iBusway for Data Center

For Magelis supervision screen
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- Configuration
- Supervision

General Application Block Diagram:

- Homepage
- Inserting the password
- Set Up
- Configuration
- Restore configuration
- Supervision
- Room definition
- Area definition
- Finalisation of the following areas
- Alarms configuration

iBusway for Data Center
Configuration guide for Magelis
1. Password

1-1. Inserting the password

1. Click on the "Insert Password" button. This action lets you unlock the system to access the configuration mode.

2. Enter "iBusway" in the password field.
3. Click on "OK" to validate.

Note: this password is used to protect the configuration from abusive use.

Clear: erase the text.
Space: write a space character.
Shift: press shift to activate CAPS.
Caps Lock: keep characters in CAPS.
Cancel: skip this step and return to the previous screen.
2. Set Up

2.1 Changing the password

1. Click on "Change Password" to change the password.

2. Click on "Old Password" and enter the current password.
3. Click on "New Password" and enter the new password. (8 characters max.)
4. Click on "Confirm Password" and enter the password again.
5. Once you have entered the new password, click on "OK".
2-2. Setting the date and time

1. Click on the "Date and Time" button to set the date and time. The date and time configured here will be used for the events and alarms list.

2. Click on numbers to modify the date and time.
3. Enter the time and date on keyboard.
4. Validate by "OK".
5. Click on "Set Time" or "Set Date".
6. Click on "Close" for close.

2-3. Webgate Password (function available at a later stage)

1. Click on "Webgate Password" to change the Webgate access password.

2. Enter the password allowing remote access for Supervision.
3. Validate by clicking on "OK".

The initial password is iBusway.
2-4. Activation/deactivation of Email sending in the event of an alarm

1. If the indicator lamp is red, press the “Activation Email Sending” button to activate the function of email sending in the event of an alarm. Refer to the “Email” section on page 37 to configure the function for setting the email sending parameters.

2. If the indicator lamp is green, press the “Deactivate Email Sending” button to deactivate the function of email sending in the event of an alarm.

Note: on the email sending activation/deactivation button, it is possible to see the IP address that the communication module has obtained on the Ethernet network in DHCP.

2-5. Change language

1. Press the double green arrow to select the language wanted. Three languages are available: French, English and Chinese.
3. Configuration

Room definition block diagram

- Definition of the computer room
- Room definition
- Shape
- Dimensions
- Orientation
- Position of the supervision screen
- Number of Twido
- Activating the Twido

Main screen

1. To start to define your installation, select "Configuration".

Note: "Restore Configuration" allow to restore the last saving configuration.

3-1. Definition of the computer room

1. Click on the "Room Definition" button.
   This action gives you access to the room characteristics configuration.
Shape

1. Choose your model according to your room.
The application proposes 3 generic shapes.
Choose the shape best suited to your situation.

Once you have selected your shape, the "OK" button appears.

2. Validate by "OK".

Dimensions

1. Click on "Click to Define" for define the 1st dimension of your room.
2. Enter the value (in cm) on the keypad.
3. Validate by "OK".

Likewise, each field must be entered by a click on the "Click to Define" button (point 4 to 6, the units are in cm).

Once all the data have been entered, the "OK" button appears.

7. Click on "OK" to validate.
You have thus configured the dimensions of your room.

Orientation

1. Select the orientation of the room.
2. Click on "OK".
Position of the supervision screen

The blue rectangle represents the supervision screen for your location in the room.
1. Locate the supervision screen in the room.
2. Use the directional arrows to position it.
Keep the directional arrow pressed to accelerate screen position movement.
3. Click on "OK" to validate.

Number of Twido

1. Select the number of Twido in the room.

Once you have selected the Twido, the "OK" button appears.
2. Validate by "OK".

Note: you can return to the previous steps by clicking on one of the buttons on the bottom bar.

Activating the Twido

1. Physically disconnect all the Twido on the Ethernet switch (RJ45 cable).
2. Reconnect the 1st Twido of your choice.
Wait a few seconds for the Leds to turn to red and move to the next step.

