

**Guardrail Common Sensor (GRCS (Update
3))
(version 2.0)**

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ICoE - Mil Intelligence School

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This System Training Plan (STRAP) is preliminary.
Front end analysis (mission, task, job) is ongoing. ICoE - Mil Intelligence School will amend and update this STRAP as details solidify.

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1.0 System Description

The Guardrail Common Sensor (GR/CS) is a fixed-wing, airborne, signals intelligence (SIGINT) collection, imagery intelligence (IMINT), and precision targeting location system. It provides near real-time information to tactical commanders in the Corps/Joint Task Force (JTF)/Brigade Combat Team (BCT) area of operations, with emphasis on Indications and Warning (I&W). GR/CS collects low-, mid-, and high-band radio signals and electronic intelligence (ELINT) signals; identifies and classifies them; determines source location; and provides near real-time reporting, ensuring information dominance to commanders.

The GR/CS system integrates the Enhanced Situational Awareness (ESA), X-Midas, High Band COMINT (HBC), Communication High Accuracy Location System-Compact (CHALS-C), the Advanced QUICKLOOK (AQL), Electro-Optical (EO)/Infrared (IR)/Full Motion Video (FMV), and Aerial Precision Geo-location (APG) into the same platform -- the RC-12 aircraft. Key features include enhanced signal classification and recognition, fast Direction Finding (DF), and precision emitter location.

Each RC-12 aircraft includes an Airborne Relay Facility (ARF) collection and data transmission/reception payload that intercepts communications and non-communications emitter transmissions, receives imagery, and gathers Line of Bearing (LOB) and Time Difference of Arrival/Differential Doppler (TDOA/DD) data. Data is then transmitted to a Distributed Common Ground System-Army Operational-Intelligence Ground Station (DCGS-A OGS) utilizing the Guardrail Ground Baseline (GGB) software as the human machine interface. Only the pilots man the ARFs during a mission; operators in the Processing, Exploitation, and Dissemination (PED) enclave remotely control the ARF mission equipment. The ARF also serves as the relay platform for communications between the PED and the supported commands. The standard AEB configuration consists of 7 RC-12 aircraft, and DCGS-A Operational Ground Station, three Tactical Common Data Links (TCDLs), and an Auxiliary Ground Equipment (AGE) van.

2.0 Target Audience

The following Military Occupational Specialties (MOS), assigned to each AEB will require GR/CS training:

- **Mission Operators:** Signals Intelligence Analyst (35N), Cryptologic Linguist (35P), and Signals Collector/Analyst (35S), Geospatial Intelligence Imagery Analyst (35G)
- **Maintainers:** Military Intelligence (MI) Systems Maintainer/Integrator (35T) and Intelligence and Electronic Warfare Equipment Maintenance Technician (353T)
- **Aviators:** Fixed Wing Aviation Officers (15 A/C) and Warrant Officers (155 A/E/F/G)
- **Mission Managers:** Traffic Analysis Technician (352N), and 35N/35P senior NCOs

Professional Development Courses

Advanced Leaders Course (ALC), Senior Leaders Course (SLC), Basic Officers Leaders Course (BOLC), Military Intelligence Captains Career Course (MICCC), Warrant Officer Basic course (WOBC) and Warrant Officer Advanced course (WOAC), will receive a GRCS overview with a focus on GRCS mission manager responsibilities and duties.

Prerequisites for Special Electronics Mission Aircraft (SEMA) Training

Prerequisites for attending the SEMA GR/CS Aviator Qualification course RC-12X Guardrail Common Sensor/Aviator Qualification course number 2C-15C/2B-ASIF4 at United States Army Intelligence Center of Excellence (USAICoE) are:

- Member of the Army active component
- Possess a current Class II flight physical that will not expire during the SEMA training period
- Have a current High altitude/low pressure training certificate that will not expire during the SEMA training period
- Have completed the Fixed-Wing Multi-Engine Qualification Course at Fort Rucker, AL
- At a minimum possess an interim Top Secret/Sensitive Compartmented Information (TS/SCI) clearance

Prerequisites for SEMA Functional courses

Prerequisites for attending the A-ISR GEOINT Payload Operator (AGPO) and the A-ISR Precision Guidance Operator (APGO) courses are:

- Be qualified in their respective MOS
- Possess a TS/SCI clearance (SIGINT Payload operators require a Counterintelligence Scope Polygraph)
- Current class III flight physical
- Current altitude chamber training

3.0 Assumptions

USAICoE will have at the minimum of 2 RC-12X aircraft and 2 cockpit procedural trainers for Program of Instruction (POI) equipment requirements. Optimal training would occur if 3 RC-12X aircraft would be available.

4.0 Training Constraints

Constraint Type	Probable Impact	Mitigating Efforts
<i>Budgetary</i>		
<i>Equipment</i>		
<i>Training Equipment</i>		
<p><i>PM Sensors-Aerial Intelligence (PM SAI) has not received funding for system and non-system TADSS supporting institutional and operational training.</i></p>	<p><i>Operational training, operational ET, and simulations interface to GR/CS workstations will not be available.</i></p>	<p><i>Fielded units use the Training Support Package (TSP) as the foundation to support training at home-station until the PM procures a GR/CS Target Signature Array (TSA) solution. PM SAI will leverage the TSAs for the EMARSS system.</i></p>

		<i>The commonality of payloads will allow the use of some of the TSAs on both systems.</i>
<i>Personnel</i>		
<i>Facilities</i>		
<i>Human Factors Engineering</i>		
<i>System Safety</i>		

<i>Doctrine</i>		
<i>Environmental</i>		
<i>Support Services</i>		
<i>Command Guidance</i>		

<i>Soldier Survivability</i>		
<i>Other</i>		
<i>Public Law</i>		

5.0 System Training Concept

Training is available at the Institutional, Operational and Self-Development domains. The following paragraphs illustrate this concept.

Institutional

Institutional training uses existing government facilities for the instruction of SEMA aviators, operators, maintainers, and MI Professional Military Leaders courses. The SEMA course trains aviators to operate GR/CS aircraft using simulators and aircraft with the Program of Instruction (POI) approved by the United States Army Aviation Center of Excellence (USAACE). APG payload operators will attend the APGO course and receive Additional Skill Identifier (ASI) V3 upon graduation once USAICoE begins training APG as a functional course in accordance with the Aerial Intelligence, Surveillance, and Reconnaissance (AISR) training strategy. Geospatial Intelligence (GEOINT) payload operators attend the USAICoE AGPO functional course and receive a yet to be identified ASI upon graduation. Maintainers receive a system overview in the 35T AIT course. Leader development courses include classroom discussion of the systems capabilities.

Operational

New Equipment Training (NET): PM SAI and PM Fixed Wing will provide NET and New System Training and Integration Directorate (NSTID) will provide Doctrine and Tactics Training (DTT) at each fielding with a TRADOC-approved Training Support Package (TSP) hosted on the TRADOC approved data repository.

Unit Sustainment Training will utilize:

TSP: The commander's use the Combined Arms Training Strategy (CATS) and the system TSP as the base to develop training to sustain mission-specific proficiencies.

Embedded Training (ET): ET includes the ability to sustain complex GR/CS critical tasks and skills associated with system software applications and functionality. The GR/CS TSA (a component of the Intelligence Electronic Warfare Tactical Proficiency Trainer (IEWTPT)) concept supports this requirement. This TSA is a system specific training device that will be

designed to enable individual system task sustainment via ET and supports collective training when networked. PM SAI will leverage the Enhanced Medium Altitude Reconnaissance and Surveillance System (EMARSS) TSA for use on GR/CS due to the commonality of payloads. PM SAI will develop a TSA for the payloads that are not included in the EMARSS TSA. The TSA for GR/CS will be a part of the ground system capability (accessible from the server stack) when developed by the PM. It simulates/stimulates payloads and collection capabilities for presentation to the GR/CS collection specific software applications and toolsets. It also includes the capability to interface with Department of the Army (DA) level constructive simulations to support collective training (such as Mission Rehearsal Exercise (MRX/MRE), DA, or Joint exercises). The IEWTPT Capabilities Production Document (CPD) documents the TSA requirement for each MI operational system; USAICoE is the overall proponent and IEWTPT combat developer.

Functional Courses: The APGO and AGPO courses at Fort Huachuca are available to train APG operators and GEOINT payload operators that are newly arrived at the AEB. APG training resides at Fort Hood until FY16 when it will move to Fort Huachuca.

Self-Development

The Soldiers assigned to GR/CS units utilize the TSP for self development study. The TSP complements and reinforces the On-the-Job Training (OJT) program. NSTID hosts the TSP on the Intelligence Knowledge Network (IKN) for self-development training.

5.1 New Equipment Training Concept (NET)

When necessary, PM SAI and PM Fixed Wing will develop the NET plan (NETP) and conduct NET concurrently with GR/CS system fielding and upgrades. PM SAI and PM Fixed Wing will resource the NET to include instructors, logistics support, and complete Programs of Instruction (POI) for each mission function/duty position in TRADOC-approved format. PM SAI, PM Fixed Wing, and TRADOC will ensure NET teams train students on all GR/CS critical tasks in a learner-centric, scenario-driven training environment that incorporates operational GR/CS equipment. NSTID will integrate DTT in each NET POI and execute the DTT during each NET event. The NET TSP and all associated material will serve as the leave behind package for unit sustainment training.

PM SAI will provide all NET materials and Training Aids, Devices, Simulations, and Simulators (TADSS) in approved Training and Doctrine Command (TRADOC) and Department of Defense (DoD) formats, Army Training Information Architecture-Migrated (ATIA-M), Defense Information Infrastructure-Common Operating Environment (DII-COE), Army Distributive Learning (ADL), Shareable Courseware Object Reference Model (SCORM), Joint Technical Architecture-Army (JTA-A), and Common Training Instrumentation Architecture (CTIA), etc.

A NET Training Support Package (TSP) includes lesson plans, associated technical manuals, slide shows, quick reference guides, and student handouts. This TSP provided all necessary information to duplicate the NET course at the unit.

5.2 Displaced Equipment Training (DET)

If required, PM SAI and PM Fixed Wing will execute DET in accordance with the NET plan.

5.3 Doctrine and Tactics Training (DTT)

When necessary, NSTID will develop and execute DTT that integrates GR/CS capabilities, organizational impacts, and current TTPs into the Intelligence Warfighting Function at the fielded AEB. NSTID will maintain and update the DTT in the leave behind TSP in an appropriately classified repository for Army wide access. When there are modifications to the system, NSTID will review the DTT and update as necessary.

5.4 Training Test Support Package (TTSP)

If required, USAICoE NSTID in coordination with Intelligence and Electronic Warfare Test Directorate (IEWTD), PM SAI, and PM Fixed Wing will develop the TTSP in accordance with TRADOC Regulation 350-70, and will use methods from the Army Learning Model TP 525-8-2. The TTSP will outline the methods and procedures used to train, evaluate, test and certify individual, crew, and collective training (who, where, and how training is to be certified). The TTSP will include GR/CS training for system operations, doctrine, tactics, and maintenance.

