CONTEC
Technology for a better life

CONPROSYS™ Industrial IoT
Test report for AirGRID

Monday, October 30, 2017
CONTEC Co., Ltd.

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Device list for Test

Item Name	Model	Manufacturer	Serial number
AirGRID Receiver	WDR-L-Z2	PATLITE	165172
AirGrid Transmitter	WDT-5LR-RZ2	PATLITE	58C232FFFE576754
M2M Controller	CPS-M341-ADSC1	CONTEC	FKRKS19000114
Network HUB	—	—	—
Laptop PC	—	—	—

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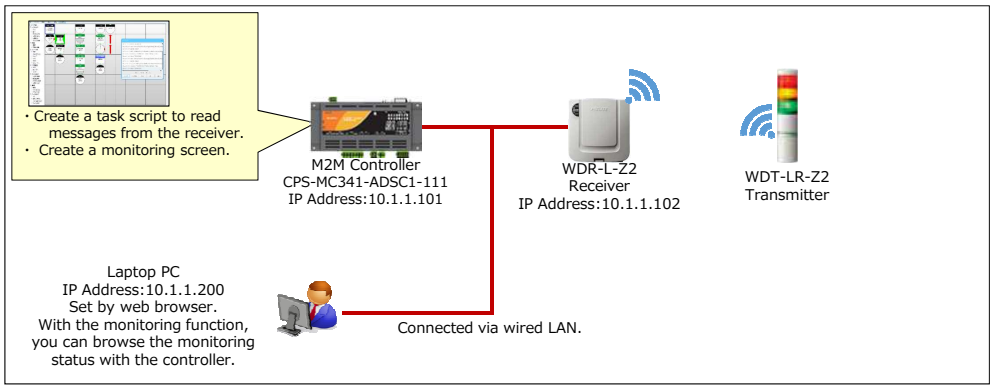
Connection state

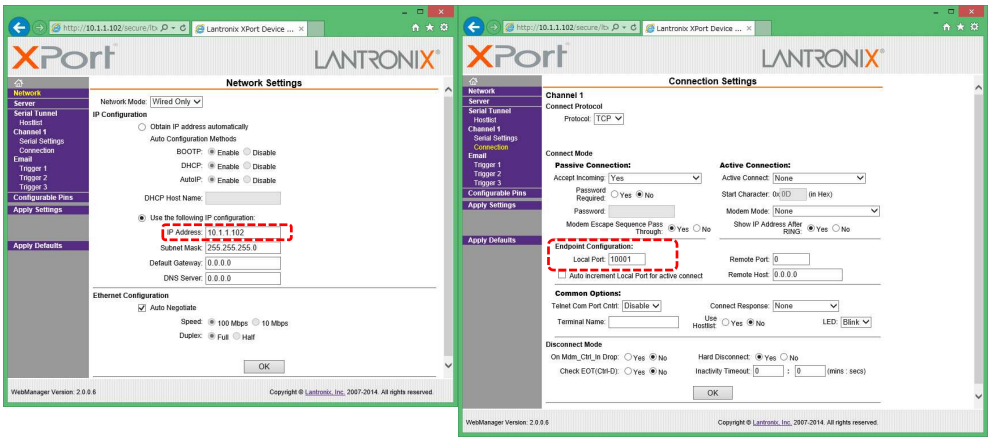
Overview

AirGRID Receiver(WDR-L-Z2), M2M controller and Laptop PC are connected via wired LAN as below. WDR-L-Z2 receives the signal tower's LED status of AirGRID transmitter(WDT-LR-Z2) by wireless ZigBee technology. On Laptop PC(or Tablet PC) the customer can monitor the LED's status through M2M controller which asks WDR-L-Z2 the current LED's status with Web browser like Google Chrom or Microsoft IE.



