



SIN 354

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Suppliers' Information Note

For The BT Network

BT Public Switched Telephone Network (PSTN): Technical Characteristics of the Supplementary Services available on the Analogue Line Interface

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1. Scope

This Suppliers' Information Note (SIN) specifies those technical characteristics of the Supplementary Services available on an analogue line interface of the Public Switched Telephone Network (PSTN) provided by BT, delivered to a customer at the Network Termination Point.

Only those services that have an impact on the user interface have been listed.

In cases where the Network Termination Equipment (NTE) is mains powered, the conditions quoted in this SIN apply when mains power is being applied to the NTE. The conditions applicable when mains power is removed from the NTE may be different to those quoted in this SIN.

Much of the information contained in this SIN has been published previously in documents such as BT's service user guides.

Changes to the network that affect the correct working of terminal equipment designed to use the BT PSTN will be published in BT SINs. If the changes impact on the content of this document then it will be updated.

2. Introduction

2.1 **Service Provision**

Supplementary Services are provided to BT customers using the following methods:

- a) by default provision, e.g. Reminder Call™, Caller Return 1471, Three Way Calling™, etc, and,
- b) provided on demand, e.g. Call Waiting™, Call Minder®, BT Direct Connect™, etc.

2.2 **Service Control**

Individual service operation can be either customer controlled using Touch Tone™ keying (multi-frequency tone signalling digits) and/or Recall with the service operating codes listed in Annex A and Annex B, or added as a permanent feature, by the administration, to individual exchange lines.

Where there are differences between the services available to customers connected to access lines on System X, AXE 10 and UXD5 Digital Local Exchanges, or on BT's 21st century network (21CN), the differences are detailed in the Annexes.

Note. The technical characteristics of the multi-frequency tone and Recall signals recognised by the BT network interface are given in SIN 351^[1].

3. Supplementary services

The following is a list of those services having an impact on the user interface.

BT Calling Features

1471 Extra
Call Barring™
Smart Divert™
BT Call Sign™
Call Waiting™

Caller Display™
Reminder Call

Caller Return 1471
BT Ring Back®
Three Way Calling
Prompted Ring Back
Call Diversion

Other Services

Anonymous Call Rejection
BT Chargecard™
BT Direct Connect™
Call Forwarding
Call Minder ®

Called Party Answer
Calling Line Identity
(CLI) Delivery

Soft Dial Tone
Number Portability™
BT In Contact™
Charge Advice
BT Answer 1571™
Wholesale 1571
Choose to Refuse™
Fixed Line SMS Service

4. Service Descriptions

4.1 Calling Line Identity (CLI) Delivery

Refer to Section 4.3 – Caller Display™.

4.2 Call Forwarding

Refer to Section 4.6 – Call Diversion and 4.7 – Smart Divert™.

4.3 Caller Display™

The Caller Display service is designed around the ability to offer Calling Line Identity (CLI) information to called customers, including customer control of the CLI release/withhold service - refer to SIN 227^[3].

For a description of the interaction between Caller Display and Call Waiting, refer to Section 4.5.

4.4 Call Minder® & BT Answer 1571™/ Wholesale 1571

These exchange-based services answer calls and record messages directly, on no reply or engaged. If a message has been recorded while the line is engaged, they call the home number after 10 minutes and again after 30 minutes to invite the customer to listen to the message. Standard ringing is applied. Interrupted dial tone alerts the customer to a waiting message - refer to SIN 350^[4] Network Tones and Announcements.

Call Minder offers more facilities than those provided by BT Answer 1571/Wholesale 1571.

4.5 Call Waiting™

Customers engaged on a call are alerted to another incoming call by a discrete tone while the caller receives voice announcements informing them of the call's status. This ensures that established incoming calls are not lost if the customer is prepared to answer the new incoming call. They can ignore the new incoming call, switch between the two calls or end the original call and receive ringing so that the new incoming call can be answered. If the Caller Display service and Call Waiting service are enabled on the same line then a second tone is received just after the first Call Waiting tone. The CLI of the Call Waiting caller can then be displayed mid-call on suitable Caller Display Customer Premises Equipment.

4.6 Call Diversion

Customers can use their exchange line to program the serving exchange to divert incoming calls on that line to another number. They can also have them diverted on busy and on no reply. Once Call Diversion is activated, the serving exchange will return interrupted dial tone to indicate that the facility is enabled - refer to SIN 350^[4] Network Tones and Announcements.