The TTSP will include:

- Approved STRAP
- Test Training Certification Plan (TTCP)
- Training data requirements (instructional material to be revised before beginning training)
- Test training resource support (manpower, ranges, etc.)
- Training schedule
- POI for each affected MOS/SSI/AOC (officer, warrant officer, and enlisted)
- System Technical Manuals (TM)
- Flight Training Guide (FTG)
- Aircrew Training Manual (ATM)
- List of training devices and embedded training components
- Target audience description
- Lesson Plans (LP)
- Critical Task List (CTL)
- Safety Review

6.0 Institutional Training Domain

Institutional training includes courses of instruction for SEMA aviators, APG operators, GEOINT operators, and a GR/CS overview incorporated into the 35T course, Military Intelligence Officer, Warrant Officer, and Senior Non-commissioned Officer (NCO) professional development courses.

TRADOC will approve all training materials, certify instructors and conduct training. In addition, prior to attending any training, SEMA aviators and non-rated crewmembers must meet course prerequisites as outlined in paragraph 2.0 (Target Audience).

6.1 Institutional Training Concept and Strategy

Institutional training consists of the following:

- SEMA course for GR/CS aviators
- AGPO course for GEOINT payload operators
- APGO course for GR/CS APG operators (FY16)
- GR/CS overview in the 35T course
- GR/CS overview for MI Professional Leadership courses

SEMA aviator, operator, maintainer, and MI Professional Leadership courses utilize instructors certified to TRADOC standard and approved by USAICoE teaching a TRADOC approved curriculum and oversight.

Training objectives include the following:

Aviator training focuses on the RC-12 airframe operations, flight dynamics, mission operations, and mission equipment as it pertains to GR/CS SEMA aviator responsibilities. The GR/CS SEMA course utilizes the Cockpit Procedural Trainer (CPT) and actual flight time to facilitate practical instruction in aviator training of the RC-12 mission aircraft.

GEOINT payload operators assigned to GR/CS units will attend the A-ISR AGPO course at USAICoE. The AGPO course trains Soldiers on common GEOINT payload tasks and operation, Aircrew Coordination Training - Enhanced (ACT-E), and the reconnaissance and aerial observation tasks. Students train in flight on a mission-configured EMARSS or EMARSS-representative aircraft and on the ground using an EMARSS PTT that emulates the GEOINT crew position and simulates GEOINT payload operations (GEOINT Operator Procedural Trainer (OPT) and Ground Procedural Trainer (GPT)). Graduates of the AGPO course will receive a yet to be identified ASI.

SIGINT payload operators attend the APG course at Fort Hood; APG operators will attend the APGO course at Fort Huachuca once it transitions to a functional course in FY16. The APGO course will train Soldiers on crew coordination and the tactical application of common APG payloads. Graduates of the APG/APGO course receive ASI V3.

Maintainer training includes a system overview in the 35T IET course.

Appropriate USAICoE officer, warrant officer, and senior NCO professional development courses incorporate GR/CS training designed to introduce them to the unique characteristics and Concept of Operations (CONOPS) of the system utilizing current doctrine and lessons learned. NSTID develops

leader training utilizing PM provided materials and posted on IKN
(appropriately classified version) for Army-wide access.

6.1.1 Product Lines

The GR/CS product lines consist of training information infrastructures, TADSS training products, training facilities and land, and training services. These product lines provide the capabilities that trainers and Soldiers need to conduct training at the institution.

6.1.1.1 Training Information Infrastructure

Institutional GR/CS Training Information Infrastructure (TII) consists of the TRADOC-approved data repository, the Army Training Requirements and Resource System (ATRRS), and the necessary hardware and software to conduct training. It will include any networked GR/CS system equipment, training positions, and the CPT architecture. GR/CS TII will conform to both joint and Army architectures and standards (i.e. CTIA, ATIA-M, Live, Virtual, Constructive, Gaming - Integrated Training Environment (LVCG-ITE)) to enable the development, storage, retrieval, delivery, and management of Training Support System (TSS) products and information.

6.1.1.1.1 Hardware, Software, and Communications Systems

The availability of all system hardware and software supporting GR/CS institutional training is resourced and coordinated for by PM SAI, PM Fixed Wing, PM DCGS-A, and USAICoE. USAICoE will coordinate the availability of any additional communications systems associated with GR/CS. Systems and sub-systems will include but not be limited to:

- CPT
- Ground Procedural Trainer (GPT)
- Operator Procedural Trainer (OPT)
- GR/CS Aircraft
- DCGS-A Multi-function Workstation (MFWS)
- APG Target Signature Array (TSA)
- Non-classified Internet Protocol Router Network (NIPRNET)
- Secret Internet Protocol Router Network (SIPRNET)
- National Security Agency (NSA) Net
- Joint Worldwide Intelligence Communications System (JWICS)

6.1.1.1.2 Storage, Retrieval, and Delivery

GR/CS documentation supporting the Institutional training domain is available on the TRADOC approved training database.

6.1.1.1.3 Management Capabilities

USAICoE manages GR/CS Institutional Training using the Army Training Management System (ATMS), Army Training Requirements and Resource System (ATRRS), and TRADOC approved training database.

6.1.1.1.4 Other Enabling Capabilities

N/A

6.1.1.2 Training Products

PM SAI, PM Fixed Wing, and NSTID create and maintain GR/CS training materials (including DTT) and post them on the appropriate US Army knowledge center. At a minimum, each system increment will trigger modifications to the GR/CS TSP and directly impact GR/CS training products. PM SAI, PM Fixed Wing, and NSTID are responsible for modifying the training materials (including DTT) accordingly. In addition to system increments, USAICoE reviews all GR/CS training materials on an annual basis to address any modifications/changes to training.

As training materials are modified, PM SAI and PM Fixed Wing will ensure that USAICoE and fielded units (as needed) receive the new materials and that all related data is updated in the current TRADOC approved training database and relevant system manuals. NSTID will post the new training materials to the appropriate knowledge center with modifications annotated.

6.1.1.2.1 Courseware

USAICoE enters the lesson plans for the APGO, AGPO, and SEMA course into the current TRADOC approved training database. USAICoE uses the lesson plan data entered into the TRADOC approved database for course development and generation of the POI and the CAD. The GR/CS Institutional courseware covers the tasks necessary to ensure operability and maintainability of each payload of the system. All Interactive Courseware (ICW) and web-based instruction must conform to the specifications and standards of the Army Training Information Architecture (ATIA) Technical Standards Suite.

6.1.1.2.2 Courses

GR/CS institutional courses use the Army Learning Model methods for training the system tasks and include but are not limited to:

- SIGINT payload operator training focuses on common APG payloads and the reconnaissance and aerial electronic observation tasks required for operating the GR/CS APG payloads.
- GEOINT payload operator training focuses on common GEOINT payload tasks and operation, Aircrew Coordination Training - Enhanced (ACT-E), and the reconnaissance and aerial observation tasks.
- Aviators identified for GR/CS training will attend the GR/CS SEMA course conducted at USAICoE. Training focuses on the RC-12 unique Aircrew Training Manual tasks, mission operations, and mission equipment as it pertains to GR/CS SEMA aviator responsibilities. The SEMA course utilizes the CPT and aircraft for flight instruction of the RC-12 mission aircraft.
- Maintainer training includes a system overview in the 35T IET course.

Institutional leadership courses train Army leaders on the capabilities and limitations of GR/CS. These courses are:

- Officer Education System (OES) courses: Officers attending MI BOLC and MICCC receive a GR/CS overview on the capabilities and employment of GR/CS which includes an overview on the mission manager duties and responsibilities.
- Warrant Officer Education System (WOES) courses: MI Warrant Officers receive training on the capabilities and employment of GR/CS during the common core portion of WOBC and during WOAC. This training includes an overview on the capabilities and employment of GR/CS to include an overview on the mission manager duties and responsibilities.
- Noncommissioned Officer Education System (NCOES) courses: SLC and ALC for enlisted personnel identified in the target audience include a GR/CS overview on the capabilities, employment of the system and mission manager duties/responsibilities.

6.1.1.2.3 Training Publications

PM SAI and PM Fixed Wing maintain the Electronic Technical Manuals (ETMs) for GR/CS. Training publications are accessible on the appropriate database based on classification. USAICoE ensures the GR/CS capabilities are incorporated when the following publications are updated:

- FM 1-100 Army Aviation Operations
- ADP 3-0 Unified Land Operations
- ADRP 3-0 Unified Land Operations
- ADP 2-0 Intelligence
- ADRP 2-0 Intelligence
- ADP 7-0 Training Units and Developing Leaders
- ADRP 7-0 Training Units and Developing Leaders
- FM 2-19.4 Brigade Combat Team Intelligence Operations
- FM 2-91.4 Intelligence Support to Urban Operations
- FM 3-36 Electronic Warfare in Operations
- TC 2-19.13 Aerial Exploitation Battalion and Aerial Reconnaissance Battalion Intelligence Operations
- TC 2-50.5 Intelligence Officer's Handbook
- TC 2-33.4 Intelligence Analysis

6.1.1.2.4 Training Support Package (TSP)

PM SAI and PM Fixed Wing in conjunction with NSTID develop and maintain TSPs that comply with TR 350-70 Army Learning Policies and Systems and apply methods from the Army Learning Model TP 525-8-2. The TSPs include but are not limited to:

- CTL developed by the TRADOC Training Developer
- Complete POIs with lesson plans
- System software and hardware ETM

NSTID utilizes the validated NET TSP provided by PM SAI to update all critical tasks, lesson plans, and POI included in the GR/CS TSP in the current TRADOC approved training database. GR/CS TSPs are complete, exportable packages integrating training products/materials necessary to train system critical, individual, and leader tasks. GR/CS TSPs provide a structured training program that supports Soldier/leader and staff training.

PM SAI and PM Fixed Wing will provide a complete library of GR/CS related manuals, to include all Commercial Off-the-Shelf (COTS) and Government Off-The-Shelf (GOTS) software and hardware components publications.

6.1.1.3 TADSS

All TADSS developed to support GR/CS training will follow TRADOC Regulation (TR) 350-70, TP 350-70-2 and TRADOC Pamphlet 350-37 Objective Force Embedded Training (OFET) Users E-functional Description guidance. PM SAI will leverage the TSA developed for EMARSS due to commonality of payloads. PM SAI will develop the GR/CS TSA for payloads not included in the EMARSS TSA in collaboration with PEO Simulations, Training, and Instrumentation (STRI) and the Intelligence and Electronic Warfare Tactical Proficiency Trainer (IEWTPT) program.

6.1.1.3.1 Training Aids

PM SAI and PM Fixed Wing will develop training aids for GR/CS training based on analysis performed collaboratively with the USAICoE training developers. USAICoE will perform Validation and Verification (V&V) on all Training Aids prior to finalization for use.

6.1.1.3.2 Training Devices

GR/CS aviators use the CPT to facilitate practical instruction in aviator training of the RC-12 mission aircraft giving aviators a training tool which gives them virtually unlimited training while reducing logged hours on the aircraft, and increasing the safety of the crew through a more knowledgeable flight crew.

