these in the Directories.

(See chapter: 10. Project).



4) Create a new directory.

Add a **directory** in the Directories list, (chapter **11. Agenda)**.

To be able to create a directory, you must have previously created at least one site, so as to store large Directories within the site and establish it as a «current site.»

2a) Create Users.

Once the directory(s) on the directory list are defined, to create users you must select one and edit it. Each directory has the users. Each directory belongs to its site.

(See chapter: 12. Manage Directory/ 12.4 Add neighbour).

2b) Send Directory.

Once users are **defined** in the **directory**, they can be **sent** to the available panels, when desired, (panel selected as **current panel)**.

(See chapter: **12. Editing directory** / **12.8 Sending directory**). (See chapter: **13. Panels** / **13.2 Test**).

5) Create backup.

Save backup copies. (See chapter: **15. Backup / 15.3 Save back-up copy**

OPTIONAL

6) Create new logins and passwords.

This allows you to define the different logins and passwords used on the application. (See chapter: **9. Login).**



4. INSTALLING THE SOFTWARE «Display Plus»

You can select the application's location destination, otherwise the default installation location is C:/Archivos de programa/Fermax/Display Plus Software.



Install «Display Plus» Software for DISPLAY. You can download the manual at: www.fermax.com



Select the language via a drop-down menu (arrow). The language selected on the installer is the software's start-up language.

Software configurar	🔛 Display Plus Software configurar
Por favor seleccione un idioma: Español (España) - Aceptar Cancelar	Por favor seleccione un idioma: Español (España) Deutsch (Deutschland) English (United Kingdom) Español (España) Français (France)

Note: These start screens depend on the language of the installed operating system.





	🖞 Display Plus Software Setup
	Select Installation Folder
	This is the folder where Display Plus Software will be installed.
Default route	To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse". <u>Folder:</u> C:\Program Files\Fermax\Display Plus Software\ Browse
	Display Plus
	U Display Plus Software Setup
	B Display Plus Software Setup
	Ready to Install
	The Setup Wizard is ready to begin the installation
	Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
	Display Plus
	B Display Plus Software Setup
	Installing Display Plus Software Display
	Please wait while the Setup Wizard installs Display Plus Software.This may take several minutes. Status:
	Display Plus







🛃 Display Plus S	Software Setup			×
Installing D	isplay Plus Softwar	re		Display _{Pas}
Please wa several m		zard installs Display Plus Sof	tware. This may ta	ake
Status:	Copying new files			









5. UNINSTALLING THE «Display Plus» SOFTWARE

To uninstall the application, we must run the direct access *Uninstaller* that has created the program within the start menu / programs / FERMAX / Display Plus.



Once pressed, the following screens appear:



Note: These start screens depend on the language of the installed operating system.







Via this screen it indicates the time remaining for the complete uninstallation.

Important note: Upon uninstalling the application, the back-up copy will be deleted.



6. START - Login and Password Request Screen

Start the Display Plus Application:





To access the Display Plus application you must enter a login and password, which are set to default as:

Login: system Password: fermax	된 Access
	Login:
	Password:
	Login

Notes:

- The first time accessing use the default Login Password. Later the default values no longer have to be used if new ones are set, (see chapter **9. Logins).**
- If the login is not entered correctly, a screen appears again to re-enter the data.
- Both the login and password are case sensitive.

7. MAIN SCREEN of the Display Plus application

Once the password has been entered, the application starts up and shows the main screen.

The application comes programmed with the following structure, which is flexible and can be adapted according to the user's preferences. The application is divided into the following areas:

On the **top part** we find the application's logos along with the connected login, with a disconnect and back button to return to the access window, a drop-down menu where you can select between various sites entered to select the one you are currently operating, and finally, another field indicating the selected panel with which you will work on, except if changed manually.

Located **just underneath** we find the menu bar, where the different buttons and drop-down menus allow us to enter into the different tabs or windows, from which we perform the desired tasks.

- Logins: This allows you to define the different logins and passwords used on the application.
- **Project**: A site is a collection of files, configurations and databases which represent each of the systems in place. This allows you to add sites, change the active site (selected), edit or delete it.
- Agenda: This allows you to define the list of Directories to facilitate assigning and managing the users in different panels of the installation via the site. Each directory has a list of users. It allows you to open/consult a directory, change Directories of the current site, rename, delete and close a directory.
- Properties: relative to the selected element, it displays each of their properties.
- Incidents: contains the actions taken by the users along with the incidents received from the readers.
- Communication ports: list of serial ports through which the reader communication passes.
- **Groups**: this allows you to define the list of readers to facilitate assigning and managing the users in the different readers throughout the installation.





- **Panels**: Drop-down menu that allows you to configure various functions to interact with the panels: Test.
 - Upload images.
 - Date and time.
 - Firmware.
 - Custom language.
- **Parameters**: Window that allows you to program other panel displays that are not contemplated in the panel's previously mentioned drop-down menu. This allows you to interact with the panel to receive and send these parameters. The parameters are distributed in four tabs:
 - Calls.
 - Access Control.
 - Screen.
 - Clock.
- Backup: This allows you to save and restore backup copies.
- Application adjustments: Window with the options:
 - Language: Permits selection of the language of the application.
 - Serial Port: Allows you to select the serial port to be used to make the communications with the different panels.



As you can see in the image displayed here, the tabs marked in black correspond to the lists of Directories, sites and logins, while the tabs marked in red are other open Directories.

Display Plus v.1.0	_		C 1944	
FERMAX	Gurrent site:	Logged in: System 👌 Fermax HQ 👻 Current panel:		Display Plus
Logins 📚 Site 🖬 Directory 📮 Panels 💌 🖻 Parameters				🛢 Backup 👻 🎝 Application settings
Start Logins management × Sites × Directories × Directory I × Directory I	· *			
Filters				
Name:		Login:		
				Search 🖬 Clean
Logins list				
😮 New 📝 Edit 😑 Delete				
Name			Login	
System			system	





8. APPLICATION SETTINGS

Upon pressing this button you open a window with only two fields: Language and Serial Port.

Application settings							
Language:	English 👻						
Serial port:							
🛛 Cancel 🕑 Save							

Note: These Application Settings are independent for each Login and Password, that is, it saves the language for each Login/Password and the established port.

8.1 Language

This allows you to select the application language via a drop-down menu. Once a language is selected, the application will fully restart, closing any open tabs and returning to the start tab.

8.2 Serial port (communications port)

Communication between the Display Plus and **DISPLAY** are done via a RS485 bus. Note that the Display Plus requires access to the RS485 bus via a serial port that is visible from the operating system as a «COM Port».

That is why we must use an FERMAX RS485 adapter connected to a PC:

- Ref. 24661 USB to RS485
- Ref. 2466 RS232 to RS485.
- Ref. 1087 Tibbo + 2466 (TCP/IP to RS485).

The Serial Port field allows you to select the serial port to be used for communications with the different panels via a drop-down menu. Appears on the list. It is very important to select the correct port, since if there is no selected port we can not interact with the panels, *(see chapter: 13. Panels / 13.2 Test)*.

• Serial Ports: connectors via a real serial port (or virtual, USB, Tibbo, etc).

Previous considerations if using the TIBBO adaptor:

Important Note:

For the **Tibbo** to function properly, when installed, the following parameters must be configured: **Speed (Baud Rate)**: 115200.

• Parity: no parity.

See the Tibbo Manual code. 94571. * See detail.

