



SIN 414

Issue 1.1
January 2004

Suppliers' Information Note

For The BT Network

BT RedCARE[®] Secure IP Service Description

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1. Introduction

This Suppliers' Information Note (SIN) provides information about the BT RedCARE Secure IP service. Through use of WAN topology and the BT RedCARE network, the BT RedCARE Secure IP service provides a highly secure alarm-signalling network solution.

2. Service Availability

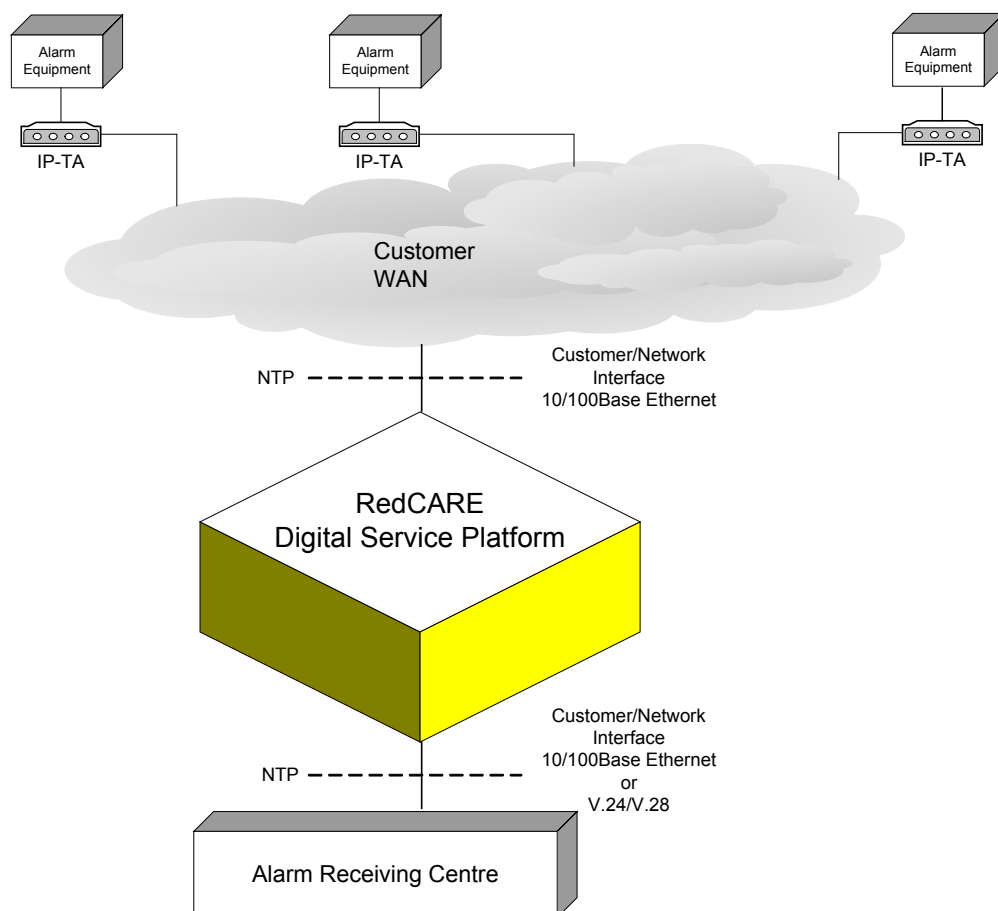
The service launch date has yet to be finalised, for further information please contact: Lincoln Appleton, Tel: 01442 208237 lincoln.appleton@bt.com

For further information regarding national service coverage please contact:

RedCARE Service Availability Helpdesk
0800 800 928

3. Service Outline

Through the use of prescribed terminal equipment (known as IP-TA), alarm equipment at dispersed protected premises have their associated data channelled to a single point of presence on a client WAN where interface is made with the BT RedCARE network. The BT RedCARE network routes data to an Alarm Receiving Centre (ARC), thus enabling end to end communication between the protected premises and ARC.