The OPT and GPT are used in the AGPO course to facilitate instruction in GEOINT operator training. They have virtual and tactile representations of the critical hardware functions of the IMINT payload and representative mission interface software.

PM SAI will develop a TSA that stimulates (using simulation) all mission equipment software toolsets for APG training. At the institution this TSA will support training of APG critical tasks. The IEWTPT Technical Control Cell (TCC) will support APG training by providing an overarching simulated Decisive Action Threat Environment (DATE) or virtual Operational Environment battle-space to augment the TSA signals and data presented to the APG payload control software.

6.1.1.3.3 Simulators

The following systems are required for institutional training:

Cockpit Procedural Trainer - GR/CS Aviators train using a CPT to learn GR/CS aircraft primary instruments and mission equipment controls. This capability provides the ability to train two non-motion pilot aircraft fuselage configurations (2 personnel each) with all relevant mission gear controls.

Operator Procedural Trainer - GEOINT payload operators attending the AGPO course train using the OPT. It provides virtual and tactile representations of the critical hardware functions of the IMINT payload and representative mission interface software.

Ground Procedural Trainer - GEOINT payload operators attending the AGPO course train using the GPT. It provides virtual and tactile representations of the critical hardware functions of the IMINT payload and representative mission interface software.

6.1.1.3.4 Simulations

GR/CS simulations include non-motion flight simulation, IMINT payload simulation, and simulations developed to support the SEMA and AGPO functional courses. The simulation supporting the APGO functional course will interface with DA constructive simulations capabilities and the IEWTPT system.

6.1.1.3.5 Instrumentation

N/A

6.1.1.4 Training Facilities and Land

The training facilities include, at a minimum, classrooms, simulators, administrative areas, and hangar areas (Sensitive Compartmentalized Intelligence Facility (SCIF)-certified as required) for the APG functional course and SEMA training. The institutional training environment facilitates the overall training infrastructure. It also includes prescribed mission parameters for flights. The institutional training environment includes facilities necessary to coordinate the following:

- Billeting
- Flight Surgeon for medical down-slips and up-slips
- Communications Security (COMSEC) support
- Airspace coordination
- Frequency spectrum management
- Maintenance support for facilities and systems
- Appropriate network capabilities to facilitate training

6.1.1.4.1 Ranges

No additional ranges or specialized training areas are required for GR/CS training.

6.1.1.4.2 Maneuver Training Areas (MTA)

No additional Maneuver Training Areas are required for GR/CS training.

6.1.1.4.3 Classrooms

SEMA pilot training and APG training will utilize existing facilities and equipment located at USAICoE.

The following communications networks may be required:

- NIPR Net
- SIPRNET
- JWICS
- NSANET

6.1.1.4.4 CTCs

N/A

6.1.1.4.5 Logistics Support Areas

Facilities for logistic support are located in the following area:

USAICoE: All GRCS SEMA Pilot hardware/software and flight equipment/platforms, all 35T, GEOINT, and APG hardware/software and training equipment required for course instruction, and a storage area for institutional hardware/software equipment.

6.1.1.4.6 Mission Training Complex (MTC)

N/A

6.1.1.5 Training Services

USAICoE uses existing organic support services to prepare, replicate, distribute, and sustain GR/CS institutional training.

6.1.1.5.1 Management Support Services

Existing USAICoE management support services supports GR/CS institutional training. USAICoE Chief Information Officer / G6 (CIO/G6) provides information management services to support network integration and maintenance of information systems used in GR/CS courses. USAICoE coordinates for the resources and services necessary to sustain GR/CS training equipment and devices.

6.1.1.5.2 Acquisition Support Services

USAICoE coordinates the acquisition support services required for:

- Simulator maintenance
- Aircraft maintenance and fuel
- Airfield facilities maintenance and upgrades
- Operational software maintenance

6.1.1.5.3 General Support Services

PM SAI, PM Fixed Wing, USAICoE, PEO STRI and Installation Management Command coordinate to provide the general support services necessary for distribution and replication services, facility support, training devices, airfield maintenance, hangars, and ramp space upgrades that support GR/CS training in the institution.

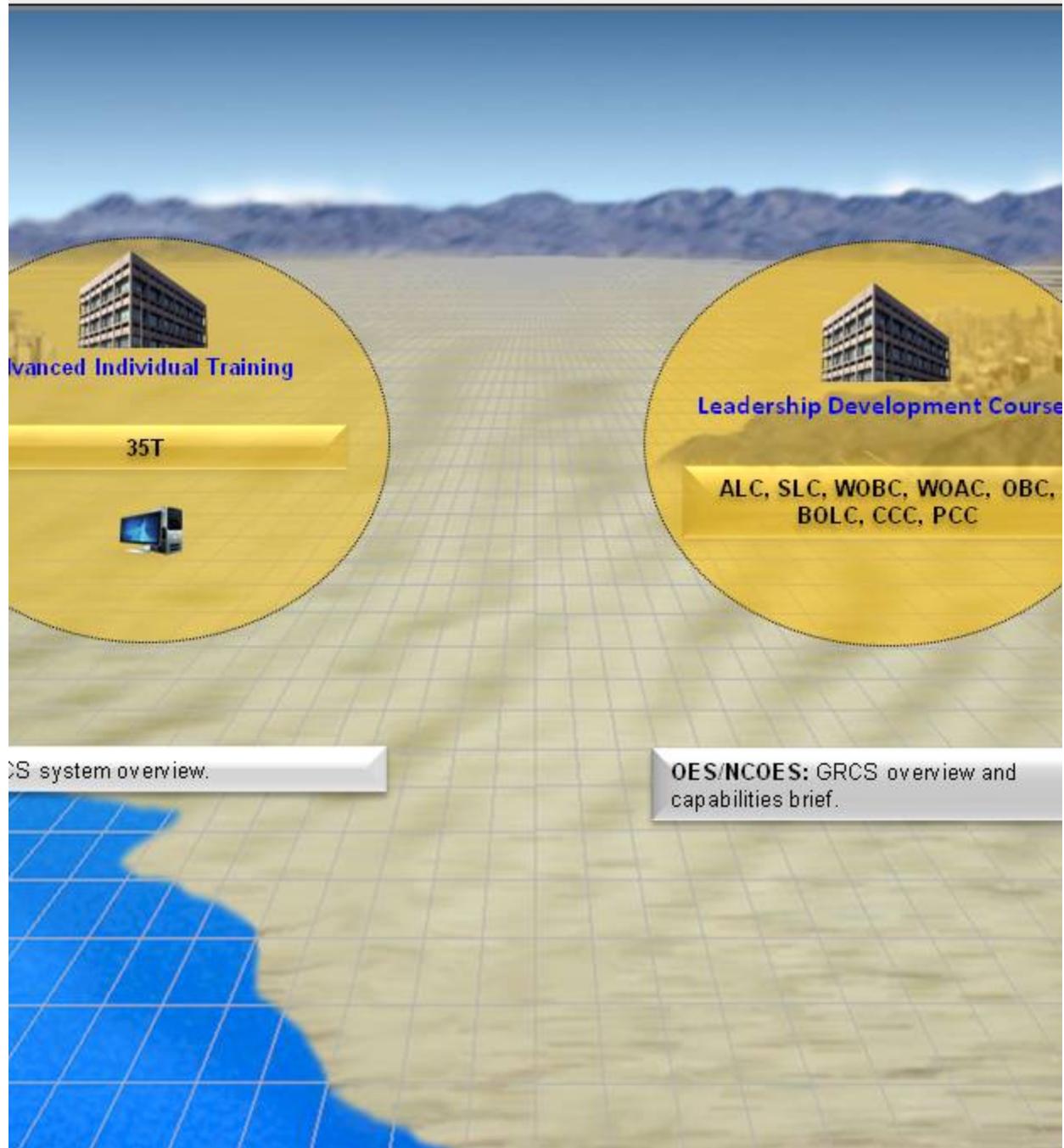
6.1.2 Architectures and Standards Component

6.1.2.1 Operational View (OV)

Prior to attending courses, all students must meet appropriate course pre-requisites as outlined in paragraph 2.0 (Target Audience).

- GR/CS functional courses at USAICoE train SEMA aviators on flight operations using both the actual aircraft and the CPT; these operations include flight dynamics as it relates to the GR/CS payload. SIGINT payload operators attend the APGO functional course at USAICoE and receive ASI V3 upon graduation (FY16) in accordance with the A-ISR training strategy. GEOINT payload operators attend the AGPO functional course and receive a yet to be identified ASI.
- Maintainers utilize classroom facilities for a GRCS overview. Leadership development courses utilize classroom facilities for a GR/CS overview and capabilities brief.

GRCS Training – Fort Huachuca, AZ



Institutional

CS Training - Functional Courses - Fort Huachuca, AZ

SEMA Aviator

15A/C & 155E/F

Libby Army Airfield

GRCS

Cockpit Procedural Trainer (CPT)

Pilot:

- GRCS Aviators earn ASI F4.
- Training will be a combination of CPT and aircraft.

AGPO Course

35G

Surrogate

GPT

OPT

APGO Course

35N/S/P

Surrogate

Control Software

IEWTPT /

ors will receive a yet to be identified ASI. lude using simulators, work stations, and Procedure Trainer.

APG:

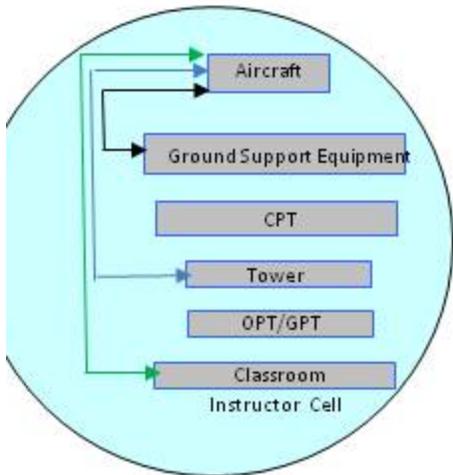
- APG training is currently conducted at Fort to a functional course (APGO course) at F
- SIGINT operators will attend and receive A

Institutional functional OV

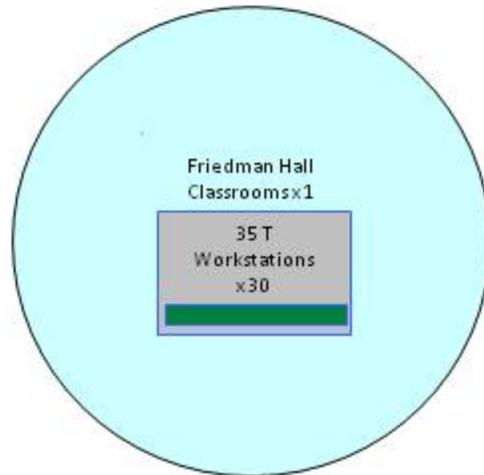
6.1.2.2 Systems View (SV)

Aviator training uses operational SEMA aircraft and the CPT at Libby Army Airfield to train aviators in pre-flight, in-flight, and post-flight tasks. Maintainers utilize classroom facilities for a GR/CS aircraft overview. SIGINT payload operators attend the APGO functional course and receive ASI V3 upon graduation once USAICoE begins training APG in FY16 in accordance with the AISR training strategy. GEOINT payload operators attend the AGPO functional course and receive a yet to be identified ASI.

