



SMS WizArt

User Manual

Software for Elevator Display Configuration

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1. Introduction

SMS WizArt is a professional software application for configuring elevator displays. It enables the creation of custom layouts for screens of various sizes and orientations, with intuitive and precise control over each visual element.

1.1 Main Features

- Intuitive 3-column graphical interface, accessible even to users without advanced technical skills
- Real-time preview: every change is immediately visible in the central column
- Multi-scenario support: up to 4 independent display configurations per elevator
- Edit mode with drag and drop: direct visual positioning of elements
- Customizable fonts: support for both Windows system fonts and custom graphic fonts (PNG images)
- Horizontal orientation (800×480 px) and vertical orientation (480×800 px)
- Full management of text, logos, arrows, symbols, and alarm icons
- Optimized export: generates only the files required for the active scenario, reducing the SD card footprint
- Integrated log system for debugging and operational tracking
- Multilingual interface: Italian, English, Spanish

2. System Requirements

2.1 Minimum Requirements

Operating System	Windows 10 (64-bit) or later
Processor	Intel Core i3 or equivalent (2 GHz+)
RAM	4 GB
Disk Space	500 MB available
Screen Resolution	1280×720 or higher
.NET Runtime	.NET 7.0 Desktop Runtime (Windows)

2.2 Recommended Requirements

Operating System	Windows 11 (64-bit)
Processor	Intel Core i5 or later
RAM	8 GB or more
Screen Resolution	1920×1080 (Full HD)

3. Distribution and Installation

SMS WizArt is distributed through an installer. To uninstall it, open Control Panel and remove the program.

3.1 First Launch

On first launch, SMS WizArt displays the project selection/creation screen. No initial configuration is required: the application is ready to use after installation.

4. Interface Overview

The SMS WizArt interface is organized into three main columns plus a top navigation bar.

4.1 3-Column Layout

Left Column — Configuration Panel

Contains all controls and settings for the currently selected panel. It changes dynamically according to the item selected in the top bar (Initial Data, Aspect, Floors, etc.).

Center Column — Display Preview

Shows a real-time preview of the elevator display, updated after each change. It supports two modes selectable through the radio buttons in the right column:

- Preview (default): read-only view, shows the final result
- Edit: advanced editing mode with drag and drop of elements

Right Column — Project Controls

Contains controls for:

- Active scenario selection (Scenario 0–3)
- Floor selection to display in the preview
- Display model selection
- Interface language selection
- Preview / Edit mode
- Access to the system log

4.2 Top Bar — Navigation

The top bar contains the buttons used to access the configuration panels and the action buttons:

Initial Data	General settings: operating mode, standby, brightness, text messages
Aspect	Scenario appearance: orientation, background color/image
Floors	Floor display area configuration: range, position, font
Arrows	Directional arrows: position, size, graphic set
Alarms	Alarm icons: emergency, maintenance, overload, etc.
Symbols	Regulatory symbols: no smoking, CE mark, custom symbols
Logo	Company logo: image, position, size
Audio	Audio: volume, languages, gong, service messages, background music

Figure 1 - Top navigation bar



4.3 Action Buttons

Refresh	Manually refreshes the preview. Use after changes that do not appear immediately (e.g. changing the background image)
Close	Closes the current project (asks for confirmation if there are unsaved changes)
Finalize	Generates the optimized configuration files in the file_for_SD folder, ready for the SD card

5. Project Management

5.1 Create New Project

To start configuring a new display:

1. On launch, click New Project (or File → New Project from the menu)
2. Choose the destination folder
3. Select the display model
4. Select the language
5. Click Create

