How can I retain the settings and I/O module history when replacing a faulty controller with a spare?

IoTstar identifies each controller by its hardware serial number. Even if a spare controller has the same model and settings as the faulty controller, IoTstar treats it as a new controller because its hardware serial number is different.

After replacing a controller, you must manually change the faulty controller's channels in the dashboard to those of the spare controller; otherwise, values cannot be displayed. In addition, the database tables that store I/O module history are named using the controller's hardware serial number. The spare controller's I/O module data is therefore stored in new tables instead of being appended to the original tables, resulting in a break in data continuity.

IoTstar provides the “Device Replacement” and “Copy Data Table” functions to simplify replacement of faulty controllers and address these issues. The following sections explain both functions.

- Device Replacement

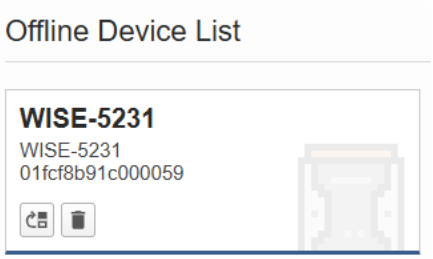
The Device Replacement function transfers the faulty controller's settings to the spare controller and updates the related settings in IoTstar. It performs the following actions:

1. Transfers the faulty controller's most recent configuration file to the spare controller.
2. Updates the dashboard service settings to use the spare controller in place of the faulty controller.
3. Updates the grouping settings to use the spare controller in place of the faulty controller.

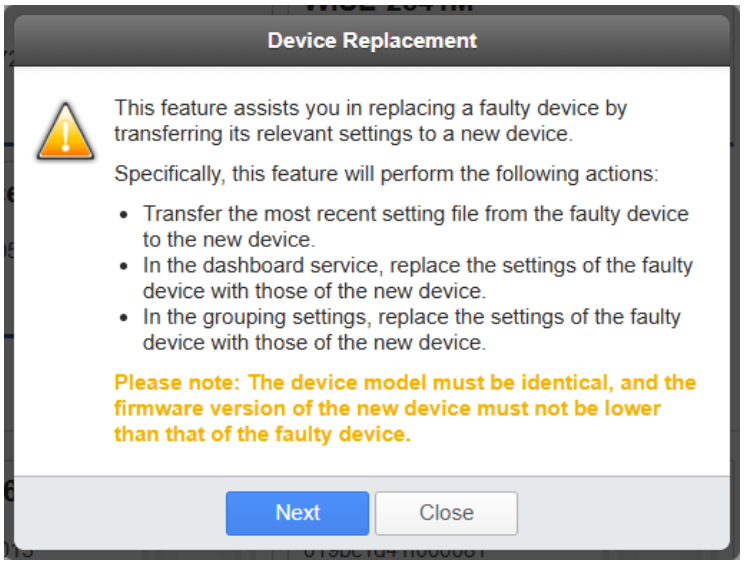
Note: The spare controller must be the same model as the faulty controller, and its firmware version must be the same or later.

