



Military Satellite Communications

***Delivering Capability Today,
Architecting for Tomorrow***

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Chief, Protected SATCOM Division



Military Satellite Communications Systems Directorate

Mission:

Plan for, acquire and sustain space-enabled, global communications capabilities to support National Objectives.



David Madden, SES

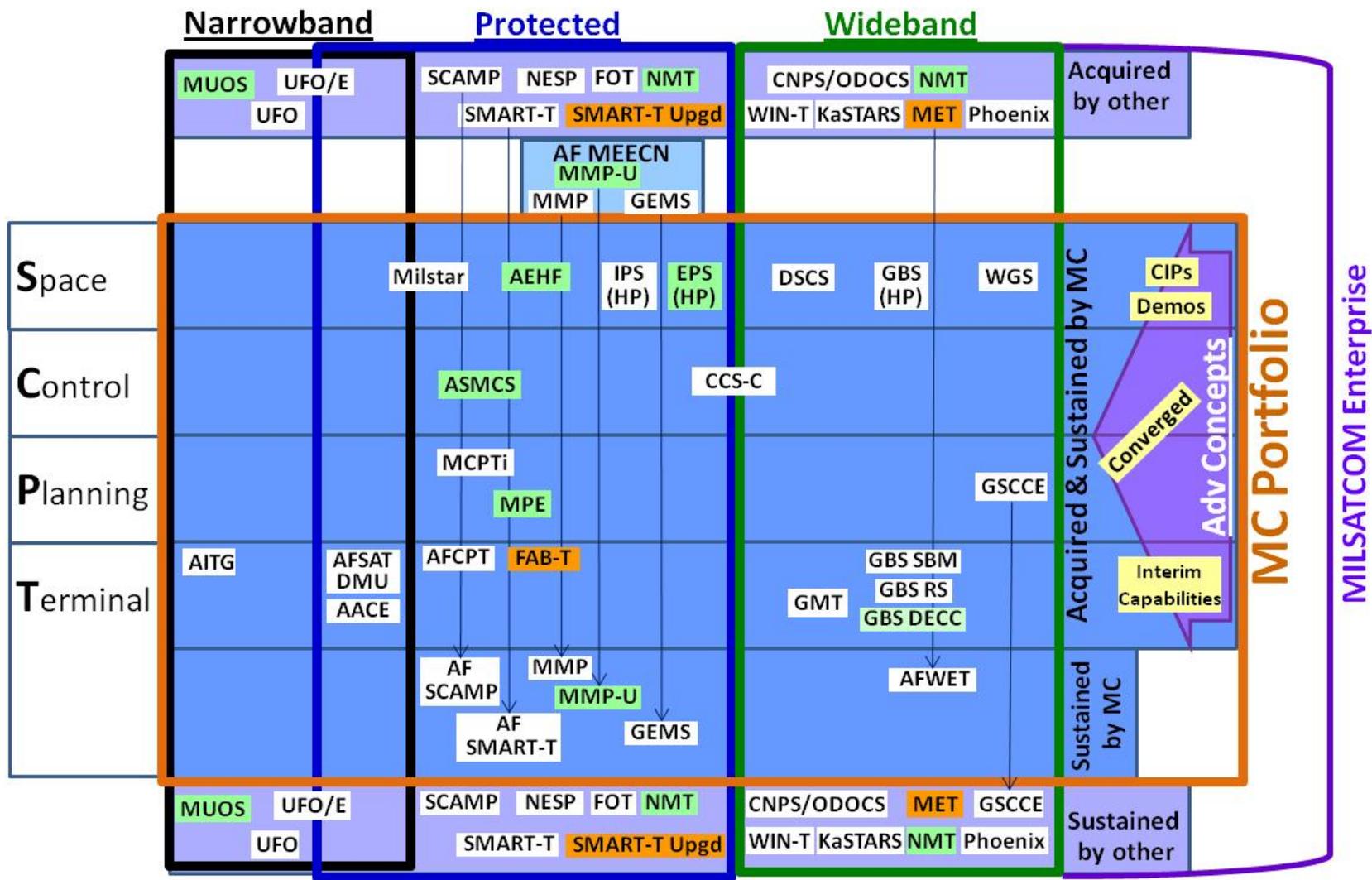


Protected	Milstar	AEHF	EPS/IPS (Hosted)	CCS-C
Wideband	DSCS	WGS	GBS (Hosted)	CCS-C
Terminals	GBS	AIT	GMT & HDR-RF	FAB-T
Advanced Concepts	Advanced Concepts			