* Detail: TIBBO: DS Manager-> Settings / Serial Port

VSP Manager-> VSP Properties

You need to configure the port as UDP:

🌀 DS Manager	A A EV		Tibbo Virtual Serial Port (COM2) Properties
Access mode:	Settings: DS <v3.70+nl></v3.70+nl>		
Local Device Se	Network Connection Serial port Outbound packets All	Refresh	VSP Properties Control Lines Default Serial Settings
Eddar Device Se	Serial interface 2- Automatic	Treffesti	VSP name: COM2 For user: jzaragoza
	RTS/CTS flow control 0- Disabled or remote		
Status M.	DTR mode 0- Idle or remote	Settings	Networking
200 0.2		Upgrade	Transport UDP Transport TDI (default)
(□) 0.2 □ 0.2	1 2400 bps 7		provider.
20.2	Data bits 2- 4800 bps 3- 9600 bps	Initialize	Routing Client Client Connection Immediatly
	Soft entry into Serial programn 4-19200 bps	Routing Status	
	Escape character (ASCII or 5- 38400 bps	Buzz!	On the fly Disabled OTF index:
	On-the-Fly commands 6-57600 bps	Duzzi	commands:
	Password for on-the-Fly con 7-115200 bps	Change IP	Listening 1001 Connection 5
	Notification bitmask 0		port: timeout:
		Add	
			Destination
			Specify by: IP-address Browse for DS
			IP-address: 172.30.250.150 : 1001
46	Save Load Password OK Cancel		Aceptar





8.2.1 PC connections port (PC Interface)



Interface PC ref. 2466









General installation



Note: The panels' address must be configured previously on the panels themselves (DISPLAY)



)





9. LOGINS

9.1 Description

This allows you to define different logins and passwords to access the application, (with a maximum of 10 logins).

Upon pressing the **Logins** button open the **Manage logins** tab, which is divided in a **Filters** field on the upper part and **Logins List** on the lower part.

Once you open the tab, a list of all of the existing logins in the database appears. Here we find the buttons allowing to add a login, edit an already created login, or delete a login.

Upon filling in any field on the filters part and pressing the search button, it searches the database only showing the information fulfilling said requirements.

Display Plus v.1.0				
FERMAX	Current site:	Logged in: marivi 😃 		Display Plus
🛓 Logins 📚 Site 🗧 Directory 📮 Panels 👻 🖺 Parameters				😫 Backup 👻 🏠 Application settings
Start Logins management				
Filters				
Name:		Login:		
				Search 🗄 Clean
Logins list				
😮 New 🔀 Edit 🤤 Delete				
Name			Login	
System			system	
marivi			marivim	

9.2 Add new login

Allows you to add new logins and passwords.

Upon pressing the new button, a window opens entering the new login data:

- Name: Screen name.
- Login: The login with which you will enter the application.
- Password: Password, minimum of 4 characters and maximum of 8.
- Password confirmation. Re-enter to confirm.

Once they are entered, just press the Save, button to add them to the database and show them in a list.

New login								
Name:*								
Login:*								
Password:*								
Repeat password:*								
	8	Cancel		Save				

Note: Both the login and password are case sensitive.

9.3 Edit login

This allows you to edit the existing logins: logins and passwords.

You can change the Name and Login fields and if you want to change the password, you have to enter the current password along with the new password twice.

Edit login	
Name:*	marivi
Login:*	marivim
Old password:	
New password:	
Repeat password:	
	🗴 Cancel 📀 Save





9.4 Delete login

This allows you to delete the existing logins.

To delete a user, just select it and press the delete button, except if a login with which we have opened the application. A window appears to confirm the action.



10. SITE

10.1 Description

A site is a collection of files, configurations and databases which represent each of the systems in place. This allows you to add sites, change the active site (selected), edit or delete it.

Within the Display Plus software, a site is an element that allows you to store different Directories inside (user lists), (see chapter **11. Agenda**).

Upon pressing the **Logins** button open the **Manage logins** tab, which is divided in a **Filters** field on the upper part and **Sites List** on the lower part.

Upon filling in any field on the filters part and pressing the search button, it searches the database only showing the information fulfilling said requirements.

In the lower list it shows the information pertaining to the different sites. It indicates which is the **selected site** currently marked with a **«tick»** in the selected **column.** It also shows the currently selected site name in the upper part of the application.

The **selected site** displayed on the upper part, if you want to change it for another one, just select it via the drop-down menu.

Display Plus v.1.0				Current site:	test 1	
FERMAX		Current site:	Logged in: marivi	anel: DUOX:00.aa.00		Display Plus
		Current site:	test 1 Current p	aner: DUOX:00.aa.00		
👗 Logins 📚 Site 📲 Director	ry 📮 Panels 👻 🛃 Parameters		SKYLINE General			😫 Backup 👻 🏠 Application settings
Start 😂 Sites ×			test 1			
Filters						
Tillers						
Name:			Descripti	ion:		
						Search 🖬 Clean
Sites list						
🕄 New 🖌 Edit 😑 Delete						
Name	Description			Address		Selected
Fermax HQ	HQ			Avd. Tres Cruces 133		
SKYLINE General	Skyline					Ô
test 1	test					

10.2 Add new site

This allows you to add new sites.

Upon pressing the new button, a window opens for entering the new site data:

- Name.
- Description.
- Address.

Once the data is entered, just press the save button, and the information is saved in the database, loading the list and showing the changes made.

New site	Address
Name:*	
Description:*	
Address:	
	🗴 Cancel 📀 Save



Note: You can not enter two sites with the same name into the system. Upon trying to do so, an exclamation point appears next to the name, as a warning.

New site	
Name:*	Fermax HQ 9
Description:*	HQ • The site name already exists
Address:	Avd. Tres Cruces 133
	Save Save

10.3 Edit site

This allows you to edit an existing site.

Once the data is changed, just press the save button, and the information is saved in the database, loading the list and showing the changes made.

New site	
Name:*	Fermax HQ
Description:*	HQ
Address:	Avd. Tres Cruces 133
	🗴 Cancel 🕑 Save

Note: You can not enter two sites with the same name into the system. Upon trying to do so, an exclamation point appears next to the name as a warning. The application allows you to edit a site and save it with the same name it previously had, the restriction occurs when trying to change a site name with another already existing one.

10.4 Delete site

Here you can delete the existing sites.

To delete a site just select it and press the delete button. A window appears confirming the action, if accepted, a second window appears indicating that the upon deleting the site all associated directories and users will be deleted.



10.5 Select site

Here you can establish the current site. Via the drop-down menu you can select/change the current site, see in the previous page **10**. **PROJECT / 10.1 Description**. Once the change has been made, all open directory tabs are closed, since they depend on the site being worked on.







11. DIRECTORY

11.1 Description

Here you can manage the directories lists for each site. Each directory has a list of users. You can open/ see, rename, delete and close a directory.

Upon pressing the **Directory** button open the **Manage Directories** tab, which is divided in a **Filters** field on the upper part and **Directories List** on the lower part. The Directories that can be viewed correspond to the **current site**. If the current site has a directory, it is displayed in the list upon entering, otherwise it is empty.

Upon filling the field on the filters part and pressing the search button, it searches the database only showing the information fulfilling said requirements.

In the lower list, all directories are shown organized according to the selected preference; by default they appear in alphabetical order and ten per page. The new, edit and delete buttons are also displayed.

Note: To be able to create a directory, you must have previously created at least one site and have established it as a «current site», to be able to store the directories within said site, (see chapter **10. Site)**.



Note: Under the buttons we find the titles of the columns where it displays the information. These fields can be organized in ascending, descending order, be shown or hidden and also change in size. To change the size just place the cursor at the border of two fields, you can then see how to change it with horizontal arrows, then you can left click and move the field to the desired location. Both for organizing and displaying or hiding, just press the arrow to the right of the field and select the desired option.

Display Plus v.1.0			
FERMAX	Current site: test 1 v Cur	n ಲ	Display
🛓 Logins 📚 Site 📳 Directory 🔒 Panels 💌 🖪 Parameters			🛢 Backup 👻 🎝 Application settings
Start Directories ×			
Filters			
Name:			
			👂 Search 🛅 Clean
Directories list			
😮 New 📝 Edit 🤤 Delete			🖪 Export 📑 Import
Name	▼ Date	Site	
Directory 1 test	↑ Sort Ascending	test 1	
Directory 3	↓ Sort Descending	test 1	
GE 1 Directory	🔝 Columns 🕨 🗹 Name	test 1	
GE Directory	17-5-2016 🗹 Date	test 1	
	✓ Site		

11.2 Add or Edit directory

To add or edit directories.

Upon pressing the **new** button, a new tab opens up, to the right of the existing ones, in the field enter **name** and press **save**. Adds a directory to the **Directories list**.