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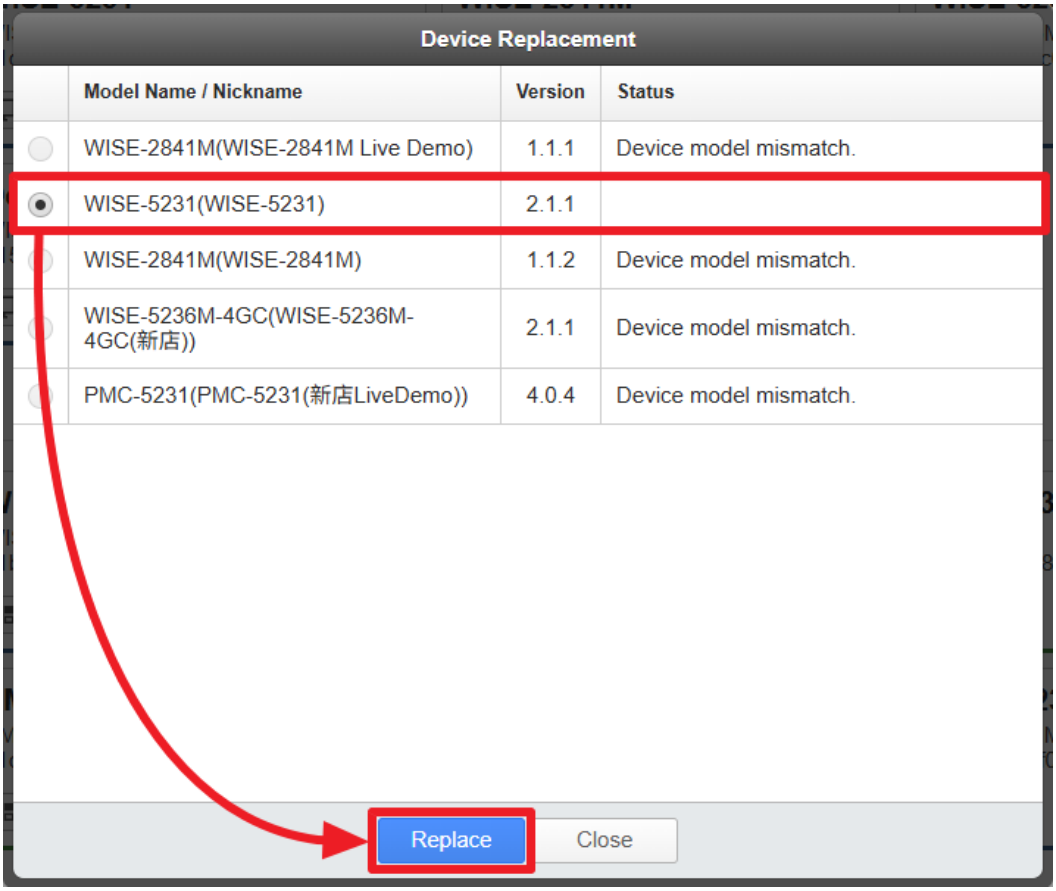
After replacing the faulty controller with a spare, connect the spare controller to IoTstar. Open the “Device Maintenance” page, find the faulty controller in the “Offline Device List”, and click its button to start device replacement.



Read and confirm the precautions, then click “Next” to open the device replacement window. Select the spare controller and click “Replace”. The system automatically transfers the settings and updates the related settings to use the spare controller.



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- Copy Data Table

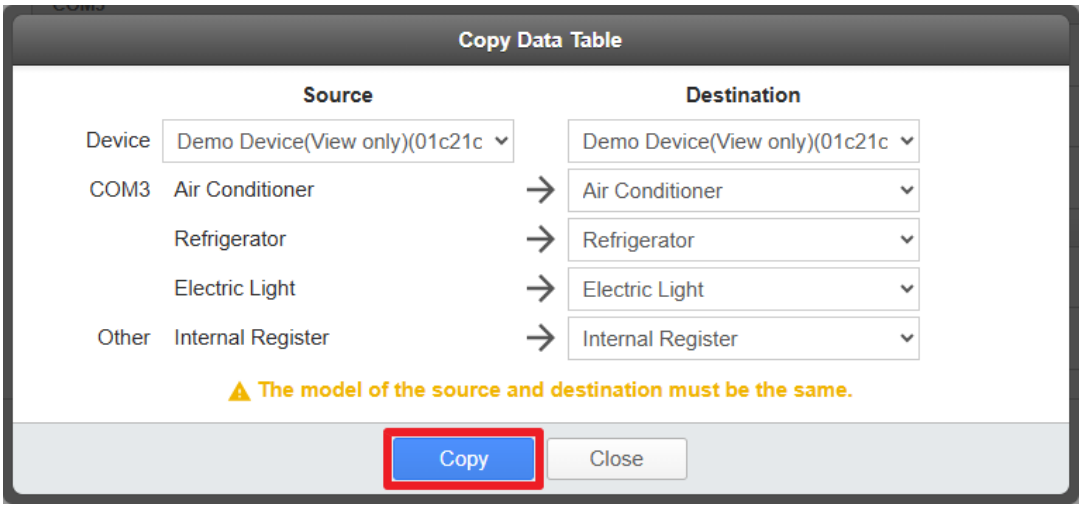
The Copy Data Table function copies data from the faulty controller's I/O module tables to the corresponding I/O module tables for the spare controller. This makes the existing history available in the newly created tables, preserving data continuity.

After replacing the faulty controller with a spare, connect the spare controller to IoTstar. Open the “Database Table List” page and click the button in the “Device” list to start copying data tables.



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In the “Copy Data Table” window, select the faulty controller as the “Source” device and the spare controller as the “Destination” device. Add or remove I/O modules from the copy selection as needed, then click “Copy”. The system copies the table contents to preserve the completeness and continuity of the data for the I/O modules connected to the spare controller.



Note: Each “Source” I/O module must be the same model as its “Destination” I/O module. If the “Destination” device has no I/O modules, first run “Device Replacement” to apply the faulty controller's settings to the spare controller, then run “Copy Data Table”.

For more information about “Device Replacement” and “Copy Data Table”, refer to the IoTstar User Manual.

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