ABB MEASUREMENT & ANALYTICS | TECHNICAL BULLETIN

Software Update

300 MHZ RMC-100

AUGUST 26, 2022 | 2106369TB-TB214 REV AB

1 Introduction

This document provides a procedure to apply a software patch for the 300 MHZ RMC-100 devices that are installed in the field. This patch will prepare the device for upgrade to the versions listed in Table 1 Software Versions.

IMPORTANT NOTE: The procedure must be performed before the software is updated with the versions below. Failure to do so might render the device unusable.

2 Description

Field upgrade of the 300MHZ RMC-100 to the software versions below has caused compatibility issues with the OS and Flash. ABB has provided a software patch to prevent these issues.

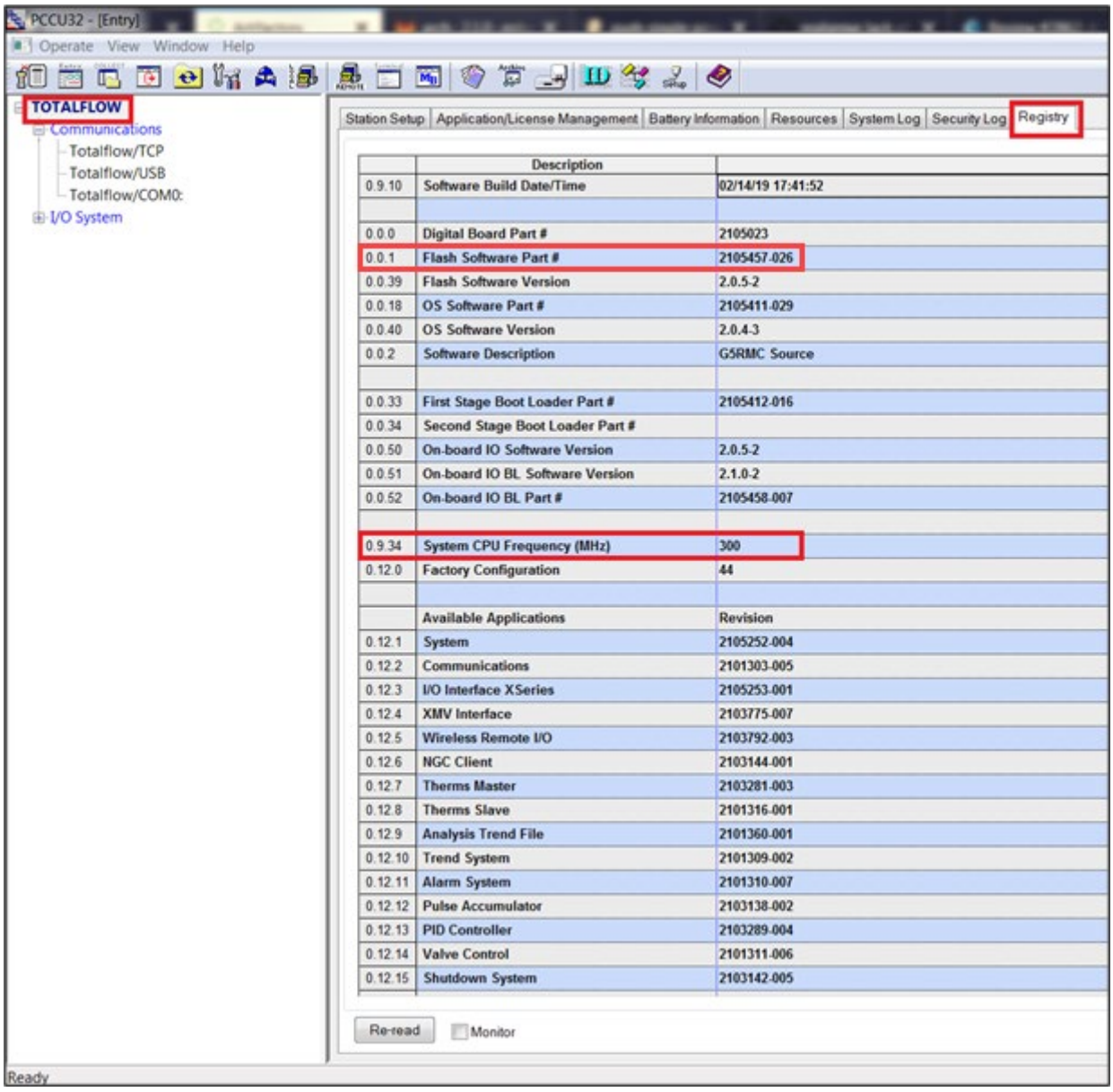
Table 1 Software Versions

Package Name	Package / Software Version Number
Customer Package	2105452-030 or later
OS	2105411-030 or later
Flash	2105457-027 or later