3. Press "Activate", wait for a few seconds for the Led to turn to green before moving to the next step. All the other Leds go out.

We recommend that you activate the Twido from "Twido 01" to "Twido 12" to make it easier to identify the Twido in a room.
Activating the Twido

Definition of the buttons:

- **Unactivate**: the Twido has been activated, but the physical link is not recognised.
- **No Communication**: there is no Ethernet connection with the Twido.
- **Activate**: the Twido is connected, but not yet activated.
- **Unactivate**: the Twido is connected and activated. To unactivate it, press the "Unactivate" button.

1. Repeat the actions 2 & 3 to activate each Twido.

**Warning**: you must activate each Twido in the same order as for physical connection.

When more than 6 Twidos can be activated, a second screen is available.
2. Click to switch to the screen for the Twidos 7 to 12.

3. Click to return to the screen for the Twidos 1 to 6.

Once all the Twidos have been activated, click on "Complete" to continue.
3-2. Room configuration
Room configuration block diagram

3-2-1. Definition of a new area
Definition of a new area block diagram
Adding an area

An area corresponds to two ranges of bays.
1. Click on "Add Area" to create an area.
2. Click on "Back to Room Configuration" to return to the previous step.

Orientation

1. Choose the orientation of the area in the room.

Dimensions

1. Click on "Click to Define".
2. Enter the area lengths A and B in centimetres.
3. Validate by "OK".

⚠️ Do not enter a longer dimension than room dimensions.

Area name

1. Click on "Click to Define".
2. Enter the "name" on the keyboard (8 characters maximum).
3. Click on "OK".
**Configuration**

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**Number of Canalis lines**

1. Choose the quantity of Canalis lines by clicking on proposal 1, 2 or 4.

   *Click on the digit and not on the icon.*

   The number of lines corresponds to the number of Canalis lines that feed the two rows of bays in the area.

---

**Number of plug-in outlets by Canalis line**

1. Click on "**Click to Define**" for enter the number of plug-in outlets*.
2. Enter the value on the keypad.
3. Validate by "**OK**".

   (*): **This is the total number of plug-in outlets available per Canalis line. This number varies depending on the installation method.**

---

**Positioning the area**

The area created beforehand is pre-selected.

1. Select the area orientation.
2. Use the directional arrows to position the area. Keep the directional arrow depressed to accelerate area movement.
3. Click on "**OK**" to validate.
3-2-2. Area configuration

Area configuration block diagram

Selecting the area

1. Select an area by clicking on it.

Area configuration

Definition of the buttons:
- **Configure Area**: Configure the selected area (Twido, line and PIU (plug-in unit)).
- **Edit Area**: Modify the properties (name / number of lines, etc) of the selected area.
- **Move Area**: Move and Orient the area in the room.
- **Delete Area**: Delete the selected area.

1. Click on "Configure Area".

Associate the AS-Interface coupler(s)

This step lets you select the coupler(s) used in the current area.

1. Click on the number(s) of the coupler to be allocated.

When the coupler has been defined, the "OK" button will appear.

2. Validate by "OK".

Reminder: the choice whether to use one or two couplers is determined by the number of PIUs installed (a maximum of 58 per coupler).
3-2-3. Line configuration

Line configuration block diagram

Selecting the line

This step lets you configure the Canalis lines of the current area (name, rating, address, etc.).

1. Click on the line to be configured.

Line name

1. Click on "Click to Define" to define the line name.
2. Enter the line name on the keypad.
3. Validate by "OK".

Note: define a different name for each line allow to differencie each.
**Configuration**

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### Line rating – Modbus address

1. Select the line rating.
2. Select the Modbus address.
This address matches the address of the Compact NSX Modbus Canalis line.
*(See diagram of the communication network of the room).*

*Note: see chapter addressing the Modbus interface - Operating guide part 1.*

### AS-Interface coupler

1. Select the line coupler.

Once all the parameters have been determined, the "OK" button will appear.
3. Validate by "OK".

