



Emergency Communications Network (ECN) – Mobile Next Generation

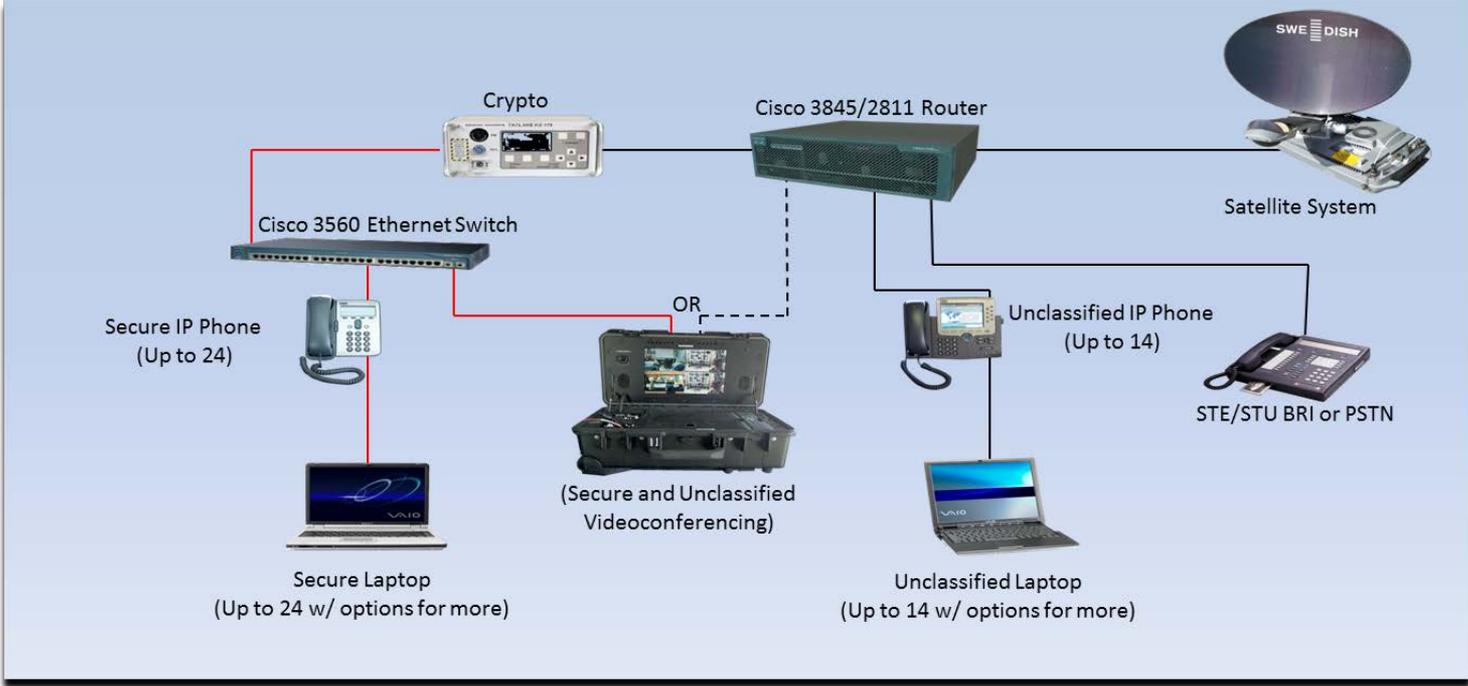
Communications Capabilities

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Current ECN Communications Kit



- Weight: Approximately 490 lbs.

