

## Industry Application - Critical Infrastructure



In times of emergency, whether manmade or natural, a voice or data message can be critical in preventing or responding to a disaster, especially when the situation affects our power, transportation, medical, water and waste management services.

The world is ever more reliant on our aging communications infrastructure and in the event of a failed causeway, pump or data system the availability of voice or data communication system could be the difference between containment or catastrophe. Given that our critical infrastructure facilities rely more than ever on over stretched communications systems, it is critical that we design our communications systems with infrastructure independent capabilities, in the event the unthinkable happens.

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Whether our communications rely upon microwave, LTE, or fiber optics a fire, earth quake or black out can shut down our ability to respond. Barrett Communications turn-key systems are rugged and versatile offering integrated high frequency (HF) and very high frequency (VHF) systems. Barrett Communications radios and systems are field proven in over 150 countries around the globe and can be easily configured to meet the customers' exact operational requirements. Barrett offers fully self-contained battery and solar powered deploy able HF and VHF systems.

Our ability to monitor and control critical infrastructure in today's ever changing global climate is essential. From infrastructure system failures to natural or manmade

disasters, the need for secure, infrastructure independent and reliable communications in these events will significantly affect the final impact the event has on our communities and country. Barrett designs and manufactures communications systems which operate in the most remote and austere environments.

The challenges of managing facilities may be the remote nature of the facility or availability of reliable communications. Our products offer secure, reliable and infrastructure free communications, with the inbuilt ability to interoperate with terrestrial networks and the customers' existing systems and infrastructure.



*Barrett critical infrastructure communications system.*

Barrett Communications systems and accessories offer a complete solution for extending voice and data communications from virtually any location over short to medium and long haul distances back to any critical location.

Barrett's experts in systems and communications planning will custom design networks and solutions which meet your critical infrastructure system requirements. Each requirement is unique, and we understand this, which is why we take the time to understand your requirements and design our systems to meet all of our client's requirements. Systems can meet those requirements through integration of COTS equipment and specialized hardware.

Beyond the range where typical line of sight VHF and UHF systems fail; and where alternative satellite communications (SATCOM) or terrestrial solutions are unavailable, Barrett digital voice and high speed data solutions have a proven track record in delivering dependable email, fax, data and telephony (including mobile) communications.

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Whether it's noise resistant remote control over serial, IP, fibre optic or other mediums, Barrett systems are ideal to meet the most complex installation requirements.

Barrett platforms, when paired with the Barrett 2020 series high speed data modems and digital transmission software are ideal for large and small payload data, with effective data rates up to 19.2kBps and highly efficient chat modes with native language support.

### Additional Features Include:

- Fax, Data and Email
- High Speed Image Transfer
- Chat Applications
- Data and Border Security Systems Integration
  - Passport Data
  - Biometric Data
- STANAG Waveform Compliance
- Secure Digital Voice MELP/TWELP
- Frequency Hopping options
- Vehicle/Vessel tracking
- Mapping
- SMS text paging facility
- B.I.T.E. (Built in test equipment)
- IP/WiFi Connectivity
- Network Diagnostics
- Full Telephony Integrations
- SATCOM, HF, V/UHF Cross Patching and Support
- High Power HF and VHF Systems
- 2/3G, LTE, Band 14 by NVIS Communications



ISO 9001  
BUREAU VERITAS  
Certification

