



A Tyco International Company

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## DECLARATION OF SIMILARITY

Date: 20<sup>th</sup> August 2015

TRaC GLOBAL LTD.  
100 Frobisher Business Park,  
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RE: Declaration of Similarity  
FCC ID: QABTSR618V93F IC ID: 12009A-TSR618V93F

To Whom It May Concern:

Please be advised that all following emerald fingerprint models - TSR/300/618, TSR/300/115, TSR/300/116, TSR/300/117, TSR/300/118, TSR/200/618, TSR/200/115, TSR/200/116, TSR/200/117, TSR/200/118, TSR/100/618, TSR/100/115, TSR/100/116, TSR/100/117 and TSR/100/118 are electronically identical, all RF measurements and test results are the same. All 15 versions are built to one hardware and Firmware build. The only difference is the SAM card which is required for compatibility with Picopass/iClass /iClass SE smart cards. The emerald models - TSR/\*00/115 and TSR/\*00/117 do not have the SAM card fitted. Without the SAM card fitted the emerald (TSR) is compatible with only Mifare CSN and/or CEM Desfire smart card formats.

The TSR/\*00/618 is the fingerprint version of this product, called emerald Intelligent Fingerprint Terminal. It is classed as multi smart, this means that it can work with most 13.56MHz RFID card formats i.e. Picopass, iClass, iClass SE, Mifare CSN, DESFire and CEM Desfire. When the TSR/\*00/618 is connected to an AC2000 system it automatically downloads the card database and card format data from the system it has been connected too. This is the point when the card format that the emerald (TSR) unit will respond to is selected.

The **TSR/\*00/618** is to be marketed as a multi smart card reader compatible with Mifare CSN, Picopass, CEM Desfire and iClass / iClass SE card formats.  
The **TSR/\*00/115** is identical in both hardware and firmware to the TSR/\*00/618 but has No SAM fitted, it is to be marketed for Mifare CSN card format.  
The **TSR/\*00/116** is identical in both hardware and firmware to the TSR/\*00/618 with SAM fitted, it is to be marketed for Picopass card format.  
The **TSR/\*00/117** is identical in both hardware and firmware to the TSR/\*00/618 but has No SAM fitted, it is to be marketed for CEM Desfire card format.  
The **TSR/\*00/118** is identical in both hardware and firmware to the TSR/\*00/618 with SAM fitted, it is to be marketed for iClass / iClass SE card formats.

The differences between the 100, 200 & 300 models are purely functional and are controlled by product licensing. The 300 model is fully featured, the 200 and 100 models have subsets of the features offered by the 300 model. These subsets are as follows:-

The TSR/100/\*\* is the base level Intelligent Fingerprint Terminal with fingerprint access control functionality.

The TSR/200/\*\* is the mid range level Intelligent Fingerprint Terminal with fingerprint access control and additional VoIP intercom facility enabled.

The TSR/300/\*\* is the top level Intelligent Fingerprint Terminal with fingerprint access control, VoIP and additional Remote Applications enabled.

Thank you for your attention to this matter.

Yours faithfully

Company: Controlled Electronic Management Systems Limited

Signature:

Name:

Ian Schofield

(Hardware Manager)

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