

BCC Reader Firmware Evaluation Version 1.0.

August 6, 2008

DA Line Item: 2

Description: Storage Card 2. The absence of the card in certain conditions will generate Boot Loop Errors.

Evaluation Results: This problem has been corrected. Performed extensive testing without errors.

DA Line Item: 3

Description: I/P addressing issues and testing. Reader IP addresses cannot be changed.

Evaluation Results: This problem has been corrected. I can change the reader I/P address and were able to successfully "Ping" reader on our network. I do not really have a good way to test thru put via Ethernet or send data to an Ethernet port #

DA Line Item: 4

Description: Deletion of log file in Storage Card1. The log file cannot be deleted. This is not true for Storage Card # 2

Evaluation Results: Problem has not been resolved. When trying to delete \Storage Card\LogFile.dat\ from the internal card Storage Card1, the reader returns, "Storage Card Doesn't Exist"

DA Line Item: 5

Description: Added GET Reader ID XML Command

Evaluation Results: The command was already in the XML command set. It should have been stated that the reader ID needs to be a line in the status dump, preferably the first line.

DA Line Item: 6

Description: Attach unique identifier to real time transmitted spurious tag codes. Requires enhancement of the current algorithm.

Evaluation Results: Problem has not been resolved; at least that I can tell. We captured raw XML data from the reader that contains a spurious tag and could not see any unique identifier within the XML tag. Below in bold is the spurious tag code that was captured.

```
<TAG id="3D9.257C6C49FA" ts="20080804:144229.758 -07:00" rd="01" ch="0"
sq="00005958"/>
<TAG id="3D9.257C6C49FA" ts="20080804:144232.867 -07:00" rd="01" ch="0"
sq="00005959"/>
```

<TAG id="3D9.257C6C49FA" ts="20080804:144233.750 -07:00" rd="01" ch="0" sq="00005960"/>

<TAG id="3D9.257C74417A" ts="20080804:144236.563 -07:00" rd="01" ch="0" sq="00005961"/>

<TAG id="3D9.257C6C49FA" ts="20080804:144251.609 -07:00" rd="01" ch="0" sq="00005962"/>

DA Line Item: 7

Description: While in standby reader generates Out of Tune alarms.

Evaluation Results: It appears that the reader is not generating any Out of Tune alarms while the reader is in standby or not even when the reader is severely detuned. Checked to see that the command Get No Out of Tune was turned off.

DA Line Item: 8

Description: Current and Voltage calibration values and reader ID values return to the Raw A/D values and the reader ID resets to 00 when the default parameter command is issued.

Evaluation Results: The problem has been corrected.

Summary

Although extensive testing has been done on newly revised firmware Ver. 1.0, regression testing will need to continue as new revisions are created.

We are in the process of checking performance and read range. This is being done to ensure that the reader has not suffered a performance hit due to the rework of the firmware.