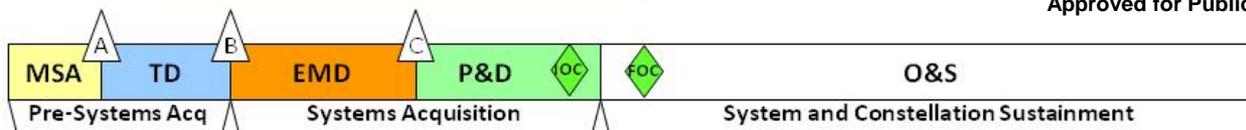
Providing Critical Communications Capability for National / Joint Force Operations



MILSATCOM Enterprise



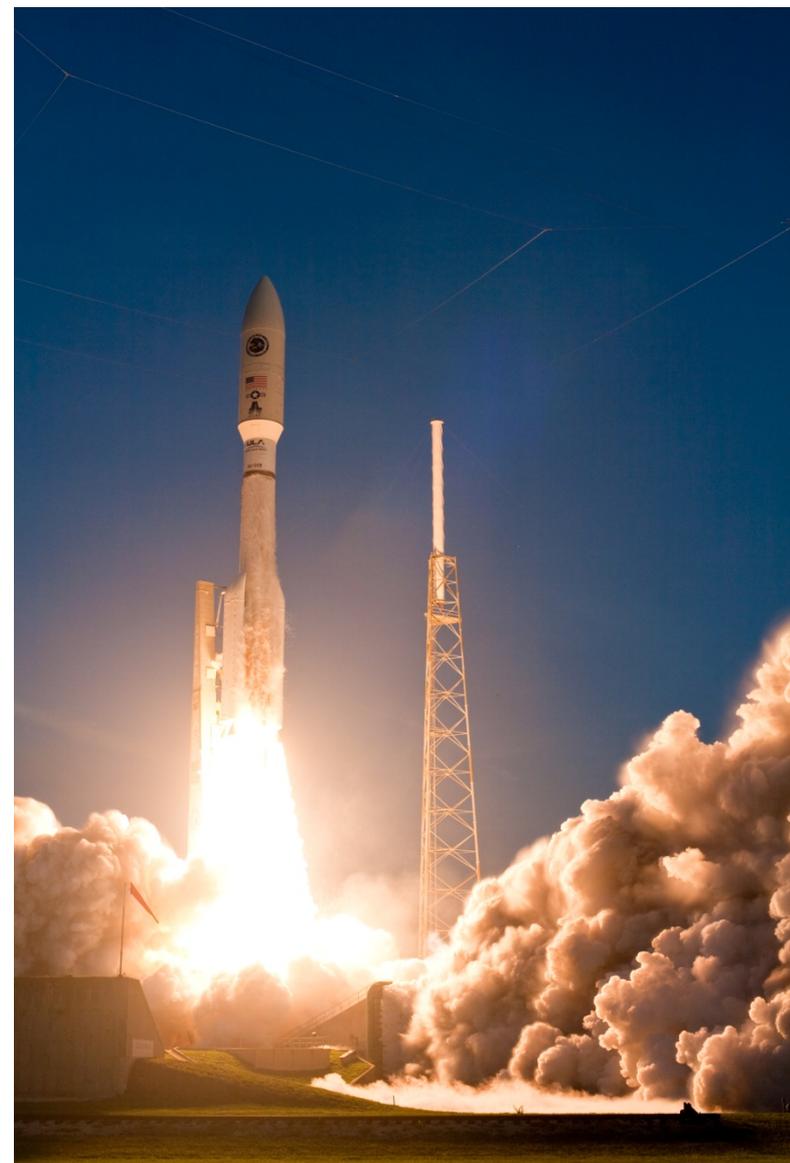
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AEHF-1 Recovery