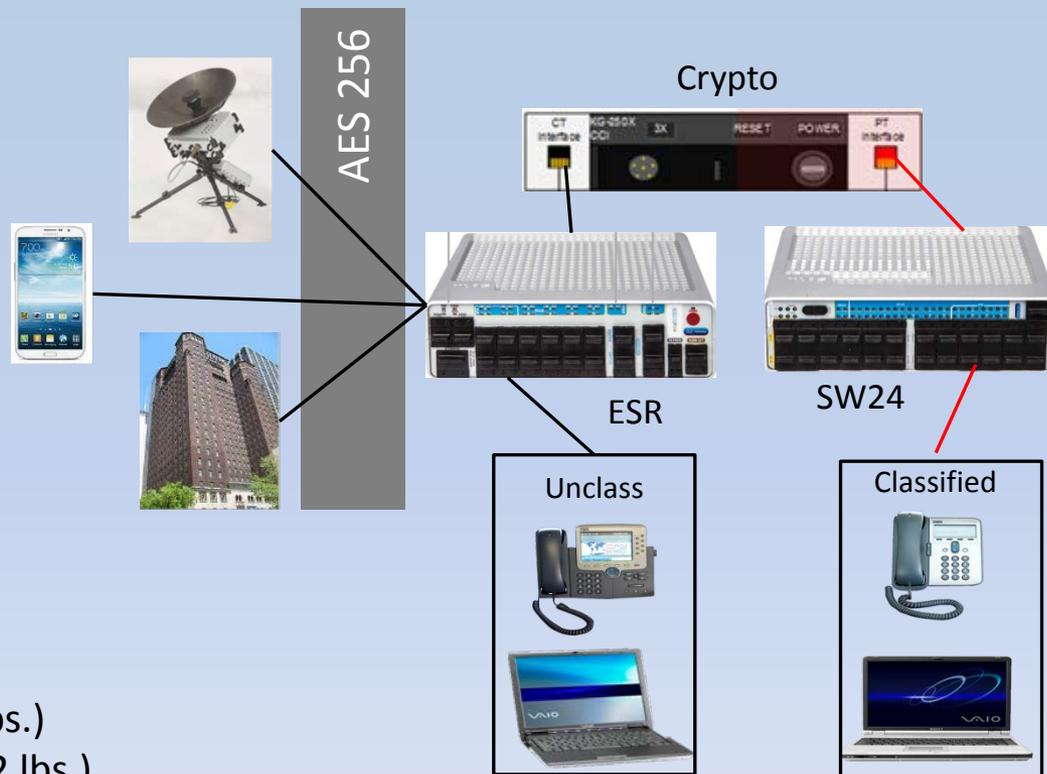


Box No.	Pallet Contents	Mission	L	W	H	Cube	Weight
COMMS MECN RSP9 SWEDISH	RSP9 Satellite & Modem, Power Supply	Comms	33.30	24.40	19.30	9.08	150.00
COMMS MECN RSP9 ROUTER	RSP9 Black Routers	Comms	37.50	13.50	22.25	6.52	90.00
COMMS MECN RSP9 SWITCH	RSP9 Red Switches	Comms	37.50	13.50	22.25	6.52	85.00
COMMS MECN RSP9 SUPPORT KIT	RSP9 Laptops, IP Phones, Cables, Ext. Cords	Comms	31.30	20.40	12.20	4.51	85.00
COMMS MECN RSP9 FIBER KIT	RSP9 Fiber Optics Cable Reel	Comms	22.50	22.43	21.25	6.21	80.00
TOTAL						32.83	490.00

ECN Kit provides satellite connectivity **only** and does so via leased dedicated satellite bandwidth.



Next Gen Core



Next Gen Core consists of:

- (1) KLAS ESR – (3.7 lbs.)
- (1) KLAS SW14 – (3 lbs.)
- Tampa Satellite Terminal (app. 30 lbs.)
- (2) Laptops & (2) IP Phones (app. 12 lbs.)
- Approximate total weight : 48.7 lbs. excluding Pelican cases

