



NATIONAL SECURITY AGENCY TECHNOLOGY TRANSFER PROGRAM

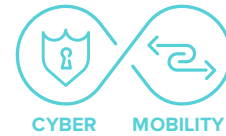
Office of Research & Technology Applications

US Patent # 8,478,340

NSA Reference #1783

AVAILABLE FOR LICENSING

Detecting SIM Card Removal and Reinsertion



This technology detects the removal and reinsertion of a Subscriber Identity Module (SIM) card. Existing technology can determine when a SIM card not associated with a specific device has been inserted in that device, i.e. when a thief replaces the SIM card in a phone. This technology goes a step further in detecting the reinsertion of the same card. This detection helps prevent unauthorized use of electronic devices. The invention monitors any removal and reinsertion and displays the results on a graphical user interface (GUI). The system can correlate SIM card removal with other events associated with the device activating alerts of unauthorized activity.

FEATURES

BENEFITS

Time correlation tamper analysis

Demonstrates correlation between time of SIM card removal/reinsertion and other events; provides greater context on unauthorized activity

Allows corrective action

Able to check for stolen data or malicious software to prevent attack from continuing

Results monitoring (local and remote)

Allows logging of events and event history

Device health monitoring

Provides continuous communications to the device, to detect failure of communication capabilities

POTENTIAL APPLICATIONS

- Medical/ pharmaceuticals
- Anti-tamper applications
- Notification of equipment failure (automotive, aerospace, manufacturing)
- Anti-counterfeiting applications

DEVELOPMENT STAGE

EARLY

MID-STAGE

COMPLETE

This technology is **complete**. A technical briefing is available upon request.

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