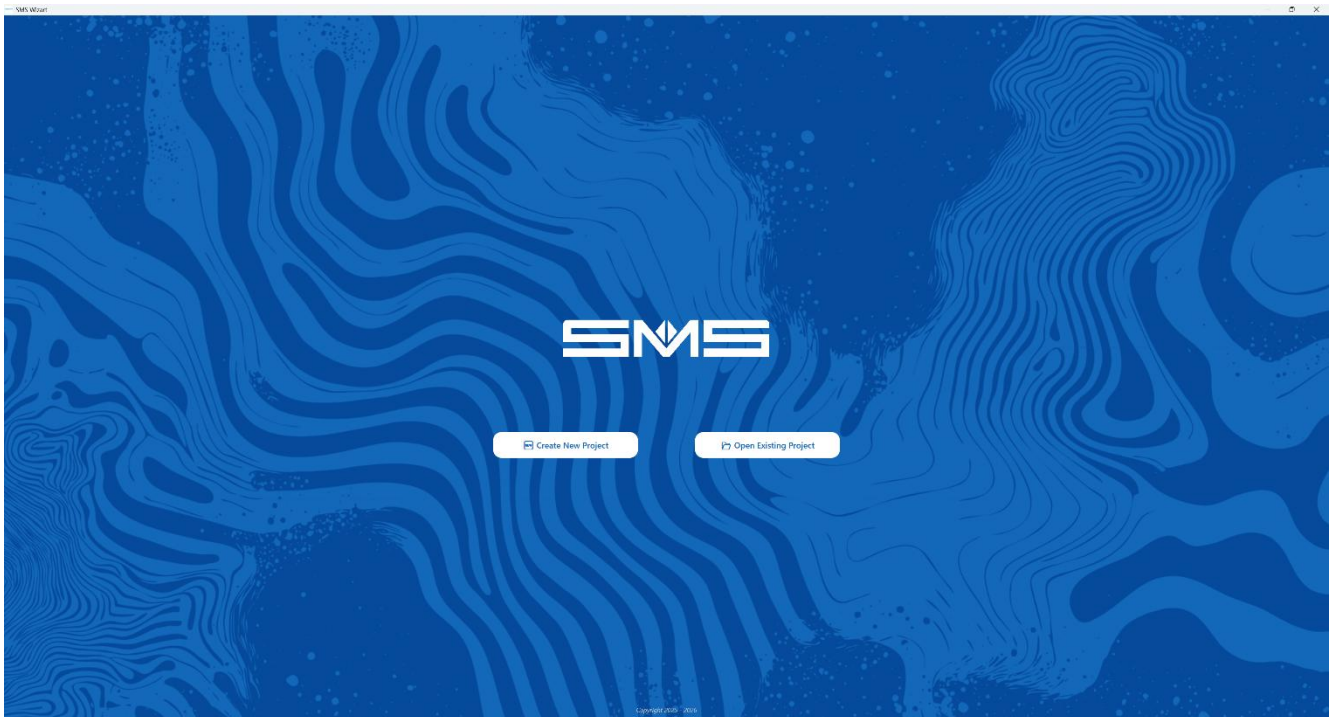
The project is created with the following structure:

- Project.ini — main configuration file containing all scenario parameters
- temp_dir/ — folder containing the graphic assets (arrows, symbols, digit fonts)
- temp_dir/Scenario0/ ... Scenario3/ — folders containing the assets for each scenario

5.2 Open Existing Project

6. File → Open Project
7. Browse to the project folder
8. Select the Project.ini file
9. The project is loaded with all saved configurations

Figure 2 – Project Opening / Creation Screen



5.3 Saving

SMS WizArt saves every change made in the configuration panels automatically. Manual saving is not required. You can still use File → Save to force an immediate save.

6. Display Configuration

This section describes each configuration panel in detail. Each panel controls a specific aspect of the elevator display.

6.1 Initial Data

The Initial Data panel contains the core display settings, common to all scenarios.

A. Operating Mode

Serial (CAN/RS485)	Standard serial communication for elevators
One Wire	Single-wire protocol
Binary	Direct binary mode
Binary Reversed	Binary mode with inverted bytes
BCD	Binary Coded Decimal
GRAY	Gray encoding
DEMO	Demo mode (no hardware communication — useful for testing)

B. Standby (Minutes)

Inactivity time in minutes before the display enters standby mode. Set to 0 to disable standby.

C. Brightness (%)

Screen brightness as a percentage (0–100%). Recommended value: 85%.

D. Text Messages

Informational texts displayed on the screen:

Capacity	Elevator capacity, e.g. "1000 KG"
Number of Passengers	Number of passengers, e.g. "13"
Serial Number	Plant serial number, e.g. "Matr. 12345"
Plant	Plant ID, e.g. "Imp. A-001"
Notice 1–4	Customizable warning messages displayed on the screen

Figure 3 – "Initial Data" Section



6.2 Aspect

The Aspect panel controls the overall visual appearance of the selected scenario.

