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SECURING A WORLD IN MOTION

Entrust Corporation

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Element Project TS-DTCD-0004

Cover Letter for FCC Application

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Description of radio:

Supplies ID radio is an RFID tag reader. 13.56MHz radio communicates with a passive RFID tag (read & write) located on a nearby consumable supply component to determine proper identification and status.

FCC ID is GDI-SID004, original filing in 2004, and a C2PC was completed in 2010.

This is a C2PC where the limited modular radio is being implemented into several new versions of the product that are very similar to the existing product but have differences in mechanical parts and ancillary electrical equipment (not the limited modular radio). There are no mechanical, electrical, or firmware changes to the limited modular radio or the block diagram; the board has not changed and it is still implemented in the same way.

The new versions of the product are tested in the following versions of the product:

- MX Series, LC Conversion, Phase 1
- MX Series, LC Conversion, Phase 2
- MX Series, LC Conversion, Phase 3.1

Specifically, the components that the limited modular radio is being integrated into are Cleaner (phase 1), Graphics (phase 2), and Topper (phase 3.1).



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The radio circuit is located on PWA p/n 534508, and no changes have been made to this board since the last C2PC completed in 2010. This C2PC does not make any changes to any circuits of the following areas as listed in FCC 2.1043(a): frequency determining, frequency stabilizing, frequency multiplication, and basic modulator circuitry. The grounding and circuits are electrically identical to the circuits in the 2010 C2PC.

An alternate manufacturer is being added to the crystal resonator component that generates the 13.56MHz carrier frequency for the antenna:

- The part on the bill of materials is Y2.
- Adding an alternate component that can be used in place of the existing part
- Both components are equivalent in specification for form / fit / function
- Additional testing was performed in DTCD0091 to qualify this crystal and verify that this crystal meets the performance requirements of the applicable standards.

Applicable rule parts are FCC 15.225.

FCC ID GDI-SID004

Sincerely,

Jeff Aymond
Sr Electrical Engineer