



SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Accelerating SOF Innovation

Mrs. Jennifer A. Powers *Program Manager*
TECHNICAL COLLECTION AND COMMUNICATIONS (TCC)



Program Manager Technical Collection and Communications



Program Manager

Technical Collection and Communications

TCC Portfolio

- HF-TTL Mission Sets
- TVS/RSTA Family of Systems
- BFT Family of Systems
- SCE Mission Sets

Key Events

- Two Annual Program Management Reviews
- Three Annual Operational Test and Evaluations
- Two to Three Annual Procurement Cycles



Electro-Optical Camera & Sensor

Hostile Forces - Tagging, Tracking, & Locating (HF-TTL)

Mission Set Fielding to Components and TSOCs:

- Continuously Tailored; Commodity Ordering
- Two/Three Annual Increments

Priorities:

- Quick Reaction Capability (QRC)
- Integration of TTL Payloads on Remotely Piloted Vehicles
- Maritime TTL
- Non-Traditional Capabilities

HF-TTL Portfolio:

- Tag/Track Kits
- Audio Kits
- Video Kits
- Misc Tool Kits

ACQUISITION STRATEGY

- Commodity Procurement Project (CPP)

PERIOD OF PERFORMANCE

- Deliver Capability Within 90-Days to one Year of Award (Norm)
- QRC Delivers in 14 to 90 Days

MILESTONES

- Mission Set Kits Procured Annually
- NET Continuously
- Focused Technical Insertion in an Ever-Changing Environment

OPPORTUNITIES

FBO Classified BAA: U.S. Special Operations Command
 Keywords: Novel TTL Approaches
 Release Date: 2QFY20