A. Orientation

Horizontal (0°)	800 × 480 pixels — standard horizontal orientation
Vertical (90°)	480 × 800 pixels — vertical orientation (display rotated by 90°)

B. Default Background

Choose between two options:

Fixed Color	Solid color selectable with the color picker
Image	Custom image uploaded by the user (supported formats: PNG, JPG, BMP)

Change Background Image

10. Select the Image option
11. Click the pencil icon button (Select Background Image)
12. Browse to the folder containing the image
13. Select the file and click Open
14. The image is automatically resized and displayed in the preview

Remove Background Image

15. Click the red trash icon button next to the image
16. Confirm in the dialog box
17. The system automatically returns to Fixed Color mode

! IMPORTANT

Deleting the background image removes the file from the scenario folder.
This operation is **NOT reversible**: ensure that you have a backup before proceeding.
If the preview does not update immediately, press the **Refresh** button in the top toolbar.

Figure 4 - Aspect section



6.3 Floors

The Floors panel configures the area where the current floor number/code is displayed on the screen.

A. Floor Range Configuration

Floor Start	First floor of the building (e.g. -1 for basement level, 0 for ground floor)
Floor End	Last floor of the building (e.g. 9 for the tenth floor)

The software automatically calculates the total number of floors (e.g. from -1 to 9 = 11 total floors).

B. Floor Area Settings

Show Floor Number	Checkbox to enable/disable the floor display area
Position X / Y	Pixel coordinates used to position the floor area on the screen

C. Floor Text/Image Management

The Floor Text/Image Management button opens an advanced window to configure text or images associated with each individual floor:

- Assign alphanumeric codes to each floor (e.g. "PT" for ground floor, "S1" for basement level, "-1" for underground)
- Configure custom images for special floors

- The alphanumeric codes are centered in the floor area

D. Font Management

SMS WizArt supports two font types for floor display:

1. Windows Font (System Font)

Uses the fonts installed in Windows. Select family, size, and style (regular, bold, italic).

2. Custom Font

Uses PNG images for each digit (0–9, minus sign, letters A–Z). Configurable parameters:

Width	Width in pixels for each digit/image
Height	Height in pixels for each digit/image
Interdigit (Spacing)	Spacing in pixels between digits (negative values for overlap)

NOTE

Floor numbers are displayed centered within the configured area, ensuring that both single-digit values (e.g. "7") and multi-digit values (e.g. "-1", "12") remain visually balanced at all times.

Font Preview

At the bottom of the panel there is a preview of the selected font, with the ability to browse all available digits to verify the final appearance.

Figure 5 – "Floors" Section



6.4 Arrows

The Arrows panel configures the directional arrows that indicate the elevator travel direction.

A. Settings

Visible	Enable/disable the arrow display
Position (X, Y)	Pixel coordinates used to position the arrow area on the screen
Size (W, H)	Pixel dimensions of the arrow area (width × height)

B. Arrow Sets

SMS WizArt includes 5 predefined arrow sets, each with a graphical preview:

Arrow Code 1	Classic white/gray arrow
Arrow Code 2	Modern blue arrow
Arrow Code 3	Stylized gold arrow
Arrow Code 4	Minimal light-gray arrow
Arrow Code 5	User-customized arrow (Custom)