3 Identify the RMC-100 set at 300 MHZ

To identify devices requiring or eligible for the patch:

1. Connect with the device using PCCU Entry Mode. The latest version of PCCU is recommended for this procedure.
2. Click the station ID on the navigation tree (Default Station ID is **TOTALFLOW)**. See the following figure.
3. Click **Registry**.
4. Locate the **System CPU Frequency (MHz)** parameter. Verify this value is 300.
5. Locate the **Flash Software Part #** parameter. Verify this value is 2105457-xxx. If the flash part number on your RMC does not match this value, the RMC is not eligible for this software update.
6. If the parameters values specified in steps 4 and 5 match those on your RMC, then the RMC is eligible for this software update. Proceed to section 4 Preparation and then section 5 Update procedure to complete the update.



4 Preparation

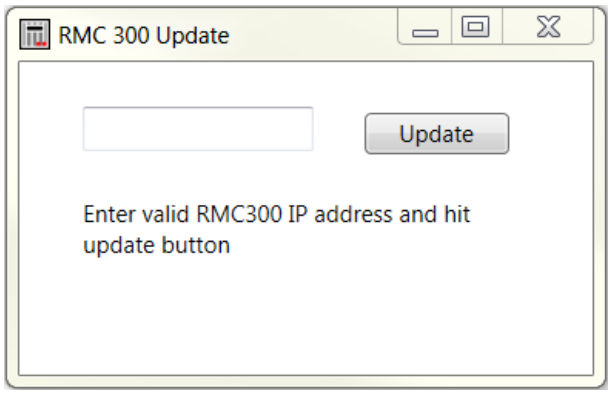
Before applying the patch:

1. Make sure that the device is running at 300 MHZ (as described in section 3).
2. Obtain and install the update software.
    a. Call customer support for directions for downloading the software.
    b. Unzip the RMC300Update.zip file onto the PC.
3. Make sure that the RMC Ethernet port is enabled and connected to the network with a valid IP address.
4. Make sure that the security switch on the RMC board is off.

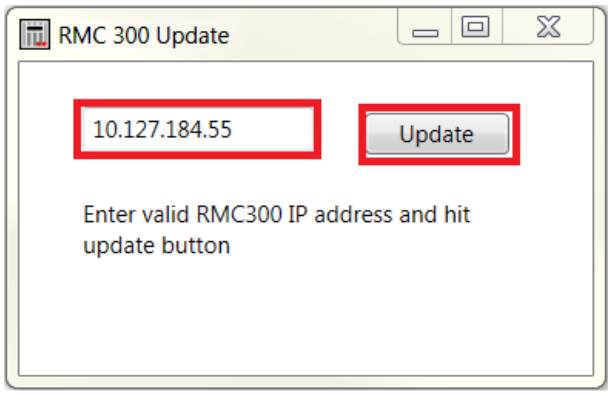
5 Update procedure

IMPORTANT NOTE: The procedure involves **automatic restart** of the device. All required procedures should be followed to enable the reset.

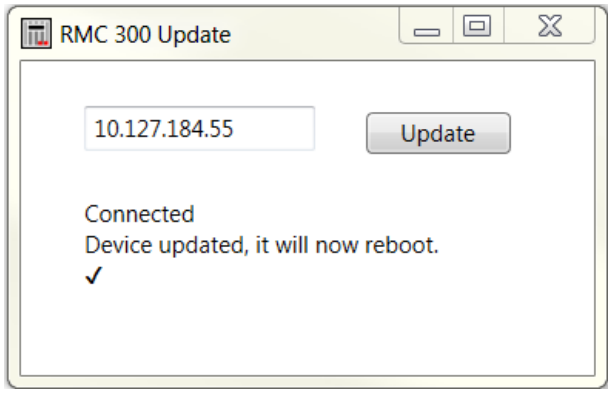
1. Double click **RMC300Update.exe**. The following window displays.



