

Kestrel TSCM[®] Professional Software

“Configuring the Noise | Kestrel Analytics[™]”

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Technical Research and Standards Group (TRSG)

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The Kestrel TSCM[®] Professional Software continues to secure a strong market share with each new release and development milestone.

Our message regarding Remote Spectrum Surveillance and Monitoring (RSSM)[™] objective, of significantly enhancing the Probability of Detection (POD) numbers, has taken hold and some end-user reports indicate that their runtime systems have been active in excess of 25 million traces of active collection at critical sites.

As noted in the January 2017 newsletter.

“The threat of a potentially devastating technical compromise remains a significant concern in a modern threat model, as the economic outlook globally continues to suffer, and many business and government entities transition from formerly secure company, managed facilities, to less protected third-party managed facilities and outside contracted management, and operational support and procurement services. This has left many private and public sector entities susceptible to falling victim to economic-espionage activities, and risk of a significant technical compromise”.

Professional Development TSCM Group Inc., has developed industry disruptive Software Defined Radio (SDR) technology that has changed the technical security landscape worldwide.

The Kestrel TSCM[®] Professional Software is a hardware agnostic, TSCM | RSSM specific, operator centric, budget friendly, SDR application that is deployment ready within a modern moving target global threat model.

The concept requires that a mission specific SDR radio receiver, TSCM near-field antenna, host computer, and a knowledgeable, well-trained technical operator be deployed for real-time collection and analysis of the ambient RF signal environment, in combination with unattended Remote Spectrum Surveillance and Monitoring (RSSM) to maximize the Probability of Detection (POD) to an acceptable operational level.

Supplemental RSSM Deployment

Deployment of an RSSM component system designed as a portable drop kit is easy, and yields excellent results when installed within even a single target area, identified critical infrastructure zone.

The executive suite or sensitive boardroom is a logical deployment strategy, however, the randomness of the deployment is very important in identifying potential compromises facility wide.

In this strategy, key areas and less sensitive areas benefit from the extended collection.

Maintaining a portable RSSM system builds fail-safe redundancy and allows the technical operator to develop new revenue sources.

Configuring the Noise (Part I)

Extracting Signals of Interest (SOI) from the ambient noise that is now persistent within the RF spectrum, requires advanced training, experience, and practice.

It takes lot more than a fancy spectrum analyzer to separate hostile signals from a very noisy ambient RF spectrum, whether by design to evade identification, or simply due to the nature of a noisy spectrum.

Our Technical Research and Standards Group (TRSG) is in a unique position, with the only standards based certification program available that addresses a modern threat environment.

We have had a unique opportunity to better understand where, how, and why technical operators fail to identify noise embedded, potentially hostile signal events presented within a noisy spectrum.

Kestrel Analytics[™] teaches participants how to configure the noise to improve the Probability of Detection (POD) within a modern moving target threat model, in an oftentimes moderately contaminated, extremely noisy ambient RF spectrum environment.

Kestrel TSCM[®] Professional Software

“Kestrel Innovation | Delivered”

Professional Development TSCM Group Inc.

Technical Security Branch (TSB)

There are a number of critical factors that directly affect the ability of the technical operator to identify potentially hostile Signals of Interest (SOI) that may be hiding within congested spectrum bands, or buried deep within the displayed ambient noise.

In Part II we will examine the importance of the following factors influencing our ability to “configure the noise”.

- Receiver | Antenna
- Resolution Bandwidth (RBW)
- Reference Level
- Attenuation | Gain
- Search Bandwidth (SBW)
- Zoom Factor | Spectrum Compression
- Sweep Speed

Canadian Technical Security Conference (CTSC 2017)

CTSC is an annual event, and an opportunity for private and public sector security apparatus to attend the longest running, TSCM and Cyber Security focused professional development conference, now into the 12th year of successful operation.

CTSC is a truly Canadian inspired event with an international following of like-minded technical security professionals.

CTSC 2017 will be held at the NAV Center in Cornwall Ontario, within driving distance of the nations Capital Region and the Ottawa International Airport.

Online registration is now open for presenters, exhibitors, and participants.

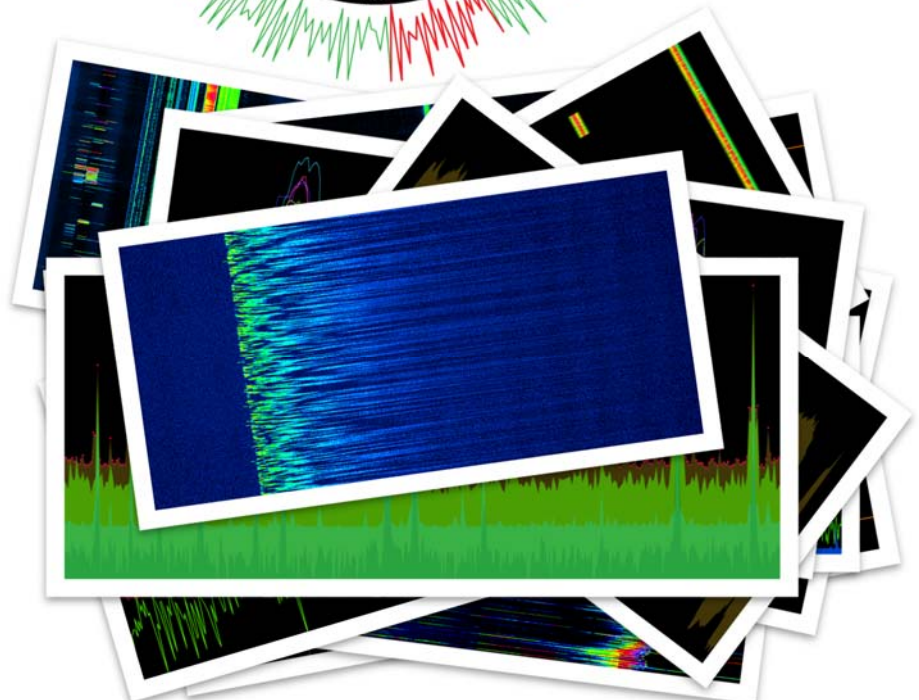
The conference runs from Tuesday April 25, 2017 to Thursday April 27, 2017

Register today! Visit www.ctsc-canada.com for details.

To learn more about developing an effective Technical Security (TSEC) program, or the benefits of utilizing the industry leading, Kestrel[®] TSCM Professional Software | Signal Intelligence Support System (SISS)[™], please contact [Paul D Turner](mailto:Paul.D.Turner@pdtg.ca), TSS TSI at Professional Development TSCM Group Inc.

| 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 28 countries worldwide.