

Kestrel TSCM[®] Professional Software

The Next Generation of the Kestrel TSCM[®] Professional Software was Yesterday—Look What We Can Do Today!

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Technical Research and Standards Group

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Technical Surveillance Countermeasures (TSCM) is a unique and technically demanding field of professional undertaking that demands mission critical resources to be deployed, to resolve complicated threat technology challenges far beyond the intended design and use of any given defensive technical resource. Many TSCM resources are built

around limitations by design, so that operators will need to purchase the next, generally obsolete resource, by the time it hits the market. The Software Defined Radio (SDR) market brings innovative new business models, such as the Kestrel TSCM[®] Professional Software that has radically changed the game during the past decade. One of the latest technology features of the mighty Kestrel TSCM[®] Professional Software, is the addition of

a sophisticated geo-location heat mapping capability that is fully integrated with a powerful RF Visualizer (RFV)[™] technology. This resource adds the ability to capture any deployment ROI up the hardware capability across a single radio and display a full colour, real-time geo-location heat map with our unique RF propagation contour modelling that develops before your eyes.

Tap Capture Plot (TCP)[™] | RF Visualizer (RFV)[™]

Our multiple algorithm based feature, in combination with our RF Reference Level Off-Set (RLO)[™] capability, permits the operator to effectively produce a dynamically generated geo-location heat map for any center frequency and bandwidth captured within the Location Differential Signal Analysis (LDSA)[™] range. The localization of hostile emitters is easily accomplished within a TSCM role, and the same resource can be utilized to identify signal coverage voids. TEMPEST related emitters can be quickly identified and localized across large facilities. Our RF Visualizer (RFV)[™] was recently deployed to determine whether or not there were any such unintentional radiators across a 250,000 square foot occupied work space with 200 computer workstations, most with multiple display monitors and docking stations. At first glance, this might seem like a daunting and time consuming challenge for the operator. Utilizing the Kestrel TSCM[®] Professional Software | Signals Intelligence Support System[™], the entire mission and positive find resolution was completed in just 15 minutes, the time it took to casually walk through the “functional” target area, pausing for just 30 seconds at each Tap Capture Plot (TCP)[™] auto location.

During the analysis, three (3) separate frequencies were observed and drag and dropped to the Spectral Data (TCP)[™] frequency dialog box to immediately produce a corresponding radiometric heat map pin-pointing the distributed energy at auto location < 009 > as an



unintentional radiator. The operator then selected, by drag and drop, the second observed frequency to render a new heat map display specific to the center frequency and utilized the Reference Level Off-Set (RLO)[™] to better characterize

the localization rendering for the unknown radiator. The operator identified the center frequency for the above plot as 197.9500 MHz and 269.4500 for the plot below. The technical

operator selected a third identified center frequency observed in the LDSA[™] spectrum, exhibiting similar characteristics at 389.7200 MHz and drag and dropped



the Signal of Interest (SOI) to the Spectral Data (TCP)[™] frequency dialog box, rendering a third heat map plot, as illustrated below. At this



frequency, two (2) additional workstations at < 023 > and < 024 > were identified as potential unintentional radiators at 389.7200 MHz, not identified as emitters with

either of the two (2) lower frequencies of 197.9500 MHz and 269.4500 MHz as associated with auto location < 009 >.

Remember, in a Moving Target Threat Model the Technical Operator is the Spectrum Analyzer...

Kestrel TSCM[®] Professional Software

Celebrating 15 Years!

Canadian Technical Security Conference (CTSC)[™]

Professional Development TSCM Group Inc.