Page 20





Display Plus v.1.0										
FERMAX	Gurrent site:	Loi test 1	gged in: System 🍐							Display
🛓 Logins 📚 Site 📓 Directory 📱 Panels 👻 🖪 Parameters										🛢 Backup 👻 🏟 Application settings
Start Directories New directory										
Name:			Site:	test 1						
Users list										
😮 New 📝 Edit 😑 Delete 😑 Delete all							:	Status:	New	
Name Call Code Unit	Access Code	Pin Code	Proximity code		Show	Filtered	Extra info		Text	Image
Display Plus v.1.0										
FERMAX	Current site:	Loi test 1	gged in: System 😃 v Current panel:							Display
🛓 Logins 📚 Site 📱 Directory 📱 Panels 👻 🖪 Parameters										🛢 Backup 👻 🏠 Application settings
Start Directories × D New directory ×										
Name.* Fermax			Site:	test 1						
Users list										
😮 New 💉 Edit 😑 Delete 😑 Delete all							:	Status:	New	
Name Call Code Unit	Access Code	Pin Code	Proximity code		Show	Filtered	Extra info		Text	Image
<pre>《{ < Page o of 0 > >> C</pre>										No data to display

Selecting a directory (from **List of directories**), if you press **edit** you can edit its name and user lists, (*developed in chapter* **12**. **MANAGE DIRECTORY**).

11.3 Delete directory

Here you can delete the existing directories.

To delete a directory just select it and press the delete button. Besides deleting the directory from the database, you are deleting the different users that only belong to said directory.

Confirm	n 😵
?	Are you sure you want to delete the selected record?
	Yes No

11.4 Export directory

Allow you to export directory.

To export a directory just select it and press the export button. Doing so will open a window indicating the file name desired along with the format in which you want to export it. You can choose between «.csv» and «.xls», (see chapter **11.6 Directory File Format**). Once selected, press the export button and start the procedure. The window will close and once completed, a message will appear indicating if it has completed correctly or not.



DISPLAY



If correct, it indicates that the file is in the «directories» folder within the application's folder. The default location is: C:\Archivos de programa\Fermax\Display Plus Software\directories.

Note: The exact route by default depends on the operating system's language and the bits (32/64).

CO V 📔 🕨 Equipo 🕨	OS (C:) + Archivos de programa + Fermax +	Display Plus Software	 directories 		•
Organizar 🔻 Incluir en l	biblioteca 🔻 Compartir con 🔻 Grabar	Nueva carpeta			
☆ Favoritos	Nombre	Fecha de modifica	Тіро	Tamaño	
Oreative Cloud Files	Directory 2	17/05/2016 8:05	Microsoft Excel 97	62 KB	
🗼 Descargas					
📃 Escritorio					
ConeDrive					
Sitios recientes					

Note: One of the most common reasons for not exporting correctly is having open the «.csv» or «.xls» file we are wanting to export to.

11.5 Import directory

Allow you to import directory.

To import a directory just select it and press the import button. A window appears where you select the file with the directory data. Upon performing this operation, we create a new directory, within the **Current site**. You must be careful with **not repeating names** within the same site. The name to be assigned is not the file name, it is the existing name in the first row of the first column of the file to import **DIR_NAME**, *(See chapter 11.6 Directory files format).*

Import	Import
File:*	File:* Directory 2.xls

Once you have selected the file, press the import button, the window will close and it will save the data on the database. Upon completing this, it will notify you of the result, keeping that it can not have the same name as an already existing directory.

For example, **directory 2** file was exported in the previous chapter, so to import it, you must change the text on the first row of the column DIR_NAME.

x		Ŧ						Directo	ory 2 [Modo de compatil	bilidad] - Excel
ARG	CHIVO INICIO	INSERTAR	DISEÑO DE PÁGINA FO	ÓRMULAS D	ATOS	REVISAR VISTA	COMPLEMENTOS	Acrobat		
	Cortar	Calibri	• 11 • A A	= _ è	97 -	🛱 Ajustar texto	General	▼	Normal	Buena
	gar 💉 Copiar forma	ato N K	<u>s</u> • <u>•</u> • <u>•</u> •		ΞŧΞ	🗄 Combinar y centrar 🔹	₽ • % 000 €0	oo Formato [→0 condicional * c	Dar formato como tabla +	co Celda
	Portapapeles	F ₂₁	Fuente 🖓		Alir	neación G	Número	G.		
C	l6 - :	$\times \checkmark$	fx							
	А		В	С		D	E	F	G	F
1	DIR_NAME	NEI_NAME		NEI_VISIBLE		NEI_FILTERED	NEI_CALL_CODE	NEI_UNIT	NEI_ACCESS_CODE	NEI_PIN_COD
2	Directory 2	Paul Smith		VERDADE	RO	FALSO	000101	000001	223344	null
3	Directory 2	Rafa Nadal		VERDADE	RO	FALSO	000102	000002	null	null
4	Directory 2	Yaga Seelan		VERDADE	RO	FALSO	000103	000003	123654	null





Once changed, for example: **directory 2 test**, you can select the file and press the import button. Upon completing it, it notifies you of the result.

🕅 🗖 5 · e ·								Directory 2 [Mo	ido de compati	bilidadi - Exci	el
🕼 д 🍤 🕈 🗟 🗸		DISEÑO DE PÁGINA	FÓRMULAS D	ATOS	REVISAR VISTA	COMPLEMENTOS	Acrobat	Directory 2 find		sindadj Ele	
Cortar									Namual	Du	
Copiar -	Calibri	- 11 - A			🛱 Ajustar texto	Texto	E	F 5	Normal		iena
egar 💉 Copiar forma	ato N K	<u>s</u> - 🖾 - 💆 - 🖊	<u>▲</u> - = = = •	e 🖅	Combinar y centrar	· · · · · · · · · · · · · · · · · · ·		rmato Dar form icional = como tab		co Ce	lda vincul
Portapapeles	Fa	Fuente	Gr.	Alinea	ación	Número	Fai				Est
33 🔻 :	$\times \checkmark$	fx									
А		В	С		D	E	F	-	G		н
DIR_NAME	NEI_NAME		NEI_VISIBLE	N	NEI_FILTERED	NEI_CALL_CODE	NEI_UNIT	NEI_A	CCESS_CODE	NEI_PIN_	CODE
Directory 2 test	Paul Smith		VERDADE		FALSO		000001	22334	1	null	
Directory 2	Rafa Nadal		VERDADE	RO	FALSO	000102	000002	null		null	
Directory 2	Yaga Seelan		VERDADE	RO	FALSO	000103	000003	12365	1	null	
			Directo	ory succ	Cessfully imported Di	rectory 2 test					
			Directo	-		L3					Displäÿ
ERMAX	ry 📮 Panels v	Parameters		-	OK	L3					
ermax		Parameters		-	OK	L3					Display
ERMAX		Parameters		-	OK	L3					Display
ERMAX		Parameters		-	OK	L3				🔮 Bactup 👻	Display
Logina Sila Director ti Directoriss 2010 Itters Name: rectories list		Parameters		-	OK	L3				Backup +	Application s
Logins Sile Directories It Directories 0 to 10 Ilters Name: Prectories list Prectories list Control Control Cont		Parameters	Gurer	-	OK	L3				Backup +	Display
		Parameters		-	OK	L3	Site			Backup +	Application s

11.6 Directory format files (for export/import)

Both the «.xls» and «.csv» files have the same format. The first row are the headers of the different columns, the other rows indicate a neighbour in each one. The only necessary name for the directory is the first row of data in the DIR_NAME column, since once it is created, you don't need this field, but the there must be a first one. We must also remember that both the neighbour name field (NEI_NAME) and unit name (NEI_UNIT) are required fields when entering neighbours into the database, so that if they remain empty, their insertion will fail, or for a unit, the neighbour in question will be passed up. The table has eleven columns:

- 1. Directory name: (DIR_NAME).
 - a) The name entered into the directory, once imported, is the name of the first row of data in the DIR_NAME column. See the example in chapter **11.5 Import directory**.
- 2. Neighbour name: (NEI_NAME).
- 3. Neighbour visibility. (NEI_VISIBLE).
- 4. Filtering. (NEI_FILTERED).
- 5. Call Code. (NEI_CALL_CODE).
- 6. Unit. (NEI_UNIT).
- 7. Access code. (NEI_ACCESS_CODE).
- 8. PIN CODE. (NEI_PIN_CODE).
- 9. Proximity Code. (NEI_PROX_CODE).
- 10. Extra information identifier. (DEI_ID).
- 11. Extra information text. (NEI_EXTRA_INFORMATION_TEXT).
- 12. Extra information image. (NEI_EXTRA_INFORMATION_IMAGE).