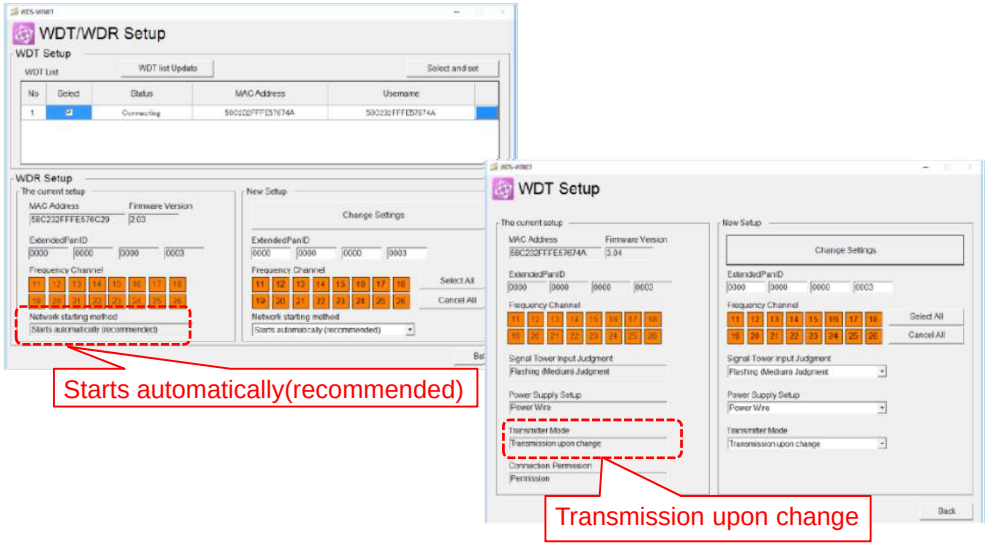
Network setting for WDR-L-Z2 Receiver

Confirm the setting state of IP address and port number for receiver.



AirGRID settings

Example of Setting for AirGRID receiver and transmitter.

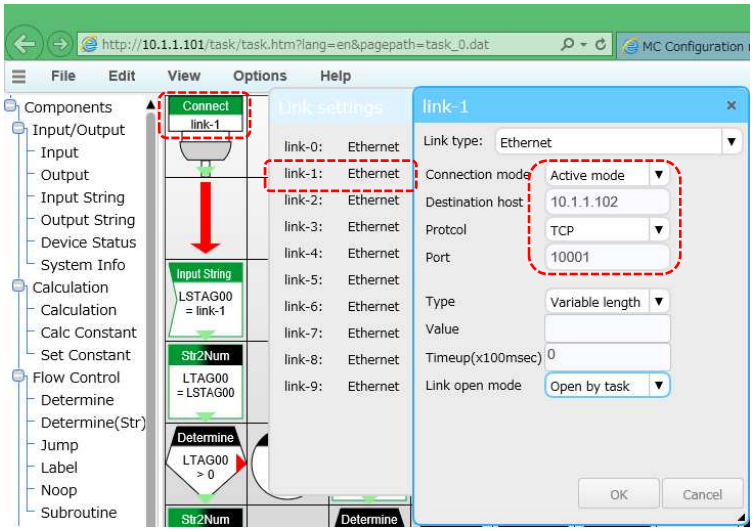


How to restore Task on M2M Controller(CONPROSYS)

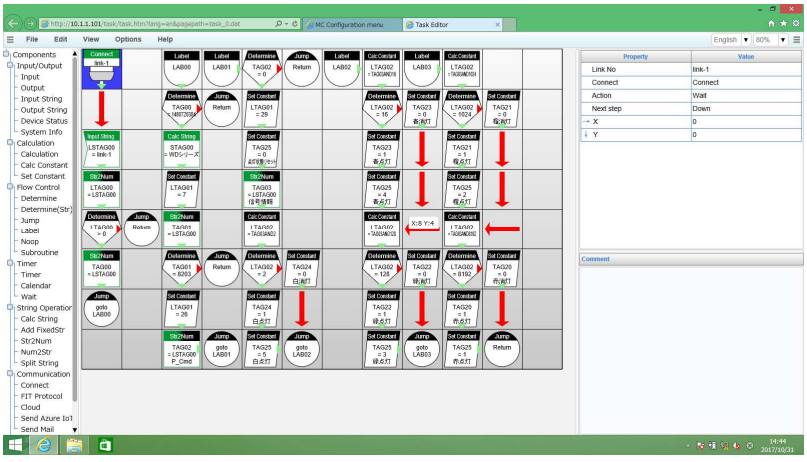
1. Open M2M Controller with Web Browser on Laptop PC.
2. Login to M2M Controller setting menu
3. Select［File]−[Open from local disk…］on the Task edit
4. Select "xxxxxxx.dat" file from the folder where you extracted the downloaded file, and click [Open].

How to restore Task

5. Select [Options] - [Link settings ...] and click [Detail ...] in [link - 1] on the Link settings screen to set it as shown below.



Task Programming



This is example of the task to acquire the lighting / extinguishing state on one indicator light. This example handles five colors status.

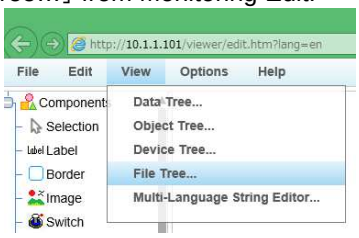
It may be possible to handle 10 indicator lights with adding more the task program by yourself. And it may be limit to handle 5 indicator lights if you want to monitor the blinking status as well.