Technical Security Branch (TSB)

CTSC 2020 | CTO[™] Training Opportunity

We will be running a new version of the Certified Technical Operator (CTO)[™] program leading up to the Canadian Technical Security Conference (CTSC 2020)[™] event. We have added many new features and advanced functionality this past year and will be extending the March 2020 training program an extra 2-days to provide adequate instructional time for all the new features recently released, about to be released, and those scheduled to be released between now and March 2020. Participants of the CTO[™] program arrive at the training centre on Sunday March 22, 2020. Check-In at our Resident Training Centre (RTC)[™] is 1600 hours. The CTO[™] Training begins on Monday March 23, 2020 at 0830 hours and will wrap up early afternoon on Sunday March 29, 2020. Monday March 30, 2020 is a free day for those staying on for the Canadian Technical Security Conference (CTSC 2020)[™] event. CTSC 2020[™] begins Tuesday March 31, 2020 and runs until Thursday April 02, 2020. Check-out is Friday April 03, 2019 at 1100 hours. The cost of the CTO[™] training is \$2,950.00 CAD + taxes and includes the full new CTO training program, 7 nights of private accommodation, and all meals on-site. This is an exception value and tremendous opportunity to move from many of the obsolete spectrum analyzers currently in use and gain insight into why the Kestrel TSCM[®] Professional Software has become the preferred TSCM platform by professional operators, working in both the private and public sector from corporate to national security.

Canadian Technical Security Conference (CTSC 2020)

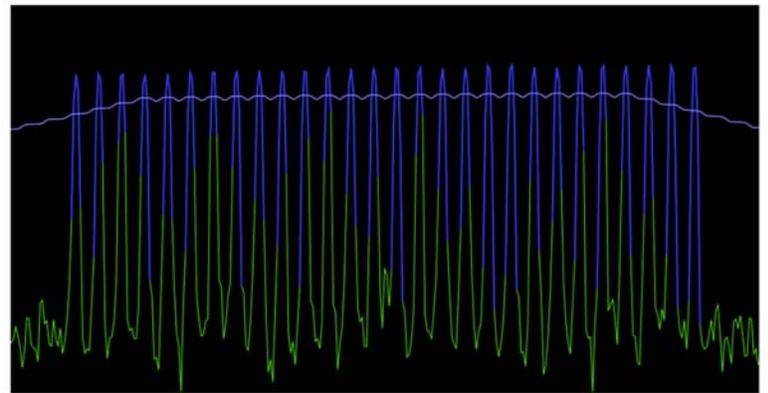
The Canadian Technical Security Conference (CTSC) is the only long-standing event with a TSCM | Cyber-Security focus, holding true to its roots by bringing powerful new ideas and technology to an educated few who actively choose to advance their professional credibility across an ever evolving Technical Surveillance Countermeasures (TSCM) industry worldwide. Our conference event is one of the most respected places to get first hand knowledge about a wide range of subject matter by peeling away the layers of marketing hype, misconceptions and outright lies across the industry. Most importantly, it provides tremendous insight into a modern moving target threat model and the time-tested standards based deployment methodology defined by the TSB 2000 (Technical) Standard[™]. The Canadian Technical Security Conference (CTSC)[™] is entering into the 15th edition of this powerful Canadian based, professional development opportunity.

Our presenters are industry experts and professionals who volunteer to impart a wide range of knowledge and experience to other like-minded

professional colleagues, who may be seasoned professionals themselves or just venturing into a technical security career. The technical security industry is such that changes in technology and attack sophistication change on a daily basis demanding the most up to date methodology as well as new defensive technology. This years event will include many timely topics covering physical security, technical security, Technical Surveillance Countermeasures (TSCM), Remote Spectrum Surveillance and Monitoring (RSSM)[™], cyber-security, equipment and resources, methods, techniques and hands-on opportunities. Our competitive bug-off, has become the highlight of the CTSC event, as a totally unique competitive bug-off feature, held on the second day of the conference. Participants get to test various TSCM products and their skill sets against live technical targets. The incredible hands on learning opportunity realized by participants brings amazing value to the event. Everyone attending the conference is welcome to participant regardless of there experience level.

Innovation is Simply the Beginning!

| www.pdtg.ca | www.kestreлтscm.com | www.ctsc-canada.com |
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The characterization of modern wireless signals using digital modulation schemes, require that the operator work smarter with real-time spectrum capture and display tools. This begins at the hardware level with fast (high POI) sweep rates and an exceptional wideband lower noise floor, enhanced with TSCM specific, capture and analytical display capability.

Kestrel TSCM[®] Professional Software is innovative industry leading, disruptive technology, sold in 44 countries worldwide.