FUNDING

APPROP	FY18	FY19
• O&M	\$20.1M	\$20.3M
• PROC	\$19.0M	\$19.0M
• RDT&E	\$ 0.8M	\$ 0.8M

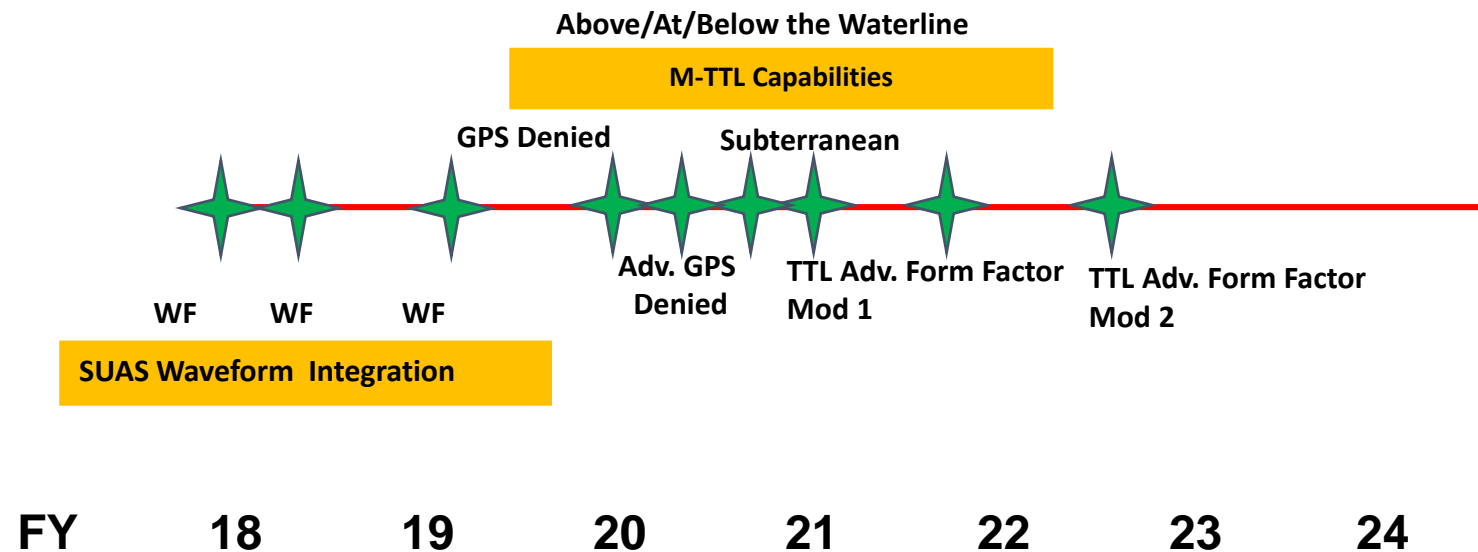
CURRENT CONTRACT/OEM

- T-REX Multiple Award IDIQ Contract
- Multiple OEMs - Contact TILO

HF-TTL Technology Insertion Roadmap

Technology Insertion Roadmap Focus Areas:

- **Non-GPS Trackers**
 - Traditional
 - Non-traditional (unique employment methods for greater stand-off)
- **Maritime TTL**
- **UAS Payload Integration**
- **Data Exfiltration**

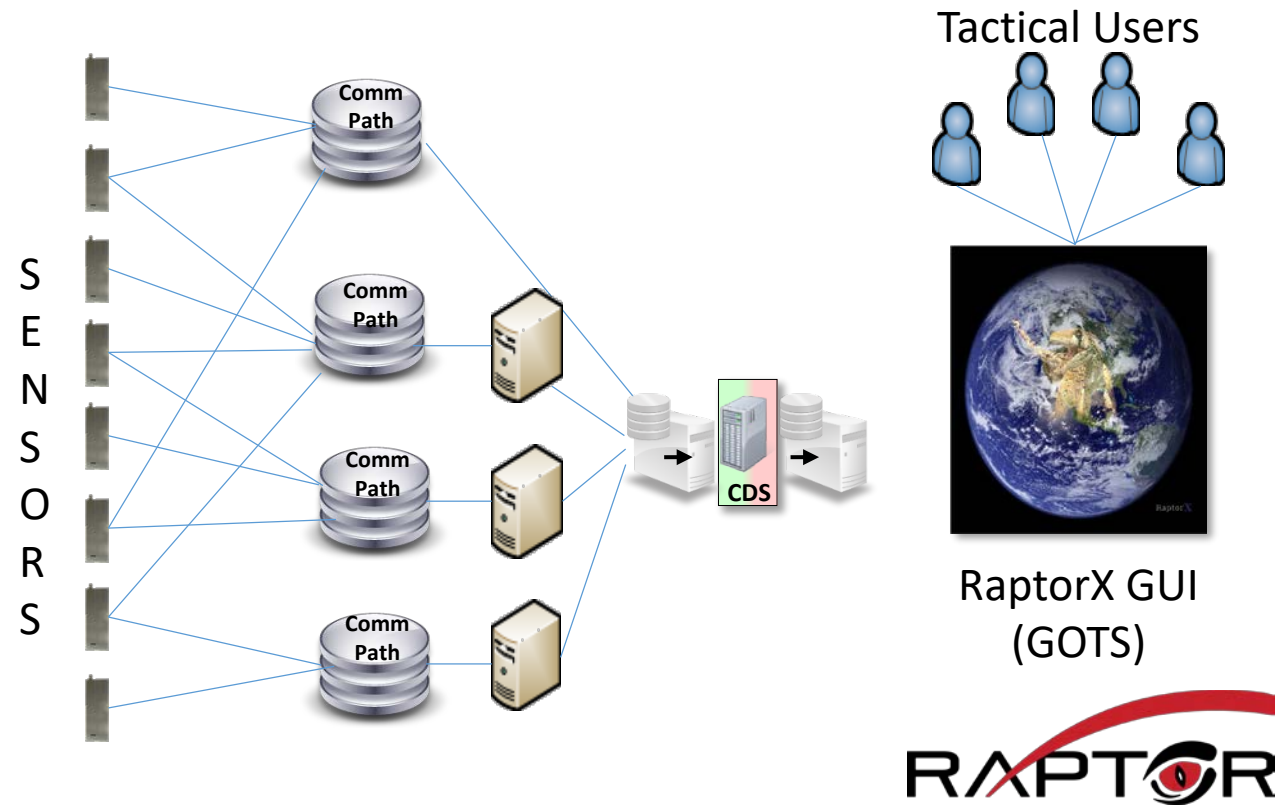


KeyMaker TTL and UGS Data Dissemination

Provides a system for standardized, consolidated, command and control of technical collection tools that allows data to be shared for wide distribution in support of operational requirements while ensuring control of the distribution always remains with the sensor/tags owner

