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To whom it may concern:

This letter is intended to explain how the Intermec Technologies Corporation 700C hand held computer that contains an MC46 GSM/GPRS radio module prevents transmission of the MC46 in 850 MHz band simultaneously with the IP3 RFID tag reader. The 700C hand held computer controls the operation of both the IP3 scan handle and the MC46 GSM module. There are two possible scenarios when the two radios could try to transmit at the same time.

MC46 in a call when the IP3 tag reader trigger is pulled:

When the Microsoft phone application that resides on the 700C starts an 850 MHz band GSM call, the application sets the "850 MHz phone call active" registry key to positive. When the IP3 scan handle trigger is pulled to scan an item, the 700C checks the registry key. If the key is positive, the application returns an error message to the user that the RFID scanner can not be used until the phone call has been disconnected.

IP3 tag reader active when a cellular call is received:

When the 700C has sensed an IP3 trigger pull to ask for an RFID scan, the 700C uses the IRDa port to set up a unique communication link with the IP3 scan handle. The phone application checks for this unique link setup to complete before sending or answering a call. The RFID read transmit sequence is typically short duration, so the user does not receive an error message. The GSM call goes through after the RFID reader has completed the scan.

Please contact me using the information below if there are any questions.

Sincerely,

A handwritten signature in black ink, reading "Scott Holub".

Scott J. Holub
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