🗱 🖯 🏷 🗟	- -				Director	ry 2 [Modo de compatib	pilidad] - Excel					? 🗉 – 🗗 🗙
ARCHIVO INICIO	INSERTAR DISEÑO DE PÁGINA FÓ	RMULAS DATOS	REVISAR VISTA 0	COMPLEMENTOS	Acrobat							TE - Mariví Moreno 👻 🔍
Cortar	Calibri • 11 • A* A	= = = 😽 -	🖶 Ajustar texto	Moneda	• *	Normal	Buena	Incorrecto 1	Veutral Cálculo	- 📪 환 🧊	Autosuma	Žy 👬
Pegar 💉 Copiar form	ato N K S * 🖽 * 🖄 * 🗛 *	=== = = = =	🔛 Combinar y centrar 🔹	S - 96 000 58	Formato D condicional * co	ar formato omo tabla *	co Celda vincul	Entrada	Hipervinculo Hipervinculo	Tinsertar Eliminar Forma	to e Borrar *	Ordenar Buscary y filtrar * seleccionar *
Portapapeles	G Fuente G	Alir	neación 🕞	Número	6		Estilos			Celdas		Modificar A
M22 *	$\times \checkmark f_x$											~
A	в	с	D	E	F	G	н	1	J	к	L	M
1 DIR_NAME	NEI_NAME	NEI_VISIBLE	NEI_FILTERED	NEI_CALL_CODE	NEI_UNIT	NEI_ACCESS_CODE	NEI_PIN_CODE	NEI_PROX_COD	E DEI_ID	NEI_EXTRA_INFORMATIO	NEI_EXTRA_INF	DRMATION_IMAGE
2 Directory 2 test	Paul Smith	VERDADERO	FALSO	000101	000001	223344	null	null	null	null	null	
3 Directory 2	Rafa Nadal	VERDADERO	FALSO	000102	000002	null	null	125423689	null	null	null	
4 Directory 2	Yaga Seelan	VERDADERO	FALSO	000103	000003	123654	null	null	null	null	null	

Note: Export/Import directory: Format .csv. You can edit an exported directory file from Display Plus by using an external editing tool. In this case, if you respect the file format, described in section **11.5 Import directory**, you can import the new directory file into Display Plus.

If you are using EXCEL to edit the file, we recommend working with the .xls format when exporting (format native EXCEL), and not the .csv file, since if exporting a directory as .csv and editing in EXCEL, when you save the changes you may have importing errors in Display Plus, since EXCEL changes the .csv file's data, like deleting the zeros on the left and considering them as «numbers.» This can occur frequently in the following fields: Unit, Call code, Proximity code, PIN code, etc., which may have zeros to the left of its value.

12. MANAGE DIRECTORY

12.1 Description

Here you can edit the user list for each directory. Assign, manage and user data, along with the each directories name.

By pressing the **Edit** or **New** button in the **Directory List** we reach the directory editing. See chapter 11. DIRECTORY / 11.1 Description.

FERMAX	Logged in: System 🔮 Current site: test 1 👻 Current panel:		Display
Logins 📚 Site 🛛 D ectory 📮 Panels 💌 隆 Parameters			😫 Backup 👻 🎝 Application setting
art Directories			
Filters			
Name:			
			Search 🖬 Clean
Directories list			
😮 New 📝 Edit 🤤 Delete			🖪 Export 🖪 Impor
Name	Date	Site	
Directory 1 test	17-5-2016	test 1	
Directory 3	17-5-2016	test 1	
GE 1 Directory	17-5-2016	test 1	
GE Directory	17-5-2016	test 1	

12.2 New directory (empty)

If this is a new directory, the list of users is empty. In **site** it will show the current site.

Note: You must fill in the field **name** and press **save** to continue.

The screen is divided into several fields. In the upper part: **Name** of the directory and the**Site** it belongs to, in the middle is the **User list** of the directory and on the bottom the **Receive, Send** and**Save** buttons.

Note: The Name of the directory must be unique within the set of existing directories in the selected site.

Display Plus v.1.0			Gurrent site:	Log test 1	ged in: System 🔱 👻 Gurrent panel:							lay _{Plus}
	tory 📱 Panels 👻 🖪 Pa	arameters									🛎 Backup 👻 🎝 App	lication settings
Name:* Directory	2				Site:	test 1						
Users list												
😯 New 📝 Edit 😂 Delete	e 😑 Delete all								Status:	New		
Name	Call Code	Unit	Access Code	Pin Code	Proximity code	SI	now	Filtered	Extra info	Text		Image
Receive Send	> » C											io data to display 🧭 Save





12.3 Edit directory

If you are editing the directory, all information associated to it in the database appears: name and different users linked to the directory.

The screen is divided into several fields. In the upper part: **Name** of the directory and the **Site** it belongs to, in the middle is the **User list** of the directory and on the bottom the **Receive, Send** and **Save** buttons.

FERMAX			Current site		ged in: System 👌					Display
Logins Site	Directory Panels - P	Parameters								😫 Backup 👻 🖨 Application set
	ectory 2 test				Site:	test 1				
sers list										
🖰 New 📝 Edit 😑	Delete 🗧 😑 Delete all							Status:		
ame	Call Code	Unit	Access Code	Pin Code	Proximity code	Show	Filtered	Extra info	Text	Image
aul Smith	000101	000001	223344							
ifa Nadal	000102	000002			125423689					
aga Seelan	000103	000003	123654			\checkmark				
	L ₂									

12.4.- Add user

Here you can enter the user data, with name and unit as required fields. The maximum number of users per directory is 10000.

The fields are:

- Name: User name. You can use up to 16 characters of any type.
- Unit: Unit Number. Only up to 6 digits.

Note: Note: If the system is VDS or BUS2 the maximum number of digits is 3 (1...199) and if DUOX you can reach up to 6.

- Call codes: Encoding the calls with any character up to a maximum of 6 (mapped).
- Proximity codes: Personalized access code with a proximity card. This field should always have 9 digits.
- PIN code: Additionally you can combine the validity of user devices with a keypad entered PIN code. This
 code should always have 4 digits.
- Access code: Personalized access code with a keypad. Only up to 6 digits.
- Show: Only the units in the Directory with this option selected can be called (users), see **14.2 Calls,** Call *Filter section.*
- Filtered: In combination with the restricted call option it allows you to filter or restrict the call to certain users. See **14.2** Calls, Restricted call section.
- Extra information: Fields for extra information: Action, Text and Image.

• Action: Type of action with which the information is viewed: Never, Call, Door opening (from the unit) or Directory (Text or Image).

• Text: Text that appears.

Image: To select the image that appears. Up to 10 images (A1... A10). Slots A1... A10, are reserved for loading images that can be shown as each user's extra information. These images would have been previously loaded **13**. **Panels / 13.3 Upload images**.

Note: In general, for more information on the fields discussed above see chapters 14. Parameters/ 14.2 Calls / 14.3 Access Control / 14.4 Screen.





New user		
Name:*		Unit:*
Gall Code:		Proximity code:
Access Gode:		Show:
Pin Code:		Filtered:
- Extra informatio	n	
Action:	Ψ	Text:
	Never Gall	Image:
	Door opening Directory	Cancel Save

W W MW	1.111.57.555		far .	011011	
New user					
Name:*		Unit:*			
Gall Code:		Proximi	ly code:		
Access Code:		Show:	\checkmark		
Pin Code:		Filtered			
Extra information –					
Action: Ga	uli 👻		Text:		
			Image:	1	-
			× Cancel	A1 A2	
			o Galloci	A2 A3	
				A4	
				A5	
				A6	
				A7	
				A 8	
				A9	
				A10	

Note: If you have an incorrect value, the application will display it by marking it with a red rectangle and by placing the cursor above it, where you can see the error in question.