*Note: this step is not necessary if only one coupler was selected when the area was created.*

### Configuration of the other lines

2. 3. 4. Repeat the steps:
3-2-3. Configuration of the lines for all the lines

Once all the Canalis lines in the area have been configured, the "OK" button appears.
5. Validate by "OK".
3-2-4. PIU (plug-in unit) configuration

PIU configuration block diagram

Selecting the outlet to add a PIU

This step lets you define all the PIUs for the Canalis line.

1. Select the outlet where the first PIU will be configured.

PIU name

1. Click on "Click to Define" to define the name of the PIU.
2. Enter the name of the PIU via the keyboard (8 characters max.).
3. & 4. Validate by "OK".

Note: define a different name for each PIU to distinguish them from each other.
### Number of AS-Interface modules

1. Select the number of AS-Interface modules present in the PIU. This value is linked to the characteristics and number of feeders.
2. Validate by "OK".

### AS-Interface address

1. Select an AS-Interface address*.
2. Validate by "OK".

Once the address has been allocated, it becomes grey on the screen (the address is no longer available for other modules).

**Note:** a green LED next to the AS-interface address indicates the presence of a module with this address on the bus.

(*) this address corresponds to the address of the 4-input module installed in the PIU.

### Glossary:

- **Allocated AS-Interface address with module presence on the bus.**
- **Free AS-Interface address with module presence on the bus.**
- **Allocated AS-Interface address without module presence on the bus.**
- **Free AS-Interface address without module presence on the bus.**

### Number of feeders

1. Enter the number of module feeders.
2. Validate by "OK".
3-2-5 Definition of feeders

Feeder name

Rating & type of Feeder

Selecting phases

Value of the power meter pulse

Configuration of the other feeders

Configuration of the other PIUs

Duplicate the configuration of an existing PIU

Configuration of the feeders

This screen displays the properties of each feeder.

1. Select the 1st table to define the attributes of the 1st feeder of the PIU.

Name of feeders

1. Click on "Click to Define" to define the name of the feeder.
2. Enter the feeder name via the keyboard (8 characters max.).
3. Validate by "OK".

Note: define a different name for each feeder to distinguish them from each other.

Rating and type of feeder

1. Select the feeder rating "Choose output's rating"
2. "Choose output type" to determine the type of feeder:
   - 1L+N: single-phase.
   - 3L+N: three-phase.
**Phase selection**

For a single-phase power supply, select the phase of the trunking that powers the feeder.
For a three-phase power supply, select whether you use one meter per phase (iEM2000T), or one meter for the 3 phases (iEM3110).
(cf. Electrical diagram of the installation and the “PIU addressing” document provided in appendix to the iBusway for Data Center Installation Guide).

**Value of the power meter pulse**

1. Click on the field to enter the value of the power meter pulse.
2. Enter the value on the numeric keypad (10 for an iEM2000T and 100 for an iEM3110).
3. The permissible values are 1, 2, 5, 10 and 100.
4. Confirm by pressing “OK” on the numeric keypad.
5. Confirm by pressing “OK”.

**Configuration of the other feeders**

Repeat the steps:
3-2-5. Definition of the feeders to define all the feeders.

*Once all the feeders have been defined, the “OK” button appears.*

Validate by “OK”.

**Configuration of the other PIUs**

1. Repeat the steps
   “3-2-4. PIU (plug-in unit) configuration and
   “3-2-5 Definition of feeders” for all the PIUs, as well as for each line.

*Note: the completed steps appear in grey.*

2. Once all the PIUs of all the lines have been defined, validate by "OK".
Duplicate the configuration of an existing PIU

To define all the PIUs more quickly, you can copy the configuration parameters of a PIU.
1. Select the PIU for which you want to copy the configuration.

2. Click on “Copy” to copy the configuration of the PIU.
3. Exit the screen via “Cancel”.

Note: “Erase PIU” lets you erase the PIU configuration parameters.