The meaning of TAG

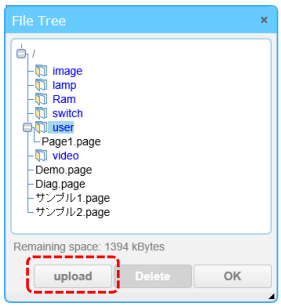
TAG	The meaning of TAG	Data
TAG20	Red lighting state.	1：on 0：off
TAG21	Orange lighting state.	1：on 0：off
TAG22	Green lighting state.	1：on 0：off
TAG23	Blue lighting state.	1：on 0：off
TAG24	White lighting state.	1：on 0：off
TAG25	The whole status of indicator light	0:off 1：Red 2:Orange 3:Green 4:Blue 5:White When several color lights are turned on at the same time, a small number is set.

How to restore Monitoring Screens

1. Select [View]-[File Tree…] from Monitoring Edit.

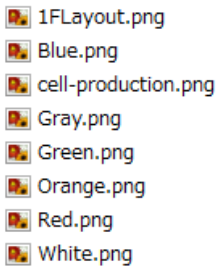


2. Select the [user] folder on the “File Tree” screen and click [upload].



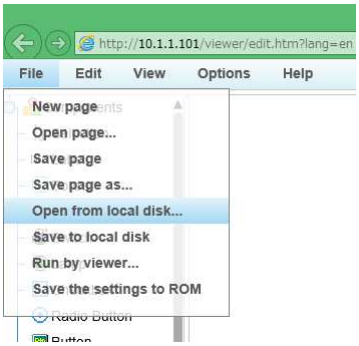
How to restore Monitoring Screens

3. Click upload to select a file. Select the following files.



How to restore Monitoring Screens

4. Select [File]-[Open from local disk…] from Monitoring Edit.

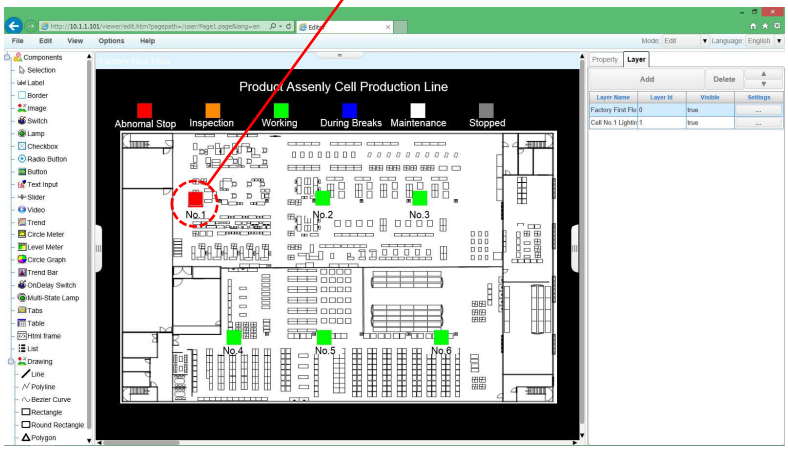


5. Select "xxxxxxx.page" from the folder where you extracted the downloaded file, and click [Open].

Structure of Monitoring Screen

Layer Name：Factory First Floor

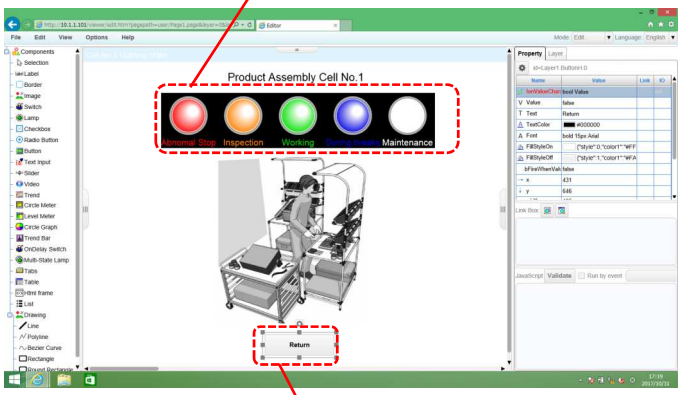
The status of the whole indicator light is displayed in this rectangular image.
A transparent color button is superimposed on a rectangular image.
Clicking on the button transitions to "Cell No.1 Lighting State".



Structure of Monitoring Screen

Layer Name：Cell No.1 Lighting State

Place five "Multi-Sate Lamps" and display the lighting status of each color.



Click "Return" to switch to "Factory First Floor" layer.