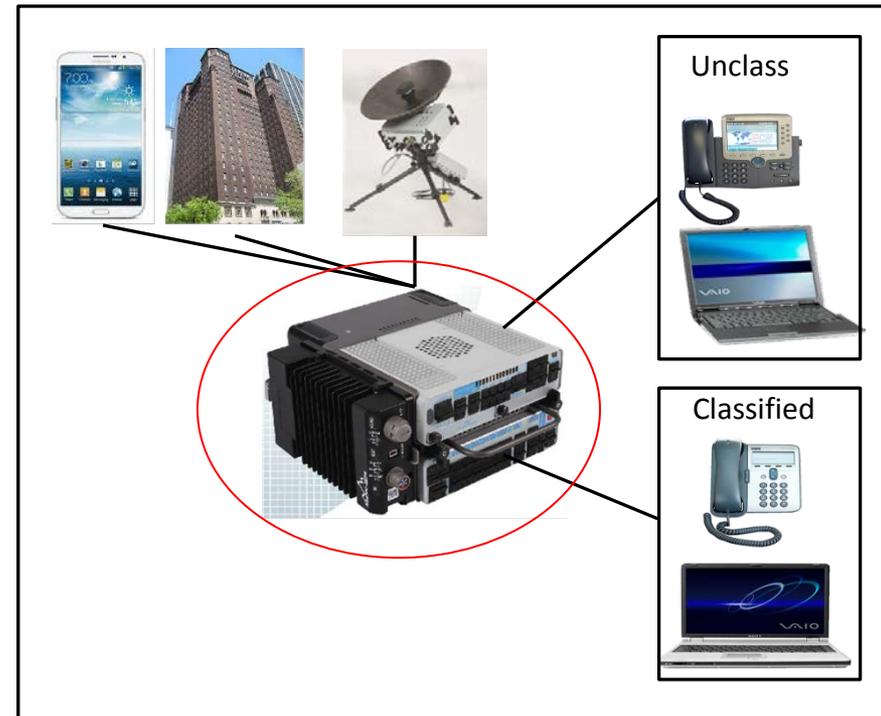
Note: Because Next Gen has **multiple connection options**: • cellular data networks • open internet & • Tampa Satellite Terminal, there may not be a need for a Satellite Terminal for each kit.



Next Gen - TEMPEST

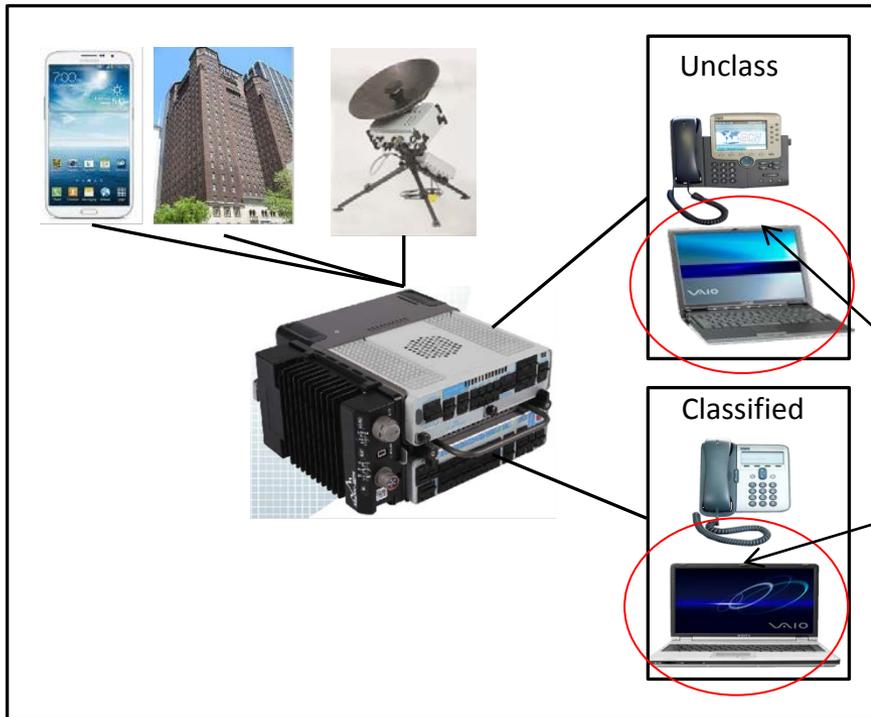
Next Gen Core with compact packaging :

- Note- Crypto packaged tightly with KLAS gear
- Awaiting tempest approval for this configuration
- Once tempest approved:
 - Overall packaging becomes more efficient
 - Portability increases
 - Gear becomes easier to deploy as it occupies less space in space-constrained areas