- **Picture-Perfect Launch on 14 Aug 10 → SMC/LR, 45SW and United Launch Alliance**
- **15 Aug 10 – Liquid Apogee Engine (LAE) Burn Aborted After ~9 Seconds**
- **17 Aug 10 – LAE Test Burn Aborted After ~2 Seconds**
- **Conclusion: Anomaly With Propulsion Subsystem**

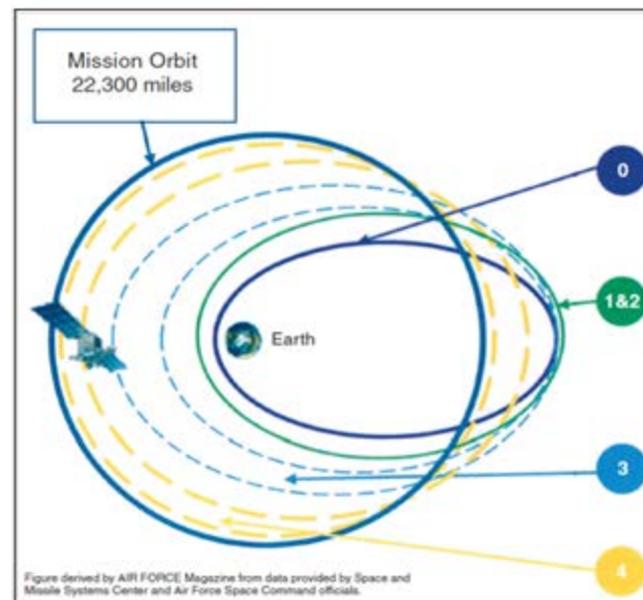
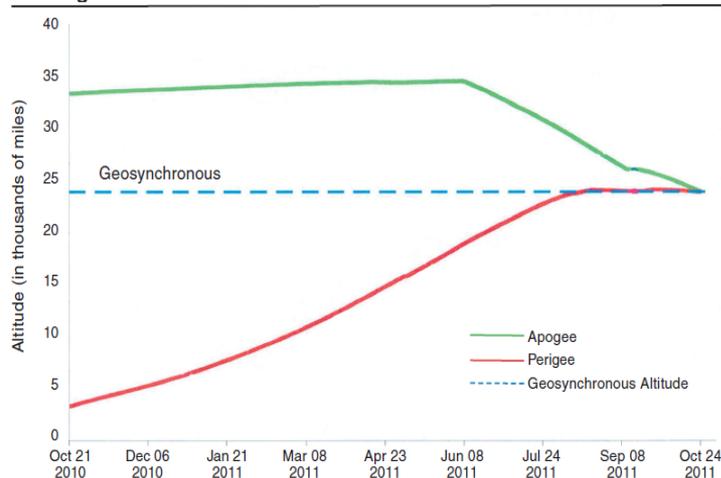




Phases of the AEHF's Recovery

Phase	Operation	Perigee	Apogee	Completed
0	Space injection	140 mi	31,000 mi	Aug. 14, 2010
1 & 2	REA burns	3,000 mi	31,000 mi	Sept. 22, 2010
3	HCT burns 1	17,000 mi	32,000 mi	June 2, 2011
4	HCT burns 2	22,300 mi	22,300 mi	Oct. 24, 2011