Mandatory DOD IA Requirements

- Browser Compatibility (MS Edge & Firefox)
- Operating System Compatibility (Windows 10)
- Server Compatibility (Windows 2012 & 2016)
- Adherence to the DOD Security Technical Implementation Guidelines (STIG)
- Documentation (Installation Guide, Admin & Developer Guide, Release Notes, etc.)



Tactical Video System/Reconnaissance Surveillance Target Acquisition (TVS/RSTA)

Kits are Operationally Tailored:

- Supports Three Primary Capability Areas
- Adaptable In Tactical and Strategic Operations

Priorities:

- Enhanced Night/Obscured Operations
- Component Interoperability
- Non-Traditional Approaches for Data Infil/Exfil

TVS/RSTA Portfolio:

Family of Systems

- Attended
- Semi-Attended
- Unattended

ACQUISITION STRATEGY	PERIOD OF PERFORMANCE	MILESTONES												
<ul style="list-style-type: none"> • Commodity Procurement Project (CPP) 	<ul style="list-style-type: none"> • Deliver Capability Within 90-Days to one Year of Contract Award (Norm) 	<ul style="list-style-type: none"> • Kit Selection Annually • Sustainment Training Continuously • Capital Equipment Replacement 												
OPPORTUNITIES	FUNDING	CURRENT CONTRACT/OEM												
FBO BAA: U.S. Special Operations Command/NAVSOC Keywords: Trident Spectre, UGS Release Date: 4QFY19	<table border="1"> <thead> <tr> <th>APPROP</th> <th>FY19</th> <th>FY20</th> </tr> </thead> <tbody> <tr> <td>• O&M</td> <td>\$ 32.5M</td> <td>\$ 17.0M</td> </tr> <tr> <td>• PROC</td> <td>\$ 22.2M</td> <td>\$ 21.4M</td> </tr> <tr> <td>• RDT&E</td> <td>\$ 0.564M</td> <td>\$ 0.716M</td> </tr> </tbody> </table>	APPROP	FY19	FY20	• O&M	\$ 32.5M	\$ 17.0M	• PROC	\$ 22.2M	\$ 21.4M	• RDT&E	\$ 0.564M	\$ 0.716M	<ul style="list-style-type: none"> • T-REX Multiple Award IDIQ Contract • Multiple OEMs - Contact TILO
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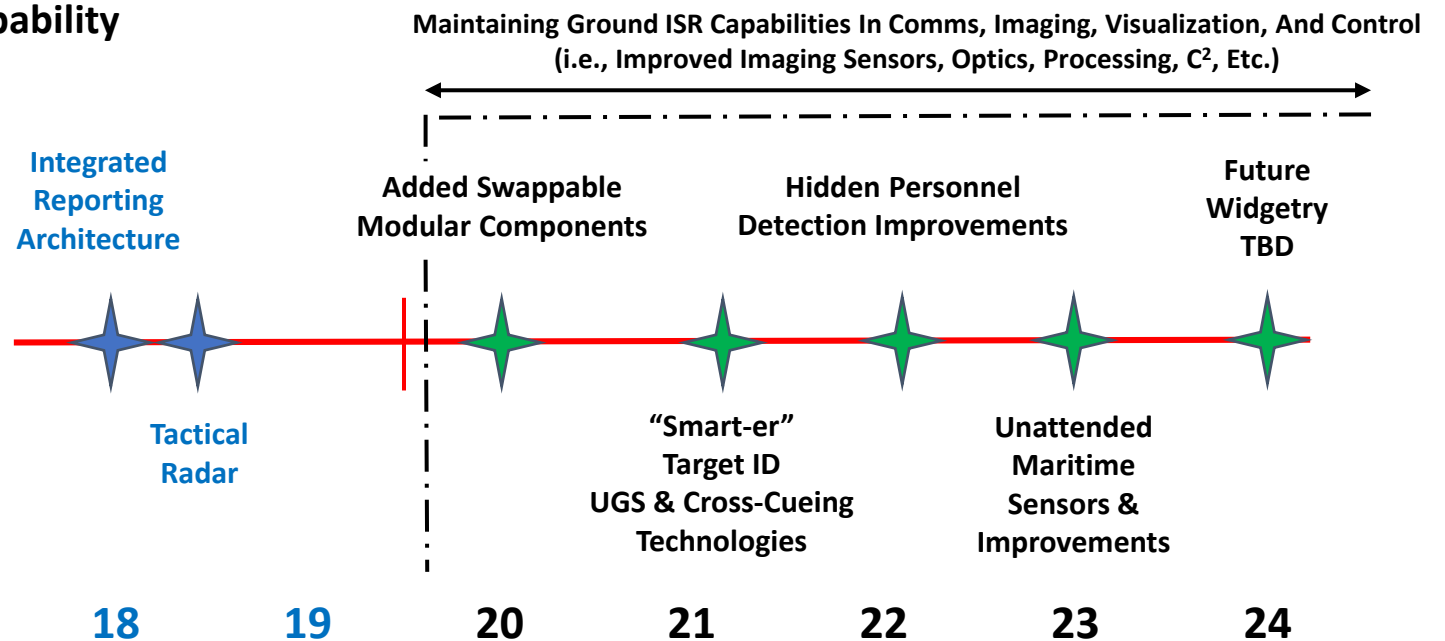
TVS/RSTA Insertion Roadmap