4.7 Smart Divert™

Customers can call from their own exchange line, or a different line, to program the serving exchange to divert incoming calls to another number. They can also have them diverted on busy and on no reply. This facility ensures that customers receive and can directly answer all of their incoming calls. This also allows the customer a certain amount of personal mobility.

Once Smart Divert is activated, the serving exchange will return interrupted dial tone to indicate that the facility is enabled - refer to SIN 350^[4] Network Tones and Announcements.

4.8 Call Barring™

Customers can bar all incoming calls or outgoing calls in a variety of categories by choosing barring options, either by Customer Control or by Administration Control. A Personal Identification Number (PIN) is provided for security purposes. Dial tone is still received when going off-hook, however, Number Unobtainable tone is received after dialling those dial codes relevant to the barring options selected. Refer also to Section 4.16 - Choose to Refuse service, and Section 4.20 - Anonymous Call Rejection.

Note: As small, rural exchanges (UXD5) currently do not support voice announcements, tones are used to indicate Call Barring status – refer to SIN 350^[4] Network Tones and Announcements.

4.9 BT Ring Back® & Prompted Ring Back

The BT Ring Back service, formerly known as Ring Back When Free, is a feature which, under customer control, automatically sets up a call to a previously dialled busy number when the called party becomes free, without the need for the calling party to redial. Ring Back will try to connect calls for a period of up to 45 minutes.

Callers to engaged numbers receive a combination of Number Busy Tone and a verbal announcement giving information on the availability of Ring Back, followed by Number Busy Tone. Calls to some numbers for which Ring Back cannot be used will just receive Number Busy Tone. An associated service, ring back inhibit, allows customers to prevent the use of BT Ring Back on calls to their number.

Once a BT Ring Back request has been placed and matures, the user receives a network ring back using a distinctive ringing cadence - refer to SIN 351 Annex A^[1] Distinctive Ringing Cadence Type 2.

The Ring Back facility can be disabled on calls to a particular number at the request of the customer on that line.

4.10 BT Direct Connect™

The BT Direct Connect service allows for the immediate automatic routing of calls to any pre-programmed telephone number from a standard exchange line, on lifting the receiver.

No dialling tone will be returned to the user as the call is immediately set-up as though the user had dialled the call manually. Progress indication of the call will be as for basic call set-up.

4.11 BT In Contact™

The BT In Contact service allows for the provision of single analogue exchange line, known commonly as a Direct Exchange Line (DEL), with a much restricted outgoing basic telephony service.

Outgoing calls are restricted to the following dial codes: 112, 999, 150, 151, 170, 175, 176, 195 and 12822. There is no restriction on basic incoming calls, although no 'incoming' BT Calling Features can be provided, e.g. Call Waiting, Smart Divert, Call Minder, etc

4.12 BT Chargecard™

The BT Chargecard service allows customers to make direct-dialled calls from any BT phone - including those with no * or # buttons - or via the operator, using an eight-digit account number and a four-digit PIN number. The call is charged to a user's own directory number.

After the access code (144) is dialled, an acknowledgement tone (1600 Hz) is received followed by automatic voice prompt instructions for the user to enter their account and PIN codes.

4.13 BT Call Sign™

BT Call Sign allows customers to distinguish between incoming calls. An additional directory number is provided against the existing exchange line such that, when the additional number is called, a different ringing cadence is applied to the line- refer to SIN 351 Annex A^[1] Distinctive Ringing Cadence Type 1.

Call Sign is offered subject to the availability of Call Sign numbers. Call Sign may not be compatible with some fax machines, and requires a telephone that responds to different ringing patterns.

4.14 Caller Return 1471 & 1471 Erasure

Caller Return 1471 provide the Calling Line Identity, where available, of the last call received, both answered and unanswered, together with the corresponding date and time of day. Dialling 1471 gives access to this information, by way of voice announcements, and the ability to return the call.

The 1471 Erasure service is invoked by dialling 1475 and replaces the last number stored by Caller Return 1471 by a "Number withheld" message. The caller will either hear the Connection Not Admitted Indication (Number Unobtainable Tone) or a message saying, "the other person has hung up". On replacing the handset, the phone will emit one ring to confirm the erasure has been completed. Should the customer then dial 1471 again, they will hear the number withheld message.

