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Firmware Release Notes

TSXWMY100

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WMY100 Version 1.7 Release Notes

1. ENHANCEMENT: THAT THE STATUS WORD OF THE DATABASE SERVICE DIAGNOSTICS REFLECTED ALL SQL ERRORS

1.1 Issue

Unity 6 returns a 'Send message action failed. PLC is busy or request is invalid' error.

1.2 Resolution

The handling of new downloaded configurations in the device have been resolved to prevent Unity Pro TCP disconnections when updating the controller through the Ethernet module IP address.

1.3 Customer action

Upgrade the WMY100 firmware.

2 FIX FOR LOSS OF WEB CONNECTION

2.1 Issue

Repeated access to the diagnostic statistics web page causes web server connection to break.

2.2 Resolution

A race condition was occurring that led to an endless loop. This was corrected and the loop will no longer occur.

2.3 Customer action

Upgrade the WMY100 firmware.

3 SQL DATABASE DID NOT RECOGNIZE DATE DATATYPES

3.1 Issue

Unity and SQL had different string formatting for the date. This prevented the date from being written correctly to the database.

3.2 Resolution

The WMY will now change Unity's representation before writing it to the database.

3.3 Customer action

Upgrade the WMY100 firmware.

4 AT TIMES, THE SQL REQUESTS WOULD LOCK-UP AFTER A NUMBER OF EXCHANGES BETWEEN HMI AND DATABASE

4.1 Issue

This came about because there was an incomplete closing of resources at times, leading to an apparent memory leak.

4.2 Resolution

Connections are closed completely and the resources are cleaned up. The possibility of a memory leak has been essentially eliminated.

4.3 Customer action

Upgrade the WMY100 firmware.

5 E-MAILS DO NOT ALWAYS GET SENT AS EXPECTED AND THERE ARE NO RETRY ATTEMPTS TO SEND

5.1 Issue

At times e-mails, when an event triggered them, were sent to a wait queue that was not executed immediately, they were not always sent, or the order in which they were sent was not the same as the order in which they were generated.

5.2 Resolution

E-mails will be sent as they are generated (and not put on email wait queue) given there is a healthy Ethernet link and Mail server.

5.3 Customer action

Upgrade the WMY100 firmware.

6 THE RECIPE DATABASE FUNCTION TAKES TOO LONG TO UPDATE VARIABLES IN THE PLC

6.1 Issue

Registers had been written one by one to the PLC. This is a very inefficient method of communication.

6.2 Resolution

Registers are now written as multiples. That is there are many registers written in each message. This results in a significant improvement in performance.

6.3 Customer action

Upgrade the WMY100 firmware.

7 E-MAIL STATUS VARIABLE DOES NOT SHOW CORRECT STATUS UNDER CERTAIN CONDITIONS

7.1 Issue

When performing online updates on the Unity application, the communication between PLC and WMY was broken due to change in the connection handling.

7.2 Resolution

Connection handling has been improved. This was corrected and now the Status variable behaves as designed.

7.3 Customer action

Upgrade the WMY100 firmware.

8 WEB DESIGNER LOSES CONNECTION AFTER A PERIOD OF TIME AND DATABASE SERVICE STOPS RUNNING

8.1 Issue

The connection timeout had been incorrectly set. This led to a loss of connection on reset.

8.2 Resolution

The timeout has been set correctly. It has been increased leading to much greater stability.

8.3 Customer action

Upgrade the WMY100 firmware.

9 RECIPE SERVICE STOPS RETRIEVING DATA FROM SQL SERVER DATABASE BUT CONTINUE TO WRITE TO THE TABLES

9.1 Issue

The recipe service was not correctly handling connection errors.

9.2 Resolution

Connection handling has been improved in general. Connection errors in particular are now handled correctly and this condition should not arise.

9.3 Customer action

Upgrade the WMY100 firmware

10 THE RECIPE DATABASE CANNOT HANDLE NULL VAULES

10.1 Issue

The recipe service was handling NULL variables using a method that could result in null pointers..

10.2 Resolution

This has been corrected and RecipeDB Service now can handle NULL values read from the Database Server.

10.3 Customer action

Upgrade the WMY100 firmware

11 COLUMN WIDTH CANNOT BE CHANGED EVEN THOUGH USER MANUAL STATES THAT IT CAN BE

11.1 Issue

The variable definition for the width of the database column in a run-time library was incorrect. This prevented the size of the column from being changed.

11.2 Resolution

Changes were made to the run-time library allowing changes to the width of the columns.

11.3 Customer action

Upgrade the WMY100 firmware

12 REPEATED ACCESS TO THE DIAGNOSTIC STATICS WEB PAGE CAN CAUSE THE WEB SERVER CONNECTION TO BREAK

12.1 Issue

Repeated access to the diagnostic statics web page can cause the web server connection to break. This results in freezing the web pages and preventing new connections from being made.

12.2 Resolution

When the web page was refreshed very rapidly and repeatedly a race condition could develop. This has been corrected and the pages will refresh without causing the server to fail.

12.3 Customer action

Upgrade the WMY100 firmware.

13 IF A COLUMN IS DELETED FROM THE TABLE IN THE RECIPE SQL DATABASE, THE VALUE IN THE 'SERVICE STATUS VARIABLE' DOES NOT CHANGE

13.1 Issue

The variable definition for the width of the database column in a run-time library was incorrect. This prevented the size of the column from being changed.

13.2 Resolution

When the web page was refreshed very rapidly and repeatedly a race condition could develop. This has been corrected and the status variable will refresh when the column width is changed.

13.3 Customer action

Upgrade the WMY100 firmware.