Driving The TVS/RSTA Technology Insertion Roadmap:

- Monitor, Leverage, And Employ Government And Commercial Developments, Reserving Resources Primarily For The Transfer And Integration Of Proven And Necessary Capabilities
- Everything Possible Within An Integrated Architecture
 - Gov't Owned API's
 - Built To An Already Accepted Standard
 - Limited Need/Use Of Proprietary Control Formats
- Continual Reductions In SWaP
- Maintain A Baseline Ground ISR Capability



FY



Blue Force Tracker (BFT)

Mission Set Fielding to Components:

- Family of Devices that are Small, Lightweight, Employ Multiple Waveforms, & Have Self-Contained Transmitters

Priorities:

- Multiple Waveform Support; Battery Life; MGUE Integration
- Assured Position Navigation and Timing
- Personnel Recovery (PR) Integration
- Maximum Benefits Leveraging OGA Efforts

BFT Family of Devices:

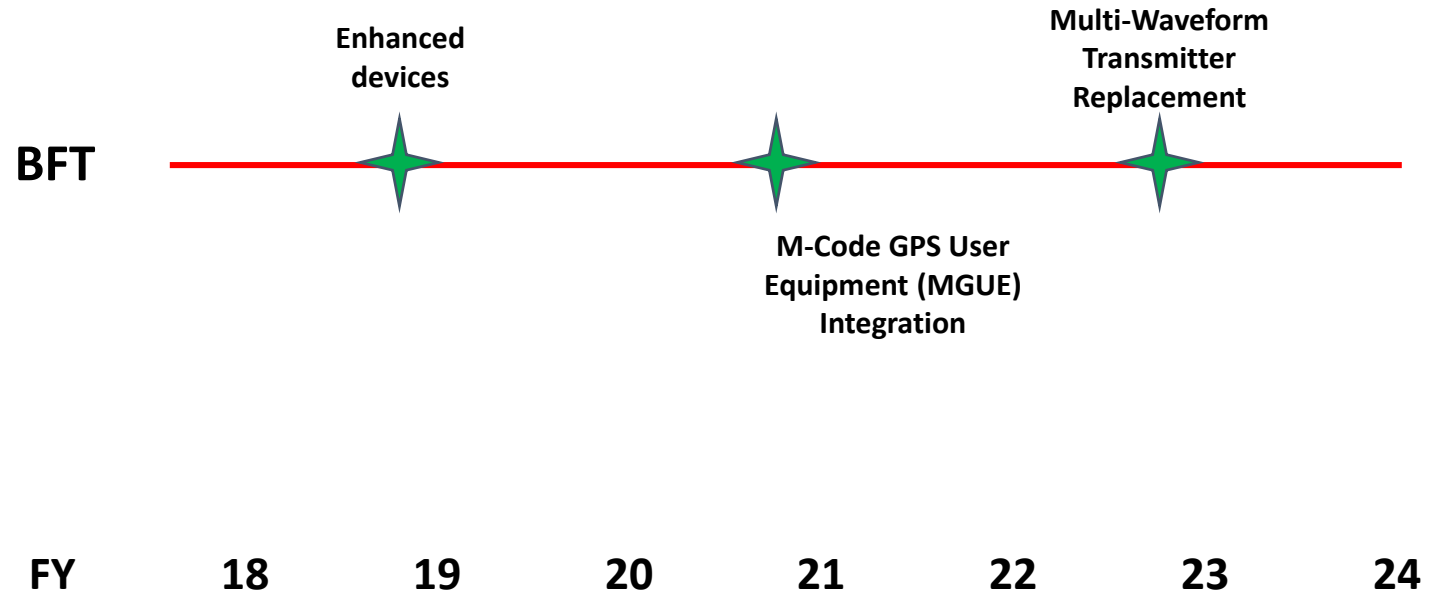
- Iridium Based
- Government Off The Shelf (GOTS)