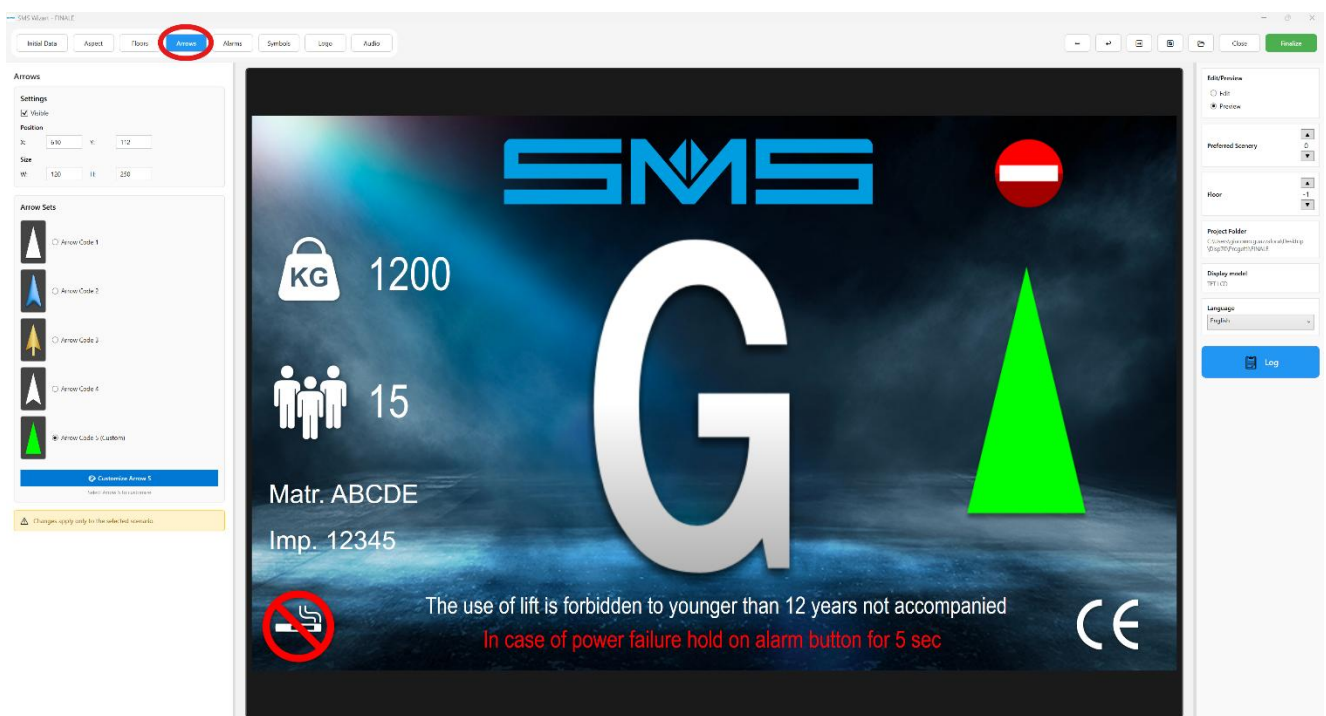
C. Arrow Code 5 Customization

Arrow Code 5 allows custom images to be loaded for the up arrow and down arrow. Click Customize Arrow 5 and follow the wizard to select the image files.

! IMPORTANT

Deleting the background image removes the file from the scenario folder. This operation is **NOT reversible**: ensure that you have a backup before proceeding. If the preview does not update immediately, press the **Refresh** button in the top toolbar.

Figure 6 – "Arrows" Section



6.5 Alarms

The Alarms panel configures the alarm and status icons that can be displayed on the screen.

A. Settings

Visible	Enable/disable the alarm area
Alarm Size	Large or Small
Position & Size (X, Y, W, H)	Pixel coordinates and dimensions

B. Alarm Images

SMS WizArt includes 9 predefined alarm icons. Each one can be replaced with a custom image by clicking the icon:

Emergency Maneuver	Emergency maneuver in progress
Out of Order	Elevator out of service
Maintenance	Scheduled maintenance
Alarm Activated	Alarm button pressed

Overload	Overload
Alarm Received	Alarm received / acknowledged
Firefighters	Firefighter mode active
Close Door	Door closing
Emergency Lamp	Emergency lighting active

Figure 7 – "Alarms" Section



6.6 Symbols

The Symbols panel manages the informational and regulatory symbols displayed on the screen:

Symbol 1 — No Smoking	No smoking icon (required by regulation)
Symbol 2 — CE Mark	European conformity mark
Symbol 3	Customizable symbol (default people icon)
Symbol 4	Customizable symbol (default weight/capacity icon)

Configuration for Each Symbol

Visible	Enable/disable the symbol
Position (X, Y)	Pixel coordinates on the screen
Size (W, H)	Pixel dimensions
Custom Image	Click the preview to replace the symbol with a custom image

! IMPORTANT

Symbol settings apply ONLY to the currently selected scenario. To use the same symbols across all scenarios, the configuration must be repeated for each scenario.

