IV - Globiots configuration for dashboard and report

4.1 Dashboard

4.1.1 Dashboard Description

Dashboard views input text, current value and value from database. Each Dashboard is organized in one tab. When value is from database, dashboard will update the value after specific time. Dashboard consists of containers which contain widgets inside.

4.1.2 View Dashboard

- In Home screen, select menu Management → select sub-menu Dashboard to display current value of parameters.
- Screen of status “Dashboard”:
- Screen of status “Stop” of Dashboard:

- (1): Display list of Dashboard tabs which user are assigned to view
- Button “Run”: click to run Dashboard.
- Button “Stop”: click to stop selected Dashboard.
- Button “Delete”: click to delete Dashboard
- Button “Edit”: click to edit Dashboard
- Button “Add Container”: click to add new Container in Dashboard
- Button “Export”: click to export Dashboard to Excel File
- Button “Import”: Click to import Dashboard to Excel File

4.1.3 Create new Dashboard

- In Dashboard screen, click symbol “+” to create new tab
- New window display

- Name: Name of new Dashboard tab
- Stop realtime after: Running time of Dashboard to get realtime data from iConnector. After this period of time, Dashboard will stop to get realtime data from iConnector.

Click button “Run” on top right corner to continue to get realtime data

- Push Interval: Frequency to get realtime data from iConnector

 Click Save to complete creating new Dashboard

4.1.4 Create New Container

- In Dashboard tab, click Add Container to add new Container

- Title: Name of container
- Format: Font size, Style, Text color, Text align, Background.
- Poll Interval: Frequency to get logged data from database to view on Dashboard
- Layout: Select layout of container. There are 07 layouts select

 Click Save to complete creating Container

4.1.5 Configure a Container

(1): Edit Container
(2): Delete container.
Click SETTING icon to Edit Container. Following screen will appear
- Click Add Widget to add new widget

Note: Stop Dashboard before configure Container/Widget

4.1.6 Widget

4.1.6.1 Widget Description

Widget is a basic element of Dashboard to view constant, value of parameter. Currently, Vizuo has below widgets

After select widget click Add to add new widget to Container

4.1.6.2 Widget Table

- Paging: Tick to view table more than one page
- Border: Select type of border: None, Border and Inside

- New Column: Click to add new column
- New Row: Click to add new row

- : Move column
- : Close/Delete column or row

- Configure Row
- After clicking SETTING icon, configuration screen for new row will appear

Choose Data type: Constant (input text), Data from Database (Device Name, Parameter Name, Unit of Parameter, Last value of parameter in Database, time stamp of last value), Data from device (Realtime Data or Current Data). Realtime data is data push from iConnector and Current Data is data pull from iConnector
Up/down icon: Tick to add up/down icon. Up icon appears when last value is less than current value whereas down icon appears when last value is greater than current value. These icons are available when realtime data is displayed in cell
Mapping: tick Mapping and list out value and mapped text, then click + icon to add mapping value. Mapping should be used to view meaningful text instead of value

4.1.6.3 Widget Line Chart

Click SETTING icon to configure widget Line Chart, the following screen appear

- Title: Line Chart name
- Style: Format of Title
- YAxis: Fixed or Auto. If choose Fixed, enter min & max value. If select Auto, software will specify Max of Y axis based on value of displayed parameter.
- Type: Data type of parameter to view (Data from device or from database)

Type Device: Realtime data and display Max point value on line chart
Type Database: Logged data from database, time period include: Today, Yesterday, Last 3 days or Custom (From...To)

- Line configuration: Select displayed parameter and displayed label (input text, parameter name or device name)

Click Add button to add parameter to line chart. A line chart could view
some parameters

4.1.6.4 Linear Gauge

Click SETTING icon to configure widget Line Gauge, the following screen appear

- Title: Name
- Style: Format of title
- Direction: Vertical or Horizontal Linear Gauge
- Min, Max: Range of Gauge
- Range Color: Auto or Custom

Auto: Color of Gauge changes according to value of parameter
Custom: Configure specific color to specific range of value of parameter

- Data: Select type of display parameter (last logged data from Database or current value/realtime value from Device
- Device/Parameter: Select displayed parameter
- Write: Tick to enable to write value to parameter. Writing value to parameter by holding and drag on body of Linear Gauge

Click Save Changes to complete configuration

4.1.6.5 Solid Gauge

Click SETTING icon to configure widget Solid Gauge, the following screen appear

- Title: Name
- Style: Format of title
- Min, Max: Range of Gauge
- Range Color: Auto or Custom

Auto: Color of Gauge changes according to value of parameter
Custom: Configure specific color to specific range of value of parameter

- Data: Select type of display parameter (last logged data from Database or current value/realtime value from Device
- Device/Parameter: Select displayed parameter