ACQUISITION STRATEGY	PERIOD OF PERFORMANCE	MILESTONES												
<ul style="list-style-type: none"> • Commodity Procurement Project (CPP) 	<ul style="list-style-type: none"> • Varied 	<ul style="list-style-type: none"> • Device Selection Annually • NET Continuously • Capital Equipment Replacement 												
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BFT Insertion Roadmap



SHOUT-TS1



Special Communication Enterprise (SCE)

Development Effort:

- MS are continuously tailored based on threat and capability
- Two/Three annual increments

Priorities:

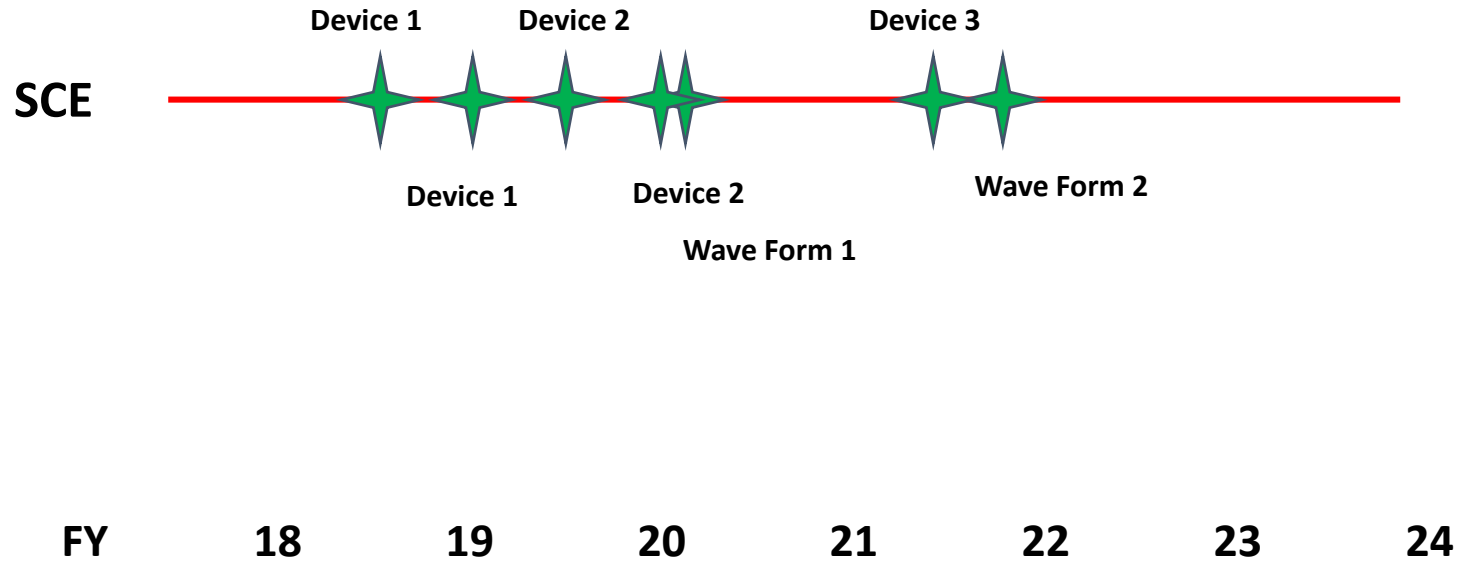
- Providing operationally relevant SC equipment in fluid and unique environment
- Providing low density two way communications with diverse capabilities

