

# **Secure VoIP to Analog and Digital Data, Extra-Vehicular (SEVAN-DX) 70-X**

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**Patent Application # 12/571,315**

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# Technology Description



- **What is it:**
  - An innovative means to take multiple and various voice and data transmissions, bring them together to go out/in via a single communication gear.
- **How is it made:**
  - Existing hardware integrated in a novel manner.

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# Technology Description

- **Where is it found currently:**
  - USMC's Advanced Man-Portable Air Defense System (A-MANPADS) Fire Units



- **Status:**
  - Fielding now with Marines Air Defense Units

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# Technology Description



- **Why did we make it:**

- Reduce the amount of communication gear that a Marine has to carry; 2 radios and a laptop are replaced by a single laptop (could be a PDA)

- **Specifically:**

- Crypto-Secured Data from Section Leader via PRC-117G Radio Network to Extra-Vehicular Remote Computing Unit (RCU).
- Wireless Crypto-Secured Data transmission from vehicle to RCU.
- Voice communications from RCU user to open SINCGAR network via analog vehicle intercom system.
- Extra-vehicular user can only carry RCU and headset.

- **Status:**

- **Fielding now with Marines Air Defense Units**

# Technology Description

- **What are its capabilities:**

- **Network Connection Input**

- Can be PCMCIA Slot to work with SECNET-11, Talon, Wireless Networking Cards (any std)
- RJ-45 connection for Ethernet
- USB
- Any other standard connector used for data transmission
- Can have built in module such as Blue Tooth, Wi-Fi, Wi-Max, etc.

- **Audio Connection**

- 5 pin military
- RCA
- Mini-Stereo
- Any number of standard connectors

- **VoIP Module**

- Interacts with Standard VoIP Protocol
- Would include customizable software for the device linked to this one.

- **Data Output**

- RJ-45
- Serial
- Any other standard connector used for data transmission
- IP addressed separately from the VoIP Module

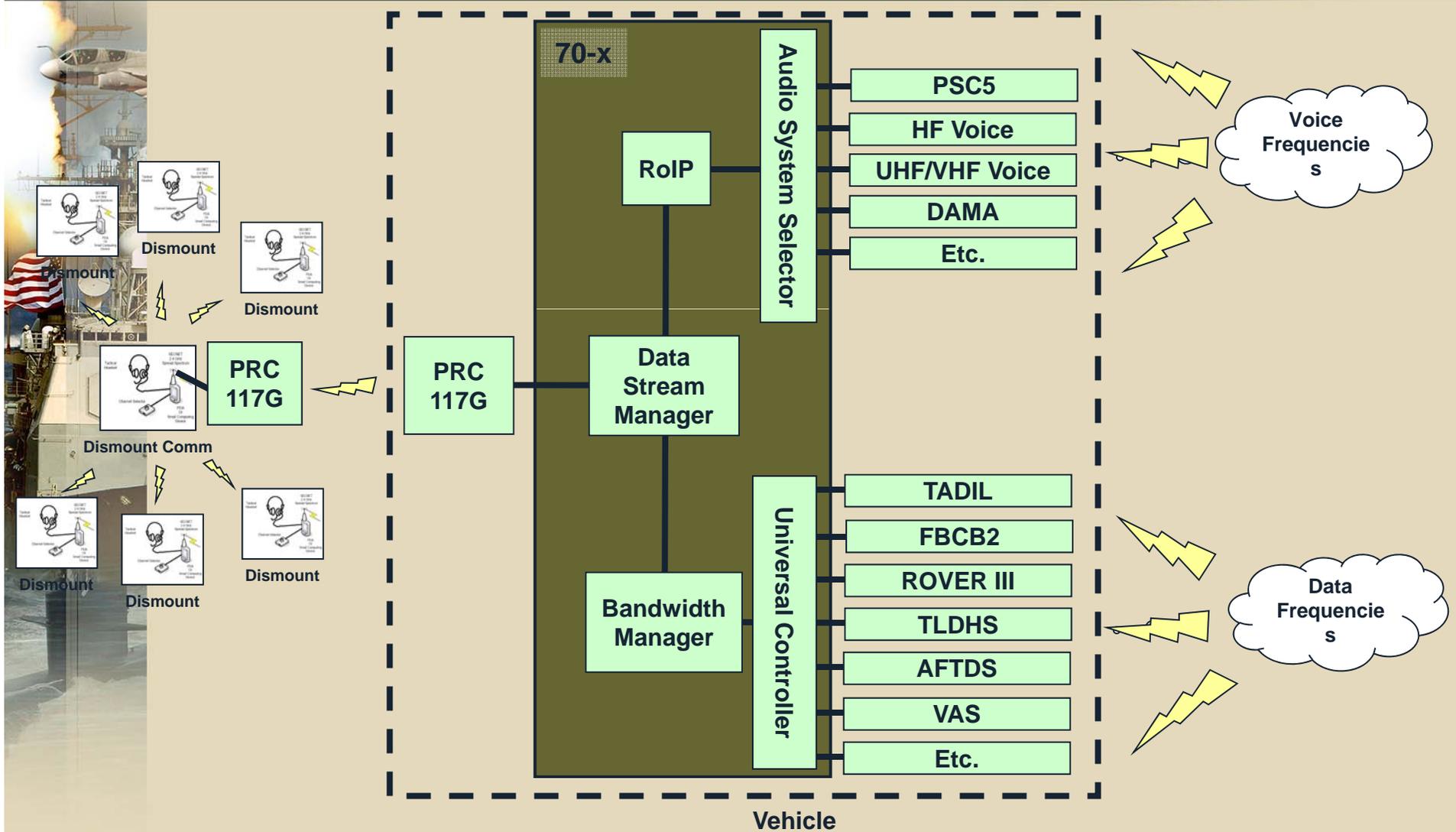
- **Ruggedized Environmentally Sealed and 810-F Tested enclosure**