New user			
Name:*	Fernando Alonso	Unit:*	
Call Code:		Proximity code:	
Access Code:	15935741	Show:	
Pin Code:		The maximum I field is 6	ength for this
– Extra informati	n		
Action:	Gall 👻	Text:	
		Imag	e:
		8	Cancel Save





plus

		Name:*	Fernando Alc	onso	Unit:*		C	000004						
		Call Code:	000104		Proximi	ty code	e :							
		Access Gode:	159357		Show:		\checkmark	1						
		Pin Code:			Filtered	Ŀ]						
		- Extra informatio	n											
		Action:	Gall	*		Те	ext:							
						Im	age:			*				
						8	Са	ncel	Sa Sa	ave				
v.1.0														
MAX			Gurrent site:	Loggi test 1	ed in: System 🅑 v Gurrent panel:								Displ	ay Plue
Site Direc	tory 📱 Panels 👻 🖪 I	Parameters										🛢 Backup	🗸 🗸 Applica	ation setting
lirectories × 🗰	Directory 2 test													
Directory	2 test				Site:	test 1								
													l i	
t 😑 Delete	😑 Delete all								Status:	Mod	lified			
	Call Code	Unit A	ccess Code	Pin Code	Proximity code		Show	Filtered	Extra info		Text			Image
	000104	N 000004 18	59357						Gall					
	000101	000001 22	23344				M							_

12.5.Edit User

Here you can edit the user data.

It can be done in two ways:

- 1) Press on the user field you want to change, and this enables it to be modified. It automatically saves it upon completion.
- 2) Select the **edit** button to open a window like the add user window, but to edit data, see **12.4 Add user** for more information on the fields.







12.6. Delete User

This allows you to delete users (entries).

It can be done in two ways:

1) Individually: Select the user entry to delete and press **delete**, a screen appears confirming the action. It automatically deletes the entry upon completion.

2) All: There is a **delete all** button which deletes all users, but does not change the directory name.



12.7 Receive directory

This allows you to receive a panel's directory (DISPLAY).

Upon pressing the **receive** button a window opens where a panel appears with the current panel address if you have selected one or with the empty fields. *To assign current panel see chapter:* **13.** *Panels /* **13.2** *Test.*

Display Plus v.1.0												
FERMAX			Current site;	Logg test 1	ed in: System ()	X-00 & A 00					Disp	oläÿ _P
			Gurrent site.	lest 1	Current panel: DOOX	X:00.AA.00	<u> </u>				-	
Logins Site Directory		ters									🛎 Backup 👻 🏠 Ap	plication set
art 🔛 Directories × 🛍 Dir	rectory 2											
lame:* Directory 2					Site:	test 1						
Jsers list												
🖰 New 📝 Edit 🤤 Delete (😑 Delete all								Status:			
lame	Call Code	Unit	Access Code	Pin Code	Proximity code		Show	Filtered	Extra info	Text		Image
<pre>(</pre>	>>> C										Showing	g records 1 -
Receive Send												Sav Sav
ge 28												





Receive directory	
Panel address — System Panel Block	▼
Sub block	
Name:*	Directory 2

A field also appears where you can put the name you want for the received directory. Once the necessary information is filled and valid, press the **receive** button. A downloading message appears that blocks the rest of the application.

Panel address					
System		DUOX			-
Panel		00		N	
Block		AA		3	
Sub block		00			
Name:*	GE 1 Dire	ctory			
				Cancel	• Receive
eceive directory				8 Cancel	• Receive
eceive directory Panel address System		DUOX		8 Cancel	• Receive
Panel address		DUOX		8 Cancel	
Panel address — System				8 Cancel	
Panel address System Panel		00	کی Loading	8 Cancel	

Once the process is complete, the list appears with the existing users in the device, along with the already existing ones on the directory, if any, or if there has been a problem in this action. If negative, the **receive directory** screen is hidden and all fields are emptied.

FERMAX			Gurrent site:	Logg test 1	ged in: System 😃	:00.AA.00				Display _{Pl}
Logins 😂 Site 📱	Directory 📱 Panels 👻 🖪 Pa	rameters								🛢 Backup 👻 🎝 Application setti
art 📕 Directories	Directory 2 test									
lame:* EG	1 Directory				Site:	test 1				
sers list										
🕄 New 📝 Edit 😑	Delete 😑 Delete all							Status:		
Name	Call Code	Unit	Access Code	Pin Code	Proximity code	Show	Filtered	Extra info	Text	Image
	000104	000004	159357			~		Call		
ernando Alonso		000001	223344			\checkmark				
	000101				125423689	1				
Fernando Alonso Paul Smith Rafa Nadal	000102	000002			120423005	~				





12.8 Send directory

This allows you to send a panel a directory (DISPLAY).

Upon pressing the send button a window opens where a panel appears with the current panel address if you have selected one or with the empty fields. *To assign current panel see chapter: 13. Panels / 13.2 Test.*

ERMAX												
			Gurrent site		ged in: System (b) 	DUOX:00.AA.00	1					Display
gins 📚 Site 📱	Directory 🔒 Panels 👻 🖪 P	Parameters										🛢 Backup 👻 🏠 Application sett
Directories	Directory 2 test											
e:* Dire	ctory 2 test				Site:	test 1						
rs list												
	Delete 😑 Delete all								s	tatus:		
e	Call Code	Unit	Access Code	Pin Code	Proximity code		Show	Filtered	Extra info		Text	Image
ndo Alonso	000104	000004	159357				2		Gall			
Smith	000101	000001	223344									
Nadal Seelan	000102	000002	123654		125423689		2					
	of1 》》 C											Showing records 1 - 5
eceive Send	.											Save
eceive Send		Send directo	ory							-21		Save
eceive Send		Send directo										🚱 Sav
eceive Send										×Ci		🚱 Sav
Send Send		Panel add System								~ ~		🚱 Sav
Send Send		Panel add								×		🚱 — Sav
Send Send		Panel add System Panel								×		🚱 — Sav
Send Send		Panel add System										🧭 Sav
Send Send		Panel add System Panel								~		Sav
Send Send		Panel add System Panel Block Sub	tress	Dry 2 test						~		Sav

Once the necessary information is filled and valid, press the **send** button. A loading message appears that blocks the rest of the application.

When it finishes, it displays a message indicating if it has worked, or otherwise if there was an error. If satisfactory, the existing users in the selected panel are deleted and the new ones from the selected directory are inserted.

Send directory				
Panel address				
System	DUO	<		(W)
Panel	00			
Block	AA	37.5		
Sub block	00	Loading		
Name:	Directory 2 test			
			S Cancel	Send

Warning 😵
The panel will restart to update the changes
ок





12.9 Status

This field indicates the directory's status.

There are four possible status':

- New: This is displayed upon creating the directory.
- Changed: This is displayed when a directory has changed a user data.
- Received: This indicates that the directory in question has been received from a panel.
- Sent: This is when the directory has been sent to a panel.

The field is in the row of buttons above the list, on the right of the screen.

Display Plus V.1.0										
FERMAX			Current site:	Logo test 1	ged in: System 🙂)X:00.AA.00				Display
👗 Logins 📚 Site 📮 Direc	tory 🔓 Panels 👻	Parameters								🛢 Backup 👻 🎝 Application settings
Start 🛛 Directories × 🛾	Directory 2 test									
Name:* Directory	2 test				Site:	test 1				
Users list										
😗 New 📝 Edit 😑 Delet	e 😑 Delete all							Status:	Modified	
Name	Call Code	Unit	Access Code	Pin Code	Proximity code	Show	Filtered	Extra info	Text	Image
Fernando Alonso	000104	000004	159357		,			Gall		
Paul Smith	000101	000001	223344			<u></u>				
Rafa Nadal	000102	000002	La la	_	125423689					
Yaga Seelan	000103	000003	123456							
Display Plus v.1.0			selected field							
FERMAX			Current site:	Logg test 1	ed in: System 🌵 v Gurrent panel: DUC	X:00.AA.00				Display Plus
🛓 Logins 📚 Site 📮 Direc	tory Panels -	Parameters								🛢 Backup 👻 🏟 Application settings
Start Directories ×	Directory 2 test									
Name:* Directory	2 test				Site:	test 1				
Users list										
🕃 New 📝 Edit 🤤 Delet	e 😑 Delete all							Status:	Modified	
Name	Call Code	Unit	Access Code	Pin Code	Proximity code	Show	Filtered	Extra info	Text	Image
Fernando Alonso	000104	000004	159357					Gall	T	
Paul Smith	000101	000001	223366			\checkmark				
Rafa Nadal	000102	000002			125423689	\checkmark				
Yaga Seelan	000103	000003	1234			\checkmark				
		[changed field							
13. PANE	LS		unanged held]					

13.1 Description

Drop-down menu that allows you to perform different actions on the panels displays:







13.2 Test

This allows you to test for a connection/communication with a panel (DISPLAY).

