Marine Aircraft Group – Tactically Aligned Tactical Data Network

MARCORSYSCOM
2 MAR 2004
Prepared by Aviation Logistics Support
NCSS networks currently provide basic network services for MAG supported squadrons (DHCP, WINS, DNS).

MALSS AISD Marines maintain and repair IMA/OMA network hardware, servers and client systems.

Each MAG squadron has it’s own NT Domain and Unix servers.

MCEN provides Enterprise level network services (Firewall, Proxy, Exchange, DMS, Tier 2 DNS).

Domain Trusts currently exists between MALSS and MAG/MCEN to provide single point authentication.
NCSS Legacy Configuration
NCSS MAG-TA Configuration

- Minor changes to current support and operations.
- MAG-TA networks will provide additional network services for MAG supported squadrons (Proxy, Firewall, Exchange, DMS, WINS, Tier 3 DNS, DHCP).
- MALS AISD Marines will continue to maintain and repair IMA/OMA network hardware, servers and client systems.
- Each squadron will continue to operate it’s own NCSS Domain and Unix servers.
- Single point of entry to MCEN COI.
- MAG-TA will be a trusted legacy network.
MAG-TA Configuration
MAG-TA MEU Deployed

- ACE IT integration procedures will be mostly unchanged.
- MEU will provide required network services for the composite squadron (Proxy, Firewall, Exchange, DMS, WINS, Tier 3 DNS, DHCP).
- MALS AISD Marines will provide support for squadron unit data/email migration.
- Composite squadron will operate its own NCSS Domain while deployed.
MAG-TA MEU Deployed
MAG-TA Fixed Wing
CAG/CVN Deployed

- Fixed Wing squadron integration into ISNS will remain mostly unchanged.
- CAG/CVN will provide required network services for the squadron (Proxy, Firewall, DMS, WINS, Tier 3 DNS, DHCP).
- MALS AISD Marines will assist in the establishment of the squadron email domain and provide support for migration of unit data.
- Squadron will operate its own NCSS Domain while deployed.
CAG/CVN Deployed

**CAG/CVN**

Legend:
- NT Domain
- Two way Trust
- NCSS Applications

Operational and System View
MAG-TA MEB Deployed

- Deployed LAN Kit (DLK) will comprise network infrastructure for deploying ACE.
- MAG FWD will provide required network services for the supported squadrons (Proxy, Firewall, Exchange, DMS, WINS, Tier 3 DNS, DHCP).
- MALS AISD Marines will migrate and maintain MAG FWD and squadron unit data and email.
- MEB G-6 will provide data connectivity back to MCEN COI.
MAG-TA MEB Deployed
MAG-TA MEF Deployed

- Multiple Deployed LAN Kits (DLKs) will comprise network infrastructure for deploying ACE.
- MAGs FWD will provide required network services for the supported squadrons (Proxy, Firewall, Exchange, DMS, WINS, Tier 3 DNS, DHCP).
- MALS AISD Marines will migrate and maintain MAG FWD and squadron unit data and email.
- MEF G-6 will provide data connectivity back to MCEN COI.
MAG-TA MEF Deployed
Conclusion

- MAG-TA design is based on current Concepts of Employment and supports established CONOPS.
- Future changes to the MAG-TA domain model will be in collaboration with MCEN developers.
- MAG-TA elements can easily transition into the ISNS networks because of common architecture.
- MAG-TA allows for sustained proficiency of critical skills (Train as You Fight Concept).