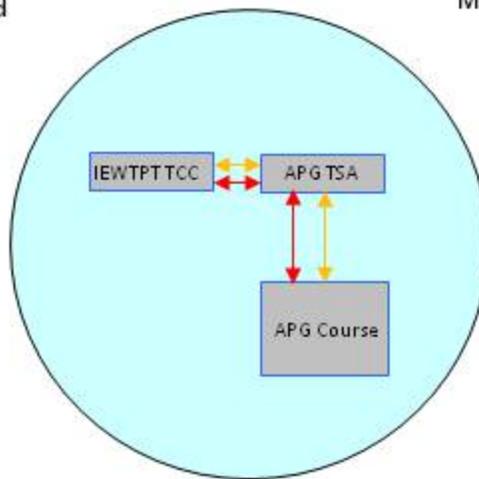
il Training SV-1



Ft. Huachuca
Libby Army Airfield



Ft. Huachuca
Maintenance Training Facility



Ft. Huachuca
APG Training Facility



Institutional SV

6.1.2.3 Technical View (TV)

N/A

6.1.3 Management, Evaluation, and Resource (MER) Processes Component

6.1.3.1 Management

USAICoE with the support of PM SAI, PM Fixed Wing, and PEO STRI develop and manage the training curricula, training facility, and associated training devices.

6.1.3.1.1 Strategic Planning

GR/CS institutional training supports the over-arching Joint Direct-support Aerial Intelligence, Surveillance, and Reconnaissance (JDSAISR) Initial Capabilities Document (ICD) requirements to ensure Soldiers are capable of employing GR/CS assets throughout the force.

Future GR/CS training capabilities must have the following force design and training concepts applied:

- Military Intelligence Rebalance Decision (FY11)
- TP 525-8-2 w/C1 The United States Army Learning Model
- The United States Army Operating Concept 2016-2028
- TRADOC Commander's training guidance
- USAICoE Commander's training guidance

6.1.3.1.2 Concept Development and Experimentation (CD&E)

N/A

6.1.3.1.3 Research and Studies

The following studies support both current and future training initiatives:

- AEB Doctrine, Organization, Training, Materiel Leadership and Education, Personnel and Facilities (DOTMLPF) evaluation Jan 07
- Aerial Common Sensors Training Development Functional Analysis Sep 05
- Mission Area Analysis (MAA) Feb 08
- A-ISR Training Needs Analysis Sep 09
- A-ISR Training Study Dec 07

6.1.3.1.4 Policy and Guidance

The following Army Regulations (AR) and TRADOC Regulations (TR) describe the policies regulating the implementation of the TSS for GRCS:

- AR 350-1 Army Training and Leader Development
- AR 350-38 Training Device Policies and Management
- TR 350-70 Army Learning Policy and Systems
- TP 525-8-2 w/C1 The United States Army Learning Model
- TP 525-3-1 The United States Army Operating Concept 2016-2028
- TRADOC Commander's training guidance
- USAICoE Commanders training guidance

6.1.3.1.5 Requirements Generation

- Required Operational Capability (ROC) updated 1993
- GR/CS ORD (1 Oct 1997)
- ACS Capability Development Document (CDD)
- JDSAIR ICD approved 2010
- DA G3/5/7 Memorandum for GR/CS FMV Requirement
- EMARSS Capability Production Document (14 July 2014)

6.1.3.1.6 Synchronization

USAICoE synchronizes GR/CS training development requirements with DCGS-A, USAACE, and other Centers of Excellence training efforts. USAICoE coordinates with other training centers of excellence to develop TTPs for tactical maneuver commanders to leverage GR/CS capabilities in support of operations.

6.1.3.1.7 Joint Training Support

N/A

6.1.3.2 Evaluation

USAICoE Quality Assurance Office (QAO) evaluates GR/CS institutional courses through established formal and informal processes to ensure efficient and effective training. USAACE using the Aviation Resource Management System (ARMS) evaluates GR/CS institutional pilot training.

6.1.3.2.1 Quality Assurance (QA)

The USAICoE QAO provides oversight on institutional training curricula by evaluating classroom instruction and associated training documentation and courseware.

6.1.3.2.2 Assessments

The USAICoE QAO performs assessments of all institutional courses by individual surveys, special surveys and classroom monitoring. QAO will provide USAICoE survey results to the Deputy Commander of Training and all relevant command sections related to a given survey.

6.1.3.2.3 Customer Feedback

N/A

6.1.3.2.4 Lessons Learned/After-Action Reviews (AARs)

USAICoE will use lessons learned and AAR data to support efficient and effective GR/CS institutional training by identifying and incorporating relevant TTPs from the operational environment. Data is available from:

- USAICoE lessons learned team and the Center for Army Lessons Learned (CALL) collect and analyze data from a variety of current and historical sources, including Army operations and training events. CALL disseminates this information and other related research materials to Soldiers through a variety of print and electronic media.
- Command-driven AARs conducted after training events and deployments provide feedback used to improve training at the institution.

Contract/Spt							
Civ Pay							
Trvl/Per Diem							
Other							

Rationale: Training developers are needed to develop and maintain the programs of instruction and other outputs of the ADDIE process.

Item Resourced	Prior	FY14 Yrs or \$K	FY15 Yrs or \$K	FY16 Yrs or \$K	FY17 Yrs or \$K	FY18 Yrs or \$K	FY19 Yrs or \$K
<u>New Equipment Training</u>							
Contractor							

Contract/Spt							
Trvl/Per Diem							
Classrooms							
Equipment							
AC/DC Power							
Printing							
Other							

Rationale:

Item	FY14	FY15	FY16	FY17	FY18	FY19	FY20
Resourced	Yrs or \$K	Yrs or \$K	Yrs or \$K	Yrs or \$K	Yrs or \$K	Yrs or \$K	Yrs or \$K

<u>Training Products</u>							
Training Pubs	0.2 MY	0.2 MY	2.0 MY	2.0 MY			
TSP	0.2 MY	0.2 MY	2.0 MY	2.0 MY			
IMI							
ETM			\$250K	\$250K			
STP							
IETM							
CATS							
Printing			\$14K	\$14K	\$14K		
Distribution			\$10K	\$10K	\$10K		
Other							

GTA							
Software							
Trng Equip*							
Equipment							
Printing							
Shipment							
Sustainment							
Other							

Rationale: Cost to sustain TADSS. PEO STRI is responsible for the CPT.

	Prior	FY14	FY15	FY16	FY17	FY18	FY19
Item Resourced		Yrs or					

		\$K	\$K	\$K	\$K	\$K	\$K
<u>Facilities/Land</u>							
Facilities							
Land							
Site Surveys							
Concrete Pad							
AC/DC Power							
Equipment							
Maintenance							
Other							

Rationale:

Item Resourced	Prior	FY14 Yrs or \$K	FY15 Yrs or \$K	FY16 Yrs or \$K	FY17 Yrs or \$K	FY18 Yrs or \$K	FY19 Yrs or \$K
<u>Training Services/TII</u>							
LMS							
Services							
Servers							
Licenses							
IT Support							
Other							

Rationale:

Item Resourced	Prior	FY14 Yrs or \$K	FY15 Yrs or \$K	FY16 Yrs or \$K	FY17 Yrs or \$K	FY18 Yrs or \$K	FY19 Yrs or \$K
Eval/OA							
Contractor							
Civilian		0.2 MY					
Enlisted		0.2 MY					
Warrant							
Officer					0.2 MY	0.2 MY	0.2 MY
Contract/Spt							
Civ Pay							
Trvl/Per Diem							

Facilities							
Equipment							
Printing		\$0.2K	\$0.2K	\$0.3K	\$0.31K	\$0.32K	\$0.33K
TEA							
PFTEA							
Other							

Rationale: Personnel will be required to conduct evaluation/quality assurance of training.

7.0 Operational Training Domain

Operational training ensures that pilots, operators, and maintainers are able to perform system individual and collective tasks while mission managers understand the duties/responsibilities expected of a GR/CS mission manager. Sustainment of those tasks and skills at home-station is crucial for mission accomplishment and is achieved using the TSP, Electronic Technical manuals (ETMs) and references, TADSS (TSA), etc. developed for system training. Unit Commanders identify, manage, and program training requirements for GR/CS personnel and develop new or utilize existing training matrices to further focus on those requirements.

7.1 Operational Training Concept and Strategy

GR/CS training in the operational domain consists of NET, the Commander's ATP, a formal OJT program, and unit collective training.

NET: If necessary GR/CS NET will consist of role-specific programs of instruction to prepare the fielded unit to employ and maintain GR/CS capabilities successfully in direct support to tactical operations. At each fielding event, PM SAI and PM Fixed Wing will deliver an up-to-date NET TSP in approved TRADOC and DOD formats, sufficient to train a full complement of Soldiers to employ and maintain GRCS across the full spectrum of Unified Land Operations (ULO). The TSP includes the leave behind NET POIs and lesson plans (LP) with integrated DTT, ETMs and references, and TADSS developed for system training.

ATP: The Aircrew Training Plan (ATP) consists of qualification, refresher, mission, and continuation training. The goal of the program is to develop mission-ready aviation units. GR/CS-equipped units incorporate material from the TSP, FTG, and the ATM to ensure training covers the entire spectrum from task proficiency at the individual level to unit proficiency in executing mission-essential tasks.

OJT: GR/CS units establish a formal, mission-specific training program based on the TSP to train and sustain incoming and resident Soldiers on the perishable critical individual tasks that support the unit's METL. The OJT program will use the GRCS TSA scenario-based training vignettes to present Soldiers with a realistic virtual operational environment through the payload control software.

Functional Courses: The APGO and AGPO courses at Fort Huachuca are available to train APG operators and GEOINT payload operators that are newly arrived at the unit. APG training resides at Fort Hood until FY16 when it will move to Fort Huachuca.

Collective Training: GR/CS units are encouraged to participate in collective training at Mission Training Complexes/Combat Training Centers as mission dictates and resources are available.

7.1.1 Product Lines

GR/CS operational product lines include the training equipment, courseware, training manuals, TSPs, training facilities, and land necessary to train and sustain Soldiers on GR/CS capabilities, crew member, and collective tasks.

7.1.1.1 Training Information Infrastructure

Operational GR/CS Training Information Infrastructure (TII) consists of the TRADOC-approved data repository, the Military Intelligence Training System (MITS), and the necessary hardware and software to conduct training. GR/CS TII will conform to both joint and Army architectures and standards to enable the development, storage, retrieval, delivery, and management of TSS products and information.

