



(S//SI) Tool Proves Invaluable in Providing Actionable Intelligence in Iraq

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(TS//SI//REL) Every day, Coalition combat troops in Northern Iraq rely on the capabilities of the QUADRASPECTRE (QS) tool to target and capture adversaries. Operators use this tool to identify active targets, find their locations, and track their movement patterns. The operators then tip this intelligence to combat units -- paying great dividends. To date, QS is credited with contributing to the killing or capture of over 400 insurgents, 263 over the past seven months in the Nineveh Province alone. It has even led to the discovery of an improvised explosive device intended to harm Coalition troops.

(TS//SI//REL) You may have read of QS in previous SIDtoday articles, but do you really know what it is? QS and the newly created QUADRASPECTRE - PRIME (QSP) are **GSM*-data query and display tools that accept metadata** collected by multiple Digital Receiver Technologies, Inc. receivers (DRTs) **and present it to the user in a format conducive to analysis.** QS and QSP were built to meet a need for timely access to collected information that was not available with the current national databases, which were not designed for near-real-time operations.

(TS//SI//REL) This tool kit replicates the functionality of a number of other systems in a single, coherent interface that incorporates DRT tasking, call chaining, SMS viewing, current/recent handset activity, and handset history. The primary features of QSP are:

- Receives Chronolog Events in **near-real-time** from connected DRT GSM collection systems
- Extracts/Displays **near-real-time** SMS for threat warning, tipping, and reporting
- Displays GSM HVT (High-Value Target) location/activity updates in **near-real-time**
- Exports events to ArcView and creates a call event matrix
- Multi-site collection statistics
- On-demand call chaining

(TS//SI//REL) For most operations, as soon as a target's bed-down location is identified and the target is seen active in communications at that location, it is only a matter of minutes to hours before the target is captured. This is made possible through close coordination among the Cryptologic Services Team (CST), 172nd Stryker Brigade, 3rd Armored Cavalry Regiment, and Task Force 145 elements using the QS. QS can be used to tip GOSSAMER (a portable GSM interrogator) operators or other types of GSM geolocation tools, so **they can provide geolocation on a target and direct take-down teams to the target in real time.**

(TS//SI//REL) On 5 March 2005, the Stryker SIGINT Cell intercepted Short Message Service (SMS) from a remote site detailing that two Anti-Iraqi Forces (AIF) were in the act of setting up a remote-controlled improvised explosive device (RCIED). The rapid translation of this message, coupled with quick locational analysis, resulted in the RCIED being taken out before it could be employed against Coalition forces. **This was the very first time that SMS was exploited in real time by a tactical Army unit to provide threat warning or force protection.**

(TS//SI//REL) More recently, the new QUADRASPECTRE-PRIME tool has gone into service, with eleven sites connected at present. QSP was designed in the field by analysts and built by NSA experts, with coordination among CW3 Mark "Al" Mollenkopf (creator of QS and QSP), [S14](#), [S3](#), [MOC](#), CST Mosul, and ACO (Army Cryptologic Office). The new version has the ability to conduct parallel processing and conduct correlations for multiple network providers.

(TS//SI//REL) The plan is to bring the remaining tethered DRT GSM collection sites in Iraq online gradually, to ensure the server can handle the large amount of data being fed into it. This will enable near-real-time target tracking throughout Iraq, target handover between different

areas of operation, and greater insight into target movements, target patterns, and target associations. This is truly the future of SIGINT targeting and SIGINT support to the warfighter.

(U) This is Expeditionary SIGINT at its finest!

(U) For additional information, see the [QSP portal](#).

(U) POC: [REDACTED], [REDACTED] (NSTS) [REDACTED] or
CW2 [REDACTED], [REDACTED] (NSTS) [REDACTED].

*(U) Notes:

GSM = Global System for Mobile Communications

(U) See also the following related SIDtoday articles that mention QUADRASPECTRE:

[\(S\) Success Against al-Zargawi's Group in Northern Iraq](#)

[\(S\) Secretary of Defense Rumsfeld Is Briefed on SIGINT and the Role of SCS Mosul](#)

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