Screen with different fields concerning the **Panel address**:

- System: Drop-down menu to select the type of system we are using: VDS or DUOX.
- Panel: You must enter the panel number, as it is configured. (2 digits).

Depending on the system, the range of values is:

- DUOX: 00...09.
- VDS: 00...31.
- Block: Enter the block number the panel belongs to. (2 digits).
- DUOX:
 - o If a panel belongs to a Block (block number): 00...99.
 - o If a panel belongs to a General Entrance: AA.
 - If a panel belongs to a Sub-Block (block number it belongs to): 00...99.
- VDS: 00.
- Sub block (2 digits):
- DUOX:
 - o If a panel belongs to a Block: 0A.
 - o If a panel belongs to a General Entrance: 00.
 - o If a panel belongs to a sub-block (sub-block number): 00...99.
- VDS: 00.

Once all fields are entered with permitted values, we can **test** if the connection to the selected panel is ok, and **select** the **panel as current**. Upon testing the panel, an information exchange is performed with it, returning if correct, or if there has been a problem.

Panel address System DUOX Panel Blook Sub block Select Select	Panel address System DUOX Panel O Block AA Sub Do Block Status Cancel Select To establish the panel as correct comu (green bar)	Panel address System DUOX Panel D1 Block AA Sub DO block OD Status Select Cancel Select There has been a problem munication (red bar)
FERMAX Logins Site Directory Panels - Parameters Start	Current site Image of the State Tournet site Current pare: DUX:00.AAC DISSOBOO O DISSOBOO O O O <th>Displäy_{Plus} Bactup - Application settings</th>	Displäy _{Plus} Bactup - Application settings



13.3 Upload images

This allows you to send an image to a panel (DISPLAY).

Screens with different fields concerning **Panel Address** on the top and others about **Images** on the bottom.

For more details and explanations about the fields for **Panel address**, see chapter **13.2 Test**.

The fields about Images:

- File: To select a file to upload.

Note: In Display DUOX up to version 21.23, the file must have specific characteristics: the height must be 240px, the width must be 320px, the format must be «.bmp» of type r5g6b5, the maximum size must be 153606 bytes and the image depth must be 16 bits per pixel.

In Display DUOX PLUS from version 40.10, the file is the same except that the depth must be 24 bits per pixel.

- See preview: View a preview of the selected file.
- Slot: To select the slot where the image is saved, with 4 slots in standby (S2...S5) and 10 in action (A1... A10):
 - S2...S5: These slots are reserved to load images that can be displayed sequentially when the display is in standby, see **14.4 Screen**.
 - A1...A10: These slots are reserved to load images that can be shown as extra information for each user, configurable from the directory, see12. Manage directory / 12.4 Add user.

nages						
Panel address	5					
System	DUC	X		~		
Panel	00					
Block	AA					
Sub	00					
block						
File:*			Preview			
Slot:*						
3101.	S2 - standby 2					
	S3 - standby 3		Cancel 😑	Send		
	S4 - standby 4	The slots S2S5 are reserved for loading the				
	S5 - standby 5	images that can be show sequentially while the di	wn			
	A1 - action 1	is at idle condition				
	A2 - action 2		Images			
			System Panel Block Sub block		DUOX 00 AA 00	 •
			File:*			Preview
			Slot:*		-]
			0.0.1	S2 - standby 2	2	
				S3 - standby 3		😣 Cancel 😔 Send
				S4 - standby 4	1	
				S5 - standby §	5	
				A1 - action 1		
				A2 - action 2		The slots A1A10 are
				A3 - action 3		reserved for loading the images which can be shown
				A4 - action 4		as Extra Information for each user, settable from the
				A5 - action 5	L	Directory section
				A6 - action 6		Dee





With all fields complete, you can press the **send** button and loading message appears, upon completing the process a window appears indicating its result. If satisfactory, the panel restarts.

Images	
- Panel address	
System	DUOX -
Panel	00
Block	AA
Sub block	00
File:*	00 IMAGEN SKYLINE.bmp
Slot:*	S2 - standby 2 • SKYLINE
	INFINITE POSSIBILITIES
	S Cancel Send

- Panel addres	6		
System		DUOX	7
Panel		00	
Block		AA	
Sub block		00	
		Buch	Preview
File:*	00 IM AGEN SK	YLINE.bm Sending	Treview
Slot:*	S2 - standby 2	w.	SKYLINE
			🙁 Cancel 🕤 Send





bottom.



13.4.Date and Time

This allows you to change the date and time displayed by the selected panel (**DISPLAY**). Screens with different fields concerning **Panel Address**on the top and others about**Date and time** on the

For more details and explanations about the fields for **Panel address**, see chapter **13.2 Test**.

Note: Upon opening the window, the current date and time fields are filled (PC).

The fields for **Date and Time**:

- Date: To enter the date. You can enter the date manually (the format must be day/month/year) or by pressing the calendar icon in the field, which opens up a small calendar where you can select the desired date.
- Time: To enter the time. You can enter the desired time in the HH:MM format.

With the desired data, press the **change** button, which will display a loading message and upon completing the process a window appears indicating the result, if the time has been changed or if there was a problem.

Date & Time			
Panel addres System Panel	DUOX -	Warning	E
Block	AA 00	Date & time have been set	
block Date:*	17/05/2016	ОК	
Time:*	11:39		
	🗴 Cancel 📀 Set		

13.5 Firmware

This allows you to change the **DISPLAY** firmware on the selected panel.

Screens with different fields concerning Panel Addresson the top and others about Firmware on the bottom.

For more details and explanations about the fields for Panel address, see chapter 13.2 Test.

The **Firmware** field works to select the firmware file to install in the devices.

Note: This file must be in a .hex format and not be larger than 917503 bytes.

Once selected, press the **update** button and wait for the process to update. The updating message appears and upon completion it shows a window that indicates the same result.

Firmware updat	te
- Panel addres	s
System	DUOX -
Panel	00
Block	AA
Sub block	00
File:*	, O
	Cancel 🕑 U p date





13.6 Custom Languages

The **DISPLAY** offers the option of customizing two of its languages, called: Custom 1 and Custom 2, with the option of changing the texts displayed on the screens of **DISPLAY**. For this you must load the language file from you PC on to the **DISPLAY** using the Display Plus software.

Once a language file for a custom language has been loaded, this language is available upon selecting one of the languages «Custom 1» or «Custom 2» as the current language from the **DISPLAY**.

We supply a game of language files with the default texts on the **DISPLAY**. One file per available language in the **DISPLAY**. This way we offer the user a set of texts to customize the messages in your language.

This screen allows you to load files for custom languages in Custom 1 and Custom 2 on the selected panel **(DISPLAY)**.

Screens with different fields concerning **Panel Address** on the top and others about **Language** on the bottom. For more details and explanations about the fields for **Panel address**, *see chapter* **13.2** *Test.*

Custom languag	es
Panel address	
System	DUOX
Panel	00
Block	AA
Sub block	00
File:	<u>م</u>
Language:*	Gustom 1
	Oustom 2
	Cancel 🕑 Update

The Language fields:

- File: File in which the language and its texts are stored, DISPLAY.

Note: The file must be in .csv and be composed of 150 lines with the information, see chapter **13.6.1 file** *format for custom languages.*

Upon installing the application, a set of files is attached, one per language, with the default texts to help out (software Display Plus, folder **custom Texts**).