7.1.1.1.1 Hardware, Software, and Communications Systems

Units will access training support information and training exercise content using operational equipment including GR/CS system components, supporting systems, and the appropriate network. Systems and sub-systems will include but not be limited to:

- GR/CS Aircraft
- DCGS-A MFWS
- APG TSA
- NIPRNET
- SIPRNET
- JWICS

7.1.1.1.2 Storage, Retrieval, and Delivery

GR/CS information supporting training is available at one or more of the following:

- TRADOC approved training database
- IKN
- CALL Repository

These capabilities allow for the collection and organization of, and provide access to, digital TSS products and information.

7.1.1.1.3 Management Capabilities

USAICoE manages GR/CS TII using the Digital Training Management System (DTMS), MITS, and TRADOC-approved training databases.

7.1.1.1.4 Other Enabling Capabilities

N/A

7.1.1.2 Training Products

NSTID maintains all GR/CS training materials (including DTT) in knowledge centers on appropriately classified networks. PM SAI and PM Fixed Wing will provide updated training materials to USAICoE and fielded units at each system increment. PM SAI and PM Fixed Wing will ensure new or updated training materials are clearly marked to identify new, modified, or deleted content. Units incorporate content from the GR/CS TSP into the ATP and formal OJT program. Units determine appropriate training materials for individual training programs, mission training plans, and collective training exercises using the Combined Arms Training Strategy.

7.1.1.2.1 Courseware

Units develop an ATP and formal, role-specific OJT programs from the GR/CS NET TSP. Units select mission-appropriate courseware from the NET TSP and modify as necessary to satisfy the commander's requirements.

7.1.1.2.2 Courses

GR/CS operators, mission managers, and maintainers train on GR/CS tasks using the following:

- TSP
- APG course (35N/P/S) currently given at Fort Hood, Texas. The APG course will migrate to Fort Huachuca as the APGO course in FY16
- AGPO Course at Fort Huachuca (35G)

7.1.1.2.3 Training Publications

Units have access to ETMs, FTGs, ATMs, SUMs, STPs, applicable FMs and ARs via the Central Army Registry (CAR) and IKN.

7.1.1.2.4 TSP

PM SAI and PM Fixed Wing in conjunction with NSTID develop the TSP. The TSP includes:

- System CTL developed by the training developer
- NET Lesson Plans formatted in the current TRADOC approved training database for all GR/CS system tasks
- System software and hardware IETM
- Software User Manuals
- DTT developed by NSTID and integrated into the NET POI
- ET with IEWTPT fully integrated into system architecture to support individual user training, facilitating training from their home stations in a standalone training mode

NSTID utilizes the validated NET TSP provided by PM SAI and PM Fixed Wing to update all systems tasks and lesson plans included in the GR/CS TSP in the current TRADOC approved training database. GR/CS TSPs are complete, exportable packages integrating training products/materials necessary to train system critical, individual, and leader tasks. GR/CS TSPs provide a structured training program that supports Soldier/Leader and staff training.

PM SAI and PM Fixed Wing provide a complete library of GR/CS related manuals, to include all COTS and GOTS software and hardware components publications.

7.1.1.3 TADSS

The GR/CS operational training (skills sustainment) concept for operators and analysts relies on virtual and constructive training simulations enabled by the GR/CS TSA, a component of the IEWTPT system. The GR/CS TSA and the IEWTPT training architecture will be a critical part of the overall operational domain training strategy. This system includes the GR/CS TSA (system training device) and PEO STRI developed TCC (non-system device). It provides system training (embedded training capability) as well as networked connectivity for collective training within the mission command collaborative training environment. The GR/CS TSA will include the capability for supervisors to develop training scenarios that can be tailored to support unique, operationally focused training scenarios. The TSA, by design, is intended to present virtual payload and sensor data to GR/CS system operational software to enable task specific training using operational software toolsets. It will assist the commanders with the capability to manage training data and evaluate operator/analyst proficiency via After Action Review (AAR) tools.

7.1.1.3.1 Training Aids

PM SAI and PM Fixed Wing will develop training aids for GR/CS training based on analysis performed collaboratively with the USAICoE training developers. USAICoE will perform V&V on all Training Aids prior to finalization for use.

7.1.1.3.2 Training Devices

Training devices include the IEWTPT TSA (developed by the system PM)/Technical Control Cell (TCC) (developed by PEO-STRI) to support GR/CS specific payload and sensor stimulation, exercise management/control, play-back, and AAR. These devices may also include partial task trainers for selected/unique payload/sensor operations in a stand-alone or networked mode.

7.1.1.3.3 Simulators

No simulators will be required at the unit's home station.

7.1.1.3.4 Simulations

The GR/CS TSA will provide operators with virtual data from realistic scenarios using simulations. It will create an operationally focused virtual environment which emulates real-world collection, stimulating the GR/CS operational toolsets, for individual system training. It will use the Joint Land Component Constructive Training Capability (JLCCTC) and the IEWTPT TCC when networked. Existing sensors and activity models will be reused to the greatest extent possible.

7.1.1.3.5 Instrumentation

N/A

7.1.1.4 Training Facilities and Land

The training facilities include, at a minimum, designated training areas, (SCIF-certified as required) for GR/CS mission operators and mission managers. The training environment facilitates the overall training infrastructure. The training environment includes facilities necessary to coordinate the following:

- COMSEC support
- Maintenance support for facilities and systems
- Network capabilities to facilitate training
- GR/CS facilities/workstations

7.1.1.4.1 Ranges

No additional ranges or specialized training areas are required for GRCS training.

7.1.1.4.2 Maneuver Training Areas (MTA)

No additional Maneuver Training Areas are required for GR/CS training.

7.1.1.4.3 Classrooms

GR/CS training utilizes existing facilities and equipment located at the unit.

7.1.1.4.4 CTCs

PM SAI will resource modeling of GR/CS system capabilities in the constructive simulation for collective training at CTCs. CTCs will be able to stimulate GR/CS payload control software interfaces with the constructive simulation via the TSA (developed for common A-ISR payloads) and IEWTPT.

7.1.1.4.5 Logistics Support Areas

GR/CS operational training does not require logistics support areas beyond existing unit facilities.

7.1.1.4.6 Mission Command Training Centers (MCTC)

MCTCs use GR/CS capability models to present Soldiers and leaders with realistic responses to requests for support from GR/CS units before, during, and after simulated combat events.

7.1.1.5 Training Services

PM SAI and PM Fixed Wing support all training capabilities associated with the GR/CS program throughout the systems lifecycle.

7.1.1.5.1 Management Support Services

N/A

7.1.1.5.2 Acquisition Support Services

PEO STRI is responsible for maintenance and upgrades for the IEWTPT.

7.1.1.5.3 General Support Services

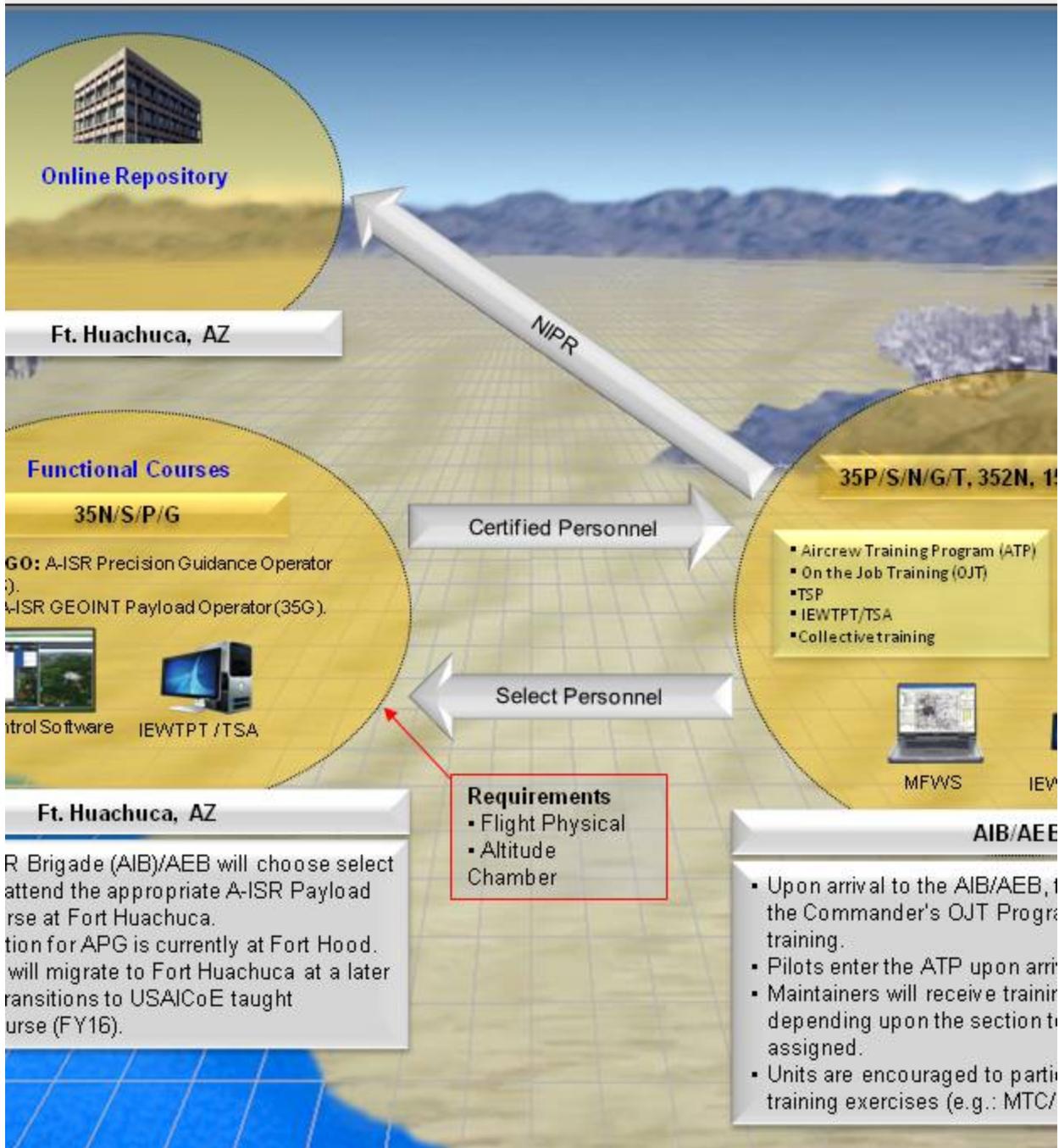
PM SAI, PM Fixed Wing, PEO STRI, and Intelligence and Security Command (INSCOM) provide or coordinate jointly for general support services needed for GR/CS facility support and training devices.

7.1.2 Architectures and Standards Component

7.1.2.1 Operational View (OV)

GR/CS operational training consists of NET and sustainment training conducted at the unit. PM SAI and PM Fixed Wing will provide NET using unit facilities and the fielded system equipment. Sustainment training consists of individual and collective training events that support the Commander's training strategy. Individual training includes the formal OJT program, the Commander's ATP, and situational and field exercises as necessary to support the unit METL. USAICoE will host any classified dL products in an appropriate dL repository accessible from workstations in the unit. The GR/CS TSA will link payload control software interfaces to simulated scenarios to train and sustain operator skills. The Mission Training Complexes (MTC) support unit collective training events using a combination of entity resolution federated constructive and virtual simulations. The AGPO course and the APG Course/APGO course are available to train newly arrived GEOINT and SIGINT payload operators.

