



Document No.	GP 59-64
Applicability	Group
Date	23 April 2007

GP 59-64

Industrial Wireless Local Area Network and Wireless Voice Over IP Systems

Group Practice

**BP GROUP
ENGINEERING TECHNICAL PRACTICES**

Foreword

This is the first issue of Engineering Technical Practice (ETP) GP 59-64. This Group Practice (GP) is ordered to indicate the criteria that shall be involved when implementing Industrial Wireless LAN and Wireless Voice over IP systems.

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1. Scope

This GP provides guidance for the criteria used to determine the design considerations for Industrial Wireless Local Area Network (IWLAN) as well as the considerations for wireless voice over IP. This GP complements sound engineering techniques and advises on the use of standard techniques to develop designs that will provide greater reliability. It also complements the BP DCT Telecommunications Domain Directive 20061219-02 (Industrial Wireless Service).

2. Normative references

The following normative documents contain requirements that, through reference in this text, constitute requirements of this technical practice. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this technical practice are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies.

BP

BP DCT Telecommunications Domain Directive 20061219-02 (Industrial Wireless Service).	
BP DCT Telecommunications Domain Directive 20061219-02 (Administrative Instructions).	
GP 12-15	Guidance on Practice for Wire and Cable.
GP 59-63	Fibre Cable Plant Design.

International Electrotechnical Commission (IEC)

IEC 60529	Degrees of protection provided by enclosures (IP).
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British Standards Institute (BSI)

BS EN 60079	Electrical apparatus for explosive gas atmospheres.
BS EN 61508	Functional safety of electrical/electronic/programmable electronic safety-related systems.
BSI PD CLC/TR 50426	Assessment of inadvertent ignition of bridge wire electro-explosive devices by radio frequency radiation - Guide.
BSI PD CLC/TR 50427	Assessment of inadvertent ignition of flammable atmospheres by radio-frequency radiation - Guide.

3. Definitions/abbreviations

For the purposes of this GP, the following definitions and abbreviations apply:

AP	Wireless Access Point
DCT	Digital & Communications Technology (BP's Information Technology Group)
IPT	Internet Protocol Telephony
IWLAN	Industrial Wireless Local Area Network
LAN	Local Area Network