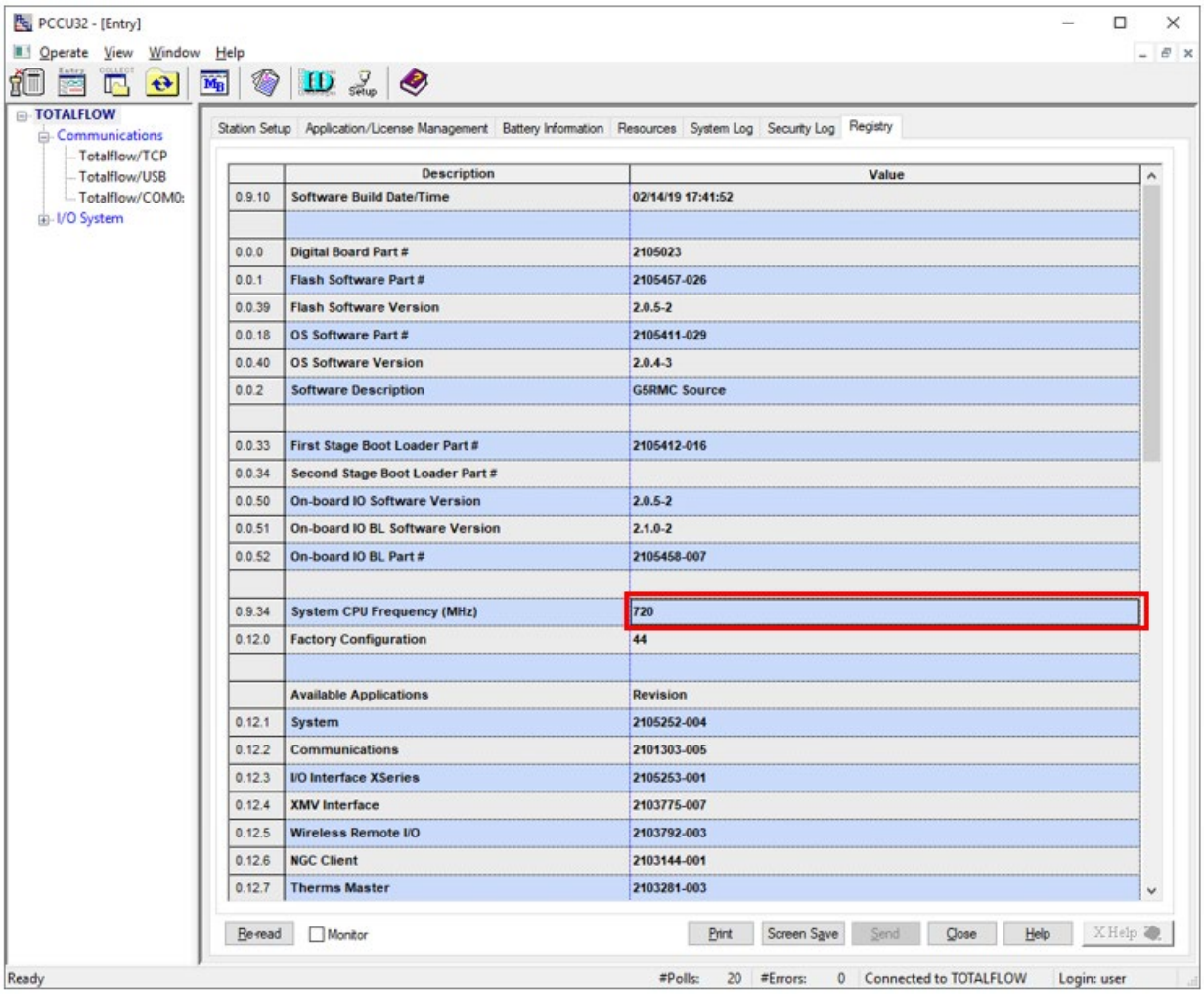
2. Enter the IP address of the RMC 300 MHz device in the window provided, click **Update**.



3. If the procedure is successful, the following messages are displayed as shown in the image below.



4. Wait for the device to restart.
5. Reconnect with the device using PCCU.
6. Verify that the System CPU Frequency is set to 720 (see figure below), using the steps in Section 4.


PCCU32 - [Entry]
Operate View Window Help
TOTALFLOW
Communications
Totalflow/TCP
Totalflow/USB
Totalflow/COM0:
I/O System
Station Setup
Application/License Management
Battery Information
Resources
System Log
Security Log
Registry
Description
Value
0.9.10 Software Build Date/Time 02/14/19 17:41:52
0.0.0 Digital Board Part # 2105023
0.0.1 Flash Software Part # 2105457-026
0.0.39 Flash Software Version 2.0.5-2
0.0.18 OS Software Part # 2105411-029
0.0.40 OS Software Version 2.0.4-3
0.0.2 Software Description G5RMC Source
0.0.33 First Stage Boot Loader Part # 2105412-016
0.0.34 Second Stage Boot Loader Part #
0.0.50 On-board IO Software Version 2.0.5-2
0.0.51 On-board IO BL Software Version 2.1.0-2
0.0.52 On-board IO BL Part # 2105458-007
0.9.34 System CPU Frequency (MHz) 720
0.12.0 Factory Configuration 44
Available Applications Revision
0.12.1 System 2105252-004
0.12.2 Communications 2101303-005
0.12.3 I/O Interface XSeries 2105253-001
0.12.4 XMV Interface 2103775-007
0.12.5 Wireless Remote I/O 2103792-003
0.12.6 NGC Client 2103144-001
0.12.7 Therms Master 2103281-003
Re-read
Monitor
Print
Screen Save
Send
Close
Help
XHelp
Ready
#Polls: 20
#Errors: 0
Connected to TOTALFLOW
Login: user

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