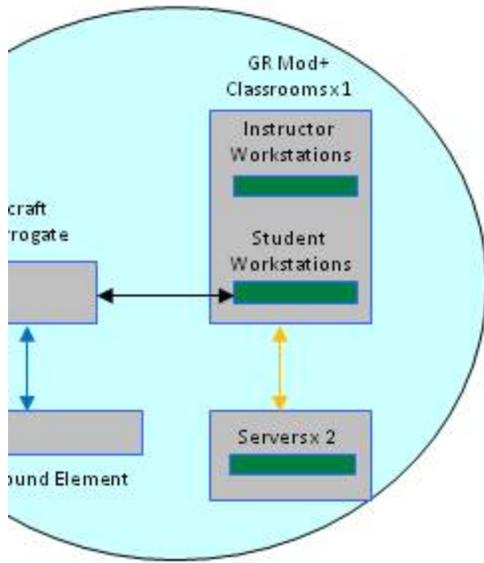
CS Training – Fort Huachuca, AZ and AIB/AEB



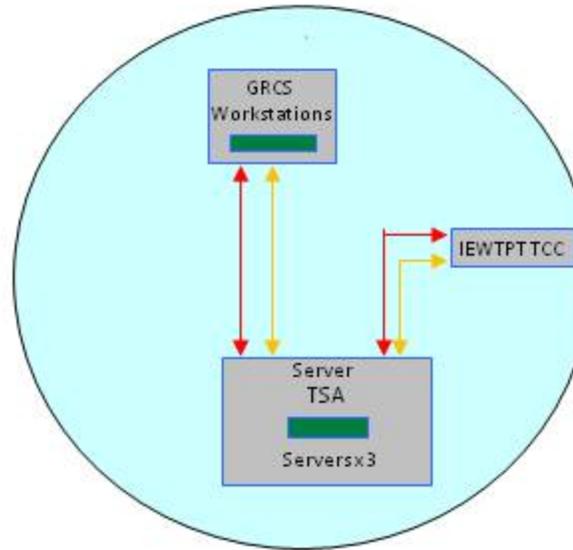
Operational OV

7.1.2.2 Systems View (SV)

al Development Training SV-1



Fort Hood, TX (Currently)
Fort Huachuca, AZ (FY16)



AIB/AEB

Operational SV

7.1.2.3 Technical View (TV)

N/A

7.1.3 Management, Evaluation, and Resource (MER) Processes Component

7.1.3.1 Management

USAICoE with the support of PM SAI, PM Fixed Wing, and PEO STRI develops and manages the training curricula and associated training devices.

7.1.3.1.1 Strategic Planning

GR/CS operational training supports the over-arching JDSAIR ICD requirements to ensure Soldiers are capable of employing GR/CS assets in support of Unified Land Operations (ULO). The following force design and training concepts will be applied to future GR/CS training capabilities:

- Military Intelligence Rebalance Decision (FY11)
- TP 525-8-2 w/C1 The United States Army Learning Model
- The United States Army Operating Concept 2016-2028
- FORSCOM Commander's training guidance
- INSCOM Commander's training guidance

7.1.3.1.2 Concept Development and Experimentation (CD&E)

N/A

7.1.3.1.3 Research and Studies

N/A

7.1.3.1.4 Policy and Guidance

The following Army Regulations (AR), TRADOC Regulation (TR), TRADOC Publications (TP) and Training Circulars (TC) describe the policies regulating the implementation of the TSS for GRCS:

- AR 350-1 Army Training and Leader Development
- AR 350-38 Training Device Policies and Management
- TR 350-70 Army Learning Policy and Systems
- TP 525-8-2 w/C1 The United States Army Learning Model
- TP 525-3-1 The United States Army Operating Concept 2016-2028
- FORSCOM Commander's training guidance
- INSCOM Commander's training guidance

7.1.3.1.5 Requirements Generation

Generation includes these actions:

- GRCS ROC approved 1993
- GRCS ORD (1 Oct 1997)
- ACS CDD (9 Sep 2010)
- JDSAIR ICD (10 Sep 2010)
- EMARSS Capability Production Document (14 July 2014)

7.1.3.1.6 Synchronization

USAICoE synchronizes GR/CS training development requirements with DCGS-A, USAACE, and other Centers of Excellence training efforts. USAICoE coordinates with other training centers of excellence to develop TTPs for tactical maneuver commanders to leverage GR/CS capabilities in support of operations.

7.1.3.1.7 Joint Training Support

N/A

7.1.3.2 Evaluation

7.1.3.2.1 Quality Assurance (QA)

NSTID will use AARs conducted during and at the conclusion of NET/DTT to ensure quality and content of the training satisfies unit requirements. NSTID will use responses to make immediate modifications and/or supplementations to the NET/DTT if needed. One year after fielding, NSTID will solicit feedback from the unit to determine long term effectiveness of NET/DTT and sustainment training. Feedback will assist NSTID in correcting training deficiencies and will provide information that may affect the next generation of equipment or product improvements.

7.1.3.2.2 Assessments

Commanders use assessment support services to evaluate the GRCS TSS and its relevance to the training process. Assessment tools include:

- Training evaluation and analyses
- Monthly status reports
- Strategic Readiness System

7.1.3.2.3 Customer Feedback

USAICoE, PM SAI, and PM Fixed Wing use customer feedback to evaluate and trigger corrections to the GRCS TSS. Feedback tools include:

- Electronic media for surveys
- Interviews
- Questionnaires
- Critiques
- AARs

7.1.3.2.4 Lessons Learned/After-Action Reviews (AARs)

Lessons learned and AAR data supports efficient and effective GR/CS operational training by identifying strengths and weaknesses observed in the operational environment.

- USAICoE lessons learned team and the CALL collect and analyze data from a variety of current and historical sources, including Army operations and training events. CALL disseminates this information and other related research materials to Soldiers through a variety of print and electronic media.
- Commanders conduct AARs after training events and deployments to collect feedback to improve operational training. Commanders and unit trainers will use IEWTPT TCC's AAR capability to assess the effectiveness of the training.

7.1.3.3 Resource Processes

Item Resourced	Prior	FY14 Yrs or \$K	FY15 Yrs or \$K	FY16 Yrs or \$K	FY17 Yrs or \$K	FY18 Yrs or \$K	FY19 Yrs or \$K
<u>Manpower - TD</u>							
Contractor							
Civilian		0.2 MY					
Enlisted		0.2 MY					
Warrant							
Officer							
Contract/Spt							
Civ Pay							

Trvl/Per Diem			\$58K	\$61K	\$67K	\$70K	\$73K
Other							

Rationale: Training developers are needed to develop and maintain the programs of instruction and other outputs of the ADDIE process. NSTID will use a mix of personnel in different functional areas within the training program. Travel/Per Diem represents cost to attend training and reviews; and for four instructor/key personnel to evaluate training prior to operational testing. Temporary Duty (TDY) costs for required reviews and meetings are based on seven 5-day meetings per year totaling \$10591 = 7 x \$1,513. Cost breakdown per trip: \$1,513 = [\$850 travel \$425 per Diem (5 days @ \$85 per day) \$238 rental car and fuel (5 days @ \$48 per day plus fuel)].

Item Resourced	Prior	FY14 Yrs or \$K	FY15 Yrs or \$K	FY16 Yrs or \$K	FY17 Yrs or \$K	FY18 Yrs or \$K	FY19 Yrs or \$K
<u>New Equipment Training</u>							

Contractor							
Contract/Spt							
Trvl/Per Diem				\$70K	\$72K	\$74K	
Classrooms					\$10.5K	\$10.5K	
Equipment							
AC/DC Power							
Printing					\$10K	\$10K	
Other							

Rationale: Classrooms suitable for twelve students with standard electrical power are required for NET based on commercial rate of \$1.50 for heated and cooled facilities. NSTID will use a mix of personnel in different functional areas within the training program. The work effort includes input/development/updates of requirement documentation appropriate

Training Aids							
Devices							
Simulators							
Simulations							
GTA							
Software			\$125K	\$134K	\$138K		
Trng Equip*							
Equipment							
Printing							
Shipment							
Sustainment						\$144K	\$148K
Other							

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Rationale: Cost to procure and sustain TSA not supported by EMARSS TSA.

Item Resourced	Prior	FY14 Yrs or \$K	FY15 Yrs or \$K	FY16 Yrs or \$K	FY17 Yrs or \$K	FY18 Yrs or \$K	FY19 Yrs or \$K
<u>Facilities/Land</u>							
Facilities							
Land							
Site Surveys							
Concrete Pad							
AC/DC Power							
Equipment							

Maintenance							
Other							

Rationale:

Item Resourced	Prior	FY14 Yrs or \$K	FY15 Yrs or \$K	FY16 Yrs or \$K	FY17 Yrs or \$K	FY18 Yrs or \$K	FY19 Yrs or \$K
<u>Training Services/TII</u>							
LMS							
Services							
Servers							
Licenses							

Officer							
Contract/Spt							
Civ Pay							
Trvl/Per Diem							
Facilities							
Equipment							
Printing					\$0.2K	\$0.2K	\$0.2K
TEA							
PFTEA							
Other							

Rationale: Personnel will be required to conduct evaluation/quality

assurance of NET training.

8.0 Self-Development Training Domain

Self-development training on GRCS products supports all GRCS personnel, Commanders and staff, and professional Military Leadership courses by providing access and connectivity to all training products developed for GRCS training. Training repositories are reachable from classrooms, remote locations, GRCS workstations, and any Common Access Card (CAC) enabled NIPRNET workstation.

8.1 Self-Development Training Concept and Strategy

Self Development focuses on the use of the TSP. NSTID hosts the TSP on IKN for access by the units in the field.

8.1.1 Product Lines

N/A

8.1.1.1 Training Information Infrastructure

N/A

8.1.1.1.1 Hardware, Software, and Communications Systems

Hardware, Software, and Communications systems include but are not limited to:

- NIPRNET

8.1.1.1.2 Storage, Retrieval, and Delivery

GRCS information supporting training is available at one or more of the following areas:

- IKN
- CALL Repository

8.1.1.1.3 Management Capabilities

N/A

8.1.1.1.4 Other Enabling Capabilities

N/A

8.1.1.2 Training Products

NSTID posts GRCS training materials (TSP and DTT) on IKN. At a minimum, each system upgrade will trigger a review of GRCS training materials to determine if modifications to GRCS training materials are required. When training materials and system manuals are changed PM SAI, PM Fixed Wing, and NSTID will ensure USAICoE and fielded units receive the new materials. NSTID will update the TRADOC approved training database with all relevant changes and will post the new training materials to IKN with modifications annotated.