4. Select the PIU on which you want to paste the configuration characteristics.

5. Click on “Paste”.
6. Update the data (name, AS-Interface address, etc.) of the PIU see 3-2-4. PIU (plug-in unit) configuration.
7. Validate by “OK”.

Configuration
iBusway for Data Center
Configuration guide for Magelis
3-3. Finalisation of the following areas

Creating the following areas

1. Create a new area.
   see 3-2-1. Definition of a new area

To facilitate the user’s task, you can add an area that uses the parameters of an area that has already been created:
2. To do this, click on "Add from Existing Area".

Note: no area must be selected to access this button.

Selecting the area to be duplicated

1. Select the area to be copied.
2. Validate by "OK".

Defining the characteristics specific to the area

1. Modify the parameters specific to the area (at least its name).
   see 3-2-1. Definition of a new area.

Positioning the new area

1. Position the area just like the previous areas.
2. Validate by "OK".
Checking the areas

1. Click on an area to select it.
   The selected area appears in grey.
2. The box lets you check that the Twido / lines items are fully defined, once their index is "OK".
3. In this example, the PIUs are not defined.
   The "PIU OK" Led indicates that at least 1 PIU has been configured.
4. Click on "Configure Area" to enter the incomplete configuration.
   Select each area one by one to check that all the parameters have been entered.

Saving the configuration

No area should be selected.
1. Click on an area to deselect it.
2. When all the items of each area are "OK", the "Monitor" button appears.

Save your configuration.
3. either by clicking on "Save Configuration".
   2. or by clicking on the "Monitor" button and then saving when the "Pop-Up" window appears.
3-4. Configuration of the alarm thresholds

Alarm threshold configuration block diagram

1. Click on the "Monitor" button.
2. Save or not your configuration.

The thresholds define the load factor limit for which, the application must issue a "Warning".
3. Click on "Warning Rate" to define the line thresholds.
4. Enter the value as a %.
5. Validate by "OK".

(*) Load factor: load percentage of the protection circuit-breaker.
Configuration of the feeder alarm thresholds

1. Click on "Warning Rate" to define the feeder alarm thresholds.
2. Enter the value as a %.
3. Validate by "OK".

Choosing the type of auxiliary contact

1. Define the contact type:
   - OF status signalling,
   - SD tripping signalling.
2. Click on "OK" to validate.

Note: the choice of the auxiliary applies for all the PIUs. The SD and OF functions cannot be combined.
4. Supervision

4-1. Access to the Supervision mode

1. Select "Monitoring" from the homepage.

2. From the configuration screen, via each of the screens:
   - saving the configuration: "Save Configuration",
   - configuration of the alarm thresholds: "Alarm's rate configuration".
   (see 3-4. Configuration of the alarm thresholds)

4-2. Monitoring homepage

The main screen represents a view of the room and of the areas defined.

Glossary:
- **a**: Events.
- **b**: Room total power.
- **c**: Mini map (View of room in miniature).
- **d**: Button bar:
  - **Reset All (password)**: reset all the counters.
  - **Alarm (password)**: configuration of the alarm thresholds
    (see Configuration of the alarm thresholds).
  - **Home**: back to the homepage.
  - **Configure (password)**: see Modifying configuration.
4-3. Area status

A colour code lets you know the status of each area.

Glossary of colour codes:
- a: everything is OK (no overload on load factor).
- b: in SD configuration = opening of a circuit-breaker due to an overload.
  in OF configuration = opening of a circuit-breaker due to an overload.
  or a manual opening.
- c: everything is OK but the alert threshold has just been overshot
  (at feeder or line level).
- d: loss of communication.

4-4. Overshooting the alert threshold

The orange colour indicates that the alert threshold has been overshot
(at PIU or line level).
1 Click on the PIU for information for its consumption.

