
ND1210:1998/09

PNO-ISC/SER/010

Public Network Features To Support

A Messaging Service

© 2002 Crown Copyright

NOTICE OF COPYRIGHT AND LIABILITY

Copyright

All right, title and interest in this document are owned by the Crown and/or the contributors to the document unless otherwise indicated (where copyright be owned or shared with a third party). Such title and interest is protected by United Kingdom copyright laws and international treaty provisions.

The contents of the document are believed to be accurate at the time of publishing, but no representation or warranty is given as to their accuracy, completeness or correctness. You may freely download, copy, store or distribute this document provided it is not modified in any way and it includes this copyright and liability statement.

You may not modify the contents of this document. You may produce a derived copyright work based on this document provided that you clearly indicate that it was created by yourself and that it was derived from this document and provided further that you ensure that any risk of confusion with this document is avoided.

Liability

Whilst every care has been taken in the preparation and publication of this document, NICC, nor any committee acting on behalf of NICC, nor any member of any of those committees, nor the companies they represent, nor any person contributing to the contents of this document (together the "Generators") accepts liability for any loss, which may arise from reliance on the information contained in this document or any errors or omissions, typographical or otherwise in the contents.

Nothing in this document constitutes advice. Nor does the transmission, downloading or sending of this document create any contractual relationship. In particular no licence is granted under any intellectual property right (including trade and service mark rights) save for the above licence to copy, store and distribute this document and to produce derived copyright works.

The liability and responsibility for implementations based on this document rests with the implementer, and not with any of the Generators. If you implement any of the contents of this document, you agree to indemnify and hold harmless the Generators in any jurisdiction against any claims and legal proceedings alleging that the use of the contents by you or on your behalf infringes any legal right of any of the Generators or any third party.

None of the Generators accepts any liability whatsoever for any direct, indirect or consequential loss or damage arising in any way from any use of or reliance on the contents of this document for any purpose.

If you have any comments concerning the accuracy of the contents of this document, please write to:

The Technical Secretary,
Network Interoperability Consultative Committee,
OfTel,
50 Ludgate Hill,
London,
EC4M 7JJ.

**PNO-ISC SERVICE DESCRIPTION NUMBER 010
PUBLIC NETWORK FEATURES TO SUPPORT
A MESSAGING SERVICE**

NETWORK INTEROPERABILITY CONSULTATIVE COMMITTEE
Office of Telecommunications
50 Ludgate Hill
London EC4M 7JJ

0.2 NORMATIVE INFORMATION

All enquiries about distribution, reproduction, changes and clarifications should be addressed in the first instance to the Chairman of the NICC/PNO-IG/ISC at the address on the title page.

DISCLAIMER The contents of this service description have been agreed by the NICC. The information contained herein is the property of the NICC and is supplied without liability for errors or omissions.

0.3 CONTENTS

0.2	NORMATIVE INFORMATION.....	2
0.3	CONTENTS.....	3
0.4	HISTORY	3
0.5	ISSUE CONTROL.....	3
0.6	REFERENCES.....	3
0.7	GLOSSARY OF TERMS.....	3
0.8	SCOPE.....	4
1	SERVICE OVERVIEW.....	5
2	NETWORK FEATURES.....	5

0.4 HISTORY

Revision	Date of Issue	Updated By	Description
Issue 1	September 1998	S Alexander, BT	First Issue

0.5 ISSUE CONTROL

PAGE	ISSUE	DATE
All	Issue 1	September 1998

0.6 REFERENCES

[1] Licence granted by The Secretary of State for Trade and Industry to British Telecommunications under Section 7 of the Telecommunications Act 1984

0.7 GLOSSARY OF TERMS

calling line identity (CLI)

The CLI is either:

a *network number* that unambiguously identifies the ingress port to the public network; or,
a *presentation number* that identifies the NTP to which a return call can be made.

network termination point (NTP)

The definition of Annex A 2(i) of [1] applies for fixed link terminating networks, and is the air interface for terminating mobile networks.

originating network

The network to which the customer who originates the call is directly connected.

service provider (SP)

An organisation that provides enhanced telecommunications services to its customers.

Note: A more complete definition may be found in an OFTEL document "Promoting Competition in Services over Telecommunication Networks", "ANNEX B: Service Provider definition".

Note: The SP is connected to a public network operator's network. A service provider may be a public network operator.

service provider's customer (SPC)

A customer of the enhanced telecommunications services offered by a service provider.

Note: A SPC is connected to the network of a public network operator that may or may not be the same network to which the service provider is connected.

terminating network

The network to which the customer who receives a call is directly connected.

transit network

A network through which a call passes, but which is neither the *originating network* nor the *terminating network* for that call.

Note: A *transit network* acts as an *outgoing network* and as an *incoming network*.

0.8 SCOPE

This document provides an overview of public network features that enable service providers to offer a Messaging Service to single line PSTN customers, multi-line PSTN customers and ISDN customers.

These public network features may be available to service providers who may be connected to any UK public telecommunications network and their customers who may be connected to the same or any other UK public telecommunications network.

For the purposes of this service description the term public network is generic. It may be interpreted as involving a single network, an originating and terminating network or an originating network, one or more transit networks and a terminating network.

