

**GENERAL DYNAMICS**  
Mission Systems



Dr Tim Wilkinson

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**Fortress® LTE over Satellite**

# C4ISR Technologies

Satellite, radio and broadband communications solutions, and imaging technologies and products



**SATCOM Technologies**



**Radio Communications**



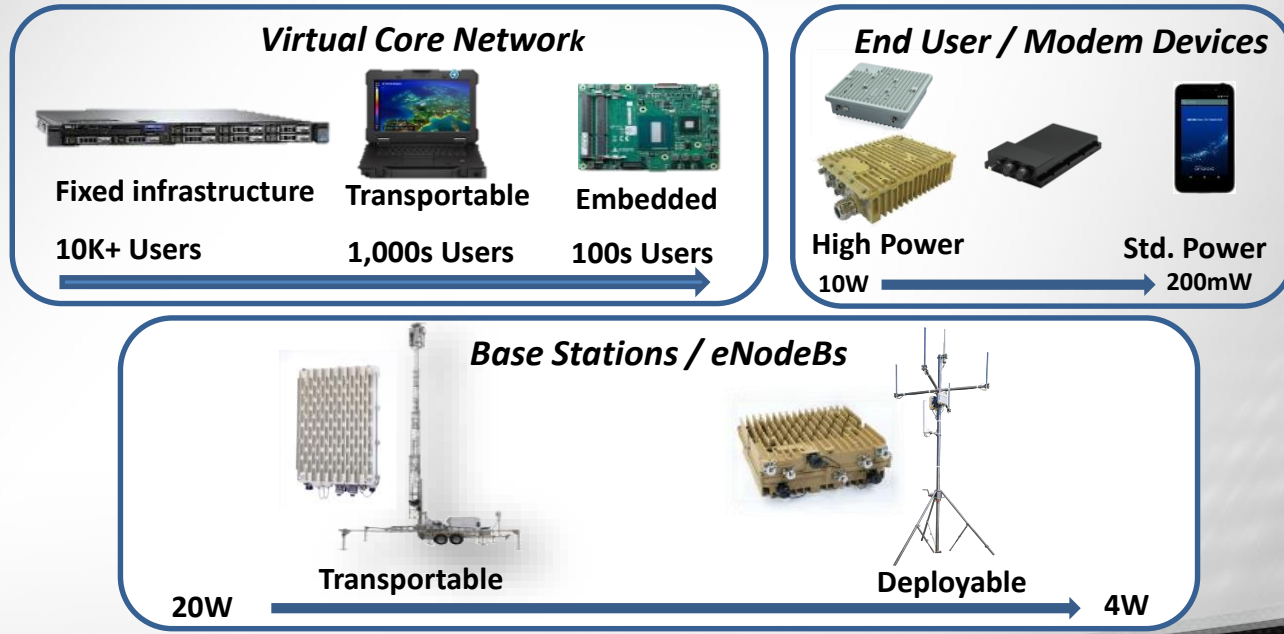
**Fortress LTE and Mesh**



**Imaging Technologies**

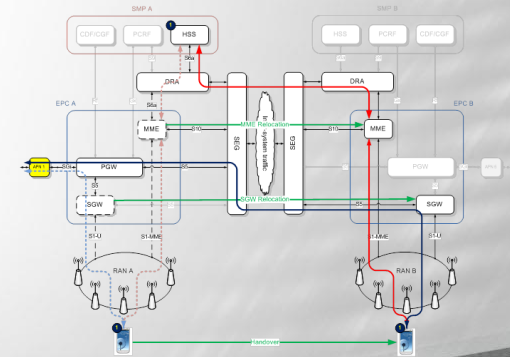
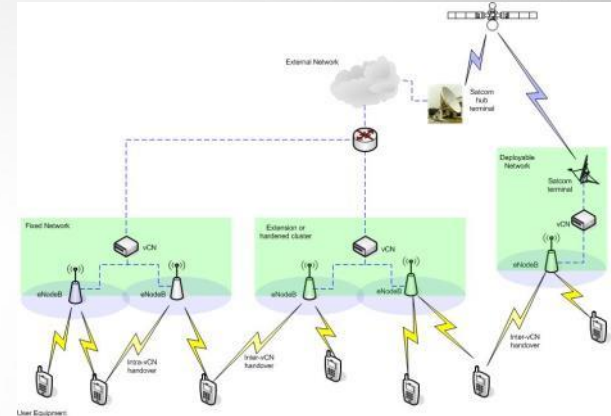
# Fortress Wireless – LTE and Mesh

- GD is the OEM of an end-to-end LTE and Mesh solution
  - optimised for rapid deployment in austere environments



# GDMS Virtualized Core Network Enables Efficient Use of Satellite Backhaul

- GD VCN enables core network and associated functionality to be pushed out to the edges of the network
- Creates a fully distributed resilient network architecture
- Minimizes traffic over inter-VCN links and allows for connection of remote systems by constrained links
- Signaling for authentication or handover can be supported over very constrained links
- Traffic only significantly increases with roaming users and/or end-to-end communication
- Complementary with Satcom backhaul especially that supporting mesh architectures
- Improves the business case of LTE backhaul over Satellite by reducing backhaul traffic and lowering bandwidth costs



# Rapidly Deployable LTE Wireless & SATCOM Connectivity

## *GD Fortress® LTE Wireless Deployable Kits & GD SATCOM Deployable Terminals*

- ✓ Rapidly Deployable LTE Network Provides Coverage up to ~10km
- ✓ SATCOM Quick Deploy Automated Antenna Terminals Provide Portable Backhaul Where Terrestrial Communications Don't Exist
- ✓ Solution Enables Broadband for Smartphones, Laptops and Other Mobile Devices/Sensors
- ✓ Easy Transportable Rapidly Deployable, Anywhere, Anytime
- ✓ Ruggedized for Harsh & Remote Tactical Environments