Figure 8 – "Symbols" Section



6.7 Logo

The Logo panel allows a company or custom logo to be inserted on the screen.

A. Configuration

Visible	Enable/disable the logo
Position (X, Y)	Pixel coordinates used to position the logo
Size (W, H)	Pixel dimensions of the logo

B. Logo Selection

Click the green Select Logo button to open the file selection window. Supported formats: PNG, JPG, BMP, GIF.

The logo is automatically resized according to the specified dimensions. A preview is visible directly in the panel.

SUGGESTION

For best results, use PNG images with transparent backgrounds.
This allows the logo to visually integrate with any background set in the Aspect panel.

C. Remove Logo

18. Click the red trash icon button next to the logo preview
19. Confirm in the dialog box
20. The logo is removed from the display

IMPORTANT

Deleting the logo physically removes the file from the scenario folder. Always keep a backup copy of the original file before deleting it.

Figure 9 – "Logo" Section



Volume	Master audio volume (0–100). Use the + and – buttons to adjust it
Primary Language	Primary language for voice announcements (Italian, English, Spanish, French, German, etc.)
Secondary Language	Optional second language for bilingual announcements
Gong	Sound played before voice announcements (Carillon, Ding, Chime, etc.)
Service Messages	Table of available voice announcements: Alarm Received, Maintenance, Out of Order, Emergency Maneuver, Overload, Firefighter Mode, Free Doors, Door Closing, Next Direction
Background Music	When background music should play: Off, On Arrows (during movement), Always
Background Volume	Specific background music volume (0–100), independent of the master volume



7. Real-Time Preview

The central column shows a faithful preview of the elevator display, automatically updated after each change.

7.1 Preview Mode

Display mode (default). Shows the final result as it will appear on the physical IRIDE7 display. In this mode you can also drag and drop elements, placing them where needed. Automatic saving.

7.2 Edit Mode — Drag & Drop

Edit mode lets you position elements directly on the preview by dragging them with the mouse, without manually entering numeric coordinates. You can also resize them.

How to Use Edit Mode

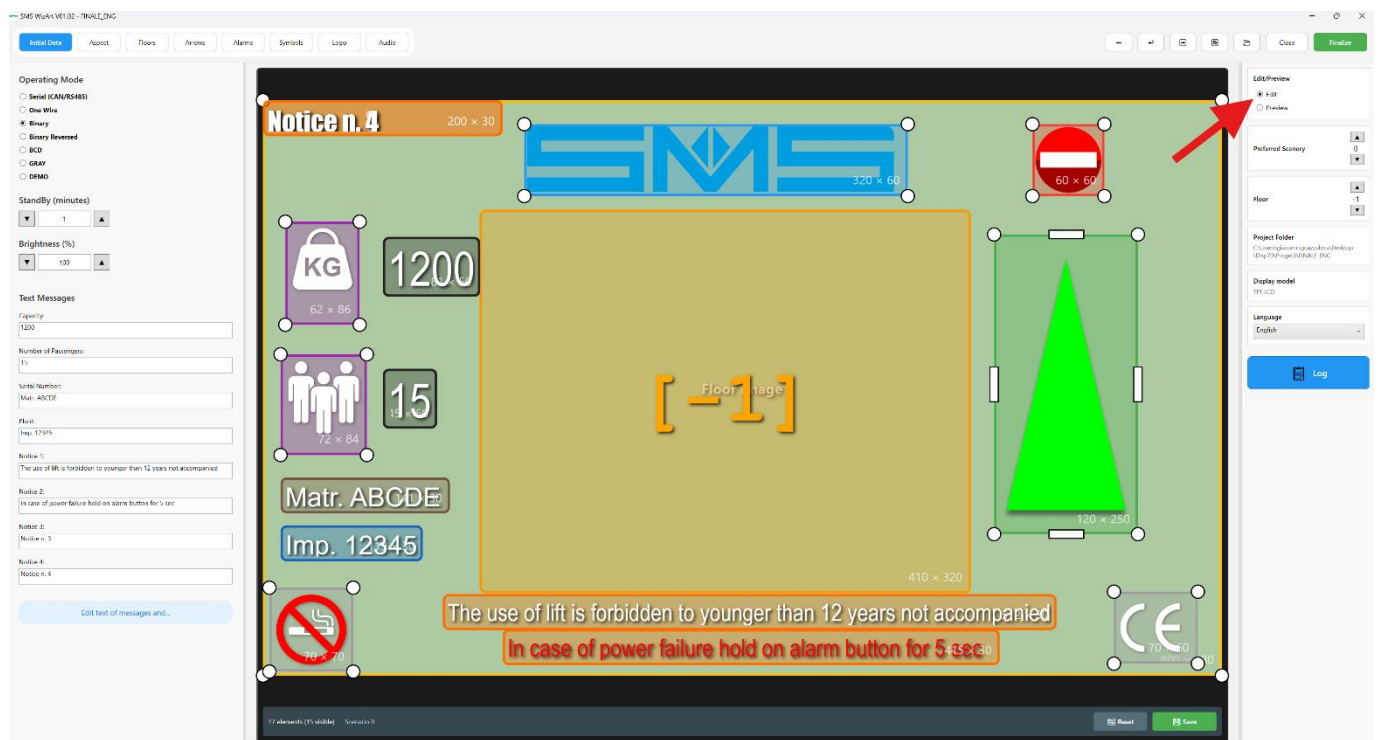
21. Select the Edit radio button in the right column
22. The preview shows colored boxes around each configurable element
23. Click and drag an element to move it to the desired position
24. Release the mouse: the position is automatically saved in the INI file
25. Return to Preview mode to see the clean final result

