Kestrel TSCM ® Professional Software

A New Perspective | Software Defined Radio (SDR)

Paul D Turner, TSS TSI

The increasing demand for new and advanced features that are developed in virtually real-time for specialized on-demand applications, oftentimes, required for immediate field deployment, have become a reality when dealing with national security concerns, organized protective operations and the global war on terrorism, with the need to adapt to threats with real-time active TSCM solutions at an faster pace than in the past.

As noted in the July 2016 newsletter.

"Kestrel TSCM ® Professional Software is actively deployed worldwide in a protective role by public and private sector operators, within government facilities, law-enforcement agencies, tactical hostage rescue scenarios, spectrum management and regulatory entities, the highest level of the military establishment, and is deployed in distributed spectrum surveillance for official diplomatic missions abroad, including embassy and consulate facilities worldwide".

Our Technical Research and Standards Group (TRSG) ™ and Software Development Group (SDG) ™ are responsive to each end-user's unique requirements, within the design and development process, technical support delivery and the provision of realistic advanced certification training for professional technical operators.

The Kestrel TSCM ® Professional Software has evolved dramatically, delivering powerful features and hardware support at all operational threat levels worldwide.

New Technology | New Methodology

RF Spectrum Analysis and Monitoring are significant aspects of Technical Surveillance Countermeasures (TSCM), and perhaps the most technologically evolved element of a typical inspection, during the past decade.

Unfortunately, many are still relying on limited scope target area "snap-shot" style RF investigations, which are fast becoming irrelevant and obsolete detection strategies in a modern threat environment.

Modern methodology is required to defeat such devices.

The effectiveness of a few hours of target area spectrum analysis provides a very low Probability of Detection (POD) for the type and characteristics of modern Technical Surveillance Devices (TSD) that are designed to hide, evade, and generally avoid obsolete detection strategies that are unfortunately, still utilized by many technical operators, and expected by the end-user with only a limited measure of TSCM experience.

Time Differential Signal Analysis (TDSA) ™

The Differential Signal Analysis (DSA) ™ concept dates back to the 1960's with the introduction of trace math capability and modernized over the years to provide energy location based, comparative trace data, by most of the TSCM equipment manufacturers worldwide.

The Kestrel TSCM ® Professional Software also utilizes an innovative technique to generate Time Differential Signal Analysis (TDSA) ™ providing user-defined, single location, block time trace level comparative analysis that brings clarity to significant changes that may have occurred within the ambient RF spectrum environment over defined blocks of time.

It is this level of strong innovation that has elevated Kestrel ® to the status of the most popular Software Defined Radio (SDR), TSCM specific application available.

The strong leadership role Professional Development TSCM Group Inc., as played in not only bringing game changing technology to the commercial and public sector, but also radically changing the methodology frame-work within which, TSCM based RF Spectrum Analysis is applied at the field deployment level.

These industry changes have been so fast coming, many manufacturers and technical operators alike, are simply not keeping up with the latest detection strategies and worse, end-users are still focused on obsolete standards and practices developed in the 1970's and 1980's when writing Requests for Proposal (RFP) and Professional Service Agreements (PSA) for procurement, lowering Probability of Detection (POD).

Kestrel TSCM ® Professional Software

Managing Tomorrows Threat Model —Today!

End-user and TSCM practitioner education, professional development, and learning new skills is absolutely essential, no matter the experience level.

Attending professional development training, conference events, and most importantly, actually conducting a suitable minimum number of real technical inspections at the threat-level, consistent with training, certification and experience, are the mark of a true industry professional.

Operator Development Group (ODG) ™

The Kestrel TSCM ® Professional Software is a unique TSCM specific, operator centric, SDR product.

The Kestrel ® project was initiated out of the shear frustration that our company experienced with the small number of unmotivated monopoly of manufacturers with products that did not meet our needs and requirements for field deployment across a wide range of Technical Security (TSEC) assignments.

Most of the above mentioned products failed to take into consideration rapidly changing threat environments; were not scalable, and for the most part, not ideal for Remote Spectrum Surveillance and Monitoring (RSSM).

Cost was and is yet another concern for most non-government users, as TSCM equipment resources are experiencing higher costs and shorter life cycles.

Kestrel ® was specifically designed by experienced field operators to address gaps in the antiquated threat model being used by many manufacturers in the development of various TSCM and Test and Measurement products.

The Kestrel ® project tackled many of the above issues, such as a TSCM specific architecture, and support for a number of industry significant receivers and analyzers.

Kestrel ® was founded on bringing the most advanced, most versatile product to market, at a budget friendly price point, for not only the private sector, but also the public sector operators experiencing shrinking budgets.

The Operator Development Group (ODG) ™ is an end-user forum utilized by technical operators to directly contribute to the future development of the Kestrel TSCM ® Professional Software, by providing field input and new feature and functionality ideas to our Software Development Group (SDG).

| www.pdtg.ca | www.kestreltscm.com | www.ctsc-canada.com |

Innovation is Simply the Beginning
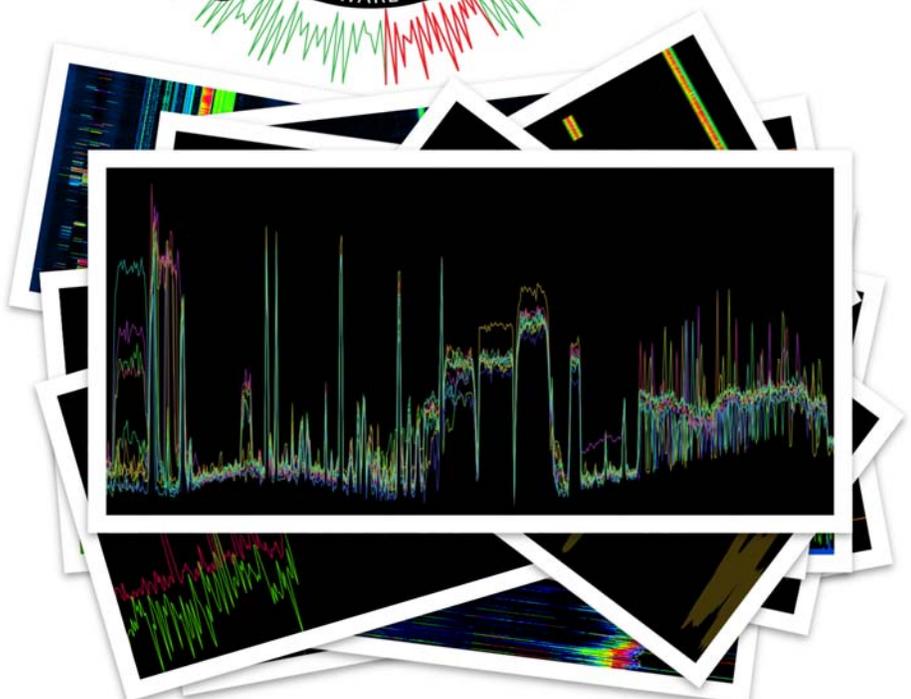
Kestrel TSCM ® Professional Software is innovative industry leading, disruptive technology, now sold in 25 countries worldwide.