This is feeder “feed_1” for which the load factor is greater than the alert threshold.
4-5. Tripping the circuit-breaker

The red colour indicates circuit-breaker tripping or opening.
1 Click on the PIU or line for details.

*Note: in SD configuration, if circuit-breaker opening is manual, the icon remains green.*

4-6. Loss of communication

Display of a flashing icon indicates loss of communication with the relevant item.

*In this case:*
1. loss of communication with the NSX.
2. loss of communication of a PIU (at unit level).
4-7. Power and consumption

1. Click on an area to see the load factor for this area.

*Note:* each area is made up of two rows of bays.

2. Click on the line to zoom.

The detailed screen represents each line and each PIU of each area
(in this example: 4 lines and 20 PIUs per line).
Each line is represented by the line general icon, followed by the icons of each PIU.

1. Click on the main icon of the Canalis line to access the details of its consumption.
(see 4-8. Line consumption)

2. Click on the icon of a PIU to access the details of its consumption.
(see 4-9. Feeder consumption)

4-8. Line consumption

1. This screen lets you view line consumption in real time.

2. Click on "Room" to return to the main screen of the room.

3. Click on "Area" to return to the area screen.

**Glossary:**

- **Cos:** power factor.
- **THD:** total harmonic distortion.
- **Max Current:** maximum current since the last reset.
- **Reset:** used to reinitialise maximum current.
- **Power consumption of the line:**
4-9. Feeder consumption

This screen lets you view the consumption and maximum current since the last "Reset". This LED indicates the current status of the circuit-breaker. (see 4-3. Area status)

1. Click on "Room" to return to the main screen of the room.
2. Click on "Area" to return to the area screen.

4-10. Alarm log

1. Click on the events arrow to display the history.

4-11. Modifying the configuration

You can reorganise the configuration of the room (number of areas, lines, PIUs, etc.).

1. Click on "Configure" (see 3-2-2. Area configuration).
5. Webgate function

5-1. Enter the IP address of Magelis

1. Connect an USB keyboard to the connector on the front of Magelis.
2. Press CTRL + ALT + DEL to run the task manager.
3. End the "Vijeo Designer Runtime" task.
4. Go to the Start/All programs/Accessories/System tools/EWF Activator deactivator menu, and deactivate EWF to allow modification of the system.
5. Restart the PC.
6. Go to the Start/Control Panel menu.
   - Open "Network connections".
   - Right-click on "Local area connection 2".
   - Click on "Properties".
7. Click on Internet Protocol (TCP/IP).
Then on "Properties"
   Enter the fixed IP address of Magelis via which you want to access the Webgate function. Before this modification, the configuration should be:
   "Obtain an IP address automatically".
8. The sub-network mask is usually activated.
9. End by pressing "OK".
10. Restart the PC.

5-2. Webgate operation

1. Open Internet Explorer and enter the IP address of Magelis in the website address.
2. When using Webgate for the first time, you must install an Actvex control. This installation is performed by clicking on "Install Webgate control" on the Monitoring page.
3. Then, to access Webgate, click on "Webgate/New window" to go to the following page.
4. The default access codes (before customising) are:
   Username: Iflex.
   Password: ibusway.

Note: running the Webgate function for the first time takes several minutes, the time needed to preload the pages of the application. Wait until you obtain the home page.
6. Email function

When the Email function is activated in the application’s Setup page, it is necessary to first configure the PLC module which sends the Emails (see page 11).

6-1. Ethernet network connection

Check that the upper RJ45 connector of the BMX NOR00200H module of the PLC rack is connected to the Ethernet network from which you want to send your Emails.

6-2. Installing the Web Designer software

Install the Web Designer software, version 2.23 or higher, on the PC with which you are going to configure the electronic mail SMTP server.
Refer to the software documentation for the installation of Web Designer (delivered with the Ethernet module).
6-3. Communication module configuration

Open Web Designer
1. Click in the Project/Import Menu.
2. Select "ZIP file".
3. Click on "Next".

Select the "Env-Mail.zip" file (contact your Schneider Electric correspondent to obtain it).
4. Click on "Open".