Click Save Changes to complete configuration

4.1.6.6 Circular Chart

Click SETTING icon to configure widget Solid Gauge, the following screen appear

- Title: Name
- Style: Format of title
- Min, Max: Range of Chart
- Range Color: Auto or Custom
- Auto: Color of Chart changes according to value of parameter
- Custom: Configure specific color to specific range of value of parameter
- Data: Select type of display parameter (last logged data from Database or current value/realtime value from Device)
- Device/Parameter: Select displayed parameter
- Write: Tick to enable to write value to parameter. Writing value to parameter by holding and drag on body of Circular Chart

Click Save Changes to complete configuration

4.1.6.7 Column Chart

Click SETTING icon to configure widget Solid Gauge, the following screen appears
- Title: Column Chart name
- Style: Format of Title
- Type: Data type of parameter to view (Data from device or from database)
- Type Device: Realtime data
- Type Database: Logged data from database, last value or value series in time period include: Today, Yesterday, Last 3 days or Custom (From…To)
- Column configuration: Select displayed parameter and displayed label (input text, parameter name or device name)

Click Add button to add parameter to column chart. A column chart could view some parameters

4.1.6.8 Control Panel

Click SETTING icon to configure widget Control Panel, the following screen appears

- Tittle: Name of Control Panel
- Style: Format for tittle
- Column: Number of column of Control Panel
- Row: Number of row of Control Panel
- Click Add button to add new symbols

Choose one symbol and click Add
• Configure Simple Button
After adding Simple Button, following screen appear:
- Tittle: Name of Button
- Style: Format of Tittle/Label
- Label: Label on Button
- Parameter: Select written parameter. This parameter should have address in range 3000-307F
- Value: Value to write to parameter. If this value is blank, when the button is clicked the user should enter the value.

Click Add to add button. User could add some buttons in one widget
- Configure Advanced Button

After adding Advanced Button, following screen appear:

- Tittle: Name of Button
- Style: Format of Tittle/Label
- Label: Label on Button
- Parameter for reading: Select reading parameter.
- Operator: Logical Operator of Reading parameter and mask
- Mask: Mask to calculate written value. Mask format is binary or Hexa
- Parameter for reading: Select written parameter. This parameter should have address in range 3000-307F. Written value is the result of reading value and mask with logical operator

Click Add to add button. User could add some buttons in one widget
- Configure Led

Led will change its color when parameter changes value.
After adding Advanced Button, following screen appear
- Tittle: Tittle of LED
- Style: Format of LED tittle
- Parameter: Select Parameter to display
- Label: Label for LED
- Mapping Table: Define list of displayed label and color according to value of parameter
- Click Add to add LED

4.1.6.9 Map

Map shows location of iConnector (longitude and latitude) on map
Click to configure widget Map:
- Tittle: Name of Map
- Style: Format of Tittle
- Device List: iConnector list to display location (longitude and latitude)
- Device: Select iConnector name
- Location: Configure longitude and latitude parameter. Location are static or dynamic

If location is static, user enter value of longitude and latitude
If location is dynamic, configure longitude and latitude parameter

4.1.6.10 EMS Report

EMS Report views report for energy consumption during period of time
Click SETTING icon to configure widget EMS report, the following screen appears:

- Tittle: Report title
- Style: Format of tittle
- Report type: Daily, Weekly, Monthly
- Data range: Today, yesterday, last month, this month, last week, this week
- Column Configuration: Configure displayed value of parameter and displayed name of parameter

Click Add to add parameter for report

4.1.6.11 Pie Chart

Pie Chart compares values between some parameters. Click to configure widget EMS report, the following screen appears:

- Tittle: Tittle of pie chart
- Style: Format of tittle
- Type: Data type, realtime data or current value of device or last value in database
- Configuration: Configure displayed value and displayed name of parameter

4.2 Report

4.2.1 Create a new report

- To create a new report:
  - In menu Management, select Report
  - In Report page select “+ ” to create a new tab

Enter full information
  - o Name: Name of Report tab
  - o Report Type: EMS (for energy), CNC (for CNC machine), Historical Trending (for parameter trend)
  - o Parameter Configuration:
    - Name: Name of parameter which display in report. Name might input text or name of parameter.
    - Device: select Device
    - Parameter: select parameter of device which you want display
    - Click “Add” to add parameter. A report might have some parameter
  - o After complete adding parameter, click “save” to finish

4.2.2 Configure Report

- In Report page, select Report name which you want configure

- Click “Delete” to delete report
- Click “Edit” to edit report

  - To edit available parameter, click SETTING icon in Action column, edit parameter, click Update
  - To delete parameter, click X icon in Action
  - To Add new parameter: enter full information and click “Add”

4.2.3 View report

Select Time in “From … To …” and click “Show” to view data of parameters on report tab

Click on name of parameter (below report) to temporarily ON/OFF parameter on report

4.2.4 Export report

After click button Show to view report, click three line icon on top right corner of screen, select Export to Excel or Export to pdf or Export to csv
  - Click Export to Excel, select version of Excel (2003 or 2007), click Export. The exported file will be store on your PC
  - Click Export to csv, select version Date Format in csv file, click OK. The exported file will be store on your PC
  - Click Export to pdf, the exported file will be store on your PC

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