1 SERVICE OVERVIEW

A Messaging Service comprises the following elements:

- One or more public telecommunications network(s) including, if appropriate, points of interconnection between them;
- an interface to a service provider; and,
- an interface to a service provider's customer (SPC).

The diagram in Figure 1 shows the interconnection topography.

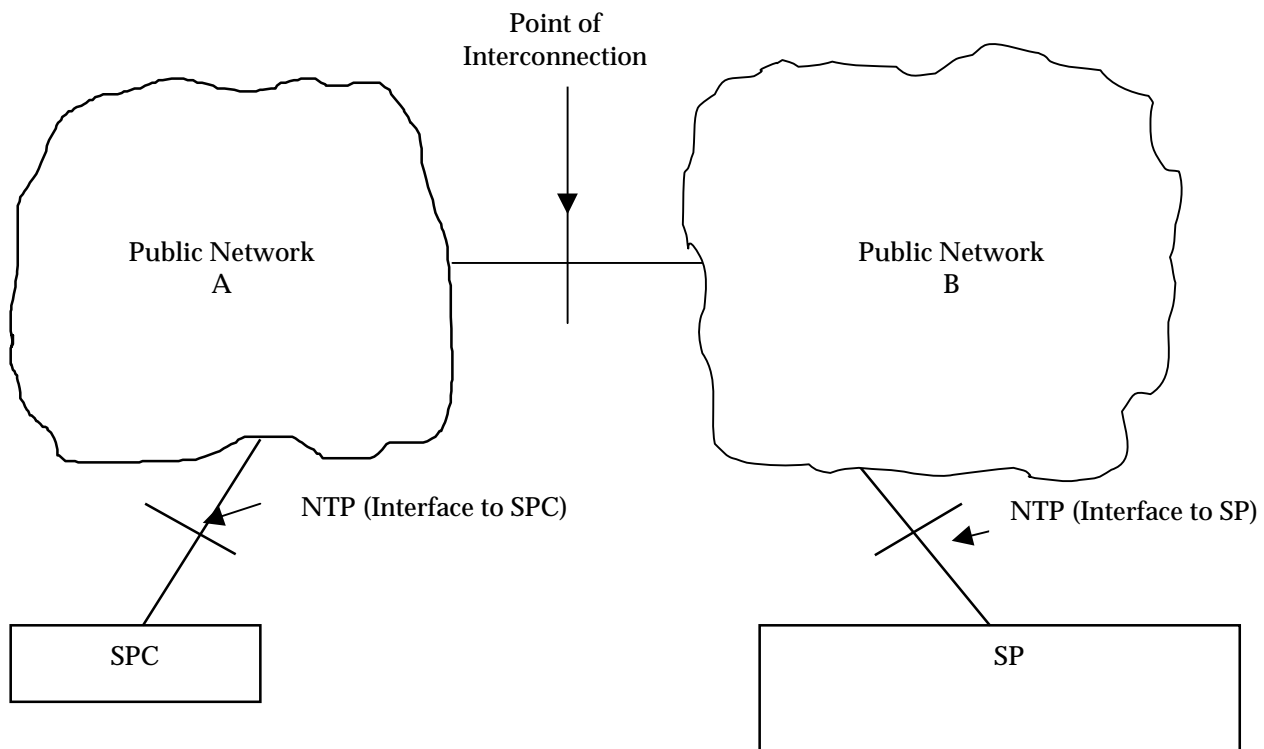


Figure 1: Service Topography (showing the case with two public networks)

In addition to the above, additional features may be provided. This service description only considers the following optional features:

- 1.1 a message waiting indication; and/or,
- 1.2 a control transaction so that the ringing duration before call forwarding may be changed.

2 NETWORK FEATURES

- 2.1 The features of a public telecommunications network required in order that a Messaging Service may be offered are as follows:

SEE PAGE 2 FOR THE NORMATIVE INFORMATION

2.1.1 Features provided to the SPC

2.1.1.1 The ability to forward calls intended for the SPC to the SP together with an indication of the reason for forwarding and the identity of the SPC;

2.1.1.2 the ability to access the SP for the purpose of retrieving message(s);

2.1.1.3 optionally, the network operator may offer the SPC a message waiting indication;

2.1.1.4 optionally, if this is allowed by the SP, the SPC may be offered the ability to alter the duration of the alerting signal provided before diverting the call to the SP.

2.1.2 Features provided to the SP

2.1.2.1 the ability to receive calls forwarded from the SPC together with an indication of the reason for forwarding and the identity of the SPC;

2.1.2.2 the ability to be accessed for the purposes of message retrieval;

2.1.2.3 optionally, the network operator may offer the SP the ability to instruct the network to which the SPC is connected to set or cancel a message waiting indication provided to the SPC;

2.1.2.4 optionally, the network operator may offer the SP the ability to instruct the network to which the SPC is connected to alter the duration of the alerting signal provided to the SPC before forwarding the call to the SP.

2.2 Interconnection of public telecommunications networks is required such that the above features can continue to be supported in cases where the SP and the SPC are not receiving telecommunications services from the same public network operator.

END OF PNO-ISC/SER/010