



Technologies, Inc.

PROVIDING NEXT GENERATION WIRELESS SOLUTIONS



Virtuoso SG50X Multi-source, Multi-protocol Tactical Analysis Platform

FEATURES

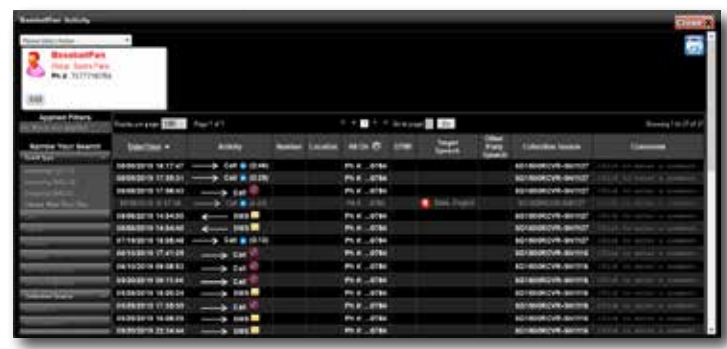
- Enhances collection sensors (both G3T and non-G3T) with Advanced Data Analytics and Machine Learning
- Support for multiple data collection multiple sensors & protocols
- Supports near-real-time and post-mission data ingest
- Performs automated analysis across all collected data
- Human Language Technologies (HLT) recognition algorithms on voice/audio data
- Speaker ID (SID), Language ID (LID), Gender ID (GID), Speaker Activity Detection (SAD) algorithms
- Export and import of voiceprints for targeting
- Provide force protection by creating situational awareness alerts on events of interest
- Portable SWaP (size, weight & power) packaging
- Web-based user interface, supports multiple local or remote users
- Able to store months worth of all metadata and voice/data content
- Automated Data Export Feature (Filesystem, SMB Server, FTP Server, NFS Server)
- Removable SSD for security and data movement on the ruggedized enclosure

KIT CONTENTS

- Tactical Analytics Platform (laptop or ruggedized enclosure)
- Rugged Transportation Case

APPLICATIONS

- All Source Fusion Analysis
 - Pattern of Life (POL) Detection & Analysis
 - Link Analysis
 - Human Language Recognition and Identification
 - Forensic Data Analysis
 - Force Protection Indications & Warnings
 - Situational Awareness



DESCRIPTION

The VIRTUOSO SG50X multi-source tactical analysis platform delivers a powerful suite of analytics tools to the tactical user in a stand-alone capability. The SG50X provides enhanced data analytics across all collected data from multiple sensors and protocols. The SG50X can be used simultaneously with multiple sensors in real time and can ingest post mission data collection for analysis. The SG50X enables users to quickly search through and make sense of massive amounts of collected data using its powerful suite of analytics tools which include Link Analysis, Pattern of Life Analysis, and HLT searches, including voiceprint searches.

The analysis platform fuses the combined sum of all collected data from all sources provided or connected to the system. The user can search for targets across all collection sources, regardless of sensor or format. The SG50X easily accesses data from supported sensors by providing an IP connection to the sensor. The web-based GUI can be accessed by multiple users from any web enabled device such as laptops, tablets or smart phones, making the SG50X's analytics readily available to deployed, remote, small-team operations. Two enclosures are available: the SG500, which features a ruggedized enclosure and the ability to network several components together, and the SG501, which has all of the same powerful analysis software but in a high performance laptop.

SG500



SG501



SPECIFICATIONS

	Size	Weight	Power
Rugged Enclosure	8"W x 3.8"H x 13.5"D	10 lbs.	180 W
SWaP Details			Input: 10 - 32 vDC
Wireless Technologies			Full Content on GSM, CDMA, D-PTT, UMTS Metadata, LTE (beta) on proprietary hardware *LTE Full version Coming Q3 2023 *5G & Wi-Fi TBD

System specifications subject to change without notice, contact factory for current specifications.



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