TIP

Edit mode is ideal for precise visual positioning when entering numeric coordinates is not practical.

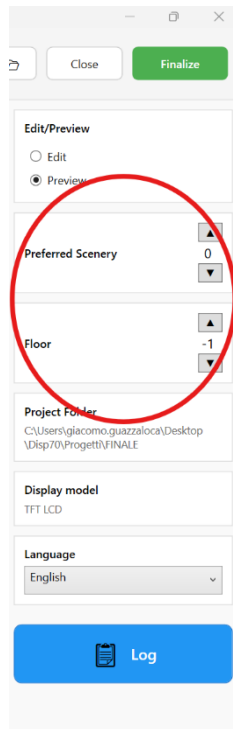
Elements move in real time while being dragged. Their position is automatically saved when the mouse button is released.

Figure 11 – "Edit Mode" Section



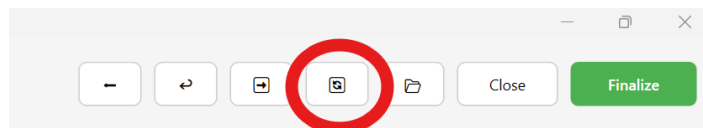
7.3 Scenario and Floor Controls

In the right column you can change the scenario (0–3) and the floor shown in the preview to verify how the different configurations look. For example: check that "-1" and "12" are both centered correctly in the floor area.



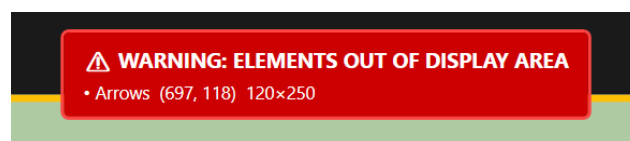
7.4 Refresh Button

If the preview does not update automatically after a change (background image, logo, symbol), click the Refresh button in the top bar to force the view to reload.



7.5 Elements Out of Bounds Warning

If one or more elements are positioned outside the screen limits (800×480 or 480×800 pixels), the preview shows a red warning panel at the top with the list of problematic elements and their coordinates. This helps identify and correct positioning errors before finalization.



8. Multiple Scenarios

SMS WizArt supports up to 4 independent scenarios (numbered 0 to 3). Each scenario is a fully self-contained display configuration:

- Different orientation (horizontal vs vertical)
- Different background (solid color or custom image)
- Independent layout and element positioning
- Different fonts and styles for floor display
- Different arrow sets
- Individually configurable element visibility

8.1 Typical Scenario Usage

Scenario 0	Standard daytime configuration
Scenario 1	Night configuration (reduced brightness, simplified elements)
Scenario 2	Maintenance configuration (technical messages visible)
Scenario 3	Emergency configuration (maximum alarm visibility)

8.2 Active Scenario Selection

Use the Preferred Scenario controls in the right column to switch between scenarios during setup and to set which scenario will be active by default when the physical display starts. The elevator control system can then activate the other scenarios based on specific events or conditions. All changes made in the panels apply to the scenario selected at that moment (applied to all scenarios: Capacity, Number of Passengers, Serial Number, Plant).

