

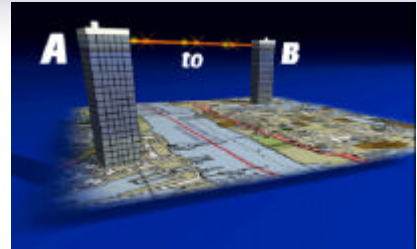
Cablefree Solutions Limited

Leaders in Free Space Optics

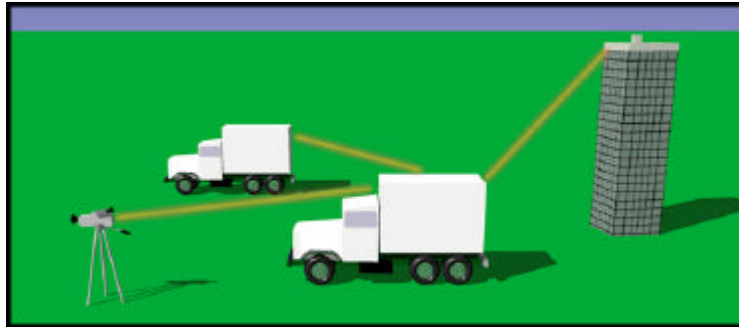
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Application Note No. 7 Cablefree connections for Disaster Recovery and Emergency services



The Scenario:

Natural disasters, terrorist attacks and emergency situations are by their nature unpredictable – and require flexible and innovative responses. In the modern age, communication systems are a fundamental requirement in managing a complex situation and creating order from chaos.

Mobile control centres are often brought in, with vehicles that need to be connected to a number of other centres, observation points or services, but local infrastructure may be damaged, inadequate or unreliable.

In urban environments, Microwave or radio solutions require licensing and often suffer from interference, multipath and signal reflections – and public health fears in urban areas are voiced with increasing frequency.

Cablefree offers an innovative solution offering full-bandwidth network connectivity:

- Data rates up to 622 and 1500Mbps
- Line-of-sight connections in excess of 2,000m
- No site or frequency licenses required
- No leased-line rental or connection charges
- Trench digging and long runs of fibre-optic or copper cable are not needed
- Rapid deployment – installation typically within 3 hours
- No risk of interference, signal reflections or airport radar systems
- No ignition hazard in flammable environments
- Suited for permanent or temporary use
- Plug-in modules allow on-site upgradability of data bandwidth or format
- Cost-effective, safe and reliable solution

CableFree assists Disaster Recovery and Emergency situations

Computer and telecommunications networks may need to be set up in a short space of time in Disaster Recovery and Emergency situations, and operators cannot depend on local telecommunications providers to help – especially with response teams that may be sent a considerable distance to operate.

Cablefree offers state-of-the-art communications systems ideally suited for rapid provision of network connections, with industry-standard data interfaces from 2Mbps to 622Mbps. Installations are quick and costs competitive with limited-bandwidth radio and microwave solutions. With no need for frequency allocation or licensing, **Cablefree** can be deployed to expand networks rapidly anywhere in the world.

Systems available:

Cablefree 622 for voice & data connectivity up to 622Mbps, range up to 2km

Cablefree Access for SDH or PDH connectivity up to 155Mbps, range up to 4km

Cablefree Gigabit for Gigabit Ethernet and Fibre Channel up to 1000m

Data formats supported:

E1/G703 2.048Mbps • E2 8.448Mbps • E3 34.368Mbps • STM-1 & STM-4 •

Ethernet 10, 100 & 1000Mbps • ATM-155 & 622Mbps, Token Ring • FDDI •

Fibre Channel • Broadcast Video and CCTV •

Multiplexed & custom solutions available

For more information, please contact CableFree:

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