

Aerial Common Sensor Agenda



- Purpose
 - System Description/Deployment
 - Subsystem Capabilities
 - Modernization Plan
 - Summary

SIBBE

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Aerial Common Sensor

ARL Purpose







Aerial Common Sensor

ARL-M System Description





ARL is a Theater/Joint Land Force Airborne SIGINT/IMINT System Capable of Providing Near Real-Time Indications/ Warnings, Targeting and Support to OOTW/Force Projection Operations

Soment kaune: Airborne Reconnait cante Loss

Mission Equipment

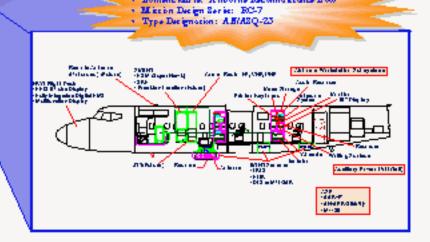
- COMINT
 - Super Hawk COMINT/DF
 - SRE
 - Precision Targeting (FY01)

IMINT

- FLIR
- IR Line Scanner
- Daylight Camera
- MTI/SAR Radar

Reporting

- LST-5 SAT COM/LOS
- ARC-210
- JTT-3 (FY99)

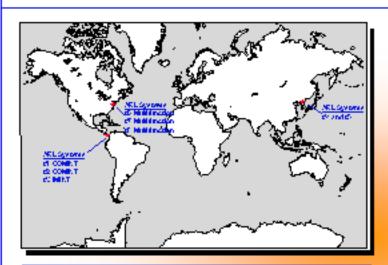




Aerial Common Sensor



ARL Units Worldwide



Total CINC Requirement

- USARPAC Requirement = 6 ARL With MTI/SAR (Working Document)
- US SOUTHCOM Requirement = 9 ARL-M
- EUCOM

Current Program

- C1, C2 COMINT Only, SOUTHCOM
- I-IMINT Only, SOUTHCOM and EUC OM Occasionally
- M1, M2 IMINT (incl. WAMTI/SAR)
 COMINT Capable Korea
- M3 Full Multi Function Korea (Oct 97)
- M4, M5 Full Multi-Function (JSAF COMINT) (FY99)
- Approved Upgrades
 - JSAF SIGINT (6 Systems) (FY01 - 03)
 - CTT/H3 (FY99)

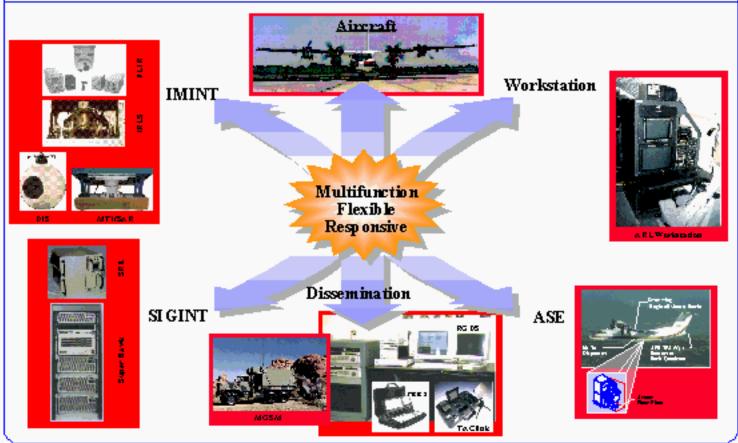
Current Plan Does Not Meet CINC Demand



Aerial Common Sensor

ARL-M Subsystems





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Aerial Common Sensor

ARL-M Capabilities











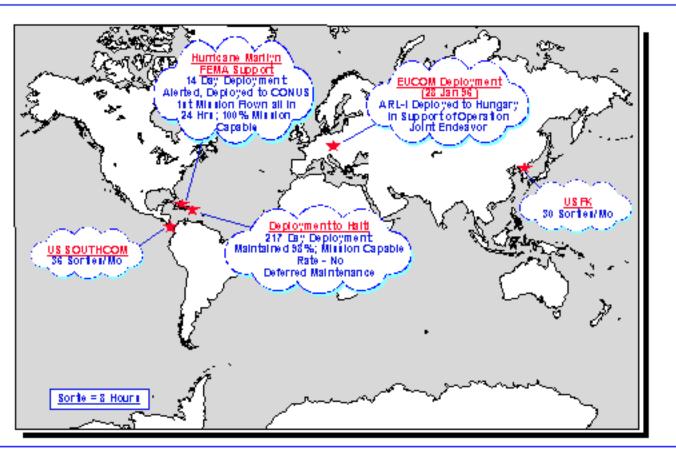
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ARL Deployments/OPS Tempo





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Aerial Common Sensor



- CINC SOUTH Message 29 Jan 93: "... ARL ... Collects, Processes, and Disseminates COMINT and IMINT in Real Time to Ground Deployed Units ..." "... One of it's Real Values ... Unlike Other Collection Platforms, Host National Observers are Allowed on board Without Restriction. The Systems are Exceeding Original Expectations ..." "... I am Looking Forward to Having (ARL) in Theater ... This Timely and Badly Needed Capability ..."
- CG, 18th Abn Corps Message 01 Sep 94: "... (ARL) is Ideally Suited to Enhance ... Force Projection ... of the XVIII Abn Corps" "... Capable of Supporting Forced Entry and Follow on Combat Operations ..." "... ARL is One of the Most Impressive Collection systems ..." "... Recommend This System be Reviewed to Enhance the Intelligence Acquisition Capability of Other Units Throughout the Army ..."
- USFK J2 8 Oct 96: "Our Bottom Line is That ARL-M has Added Tremendous I&W Capability to This Command".
- GEN Barry McCaffrey Ret. 28 Aug 96: "ARL is a Miracle Asset With Tremendous Capability".

154 GR 15 IV



Aerial Common Sensor



- ARL
 - Operational MTI Capability in Less Than 9 Months
 - Integration of Multi-INT Payloads on a Single Small Self Contained Platform
 - Extensive Leverage of Commercial Technology to Rapidly Meet Tactical Operational Requirements



Aerial Common Sensor







- CDL
- JSAF
- Interop erability
 CHALS-X Capability
- JTT-3

Today



- Connectivity
- Sensor Upgrades
 Interoperability
- Processors
- Modular/Scaleable
- Common Software

ACS Prototype













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EAC

Downsized

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Aerial Common Sensor Summary



- ARL (System 4,5) Fielded to USFK in Less than 9 Months
- ARL is a Model for Streamlined Acquisition
- ARL Provides the Joint Land Force Commander With Near Real-Time, Multi-Intelligence for C2I