Timeframe to deploy dependency on DOE Tempest Administration- however kit can still deploy by maintaining proper tempest equipment distances

Next Gen - Video Capabilities



- Adding video capabilities provides field personnel the ability to share imagery and visual situational awareness data in real time
- The Acano client also allows for multiple individual or group instant messaging instances
- The Acano client also allows for users to move between portable devices (tablets, phones) to laptops, desktops and room systems in real time without loss of conversation
- The ability to switch between local and remote cameras in the field
- USB Video Camera
- Acano Client
- One license for Acano Client – we currently own 150 licenses through our Acano server acquisition

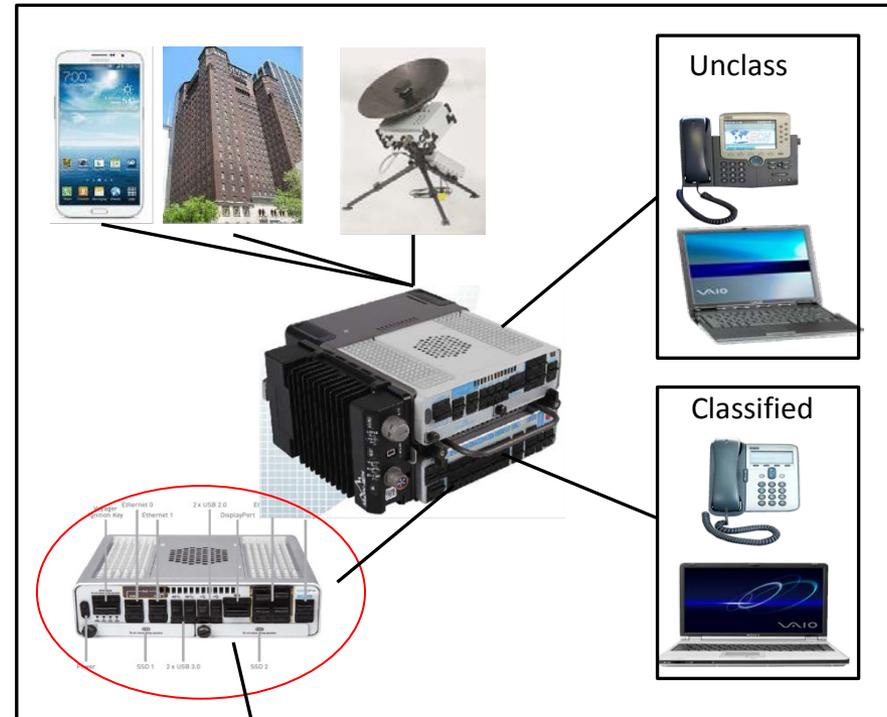
Estimated time to deploy (technical): 120 days



Next Gen– Virtual Management

- IQCore will allow Log/Comm field personnel to better manage the Next Gen environment without increasing security risks to the ECN:
 - Should problems arise, remote administrators working with field personnel will be able to troubleshoot and correct any comms issues in an efficient & effective manner
- Acceleration allows for more efficient uses of leased bandwidth:
 - Acceleration allows for more data to pass through an existing link without increasing monthly bandwidth fees

Estimated time to deploy (technical) : • 180 days (Acceleration), • 90 days (IQCore)



- Virtual Server running **Acceleration Software IQCore**

Enhancements to Next Gen dependent upon continued FY16/FY17 funding



Next Gen– Soft Phones, Cell Services



- **Soft Phones** – VOIP software resides on laptop, accessed via USB headset
 - Less weight when deploying
 - Eliminates costs of physical VOIP phones
- **Mini-Cell Tower** – Cellular component adds on to KLAS infrastructure and in effect creates a cellular provider for responders in the immediate areas.
 - Cellular phones can be quickly & securely reprogrammed to use the ECN cellular system
 - ECN cellular system would be exceptionally helpful in areas where the cellular infrastructure is destroyed, overwhelmed or does not exist

Estimated time to deploy (technical):

- Soft phones – Architect FY16, deploy late FY16 into FY17
- Mini Cell Tower: 120 days

Enhancements to Next Gen dependent upon continued FY16/FY17 funding



End