G → Lequipo	► OS (C:) ► Archivos de programa ► Fern	nax 🕨 Display Plus Software	▶ customTexts	-
Organizar 🔻 Incluir e	en biblioteca 🔻 Compartir con 🔻 N	ueva carpeta		
🔆 Favoritos	Nombre	Fecha de modifica	Tipo	Tamaño
\rm Descargas	🔄 00_Factory texts_EN	27/05/2015 16:24	Archivo de valores	6 KB
🧮 Escritorio	🔄 01_Factory texts_español	27/05/2015 16:22	Archivo de valores	6 KB
📃 Sitios recientes	🖲 02_Factory texts_french	08/06/2015 19:10	Archivo de valores	11 KB
	🔄 03_Factory texts_dutch	08/06/2015 19:10	Archivo de valores	11 KB
🥽 Bibliotecas	🔊 04_Factory texts_german	27/05/2015 16:24	Archivo de valores	6 KB
Documentos	🖏 05_Factory texts_catalán	08/06/2015 19:10	Archivo de valores	11 KB
📔 Imágenes	🖲 06_Factory texts_valenciano	08/06/2015 19:10	Archivo de valores	11 KB
🌙 Música	🔄 07_Factory texts_portuguese	08/06/2015 19:10	Archivo de valores	11 KB
😸 Vídeos	🖲 08_Factory texts_euskera	08/06/2015 19:10	Archivo de valores	11 KB
-	09_Factory texts_gallego	08/06/2015 19:10	Archivo de valores	11 KB
ge 36				


Once a file is entered in the accepted format, on the lower part a list appears with each of the 150 texts indicating the identifier, code and text that appears, being able to change the latter right on the list.

- Language (Custom 1 / Custom 2): To select one of the two custom languages on the display you want to change the displayed texts.

With desired data, you can press the **update** button and loading message appears, upon completing the process a window appears indicating its result. If no error occurs, you can restart the panel to load the texts.

Custom languages						
- Panel ad	ddress					
System	DUC					
Panel	00					
Block	AA					
Sub block	00					
File:	00_Fa	ctory texts_EN.cs				
Languag	e:* 💿 Gust	om 1				
	Gustom 2					
Id	Code	Text				
1	keymap2	ABGÀÁÂĀÇ				
2	keymap3	DEFÈÉÊËÆ				
3	keymap4	GHIÌÍÍĨ				
4	keymap5	JKL				
5	kevmap6	MNÑOÒÓÔŌÖ 🗸				
	8	Cancel 🤡 Update				

• 13.6.1 File format for custom languages.

The permitted files for custom languages are .csv files. The file structure is:

- A first header row with the column data name.
- 150 more rows with all of the information.

The information in question is the following:

|--|

An image from the English file:

	1 2 3	. ⇒		-	-		01_	_Factory texts_esp	pañol - Mi	icrosoft Excel	-
	chivo Inicio A O K Cortar	B1 Calibri	eño de página Fórmulas C U A A A		tos Revisar D R ≣ ≣ ≫ **	Vista N av Ajustar	Complemento P r texto	s Acrobat Y General	Ţ		
Pe	gar • 🍼 Copiar	NV	<u>s</u> • 🖾 • 🌺 • <u>A</u> •	E 1		•a• Combi	nar y centrar 👻	🥞 - % 000	◆0 00 00 → 0	Formato Dar condicional * com	formato Estilos o tabla ≠ celda
	Portapapeles	Es.	Fuente 🖓		Alinea	ación	- Eu	Número	Ea.	Est	ilos
	P25	▼ (f_x								
	Α	В	С		D	E	F	G	Н	1 I	J
1	Id	Code	Text		Max length						
2	1	keymap2	ABCÀÁÂÃÇ		9						
3	2	keymap3	DEFÈÉÊËÆ		9						
4	3	keymap4	GHIÌÍĨĬ		9						
5	4	keymap5	JKL		9						
6	5	keymap6	MNÑOÒÓÔÕÖ		9						
7	6	keymap7	PQRS		9						

Another way to enter information is to respect the field order, but instead of using a column for each one, only use «,». This way it would be: Identifier;Code;Text;Maximum size.

An image of the Spanish file in this format:





01_Factory texts_english: Notepad

<u>A</u> rchivo	<u>E</u> dición	F <u>o</u> rmato	<u>V</u> er	Ay <u>u</u> da
Id;Code 1:kevma	e;Text;I ap2:ABC	Max leng	gth	

2; keýmap3; DEFÈÉÉËÆ; 9 3; keýmap4; GHIÌÍĨÏ; 9 4; keýmap5; JKL; 9 5; keýmap6; MNÑOÒÓÔÕÖ; 9 6; keýmap7; PQRS; 9 7; keýmap8; TUVÙÚŨÜ; 9

14. PARAMETERS

14.1 Description

Screen developed to allow for interaction with the parameters on the panel's DISPLAY, (receive/ send).

The screen has different fields concerning **Panel Address** on the top and others aboutParameters **on the bottom.**

For more details and explanations about the fields for Panel address, see chapter 13.2 Test.

The parameters are distributed in four selectable tabs:

- Calls.
- Access Control.
- Screen.
- Clock.

Once the fields are established for **Panel address**, it can receive/send by pressing the corresponding button.

- **Receive:** You can receive the panel parameters. Once the operation is complete, if no error has occurred, the parameters configured on the panel are automatically filled

After the changes have been made, or if the information has been filled in all required fields correctly, you can send the screen parameters to the panel.

- **Send:** You can send the parameters to the panel. Once the sending operation is complete, the panel will restart and operate with the new values.

Note: There are parameters that are only present in certain systems, which will be disabled according to to the screen, automatically.

Send & Receive	
Panel address System Panel Block Sub block Calls Access control Call filter (Only the existing Alphanumeric Gall (Enat	DUOX
Pushbutton	Code
1 2 3 4 5	
	S Cancel Send





14.2 Calls.

This allows you to change/select the different fields concerning the **Calls** from the selected panel **(DISPLAY)**. Screens with different fields concerning **Panel Address** on the top and others about**Calls** on the bottom. For more details and explanations about the fields for **Panel address**, *see chapter* **13.2** *Test*. Screens with different fields concerning **Calls**:

- Restricted Call (only the units with the «filtered» field ticked in the Directory can be called). This field selected allows you to filter the calls in the Directory.
- Alphanumerical call (enables the input of characters): Call with only digits and letters (mapped).
- Mapped Call: The mapping is a function of advanced programming that allows for changing the assigned call code inherent to the system by another one to cover all of the encoding needs.
- Button/Code. It displays a list where we can enter a unit code as desired to each of the call buttons with which the call panel can be equipped. A panel with a **DISPLAY** + Button module (up to 8 call buttons maximum).

Notes:

- The Restricted call field is related to the users, see chapter 12.4 Add user Filtered section.
- The alphanumeric call fields and Mapped calls are related to the users, see chapter **12.4 Add user** call code section.
- The Button/Code call field is related to the users, see chapter **12.4 Add user** Call and unit code fields section.
 - If using the VDS/BUS2, the permitted range for the button code is [001-199].
 - For the DUOX, the range is [000001-999999]. Keep in mind that even though you must always fill in the 6 digits, depending on the type of panel, the **DISPLAY** does not consider all of the digits when making the call:
 - o General Entrance: using the 6 digits to call (not auto-fill).
 - o Block entrance: using the 4 last digits to call, it auto-fills the first two with the block num. to call.
 - o Sub-block entrance: using the 2 last digits to call, it auto-fills the first two with the block num. and the following 2 with the sub-block num. to call.

Send & Receive	
Panel address System Panel Block Sub block Calls Access control Display Gall filter (Only the existing units in the Alphanumeric Gall (Enables Charace Gall codes	the Directory can be called)
Pushbutton	Co de 🔹
1	Î.
2	
3	U
4	
5	v
	Cancel Cancel Send





14.3 Access control

This allows you to change/select the different fields concerning the **Access control** from the selected panel **(DISPLAY).**

Screens with different fields concerning **Panel Address**on the top and others about **Access control** on the bottom.

For more details and explanations about the fields for **Panel address**, see chapter **13.2 Test**.