8.1.1.2.1 Courseware

PM SAI, PM Fixed Wing, and NSTID enter the lesson plans for all courses into the TRADOC approved training database. NSTID and the fielded units use the lesson plans entered into the TRADOC approved training database for course development. The accompanying DTT material is available on IKN, depending upon classification. The GR/CS courseware will cover the tasks necessary to ensure operability of each systems payload.

8.1.1.2.2 Courses

GR/CS self development trains soldiers using the TSP.

8.1.1.2.3 Training Publications

Soldiers have access to ETMs and applicable FMs via the IKN Document Management System (DMS).

8.1.1.2.4 Training Support Package (TSP)

PM SAI and PM Fixed Wing in conjunction with NSTID develop the TSP. The TSP includes:

- CTL developed by the training developer
- NET Lesson Plans formatted in the current TRADOC approved training database for all GRCS system tasks
- System software and hardware ETM
- Software user manuals
- DTT developed by NSTID and integrated into the NET POI

USAICoE utilizes the validated NET TSP provided by PM SAI to update all systems tasks and lesson plans included in the GRCS TSP in the current TRADOC approved training database. GRCS TSPs are complete, exportable packages integrating training products/materials necessary to train system critical, individual, and leader tasks. GRCS TSPs provide a structured training program that supports Soldier/Leader and staff training.

PM SAI and PM Fixed Wing provide a complete library of GRCS related manuals, to include all COTS and GOTS software and hardware components publications.

8.1.1.3 Training Aids, Devices, Simulators and Simulations (TADSS)

8.1.1.3.1 Training Aids

PM SAI and PM Fixed Wing will develop training aids for GRCS training based on analysis performed collaboratively with the USAICoE training developers. USAICoE will perform V&V on all Training Aids prior to finalization for use.

8.1.1.3.2 Training Devices

Training devices may include but are not limited to:

- NIPRNET workstation (for accessing unclassified training material)

8.1.1.3.3 Simulators

N/A

8.1.1.3.4 Simulations

N/A

8.1.1.3.5 Instrumentation

N/A

8.1.1.4 Training Facilities and Land

8.1.1.4.1 Ranges

N/A

8.1.1.4.2 Maneuver Training Areas (MTA)

N/A

8.1.1.4.3 Classrooms

N/A

8.1.1.4.4 CTCs

N/A

8.1.1.4.5 Logistics Support Areas

8.1.1.4.6 Mission Command Training Centers (MCTC)

N/A

8.1.1.5 Training Services

8.1.1.5.1 Management Support Services

GRCS self-development training does not require management support services beyond those provided for operational training.

8.1.1.5.2 Acquisition Support Services

GRCS self-development training does not require acquisition support services beyond those provided for operational training.

8.1.1.5.3 General Support Services

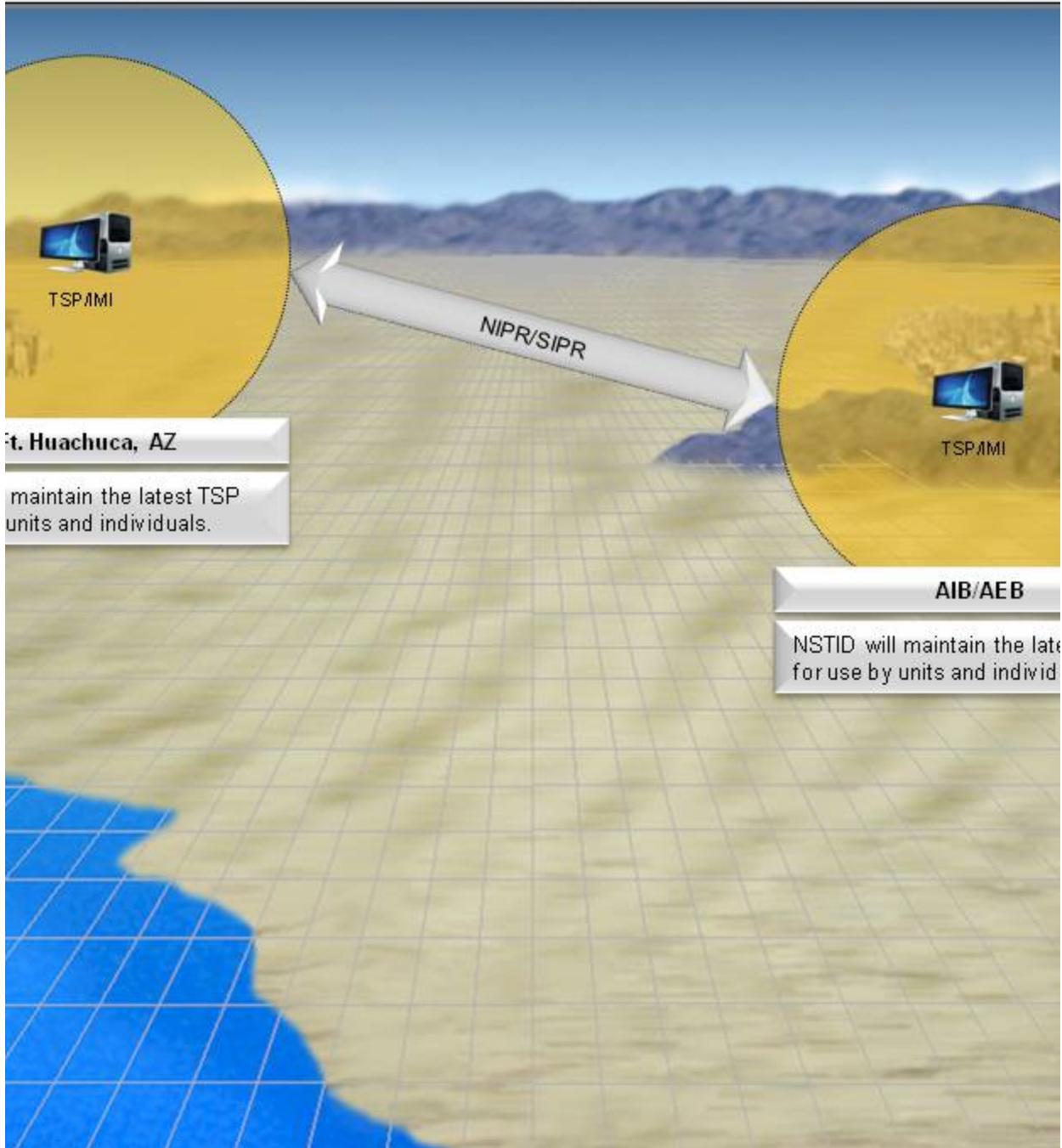
GRCS self-development training does not require general support services beyond those provided for operational training.

8.1.2 Architectures and Standards Component

8.1.2.1 Operational View (OV)

Self Development focuses on the use of the TSP. NSTID hosts the TSP on IKN for use by the fielded units.

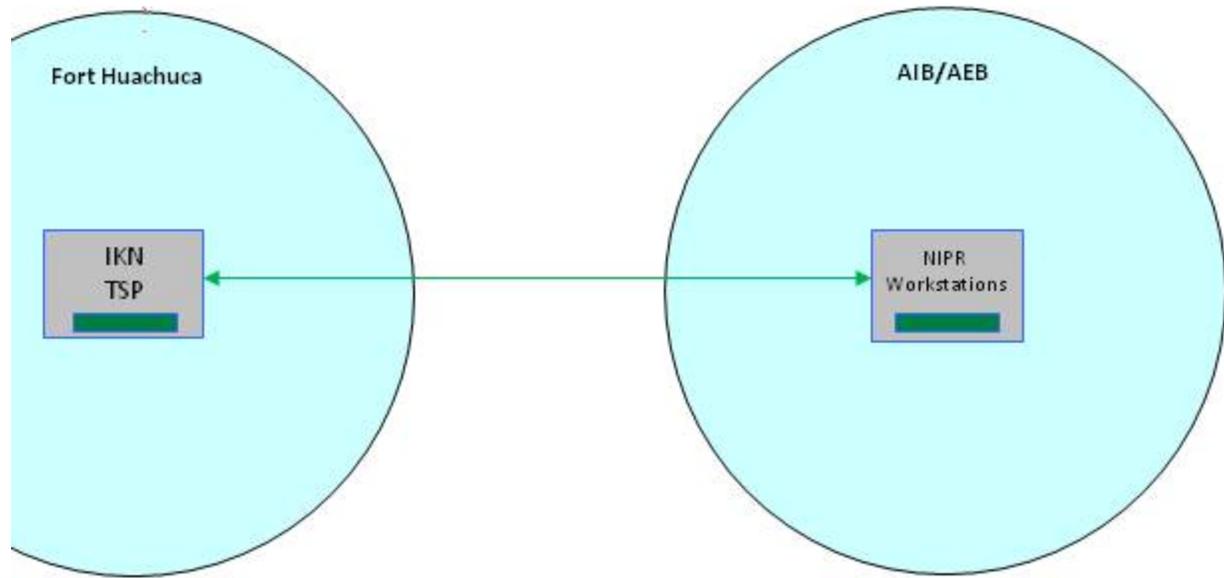
Development Training – Fort Huachuca, AZ and AIB/AEB



Self Development OV

8.1.2.2 Systems View (SV)

ment Training SV-1



-
-
-
-
-

Self Development SV

8.1.2.3 Technical View (TV)

N/A

8.1.3 Management, Evaluation, and Resource (MER) Processes Component

8.1.3.1 Management

NSTID in coordination with PM SAI and PM Fixed Wing develop and manage the training curricula.