SCE Portfolio:

- Field Segment
- Transport Segment
- Enterprise Control Segment
- Base End Segment

<p style="text-align: center;">ACQUISITION STRATEGY</p> <ul style="list-style-type: none"> • Acquisition Category III (ACAT III) 	<p style="text-align: center;">PERIOD OF PERFORMANCE</p> <ul style="list-style-type: none"> • Varied 	<p style="text-align: center;">MILESTONES</p> <ul style="list-style-type: none"> • MS Selection Annually • NET Continuously • Technical Insertion to Maintain Relevancy 												
<p style="text-align: center;">OPPORTUNITIES</p> <p>FBO Classified BAA: U.S. Special Operations Command Keywords: Two-way, low vis comms Release Date: 2QFY20</p>	<p style="text-align: center;">FUNDING</p> <table border="1"> <thead> <tr> <th><u>APPROP</u></th> <th><u>FY18</u></th> <th><u>FY19</u></th> </tr> </thead> <tbody> <tr> <td>• O&M</td> <td>\$ 8.2M</td> <td>\$ 8.5M</td> </tr> <tr> <td>• PROC</td> <td>\$ 4.5M</td> <td>\$ 2.7M</td> </tr> <tr> <td>• RDT&E</td> <td>\$ 4.7M</td> <td>\$ 4.3M</td> </tr> </tbody> </table>	<u>APPROP</u>	<u>FY18</u>	<u>FY19</u>	• O&M	\$ 8.2M	\$ 8.5M	• PROC	\$ 4.5M	\$ 2.7M	• RDT&E	\$ 4.7M	\$ 4.3M	<p style="text-align: center;">CURRENT CONTRACT/OEM</p> <ul style="list-style-type: none"> • T-REX Multiple Award IDIQ Contract • Multiple OEMs – Contact TILO • Leveraging OGAs
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SCE Insertion Roadmap



Capability Insertion Opportunities

- **Size, Weight and Power Reductions**
- **Balancing Tailoring with Configuration Management**
- **Interoperability with Legacy Systems**
- **Modular/Multi-Use Components**
- **Technology Refresh in Fluid Environment**
- **Data Transfer Capabilities**
- **Image and Video Compression Techniques**
- **Non-traditional Tagging, Tracking, and Locating (TTL) Technologies**
- **Affordable TVS/RSTA Capabilities for UGS/Surveillance Systems**
- **BFT Technology that is M-Code Compliant**
- **Miniaturized Data Transport Segments for Long Distance Transfers**
- **Raptor Plug-In Development**

How to do Business with PM TCC

- **USSOCOM-BAAST-2015, Appendix G2 Spring 2019, SOF AT&L-SRSE**
 - https://www.fbo.gov/index.php?s=opportunity&mode=form&id=f0e1fa515fc227b22ce246068b7491be&tab=core&_cview=1
 - Closing Date: 30 September 2019
 - Submit White Papers/Quads via <https://www.socom.mil/SOF-ATL/Pages/baa.aspx>
- **Technology & Industry Liaison Office (<https://www.socom.mil/SOF-ATL/Pages/submit-your-idea.aspx>)**
- **S&T Technical Experimentation Events (<https://www.socom.mil/SOF-ATL/Pages/technical-experimentation.aspx>)**
- **SOFWERX (<https://www.sofwerx.org/>)**
- **RapidX (<https://www.raptorx.org/rapidx>)**