

TASER X26 CEW with P101 RF ID Scanner



VALIDATION TEST REPORT

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DOCUMENT SIGNOFF

This report is approved for release by the following;

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REVISION HISTORY

Date	Name	Description	Version
22-JUL-2015	J. Jones	First draft	0.1
28-JUL-2015	B. Chiles	Review- minor edits	0.2
28-JUL-2015	J. Jones	Final draft, release	1.0

Test Report

TESTED BY: Josh Jones

DATE(S): 21-22 JULY 2015

PURPOSE:

The purpose of this test was to determine if a Tagsys P101 RFID reader will have any negative impact on the X26 CEW operation or logging.

EQUIPMENT USED:

- 1 – Tagsys Medio P101 Ethernet Reader
- 1 – PC with Tagsys Px Explorer Software
- 1 – PC with EVIDENCE Sync Software
- 4 – Bare Tagsys RFID tags
- 10 – TASER X26 CEWs (DOM range of 2004 to 2014)

PASSING CRITERIA:

There will be no negative impact on the X26 CEW operation or logs when subjected to the RFID scanner reads.

TEST SUMMARY:

10 samples X26 CEWs were selected for this test, each running version 24 of the X26 firmware. The following X26 samples were selected for the test;

Serial Number	Date of Manufacture (DOM)
X00-078230	2004
X00-353534	2007
X00-390640	2008
X00-432861	May 12, 2009
X00-476435	2009
XCE-003409	September 29, 2009
X00-534143	January 20, 2010
X00-602202	December 14, 2010
X00-758136	July 19, 2014
X00-758151	July 29, 2014

Testing was conducted with the X26 CEW in different configurations, with the Medio P101 Reader connected to a PC with Px Explorer software running and actively scanning. The X26 CEWs each had all 4 of the supplied RFID tags attached in the label pocket via tape for each test (see Figures 1-7). One of each tag type was applied with the reverse side facing out. The CEWs were tested in the following configurations;

1. Safe Mode

Each X26 CEW was placed in Safe mode, then on the scanner on all 6 sides, while observing for any effect from the scanner.

No negative effect from the scanner was observed on any of the samples. The scanner was functional during the testing. The CEW was downloaded after the test and the logs were reviewed. No anomalies were observed in the logs.

2. Armed Mode, Not active

Each X26 CEW was armed with the laser and flashlights active, but the high voltage not triggered. Then the CEW was placed on the scanner on all 6 sides, while observing for any effect from the scanner.

No negative effect from the scanner was observed on any of the samples. The scanner was functional during the testing. The CEW was downloaded after the test and the logs were reviewed. No anomalies were observed in the logs.

3. Armed Mode, Active

Each X26 CEW was armed with the laser and flashlights active, then the trigger was pulled while the CEW was placed on the scanner on 5 sides (electrodes touching the scanner was not tested, as that may damage the scanner), while observing for any negative effect from the scanner.

No negative effect from the scanner was observed on any of the samples. The scanner appeared to miss some readings while the X26 CEW was actively arcing, however the scanner continued to read the tags and resumed its normal reads per second when the CEW stopped arcing. The CEW was downloaded after the test and the logs were reviewed. No anomalies were observed in the logs.

4. Time Synchronization and Download

Each X26 CEW was placed in Safe mode, then a USB pack was inserted. Each sample was placed on the scanner on the side with the RFID tag opposite of the scanner. While actively scanning, each sample X26 CEW was connected via USB to a computer with EVIDENCE Sync software to initiate a time synchronization and CEW download.

No negative effect from the scanner was observed on any of the samples. The scanner was functional during the testing. The CEW downloaded successfully in each test and the logs were reviewed for a proper time synchronization and accuracy. The time synchronization on each sample was successful. No anomalies were observed in the logs.

CONCLUSION:

Of 10 X26 CEW samples testing in the 4 configurations, there were no negative effects observed on any of the CEW samples. A slight decrease in the number of RFID tag reads per second was observed while the CEWs were actively arcing. No other negative observations were made.

FIGURES:



Figure 1 – MEDIO P101 Ethernet label

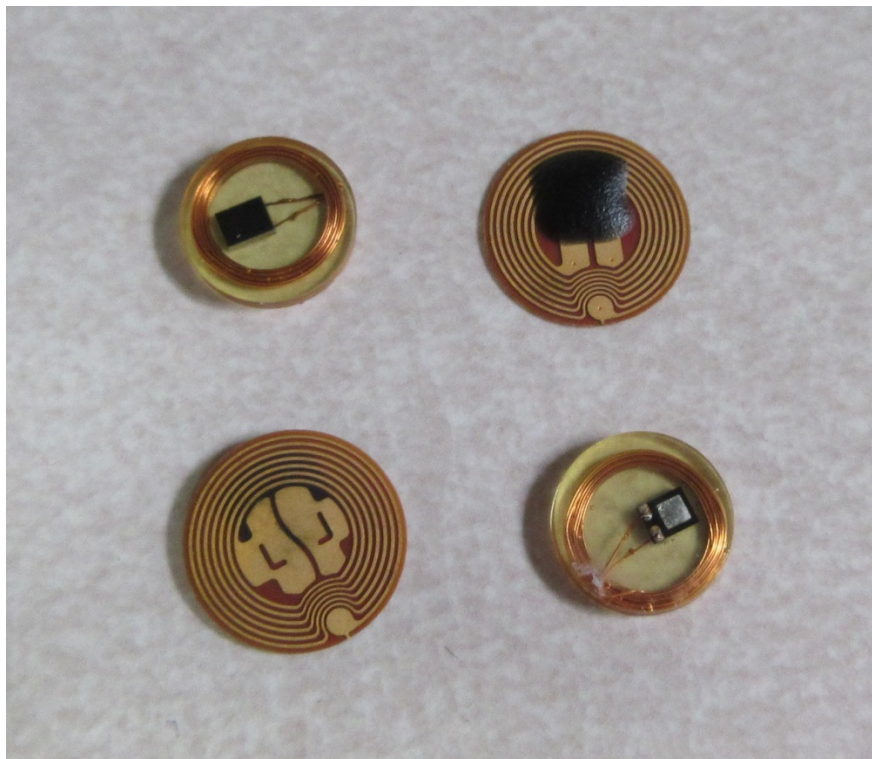


Figure 2 – RFID Tag orientations



Figure 3 – RFID Tag placement



Figure 4 – Safe Mode



Figure 5 – Armed Mode, Not Active



Figure 6 – Armed Mode, HV Active



Figure 7 – Time Synchronization & Download

END OF REPORT