8.1.3.1.1 Strategic Planning

GRCS self-development training supports the over-arching JDSISR ICD requirements to ensure Soldiers are capable of employing GRCS assets in support of Unified Land Operations (ULO). The following force design and training concepts will be applied to future GRCS training capabilities:

- Military Intelligence Rebalance Decision (FY11)
- TP 525-8-2 w/C1 The United States Army Learning Model
- The United States Army Operating Concept 2016-2028
- FORSCOM Commander's training guidance
- INSCOM Commander's training guidance

8.1.3.1.2 Concept Development and Experimentation (CD&E)

N/A

8.1.3.1.3 Research and Studies

N/A

8.1.3.1.4 Policy and Guidance

The following describe the implementation of the TSS for GRCS:

- AR 350-1 Army Training and Leader Development
- AR 350-38 Training Device Policies and Management
- TR 350-70 Army Learning Policy and Systems
- TP 525-8-2 w/C1 The United States Army Learning Model
- TP 525-3-1 The United States Army Operating Concept 2016-2028
- FORSCOM Commander's training guidance
- INSCOM Commander's training guidance

8.1.3.1.5 Requirements Generation

Requirements Generation includes these actions:

- Required Operational Capability (ROC) approved 1993
- GRCS ORD (1 Oct 1997)
- ACS CDD (9 September 2009)
- JDSAIR ICD (10 September 2010)
- EMARSS Capability Production Document (14 July 2014)

8.1.3.1.6 Synchronization

N/A

8.1.3.1.7 Joint Training Support

N/A

8.1.3.2 Evaluation

8.1.3.2.1 Quality Assurance (QA)

N/A

8.1.3.2.2 Assessments

N/A

8.1.3.2.3 Customer Feedback

N/A

8.1.3.2.4 Lessons Learned/After-Action Reviews (AARs)

N/A

8.1.3.3 Resource Processes

N/A

A Milestone Annex

TRAINING DEVELOPMENT MILESTONE SCHEDULE - SHEET A		PAGE OF PAGES	REQUIREMENTS CONTROL SYMBOL
SYSTEM	ACAT	OFFICE SYMBOL	AS OF DATE
POINTS OF CONTACT	NAME	OFFICE SYMBOL	TELEPHONE
MATERIEL COMMAND			
TRADOC PROPONENT			
Product Manager	COL Tom Gloor PM SAI COL PM Fixed Wing	SF AE-IEW&S-ACS	443-861-1991 256-313-4302
TCM	COL Casey Carey	ATZS-CDI-ACS-AS	DSN 821-2165
CD:	COL Casey Carey		DSN 821-2165
TD:	SSG Richard Ray	ATZS-CDI-NS	520-538-3203
ATSC:			
SUPPORTING PROPONENTS:			

ITEM	DATE	RESPONSIBLE AGENCY/POC		TELEPHONE
MNS :				
SMMP :				
MRD :				
ILSMP :				
STRAP	1 AUG 2013	SSG Richard Ray	ATZS-CDI-NS	520-538-3203
TTSP :				
QQPRI :				
BOIP :				
NETP :				
COMMENTS :				



B References

1. Aerial Intercept Surveillance & Reconnaissance Training Needs Analysis (TNA), 30 April 2007.
2. Operational Requirements Document (ORD) for the IEWTPT, 23 Jul 1998.
3. Aerial Exploitation Battalion DOTMLPF, (Draft in process).
4. GRCS Required Operational Capabilities, revised January 1993.
5. GRCS Basis of Issue Plan (BOIP) M096AA, M096AB, M096AC, M096AD, M096AE, M096AF, M096AG, M096AH, M096AI, and M096AJ. (Updated BOIP M112 versions in draft process)
6. GRCS System Training Plan (STRAP), August 2013.
7. ACS Operational Requirements Document, January 2001.
8. Distributed Common Ground Sensor-ARMY STRAP, 6 November 2013.
9. GRCS Recapitalization Plan memo to PEO, 19 December 2006.
10. DA G3/5/7 Memorandum for GR/CS FMV Requirement 17 December 2012.
11. EMARSS Capability Production Document (14 July 2014).
12. FM 2-19.2 Corps IEW Operations.
13. 35N CTL, 31 January 2014.
14. 35P CTL, 3 March 2014.
15. 35T CTL, 31 January 2014.
16. 35S CTL, 2 May 2014.
17. 352N CTL, 31 January 2014.
18. 352S CTL, 2 May 2014.
19. 353T CTL, 31 January 2014.
20. 35G CTL, 28 February 2014.
21. 115E F4 CTL, 15 October 2010.

C Coordination Annex

Organization/POC (Date)	Summary of Comments Submitted (A/S/C)			Comments Accepted/ Rejected						Rationale for Non-Acceptance - S, C
				Accepted			Rejected			
	A	S	C	A	S	C	A	S	C	
v1.2.3 Richard P Athanas 2014/09/29 - 2014/09/30	Document Accepted As Written			0	0	0	0	0	0	-
v1.2.2 Richard P Athanas 2014/09/23 - 2014/09/26	No Comments Submitted			0	0	0	0	0	0	-
v1.2.1 Approvals - James A Callahan 2014/09/23 - 2014/09/25	Document Accepted As Written			0	0	0	0	0	0	-
v1.2 Army - USASOC 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-
v1.2 Army - USAREUR 2014/07/28 - 2014/08/27	Document Accepted As Written			0	0	0	0	0	0	-
v1.2 Army - USARC G7 (US Army Reserve Cmd) 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-
v1.2 Army - USAMA 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-

v1.2 Army - USAACE - Aviation School 2014/07/28 - 2014/08/27	Document Accepted As Written			0	0	0	0	0	0	-
v1.2 Army - US Joint Forces Command Net-C2 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-
v1.2 Army - TRADOC_ARCIC 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-
v1.2 Army - TRADOC G-3/5 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-
v1.2 Army - TRADOC Command Safety Office 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-
v1.2 Army - TCM-Virtual (CS/CSS) 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-
v1.2 Army - TCM-SBCT 2014/07/28 - 2014/08/27	0	5	0	0	0	0	0	5	0	
v1.2 Army - TCM-Live 2014/07/28 - 2014/08/27	1	0	0	1	0	0	0	0	0	

v1.2 Army - TCM-Gaming 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	-
v1.2 Army - TCM-ABCT 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	-
v1.2 Army - TCM TADLP 2014/07/28 - 2014/08/27	Document Accepted As Written	0	0	0	0	0	0	-
v1.2 Army - TCM ITE 2014/07/28 - 2014/08/27	Document Accepted As Written	0	0	0	0	0	0	-
v1.2 Army - TCM Intel Sensors 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	-
v1.2 Army - TCM Constructive 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	-
v1.2 Army - TCM ATIS 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	-
v1.2 Army - Space & Missile Defense Command 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	-
v1.2 Army - CYBER	Document							

CoE - OCOS 2014/07/28 - 2014/08/27	Accepted As Written	0	0	0	0	0	0	0	-	
v1.2 Army - SCoE 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	0	-	
v1.2 Army - PM-UAS 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	0	-	
v1.2 Army - PM SCIE 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	0	-	
v1.2 Army - PM PROPHET 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	0	-	
v1.2 Army - PM Fixed Wing 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	0	-	
v1.2 Army - PM DCGS-A 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	0	-	
v1.2 Army - PM Air Warrior 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	0	-	
v1.2 Army - PEO-STRI Customer Support Group 2014/07/28 - 2014/08/27		8	3	0	7	2	0	1	1	0

v1.2 Army - PEO Missiles and Space (IAMD) 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-
v1.2 Army - PEO C3T PM TR 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-
v1.2 Army - PEO Aviation 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-
v1.2 Army - MSCoE - MANSCEN 2014/07/28 - 2014/08/27	Document Accepted As Written			0	0	0	0	0	0	-
v1.2 Army - MCoE - Infantry & Armor School 2014/07/28 - 2014/08/27	15	3	0	5	2	0	10	1	0	
v1.2 Army - MCCoE, DOT-S 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-
v1.2 Army - LD&E 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-
v1.2 Army - IMCOM 2014/07/28 - 2014/08/27	Document Accepted As Written			0	0	0	0	0	0	-
v1.2 Army - ICoE - Mil Intelligence School	No Comments			0	0	0	0	0	0	-

2014/07/28 - 2014/08/27	Submitted							
v1.2 Army - Human Resource Command (HRC) 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	-
v1.2 Army - HQDA G2 - Alternate POC 2014/07/28 - 2014/08/27	Document Accepted As Written	0	0	0	0	0	0	-
v1.2 Army - HQDA G2 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	-
v1.2 Army - HQ INSCOM G3, NWD 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	-
v1.2 Army - FCoE - Field Artillery 2014/07/28 - 2014/08/27	Document Accepted As Written	0	0	0	0	0	0	-
v1.2 Army - DAMO-TRS 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	-
v1.2 Army - CYBER CoE - Signal School 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	-
v1.2 Army - CTCD 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	-

v1.2 Army - Combined Arms Center 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-
v1.2 Army - CAC-T; Training Management Dir 2014/07/28 - 2014/08/27	3	5	0	1	3	0	2	2	0	
v1.2 Army - Brigade Modernization Cmd (BMC) 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-
v1.2 Army - AVNCoE Aviation Logistics School 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-
v1.2 Army - ATSC TSAID 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-
v1.2 Army - ATSC Fielded Devices 2014/07/28 - 2014/08/27	No Comments Submitted			0	0	0	0	0	0	-
v1.2 Army - ARNG-RMQ-RA 2014/07/28 - 2014/08/27	Document Accepted As Written			0	0	0	0	0	0	-
v1.2 Army - Army National Guard 2014/07/28 -	No Comments Submitted			0	0	0	0	0	0	-

2014/08/27										
v1.2 Army - Army Material Command (AMC), G3 2014/07/28 - 2014/08/27	No Comments Submitted	0	0	0	0	0	0	0	0	-
v1.2 Army - AMEDD Center & School 2014/07/28 - 2014/08/27	Document Accepted As Written	0	0	0	0	0	0	0	0	-
v1.1 Peer - USAACE - Aviation School 2014/04/25 - 2014/05/09	Document Accepted As Written	0	0	0	0	0	0	0	0	-
v1.1 Peer - CYBER CoE - Signal School 2014/04/25 - 2014/05/09	No Comments Submitted	0	0	0	0	0	0	0	0	-
v1.1 Peer - CYBER CoE - OCOS 2014/04/25 - 2014/05/09	No Comments Submitted	0	0	0	0	0	0	0	0	-
v1.1 Peer - PM ARES 2014/04/25 - 2014/05/09	No Comments Submitted	0	0	0	0	0	0	0	0	-
v1.1 Peer - MSCoE - MANSCEN 2014/04/25 - 2014/05/09	Document Accepted As Written	0	0	0	0	0	0	0	0	-
v1.1 Peer - MCoE - Infantry & Armor		3	0	0	3	0	0	0	0	0

Intelligence Bde 2014/04/25 - 2014/05/09	No Comments Submitted	0	0	0	0	0	0	-
v1.1 Peer - 3D MI BN (AE) 2014/04/25 - 2014/05/09	No Comments Submitted	0	0	0	0	0	0	-
v1.1 Peer - 224th MI BN (AE) 2014/04/25 - 2014/05/09	No Comments Submitted	0	0	0	0	0	0	-
v1.1 Peer - 1st MI BN (AE) 2014/04/25 - 2014/05/09	No Comments Submitted	0	0	0	0	0	0	-
v1.1 Peer - 15th MI BN (AE) 2014/04/25 - 2014/05/09	No Comments Submitted	0	0	0	0	0	0	-

Key
Completed Review with Comments
Completed Review, No Comments
Active Review Occurring



DEPARTMENT OF THE ARMY
UNITED STATES ARMY INTELLIGENCE CENTER OF EXCELLENCE
1903 HATFIELD STREET
FORT HUACHUCA, ARIZONA 85613-7000

ATZS-DCT

17 September 2014

MEMORANDUM FOR Director, New Systems Training and Integration Directorate
(ATZS-CDI-N), 550 Cibique Street, Ft. Huachuca, AZ 85613-7017

SUBJECT: Approval of System Training Plan (STRAP) for the Guardrail Common
Sensor (GRCS)

1. The GRCS STRAP is approved. Approved STRAP will be posted to the Central Army Registry (CAR) website: www.adtdl.army.mil.
2. Point of contact for this STRAP is Mr. Stephen McFarland, NSTID STRAP Manager (520) 533-5387 (DSN 821), stephen.j.mcfarland.civ@mail.mil.


LISA K. PRICE
COL, MI
Deputy Commander, Training