Note. In order to use the 1471 Erasure service the customer must release their CLI when dialling 1475 and must also receive the ring-back call which has a CLI set to "number withheld". Other services that prevent these two conditions will have to be temporarily disabled:

- customers with permanent CLI withhold will need to prefix the 1475 with 1470 in order to release their CLI;

- customers using Anonymous Call Rejection will need to prefix the 1475 with #227# then, following the ring-back, will then need to dial *227# to reactivate Anonymous Call Rejection;
- customers using either Smart Divert or Call Diversion will need to deactivate the facility otherwise the ring-back call will be diverted to the number that is currently receiving their calls, and the number in their 1471 number store will not be replaced.

4.15 1471 Extra

The 1471 Extra service (also known as Enhanced Caller Return) augments the BT Caller Return service (1471) to provide the Calling Line Identity, where available, of the last 5 calls, both answered and unanswered, together with the corresponding date and time of day. Dialling 1471 gives access to this information, by way of voice announcements, and the ability to return calls to selected numbers and to delete selected numbers from the record. **Product has now been withdrawn.**

4.16 Choose to Refuse™

The Choose to Refuse service (also known as Last Incoming Call Barring) provides the customer with a selective incoming call barring service by dialling 14258 and following a voice prompted menu. Dialling 14258 after ending an incoming call gives the option of barring any further calls from that particular line. It is also possible to key in and store a directory number to be barred, by use of a PIN.

4.17 Soft Dial Tone

BT intends to provide a very limited, outgoing only, PSTN service to be provided a) on working exchange lines when normal PSTN service is stopped and b) as the final element in the pro-active provision of service at green field sites i.e. ahead of a customer order. Soft Dial Tone (SDT) will be available for both residential and single-line business customers and will allow rapid re-provision of service at minimum cost.

4.18 Number Portability™

This service allows the customer to move between Network Operators and to retain their Directory Number. Services available from one Network Operator may not be available from another; a customer wishing to retain their services will need to clarify this with their new service supplier. The interface specification at the Network Terminating Point may differ.

4.19 Called Party Answer

Called Party Answer (CPA) is available as a suitable replacement product to support the types of end user Customer Equipment features that have traditionally used the Meter Pulse Facility. CPA is provided by default on Multi-Line Groups and by request for Single Lines.

CPA, using a line polarity reversal, indicates to customer equipment that the Called Party or the Called Party's network has answered. Using suitable equipment that can both detect the line reversal signal and analyse the digits called, customers can determine when charging has started for all directly dialled chargeable calls on the BT network and certain calls terminating on other networks.

Note. See SIN 351^[1] and SIN 352^[6] for details of line polarity.

4.20 Anonymous Call Rejection

This service enables users to block calls from callers who have 'withheld' their number. All calls from a caller with Permanent Number Withhold will be blocked; these customers may be able to release their number on a per call basis by using prefix '1470'. Calls from a caller using '141' will be blocked, the caller will be required to redial the number without using the '141' facility. Those whose calls have been blocked will hear a voice announcement advising them to redial the number without withholding their number.

4.21 Reminder Call

With Reminder Call customers can arrange to receive either a single reminder call or a series of regular reminder calls.

4.22 Charge Advice

The Charge Advice service rings customers at the end of direct-dialled calls and provides a verbal announcement indicating how much the call has cost, either on a per-call basis or for all calls (Permanent Charge Advice). Permanent Charge Advice is not compatible with Call Minder. The Charge Advice service has been flagged for withdrawal, but remains present on lines until further notice. This product is a non EOI product that exists only on BT Retail legacy PSTN, not available on WLR EOI PSTN product.

4.23 Fixed Line SMS Service

The Fixed Line SMS service provides fixed line telephones with SMS messaging capabilities that, from the user's perception, are analogous to the service available to mobile 'phone users. Refer to SIN 413^[5] for further details.

4.24 Three Way Calling™

The Three Way Calling service allows End Users to speak to two other people at the same time, even if one of them is abroad. The customer can include or exclude either party at any time during the call. This is available on all single lines.