Click on "End" to terminate file import.
### 6-4. Server configuration

#### Configuration of the electronic mail SMTP server

The dialogue box for configuration of the Email service properties is illustrated below.

Click on the Properties tab at the bottom of the page to access it.

The elements of the properties configuration dialogue box are as follows:

<table>
<thead>
<tr>
<th>Element</th>
<th>Function</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serveur SMTP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SMTP Server Address text box</td>
<td>SMTP address of the server</td>
<td>Fill in</td>
</tr>
<tr>
<td>SMTP Server Port text box</td>
<td>TCP port used by the SMTP server (usually port 25)</td>
<td>Fill in</td>
</tr>
<tr>
<td>Secure Authentication check box</td>
<td>Check this box if authentication is necessary to access the SMTP server</td>
<td>Depending on the network</td>
</tr>
<tr>
<td>Login text box</td>
<td>Login allowing access to the SMTP server</td>
<td></td>
</tr>
<tr>
<td>Password text box</td>
<td>Password allowing access to the SMTP server</td>
<td></td>
</tr>
<tr>
<td>Sender</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sender text box</td>
<td>Email address of the Email sender</td>
<td>Fill in</td>
</tr>
<tr>
<td>Reply address text box</td>
<td>Email address to which a reply will be sent when you click Reply</td>
<td></td>
</tr>
<tr>
<td>Module</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum size of sending queue</td>
<td>Maximum number of Emails that can be stored in buffer memory before being sent:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- default value = 100.</td>
<td>Do not modify</td>
</tr>
<tr>
<td></td>
<td>- minimum value = 30.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- maximum value = 200.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong>: when the maximum number of Emails (100) has been reached, no further message can be stored in the queue.</td>
<td></td>
</tr>
<tr>
<td>Time before re-send (in seconds)</td>
<td>Delay before Emails stored in the buffer memory are re-sent after the detection of an undelivered Email:</td>
<td>Do not modify</td>
</tr>
<tr>
<td></td>
<td>- default value = 15 s.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- minimum value = 5 s.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- maximum value = 3600 s.</td>
<td></td>
</tr>
<tr>
<td>Service</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service status variable text box</td>
<td>Use this parameter to determine the status of the Email service.</td>
<td></td>
</tr>
</tbody>
</table>
**Configuration of the Email service**

The Emails and SMS dialogue box is shown below.

Click on the tab at the bottom of the page to access it.

The elements of the Emails and SMS configuration dialogue box are as follows:

<table>
<thead>
<tr>
<th>Element</th>
<th>Function</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Send SMS</strong></td>
<td>Check box to send an SMS instead of an Email. This function does not work with telephones of the SAMSUNG and NOKIA brands.</td>
<td>Do not modify</td>
</tr>
<tr>
<td><strong>Identifier</strong></td>
<td>Email address or phone number (SMS) of the sender of the message.</td>
<td></td>
</tr>
<tr>
<td><strong>Trigger</strong></td>
<td>Evénement qui déclenchera l'Email.</td>
<td></td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>NY: Notify</td>
<td>Do not modify</td>
</tr>
<tr>
<td><strong>Destination</strong></td>
<td>Destination Email addresses or phone number (separator: «,»).</td>
<td>Fill in</td>
</tr>
<tr>
<td><strong>Subject</strong></td>
<td>A brief summary of the message’s contents.</td>
<td>Do not modify</td>
</tr>
<tr>
<td><strong>Content</strong></td>
<td>Type the content of the message in this area.</td>
<td></td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>Select the medium from which the attached file comes (not available for SMS’s).</td>
<td></td>
</tr>
<tr>
<td><strong>Path</strong></td>
<td>Indicate the name and path of the file to attach to the Email. Attachments are generally log files.</td>
<td>The default path is /SDCA/WEB/USERDATA.</td>
</tr>
</tbody>
</table>

Click on this button to attach a file to the Email (not available for SMS’s).