



HANDSET ACCESS CARD

INTELLIGENTLY DEVELOPED EVIDENTIALLY SOUND

ASSURED NETWORK ISOLATION

Best practice guidelines for mobile device data acquisition emphasise the importance of guaranteed isolation from the network to assure the integrity of the evidence. In any mobile phone forensic examination, preserving the security and integrity of the exhibit and the associated data is absolutely vital.

Technically, this requirement dictates the need for a replica SIM card that can be re-inserted into the handset with guaranteed isolation from the mobile phone network and the assurance that the exhibit cannot be compromised.

The Radio Tactics patented* Handset Access Card technology uniquely and reliably solves this issue.

* US Patent No: 8 161 537
US Patent No: 7 886 347
European Patent No: EP 1 717 767
European Patent No: EP 2 058 774

A ROBUST SYSTEM SOLUTION

In developing the Handset Access Card solution the following critical elements have been addressed to provide a fully robust system solution.

BENEFITS

- ▶ Prevents connection/interception
- ▶ Write once then read only solution (cannot be modified)
- ▶ Prevents remote wiping (data deletion)
- ▶ A single Handset Access Card supports either mini or micro SIM form factors
- ▶ A dedicated Handset Access Card for nano SIM support
- ▶ Prevents Apps from updating cache memory
- ▶ Unique card ID provides explicit link to each phone examination and corresponding report (audit trail)
- ▶ Able to be annotated and referenced by the examining officer
- ▶ Guaranteed identical results for any repeated examinations

SECURE PROCESS – ON A CARD

The Radio Tactics Handset Access Card solution delivers a complete robust, secure and easy to use process. All of the data apart from the secret key identifiers is copied in order to block connection to the network and additionally:

- ▶ Generates an audit trail which is written to the card providing confirmation of the creator and timestamp for the card creation
- ▶ Incorporates multiple levels of blocking to ensure that handsets do not connect to the network under any circumstances
- ▶ Write-once card which cannot be modified after it has been created ensures that it is matched to the specific handset
- ▶ Behaviour guaranteed identical to the original SIM even with threaded SMS messages

Locking all of these elements together provide the reassurance of absolute security and is unique to the patented Radio Tactics Handset Access Card technology. Another important element in this secure process is associated with the Keycard of the examiner which is tied to every Handset Access Card that is generated by the officer.

Many other solutions in the market have been deemed inadequate due to the fact that they are unable to be securely disabled immediately after the SIM data has been copied. These are marketed under various guises but only address a part of the problem with corresponding security vulnerabilities and risk of associated data corruption.

FORENSIC INTEGRITY

The below guidelines are widely acknowledged as vital for maintaining forensic integrity and evidential security. Key to the value of evidential data acquired from mobile devices is 'infallibility'.

Without the assurance of a complete block on access to the mobile phone network, the integrity of the data and the process itself simply cannot be relied on and can undoubtedly prejudice the successful outcome of criminal proceedings.

FORENSIC PRINCIPLE

No action... should change data held on a computer or storage media which may subsequently be relied upon in court.

WHICH REQUIRES

Isolation of the device from the network.

ACESO SOLUTION

Forced Handset Access Card creation to isolate the phone from the network. Radio Tactics patented solution provides an accurate copy of the SIM contents with only the network ID bits removed.

HANDSET ACCESS CARD



FORENSIC PRINCIPLE

Where a person finds it necessary to access original data... that person must be competent to do so and be able to give evidence explaining the relevance and implications of their actions.

WHICH REQUIRES

The examiner must have relevant and current training to ensure correct use of the equipment.

ACESO SOLUTION

Certified training for all users provided by Radio Tactics. Personal Keycards to ensure authorised usage and preserve audit trail.

KEYCARD



FORENSIC PRINCIPLE

An audit trail of all the processes applied... should be created and preserved.

WHICH REQUIRES

Unambiguous audit trail to clearly evidence actions taken during the examination - Who/When/Where

ACESO SOLUTION

Electronic audit trail with encrypted file formats. Linking Keycard owner to every Handset Access Card created.

HANDSET ACCESS CARD



KEYCARD



The Radio Tactics unique Handset Access Card and Keycard audit trail process ensures compliance with these important forensic principles.