5. Glossary

21CN	BT's 21st century network
CLI	Calling Line Identity
CPA	Called Party Answer
DDI	Direct Dialling In
DEL	Direct Exchange Line
DN	Directory Number
ECR	Enhanced Call Return
EOI	Equivalence of Inputs
NTE	Network Termination Equipment
PIN	Personal Identification Number
PRB	Prompted Ring Back
PSTN	Public Switched Telephone Network
SDT	Soft Dial Tone
SIN	Suppliers' Information Note
SMS	Short Message Service
SX	System X exchange
SY	AXE10 exchange
TIG	Technical Interface Guide
UXD 5	Unit eXchange Digital Type 5
WLR	Wholesale Line Rental

6. References

Ref.		Title
[1]	SIN 351	BT Public Switched Telephone Network (PSTN): Technical Characteristics of the Single Analogue Line Interface.
[2]	SIN 353	BT Public Switched Telephone Network (PSTN): Technical Characteristics Of The Direct In (DDI) Analogue Line Interface. (<i>Note – References to this SIN have been removed</i>)
[3]	SIN 227	CDS Calling Line Identification Service – Service Description.
[4]	SIN 350	BT Public Switched Telephone Network (PSTN): Network Tones and Announcements
[5]	SIN 413	Fixed Line SMS Service, Service Description and Interface Specification
[6]	SIN 352	BT Public Switched Telephone Network (PSTN): Technical Characteristics of the Multi-Line Analogue Line Interface

The above BT SINS are available at www.sinet.bt.com .

7. History

TIG 7 Issue 1	October 1998	First published
TIG 7 Issue 2	April 1999	Addition of BT Call Sign service. Inclusion of additional operating codes. Enhanced UXD5 capabilities.
TIG 7 Issue 3	July 1999	Addition of Enhanced Call Return.
TIG 7 Issue 4	August 1999	Addition of SDT, PRB and Choose to Refuse services.
TIG 7 Issue 5	August 1999	Addition of Homemover Redirect service. Cessation of Code calling on UXD5 from 1/12/99.
TIG 7 Issue 6	September 1999	Amended description of Choose to Refuse service in clause 4.
TIG 7 Issue 7.0	February 2000	Homemover Redirect renamed Mover Redirect and description amended. Amended dates for introduction of Choose to Refuse, Anonymous Call Rejection and Enhanced Caller Return. Entry for Enhanced Caller Return in Annex A “Notes” corrected to align with the clause 4 service description.
SIN 354 Issue 1.0	March 2001	Document re-issued as SIN 354 with editorial changes. Mover Redirect™ removed. MPF withdrawal statement removed. Non Enhanced UXD5 reference removed.
SIN 354 Issue 2.0	March 2002	Entries for BT Ring Back and Call Waiting modified. “Recall” entry deleted (to be moved to SIN 351). Descriptions of Caller Return 1471, Reminder Call & Charge Advice added to complement information in Annexes. 1471 Erasure added. Editorial changes.
SIN 354 Issue 3.0	September 2003	Reference for Distinctive Ringing characteristics changed from SIN 249 to SIN 351 Annex A. Call Diversion renamed Smart Divert. Call Minder clause expanded to include BT Answer 1571. Enhancements to UXD 5 capabilities incorporated. “Select Services” changed to “BT Calling Features”.
SIN 354 Issue 3.1	July 2005	“Fixed Line SMS Service” and reference to SIN 413 added.

SIN 354 Issue 4.0	July 2006	<p>Withdrawal notification added for Charge Advice, Night Busying, analogue DDI and Meter Pulse Facility.</p> <p>Called Party Answer added</p> <p>Call Diversion added to Service Descriptions and Smart Divert entry amended to add remote control facility.</p> <p>Column for 21CN supplementary services added to Annexes.</p> <p>Call Diversion replaces Smart Divert in Annexes where there is no remote control.</p> <p>"Smart Divert – on busy and no reply" added to Annex A & B.</p> <p>Smart Divert codes corrected in Annex B.</p>
SIN 354 Issue 4.1	December 2008	<p>Annexes A & B – Supplementary Service availabilities updated on different types of exchange</p> <p>Direct Dialling In (DDI) product withdrawn</p> <p>1471 Extra product withdrawn</p> <p>Meter Pulse Facility product withdrawn</p> <p>Night Busying (30k Ohm Key Control) product withdrawn</p> <p>Three Way Calling added to Service Descriptions</p> <p>Also minor editorial amendments throughout SIN</p>
SIN 354 Issue 4.2	February 2009	<p>Index updated to include white labelled Wholesale 1571 basic messaging service as per BT Answer 1571</p> <p>Charge Advice is a BT Retail specific product and not available via WLR.</p>