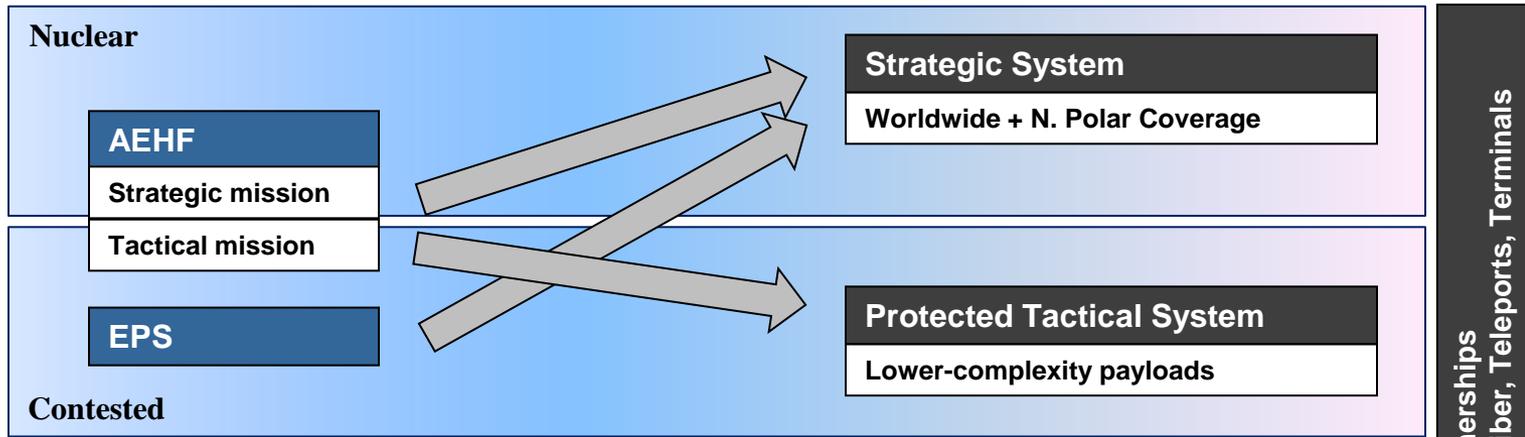
Closing In on Final Orbit



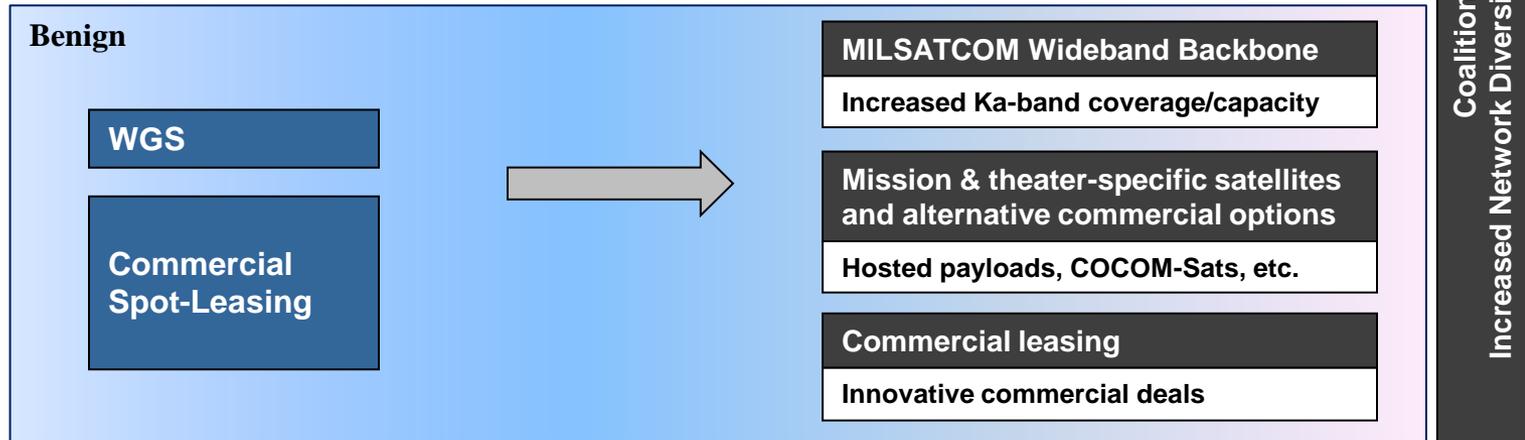


Long-Term Disaggregated Architecture

- Split strategic and protected tactical missions



- Diversify wideband options



Transition strategy with near-term investment achieves long-term architecture



Enabling Warfighting Capabilities

- **Robust, Connected Command and Control**
- **Universal Situation Awareness**
- **Increased Tempo of Operations**
- **UAV Sensor Collection/Dissemination**
- **Mobile Communications**



SATCOM Remains Essential to the Warfighter