4. Description of Interfaces

4.1 Client WAN

Primary interconnect with the BT RedCARE network is achieved through a managed service of router equipment provided by BT RedCARE in conjunction with a digital private circuit (interface characteristics as those of the KiloStream service described in SIN 57^[1]). Secondary router access is provided via the BT ISDN (summarised in SIN 312^[2]).

Customer interconnection with the router equipment is achieved using Internet Protocol (IP) transactions through a 10/100BaseTX auto-sensing Ethernet port conforming to IEEE 802.3^[3] and terminated in a standard RJ45 connector on the BT RedCARE router equipment.

4.2 Alarm Receiving Centre (ARC)

4.2.1 V.24 / V.28 Interface

The BT RedCARE Alarm Receiving Centre Network Terminating Equipment (NTE) provides an interface conforming to ITU-T V.24^[4]/V.28^[5] (RS-232-C) and is configured as Data Communications Equipment. It is an industry standard serial binary data port using a 25 way female D-type connector. The physical interface is 3-wire comprising transmit, receive and common ground.

The interface parameters are:-

Asynchronous data format

Baud rate: configurable from a range of 1200, 2400, 4800, 9600, 19200

Data bits: 8

Parity: none

Stop bits: 1

Flow control: software DC1/DC3 (Xon/Xoff), as defined in ITU-T T.50^[6] , for control of inbound signals to ARC only

Start bits: 1

4.2.2 Ethernet Interface

The BT RedCARE Alarm Receiving Centre Network Terminating Equipment (NTE) provides a 10/100BaseTX auto-speed sense Fast Ethernet port conforming to IEEE 802.3^[3] for IP connection to the BT RedCARE network. It is provided as an industry standard RJ45 port requiring CAT5 compliant cabling between the NTE and the customer equipment.

5. Signalling Protocol

The security-oriented nature of the service requires the use of an encrypted signalling method that is the subject of Intellectual Property (IP).

Terminal Equipment (TE) suppliers wishing to obtain relevant information regarding this Intellectual Property should contact:

RedCARE Technology Ltd.,
Unit B7,
Southwood Summit Centre,
Farnborough,
Hampshire,
GU14 0NR

Telephone 01252 378822
Fax 01252 371166

6. Further Information Contact Points

For “sales and marketing” information about this service please contact your preferred alarm company.

Alternatively please contact either

- Your Company’s BT Account Manager.
- For Personal customers, BT Sales 0800 800 150 for product and service information, sales and rental enquiries.
- For Business customers, BT Sales 0800 800 152 for product and service information, sales and rental enquiries.
- For general enquiries about BT RedCARE, the RedCARE Helpdesk 0800 800 828.

7. References

[1]	BT Supplier Information Note (SIN) 57 - KiloStream X.21 (2400 to 64k) Service Description.
[2]	BT Supplier Information Note (SIN) 312 – BT ISDN Services Overview.
[3]	IEEE 802.3, Standards for Local Area Networks: CSMA/CD Access Method.
[4]	ITU-T Recommendation V.24 - List of Definitions for Interchange Circuits between Data Terminal Equipment (DTE) and Data Circuit-Termination Equipment (DCE).
[5]	ITU-T Recommendation V.28 - Electrical Characteristics for Unbalanced Double Current Interchange Circuits.
[6]	ITU-T Recommendation T.50 – International alphabet N ^o 5.

8. Glossary

ARC	Alarm Receiving Centre
CAT5	Category 5 Cable (Used in 100 Base-T Fast Ethernet networks)
DCE	Data Circuit-Termination Equipment
DTE	Data Terminal Equipment
IEEE	Institute of Electronic and Electrical Engineers
IP	Internet Protocol
IP	Intellectual Property
IP-TA	Internet Protocol – Terminal Adapter
ISDN	Integrated Services Digital Network
ITU-T	International Telecommunication Union – Telecommunications Standardisation Sector
NTE	Network Terminating Equipment
NTP	Network Termination Point
SIN	Suppliers' Information Note
TE	Terminal Equipment
WAN	Wide Area Network

9. History

Issue 1.0	May 2003	First Issue
Issue 1.1	January 2004	Amendment to service launch plan statement (Section 2.). Minor text edit to the digital private circuit statement of Section 4.1.

-END-

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