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ANNEX A: SUPPLEMENTARY SERVICES OPERATING CODES FOR SINGLE LINES

The following table lists service codes and their availability on the different BT exchange types (note that the services can be accessed mid-call by using Recall):

Feature	Activation Codes			System X (SX)	AXE10 (SY)	UXD5	21C	Notes
	ON	OFF	Check					
Repeat Last Call	**0			✓	✓	✗	✗	Automatically sets up call to last dialled number.
Ring Back Inhibit	*02*37#	#02*37#	*#02*37#	✓	✓	✓	✓	Prevents Ring Back requests from being placed against user's line.
Calling Line Identity -per call withhold	141[DN]	-	-	✓	✓	✓	✓	DN = national number
Calling Line Identity -per call release	1470[DN]	-	-	✓	✓	✓	✓	DN = national number
Caller Return	1471[3]	-	-	✓	✓	✓	✓	[3] = digit 3 may be entered when prompted to return the call.
1471 Extra	1471[3]	-	-	✓	✓	N/A	✓	[3] = digit 3 may be entered when prompted to return the call to one of last five incoming calls. NB - SERVICE WITHDRAWN IN DECEMBER 2008
Choose to Refuse	14258 (see note)	-	-	✓	✓	✓	✓	Refer to Section 4.16
1471 Erasure	1475	-	1471	✓	✓	✓	✓	

ANNEX A: SUPPLEMENTARY SERVICES OPERATING CODES FOR SINGLE LINES: cont.

The following table lists service codes and their availability on the different BT exchange types (note that the services can be accessed mid-call by using Recall):

Feature	Activation Codes			System X (SX)	AXE10 (SY)	UXD5	21C	Notes
	ON	OFF	Check					
Call Minder, BT Answer 1571 & Wholesale 1571	Admin provided	-	1571 See notes	✓	✓	✓ ✓	✓	Own line access – 1571 Call Minder Remote access – [DN], wait for Call Minder prompt, *[PIN]. DN = own national number.
Call Diversion – all calls.	*21*[DN]#	#21#	*#21#	✓	✓	✓	✓	DN = 'diverted to' national number
Anonymous Call Rejection	*227#	#227#	*#227#	✓	✓	✓	✓	
Caller Display	*234#	#234#	*#234#	✓	✓	✓	✓	UXD5 - The Caller Display service is available but cannot be controlled by activation codes.
Incoming Call Barring – all calls.	*261#	#261#	*#261#	✓	✓	✓	✓	
Outgoing Call Barring – cancelling all options	-	#34*[PIN]#	-	x	✓	✓	✓	
Outgoing Call Barring – almost all calls.	*341#	#341*[PIN]# (Note1)	*#34#	✓	✓	✓	✓	Note 1: SX: cancels all active options. SY, UXD5 and 21C: cancels Option 1 only.

ANNEX A: SUPPLEMENTARY SERVICES OPERATING CODES FOR SINGLE LINES: cont.

The following table lists service codes and their availability on the different BT exchange types (note that the services can be accessed mid-call by using Recall):

Feature	Activation Codes			System X (SX)	AXE10 (SY)	UXD5	21C	Notes
	ON	OFF	Check					
Outgoing Call Barring – national, international and mobile.	*342#	#342*[PIN]#	*#34#	✓	✓	✓	✓	
Outgoing Call Barring – international.	*343#	#343*[PIN]#	*#34#	✓	✓	✓	✓	Includes calls to premium rate information services for SY.
Outgoing Call Barring – operator calls	*344#	#344*[PIN]#	*#34#	✓	✓	✓	✓	
Outgoing Call Barring – codes using * or #	*345#	#345*[PIN]#	*#34#	✓	✓	✓	✓	Excludes Call Barring operating code.
Outgoing Call Barring –premium rate information services.	*347#	#347*[PIN]#	*#34#	✓	✗	✓	✓	Refer to Outgoing "Call Barring – international" feature for SY (code *343#).
Charge Advice – per call	*40*[DN]#	-	-	✓	✗	✗	✗	DN = national number
	or R*40# for mid call			✓	✓	✗	✗	

ANNEX A: SUPPLEMENTARY SERVICES OPERATING CODES FOR SINGLE LINES: cont.