- **Would be designed to accept and operate on voltage from most worldwide standards**

- 9v to 40v DC
- 100v to 240v AC

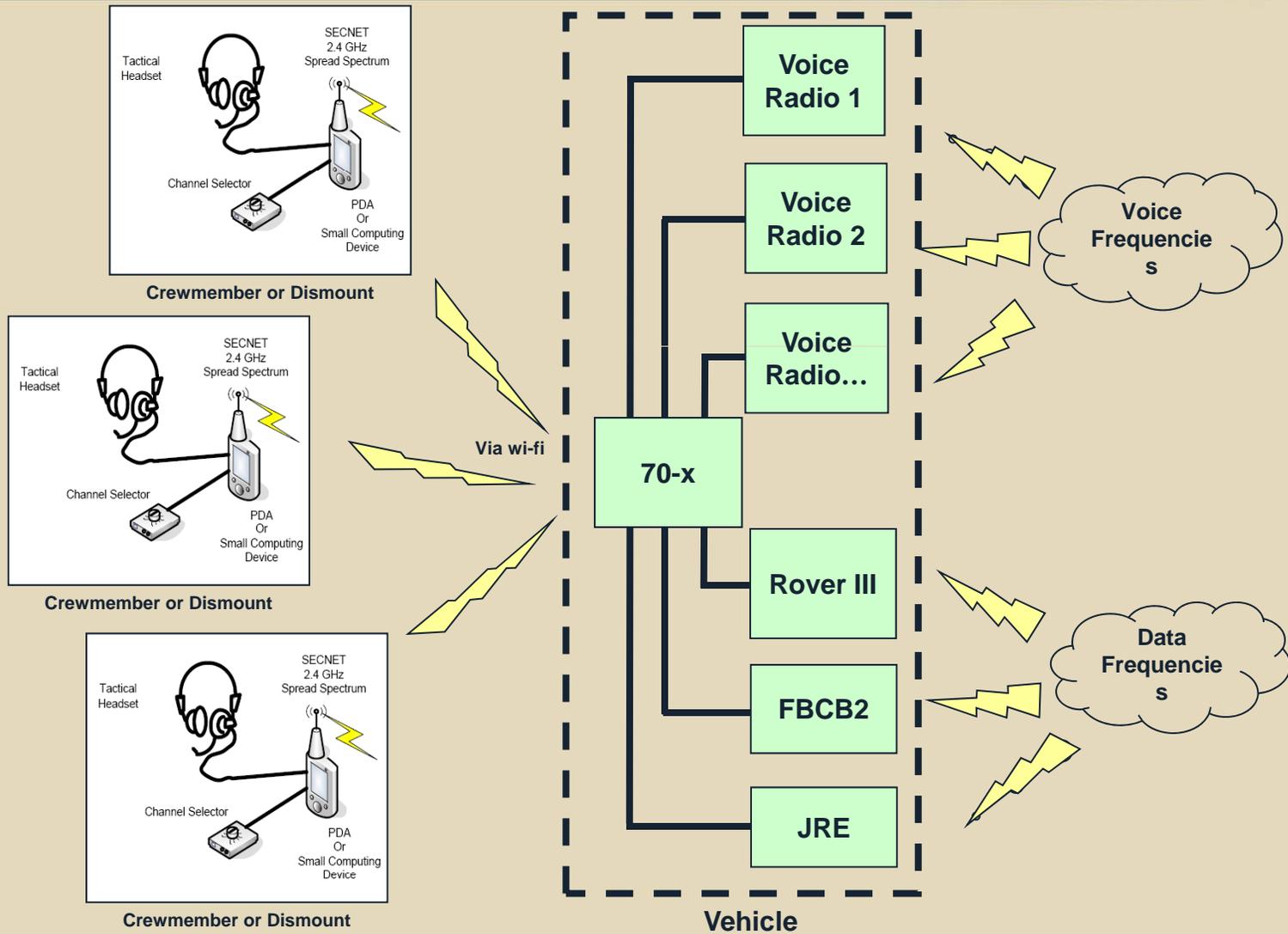
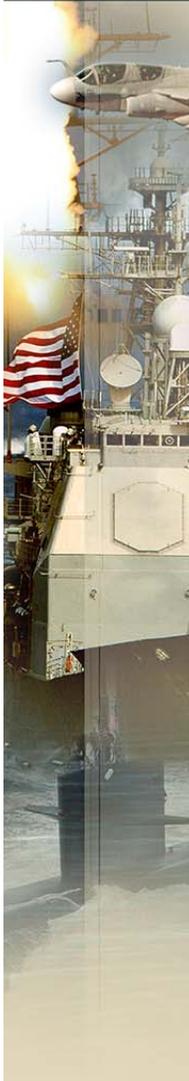
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# How does it work?



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# Close Range Layout



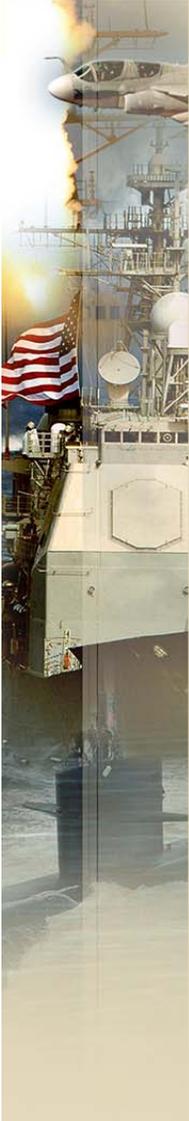
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# Commercial Applications

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- **Who would use it?**
    - Law Enforcement
    - Foreign Military Sales
    - Security Companies
    - Organizations who have a crew that need communication and data away from their vehicle.
  - **Why would they want it?**
    - This device reduces the amount of equipment that the user has to carry.
    - Ability for users to move away from their vehicle or base of operations with voice and data contact with multiple incompatible and disparate networks and data sources.

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# COMMERCIAL APPLICATIONS

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- **How would it be used?**
    - Emergency situations where multiple organizations need to combine voice and data onto a single device for the user to monitor all of the sources.
  - **Other Resources:**
    - Foresight Market Overview (May 2010) available

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