IMPORTANT

Changes made in the **Arrows, Alarms, Symbols, Logo, and Aspect** panels apply **ONLY** to the active scenario.

To configure all scenarios, you must switch to each one and repeat the desired settings.

9. Finalization and Export

Finalization generates all configuration files required by the IRIDE7 display, optimized and ready to be copied to the SD card.

9.1 Finalization Procedure

26. Verify that all configurations are correct
27. Check in the preview that no elements are out of bounds (red warning)
28. Select the scenario to export in the right column
29. Click the green Finalize button in the top bar
30. Confirm in the dialog box
31. The software generates the files in the file_for_SD folder inside the project
32. When complete, the file_for_SD folder opens automatically in File Explorer

9.2 Transfer to SD Card

33. Copy the contents of the file_for_SD folder to the SD card
34. Respect the folder structure: copy Project.ini and the temp_dir folder to the root of the SD card
35. Insert the SD card into the IRIDE7 display
36. The display will automatically read the configuration at startup

IMPORTANT

Finalization always deletes and recreates the **file_for_SD** folder from scratch. It does **NOT** modify the source project (**Project.ini** located in the project folder). You can always reopen the project, make changes, and run the finalization process again without losing any configuration settings.

10. System Log

SMS WizArt includes an integrated logging system that records all major operations: image loading, configuration saving, finalization operations, and errors.

10.1 Log Access

Click the Log button in the right column to open the log viewer. The log shows operations in chronological order and can be useful for troubleshooting.

10.2 Use for Debugging

In the event of unexpected behavior (images not loaded, files not generated, finalization errors), the log contains the technical details needed to identify the cause.

11. Troubleshooting

11.1 The preview does not update after a change

Click the Refresh button in the top bar. This forces a complete reload of the display.

11.2 Floor number appears in the wrong position on the physical display

Verify that positioning was set with the correct scenario selected. Use Edit mode to reposition the floor area visually and finalize again.

11.3 Images appear blurry/pixelated in the preview

Make sure to use high-resolution source images. SMS WizArt uses bicubic interpolation for resizing, but the quality depends on the resolution of the original image.

11.4 file_for_SD is not generated

Check that:

- The project folder is writable
- No files are open in other applications inside the file_for_SD folder
- There is sufficient disk space

Consult the system log for the error details.

11.5 SMS WizArt does not start

Verify that .NET 7.0 Desktop Runtime is installed correctly. Download it from:

<https://dotnet.microsoft.com/download/dotnet/7.0>

11.6 Elements out of bounds are shown in the preview

The red warning panel lists the elements whose positions are outside the display limits. Use Edit mode or the X/Y numeric fields in the corresponding panels to bring the elements back within the borders (0–800 horizontally, 0–480 vertically).

12. Glossary

IRIDE7	Elevator display hardware produced by SOFTWARE.srl, compatible with SMS WizArt
Scenario	One of the 4 independent display configurations (0–3), each with its own background, layout, and settings
Active Scenario	The scenario selected for setup and for export during finalization
temp_dir	Project folder containing the graphic assets (images, fonts, arrows, symbols)
file_for_SD	Folder generated by finalization, containing the files ready for the display SD card
Custom Font	Graphic font made up of PNG images for each digit and letter
Floor Code	Alphanumeric code assigned to each floor (e.g. "PT", "S1", "-1")
Digit	PNG file representing a single digit or letter in the custom font
ImgFloor	Composite image generated for each floor, including background + logo + symbols
ImageBase	Base image of the scenario (background + logo + symbols, without floor number)
DPI	Dots Per Inch — image resolution. SMS WizArt generates images at 96 DPI
Drag & Drop	Visual positioning technique: drag an element with the mouse to move it
Finalization	Process that generates the optimized configuration files for the physical display
SD card	Memory card onto which the files generated by finalization are copied

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