The following table lists service codes and their availability on the different BT exchange types (note that the services can be accessed mid-call by using Recall):

Feature	Activation Codes			System X (SX)	AXE10 (SY)	UXD5	21C	Notes
	ON	OFF	Check					
Charge Advice – per call.	*40#[DN] or R*40# for mid call	-	-	x ✓	✓ ✓	x x	x x	DN = national number
Charge Advice – all calls.	*411#	#411#	*#411#	✓	✓	x	x	
Call Waiting	*43#	#43#	*#43#	✓	✓	✓	✓	To accept and toggle: Recall. Customers on UXD5s key Recall 2 to talk to the second caller and Recall 1 to return to the first caller.
Smart Divert – all calls.	*44*[PIN]*[DN1]* [DN2]#	#44*[PIN]* [number1]#	*#44*[PIN]* [number1]#	✓	✓	✓	✓	DN1 = own national number DN2 = 'diverted to' number
BT Ring Back	5	#37*[DN]# (Note 1) #37# (Note 2)	*#37*[DN]# (Note 1) *#37# (Note 2)	✓	✓	✓	✓	Note 1: Used to check/cancel Individual Ring Back Request. Note 2: Used to check/cancel all Ring Back Requests. DN = national number of previously set Ring Back request.

ANNEX A: SUPPLEMENTARY SERVICES OPERATING CODES FOR SINGLE LINES: cont.

The following table lists service codes and their availability on the different BT exchange types (note that the services can be accessed mid-call by using Recall):

Feature	Activation Codes			System X (SX)	AXE10 (SY)	UXD5	21C	Notes
	ON	OFF	Check					
Code Calling – to store to dial	*51*[code]*[DN]# **[code]	#51*[code]#	*#51*[code]#	✓	✓	✗	✗	code = 3 to 29 for SX. code = 10 to 36 for SY. code = 3 to 9 for UXD5. DN= national number
Single Reminder Call	*55*[hhmm]#	#55#	*#55#	✓	✓	✓	✓	hhmm = 24 hour clock
Regular Reminder Call.	*56*[hhmm]* [option]#	#56*[hhmm]* [option]# or #56# for all.	*#56#	✓	✗	✗	✗	hhmm = 24 hour clock option = 1 (Mon) to 7(Sun), 8 = Mon to Fri, 9 = Every day.
Call Diversion – on no reply	*61*[DN]#	#61#	*#61#	✓	✓	✓	✓	DN= 'diverted to' national number
Smart Divert – on no reply.	*64*[PIN]*[DN1]* [DN2]#	#64*[PIN]*[DN1]#	*#64*[PIN]*[DN1]#	✓	✓	✓	✓	DN1= own national number DN2= 'diverted to' national number
Smart Divert – on busy.	*65*[PIN]*[DN1]* [DN2]#	#65*[PIN]*[DN1]#	*#65*[PIN]*[DN1]#	✓	✓	✓	✓	DN1 = own national number DN2 = 'diverted to' national number.
Call Diversion – on busy and no reply.	*66*[DN]#	#66#	*#66#	✓	✗	✓	✗	DN = 'diverted to' national number

ANNEX A: SUPPLEMENTARY SERVICES OPERATING CODES FOR SINGLE LINES: cont.

The following table lists service codes and their availability on the different BT exchange types (note that the services can be accessed mid-call by using Recall):

Feature	Activation Codes			System X (SX)	AXE10 (SY)	UXD5	21C	Notes
	ON	OFF	Check					
Call Diversion – on busy.	*67*[DN]#	#67#	*#67#	✓	✓	✓	✓	DN = 'diverted to' national number
Three Way Calling – To toggle between To talk to both To end first call To end second call	R[DN] R2 R3 R5 R7	-	-	✓	✓	✓	✓	R = Recall, DN = 3 rd party national number. R2 = Recall then digit 2, R3 = Recall then digit 3, R5 = Recall then digit 5, R7 = Recall then digit 7.

ANNEX B: SUPPLEMENTARY SERVICES OPERATING CODES FOR MULTI-LINE GROUPS (MLG)

The following table lists service codes and their availability on the different BT exchange types:

