CableFree
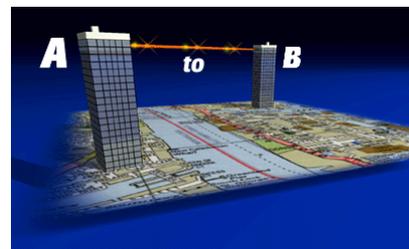### Wireless Excellence

CableFree Solutions Limited
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Application Note:
Corporate and Campus Network Connectivity

Scenario

Corporate and Campus network users often face a familiar problem; connecting multiple buildings in busy areas separated by obstacles such as roads, rivers and urban development. Traditional connections using Fibre Optic, Leased Line or Microwave radio can prove costly or incur unacceptable delays.

CableFree solves the problem with high-capacity, highly reliable wireless solutions with low cost of ownership. CableFree products offer up to Gigabit capacity throughput and are installed in hours, not weeks.
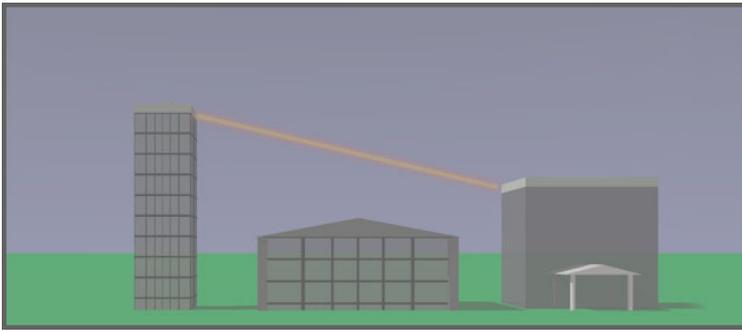
Solution

A CableFree solution offers the following features and benefits:

High performance:	Gigabit Ethernet FSO, 72Mbps radio
Rapid installation:	3 hours achievable
Highly reliable:	99.999% availability achievable
License-free Operation:	No fees to pay
No monthly rental fee:	Low maintenance solution
Diverse technology options:	Free Space Optics & Broadband Radio
Fully manageable:	Advanced software tools
Resilient solutions:	1+1 FSO+Radio dual link options
Low Total-Cost-of-Ownership (TCO):	Moveable asset
Safe & Environmentally friendly:	Low disruption during installation

CableFree products are field-proven, with thousands of deployments in over 50 countries since 1997. Excellence in performance and reliability are not sacrificed in providing highly competitive priced solutions together with a comprehensive range of support services.

Application Diagram

Two or more buildings are connected by CableFree wireless products. Clear Line-of-Sight (LOS) for FSO or Near-Line-of-Sight (NLOS) for radio is required.

The customer network (data and/or voice) is connected to the wireless units which can be mounted on rooftops, towers, poles or behind windows.

A site survey is recommended before installation, to determine suitable mounting points, location of cable runs etc. Installation involves physically mounting the equipment, aligning it, connecting data and power circuits and commissioning.

Recommended Systems

CableFree Access Connectivity up to 155Mbps, range up to 4km

CableFree 622 Connectivity up to 622Mbps, range up to 2km

CableFree Gigabit Gigabit Ethernet and Fibre Channel up to 1.5km

LaserHop E1, Fast and Gigabit Ethernet up to 1km

CableFree HPR Radio links up to 72Mbps, range up to 40km

CableFree MPR Radio links up to 30Mbps, range up to 40km

Data formats supported

E1/G703 2Mbps • E2 8Mbps • E3 34Mbps • T1 1.5Mbps • STM-1 & STM-4 •

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

Fibre Channel • Broadcast Video and CCTV •

Multiplexed voice and data 10+2 and 100+2 solutions available

For more information, please contact CableFree

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