Screens with different fields concerning Access control:

- Door open time (Seconds). Door opening time from the home and keypad (if programmed). Programmable time: 1...99 seconds.
- Exit button open time (Seconds). Opening time corresponding to the button located inside the building which serves to activate the lock-release function (providing it has been installed). Programmable time: 0...99 seconds. The 0 value disables the button.
- Reader Protocol: Drop-down menu to select the protocol for the reader communication: Data/Clock or Wiegand-26. See reader protocols in its corresponding manual.
- Access control using the keypad. Selecting this field allows you to open it via the custom access codes on the keypad. Only up to 6 digits.
- Length of keypad codes (digits). To establish the keypad codes length. Only up to 6 digits. You can select the value with the arrows.
- Door Sensor alarm. By selecting this field, you send a message when the defined time passes in Alarm Time.
- Alarm Time (seconds): To define alarm time. Maximum time that the door can remain open before generating an alarm (if the Door sensor alarm option is selected). Programmable time: 1...250 seconds. You can select the value with the arrows. This is disabled if the option is not selected: Door Sensor alarm. *Note:* The alarm time must be greater than the door open time.
- Panel special codes: This allows you to enter the different displayed codes, which must be 5 digits.
- Installer: The programming access code, via which you can access all the programming options.
- Administrator: The programming access code, via which you can access certain programming options.
- Concierge: The Concierge access code, via which you can access certain programming options.
- Prox + PIN codes: Selecting this box, you can use the additional combination of the user's device's validity with a PIN code on the keypad.

Notes:

- There are parameters that can only be on certain systems, but on the screen, when selecting the system, they are disabled.
- The Access control via keypad field are related to the users, see chapter **12.4 Add user** Access code section.
- The Prox + PIN field is related to the users, see chapter **12.4 Add user** PIN code section.



Send & Receive	
Panel address System Panel Block Sub block Calls Access control Display C	DUOX ~ 00 AA 00
Door opening time (seconds):*	 Egress button opening time (seconds):*
Reader module protocol:	Keypad codes length (Digits):*
✓ Door sensor alarm	Door sensor time (Seconds).*
Special panel codes	Administrator:* Concierge:*
Prox + PIN	Aunimistrator. Guilderge,
	😢 Cancel 💽 Receive 😳 Send

14.4. Screen

This allows you to establish specific fields concerning the **Screens** from the selected panel (**DISPLAY**). Window with different fields concerning **Panel Address** on the top and others about the **Screen** on the bottom. For more details and explanations about the fields for **Panel address**, see chapter **13.2 Test**.

Window with different fields concerning Screens:

- Screen Activation. Screen activation mode (**DISPLAY**). Drop-down menu where you can select the following options:
 - Upon pressing a keypad.
 - Key or presence detector.
- Directory Mode: (Viewing the Directory) Drop-down menu where you can select the following options:
 - One name per page.
 - Four names per page.
- Time between images. View images. Programmable time: 1...20 seconds. You can select the value with the arrows. See chapter 13. PANELS / 13.3 Upload images.
- Building name. To enter the text to view on the screen, maximum length of 16 characters.
- Language. Language in **DISPLAY** on the panel.
- Temperature scale. Drop-down menu on which you can select the temperature scale: Centigrade or Fahrenheit.



Send & Receive					
Panel address					
System		DUOX			-
Panel		00			
Block		AA			
Sub block		00			
Calls Access control	Display Clo	ock			
Display activation:*		~	Directory Mode:*		Ŧ
Time gap between the images:*		*	Building name:		
Language:*		~	Temperature scale:*		~
			3	Cancel O Receive	e Send

14.5.Clock

This allows you to establish specific fields concerning the **Clock** (date and time) from the selected panel **(DISPLAY)**.

Screens with different fields concerning **Panel Address** on the top and others about **Clock** (Date and time) on the bottom.

For more details and explanations about the fields for Panel address, see chapter 13.2 Test.

Screens with different fields concerning the **Clock** (date and time):

- Display date and time. If this field is selected, you must fill in the time and date format used.
- Time Format. Drop-down menu where you can select the time format: 12 or 24 hour.
- Date Format. Drop-down menu where you can select the date format from the following:
 - DD/MM/YYYY (Europe).
 - MM/DD/YYYY (China).
 - YYYY/MM/DD (USA).
 - YYYY/DD/MM (Other).

- Daylights savings time. Drop-down menu where you can select the following zones:

- Europe.
- USA.
- Manual. If choosing the field manually, you must fill in:
- Start Summer or Start winter time (fields: date/ time):
 - o Date field: To enter the date. Press on the calendar icon in the field to open a calendar to select the desired date.

o Date field: To enter the time. You can enter the desired time in the HH:MM format.

- Night time. If this field is selected you must fill in the Start / End/ Volume level:

- Start/ End: To enter the time. You can enter the desired time in the HH:MM format.
- Volume level: To enter the volume level with a range of 0 to 9. You can select the value with the arrows.



Send & Receive			
Panel address System Panel Block Sub block Calls Access control	DUOX 00 AA 00 Display Clock		· · · · · · · · · · · · · · · · · · ·
Show date and time			
Time format:*	-	Date format:*	- •
🗹 Daylight saving		Daylight saving time zone:*	• •
Summer time starts:			
Winter time starts:			
🗹 Night time	Start*	End:*	Volume level:* 🗘 🌻 🛛
		8 Cance	el 💽 Receive 💿 Send

15. BACKUP

15.1 Description

This allows you to save and restore backup copies. Drop-down menu where you can select the screens:

- Restore backup copies.
- Save backup copies.



plus





15.2 Restore back-up copy

This allows you to make a backup.

Upon selecting this option you can open a window with a field to select the file from which you want to restore a backup copy. The file must be in the .xls or .csv format and have the same format as the file created to make the backup copy, see chapter **15.3 Save a backup copy**.

Upon pressing the **Import** button, before starting to restore the data on the file, it deletes all data currently in the database, including logins.

	Equipo 🕨	OS (C:) 🕨 Arch	ivos de progr	rama 🕨 Fermax 1	• Display Plus Soft	tware 🕨 database	
Organizar 🔻	Incluir en	biblioteca 🔻	Compartir c	on 🔻 Nueva	carpeta		
☆ Favoritos	Â	Nombre	*		Fecha de modifi	ica Tipo	Tamaño
Descargas		🔊 backup HQ	Fermax		22/06/2015 14:30	0 Archivo de	valores 1 KB
		Warning	Import data File:* Import datab File:*	Cancel	hax.x Import	8	
				orrectly. The applicatio	n will be closed in orde		

Note: Once the restore back-up process is complete, a message appears indicating the result (import correct or not), and if the database has imported correctly, it closes the application to avoid conflictive situations, like maintaining a login in the application as «login» that no longer exists after the restore, or having a site or directory open that no longer exits...etc.

15.3 Save back-up copy

This allows you to make a backup.

Upon pressing this button you open a window with only two fields:

- File name. Fill in the name with which you want to save the backup copy. The existing data on the application are saved.
- Format. The format to use can be either .csv or .xls.

Once you press the **export** button a loading message appears, upon completing the process a window appears indicating its result.

If correct, the file is in the database folder within the default software installation file: «*C*:*Archivos de programa**Fermax**Display Plus Software**database*».

Note: The exact route by default depends on the operating system's language and the bits (32/64).





Save backup		
File name:*		
Format:*	xls	
	CSV	
		😢 Cancel 🖺 Export
Save backup		
File name:*	backup HQ Fermax	
Format:*	• xls	
	CSV	
		🗴 Cancel 📑 Export



						_		
	Equipo	o ▶ OS (C:) ▶	Archivos de programa	▶ Fermax	 Display Plus Software 	• • database		
Organizar 🔻	Incluir	r en biblioteca	Compartir con 🔻	V Nuev	a carpeta			
☆ Favoritos		Nombre	^		Fecha de modifica	Тіро	Tamaño	
🔒 Descargas		🐴 backu	p HQ Fermax		22/06/2015 14:30	Archivo de valores	1 KB	
📃 Escritorio								











Avd. Tres Cruces, 133 46017 Valencia Spain