Feature	Activation Codes			System X (SX)	AXE10 (SY)	UXD5	21C	Notes
	ON	OFF	Check					
Ring Back Inhibit	*02*37#	#02*37#	*#02*37#	✓	✓	✗	✓	For individual lines within a Multi-Line Group (MLG) with their own national number. Note: For AXE10 & 21C, where no individual national number exists, Ring Back Inhibit will be against main number.
Ring Back Inhibit	*03*37*KW#	*03*37*KW#	*03*37*KW#	✓	✗	✗	✗	System X - Used for Ring Back Inhibit against main number. KW = Keyword (PIN)
Call Diversion – all calls.	*121*[DN]#	#121#	*#121#	✓	✓	✓	✓	DN = 'diverted to' national number
Calling Line Identity -per call withhold	141[DN]	-	-	✓	✓	✓	✓	DN = national number
Calling Line Identity -per call release.	1470[DN]	-	-	✓	✓	✓	✓	DN = national number
Call Diversion – on no reply	*161*[DN]#	#161#	*#161#	✓	✓	✓	✓	DN = 'diverted to' national number
Smart Divert – on no reply.	*164*[PIN]*[DN1]* [DN2]#	#164*[PIN]*[DN1]#	*#164*[PIN]*[DN1]#	✓	✓	✓	✓	DN1 = own national number DN2 = 'diverted to' national number.

ANNEX B: SUPPLEMENTARY SERVICES OPERATING CODES FOR MULTI-LINE GROUPS (MLG): cont.

The following table lists service codes and their availability on the different BT exchange types:

Feature	Activation Codes			System X (SX)	AXE10 (SY)	UXD5	21C	Notes
	ON	OFF	Check					
Smart Divert – on busy.	*165*[PIN]*[DN1]*[DN2]#	#165*[PIN]*[DN1]#	*#165*[PIN]*[DN1]#	✓	✓	✓	✓	DN1 = own national number DN2 = 'diverted to' national number.
Call Diversion – on busy and no reply.	*166*[DN]#	#166#	*#167#	✓	✗	✓	✗	DN = 'diverted to' national number
Call Diversion – on busy.	*167*[DN]#	#167#	*#167#	✓	✓	✓	✓	DN = 'diverted to' national number
Incoming Call Barring – all calls.	*261*[PIN]#	#261*[PIN]#	*#261#	✗	✗	✓	✗	UXD5 - provided on first line.
Incoming Call Barring – all calls.	*262*[PIN]#	#262*[PIN]#	*#262#	✓	✓	✗	✓	
Outgoing Call Barring – almost all calls.	*351#	#351*[PIN]# (Note1)	*#35#	✓	✓	✗	✓	Note 1: SX: cancels all active options. SY, UXD5 and 21C: cancels Option 1 only.
Outgoing Call Barring – national, international and mobile.	*352#	#352*[PIN]#	*#35#	✓	✓	✗	✓	
Outgoing Call Barring – international.	*353#	#353*[PIN]#	*#35#	✓	✓	✗	✓	For SY includes calls to premium rate information services.
Outgoing Call Barring – operator calls.	*354#	#354*[PIN]#	*#35#	✓	✓	✗	✓	

ANNEX B: SUPPLEMENTARY SERVICES OPERATING CODES FOR MULTI-LINE GROUPS (MLG): cont.

The following table lists service codes and their availability on the different BT exchange types:

Feature	Activation Codes			System X (SX)	AXE10 (SY)	UXD5	21C	Notes
	ON	OFF	Check					
Outgoing Call Barring – codes using * or #	*355#	#355*[PIN]#	*#35#	✓	✓	✗	✓	Excludes Call Barring operating code.
Outgoing Call Barring – premium rate information services.	*357#	#357*[PIN]#	*#35#	✓	✗	✗	✓	Refer to Outgoing Call Barring – international for SY (code *353#).
Smart Divert – all calls.	*44*[PIN]*[DN1]* [DN2]#	#44*[PIN]*[DN1]#	*#44*[PIN]*[DN1]#	✓	✓	✓	✓	DN1 = own national number DN2 = 'diverted to' national number.
Night Interception for PBX groups	*471*[PIN]#	#471*[PIN]#	-	✓	✓	✗	✓	Incoming calls are routed to the BT Operator
Night Busy service on PBX groups.	*472*[PIN]# *472*[PIN]* [NSB No]#	#472*[PIN]# #472*[PIN]* [NSB No]#	- *#472*[PIN]* [NSB No]#	✓ ✗	✗ ✓	✗ ✗	✗ ✗	Pre-defined group of lines to be busied for incoming calls. NSB No = Busy list of pre-defined group of lines to be busied.
Code calling – to store to dial	*51*[code]*[DN]# **[code]	#51*[code]# -	*#51*[code]# -	✓	✓	✗	✗	code = 3 to 29 for SX. code = 10 to 36 for SY. DN = national number

- END -