|       |   |  | BT Assessment   |   |                        |                 |  |
|-------|---|--|---|---|------------------------|-----------------|--|
| Index | Product Name +<br>Sub Product Name                | Description/Comments   | Implementation Assessment   | Difficulty of Implementing in an NGN                                      | Category               | Complex for NGN |  |
| 1     | 3G Video transit calls                            | Enables Video telephony calls from/to mobile phones to transit BT's network using ISDN transit capability (64kbit/s clear path). Since OLO interconnect will be at NGSs for Pathfinder 3G Video transit calls will not route over the 21CN. Wholesale service for conveyance of CP's traffic.                    | Delay sensitive. BER: 1 in 10 to 8;<br>ISDN User part; coder: H.264 M   | High ISDN data service  | ISDN                   | High            |  |
| 2     | Cardway   | The BT Cardway service provides a means of data communication between terminals connected via PSTN or ISDN lines and a central host computer connected via the Cardway Delivery Connection. The principal application is the authorisation of credit card transactions in retail stores along with Visa II ATMs. | X.25 data on B-Channel; Short CHT -> GW Call processing capacity  | High Edge of network DASS2<br>data service                                | ISDN                   | High            |  |
| 3     | Conference Call - Express,<br>Plus and Premium    | Conferencing product. Edge of network platform. Uses basic call and sometimes number translation service for call set-up.  |   | Edge of network - Voice<br>service - Low                                  | ASP                    | Low             |  |
| 4     | Enterprise Solutions<br>(UK/ROW)                  | This is a managed conferencing service. The<br>Conferencing platforms will remain located<br>outside the 21C network during Pathfinder<br>timescales. NB this product is now no longer<br>found in the RoP   |   | N/A - removed from portfolio  | N/A                    | N/A             |  |
| 5     | ReservationLess                                   | Voice conferencing service that doesn't require<br>a time slot or number of lines to be booked, i.e.<br>like MeetMe  |   | As row 3  | ASP                    | Low             |  |
| 6     | Text Direct                                       | This is the Deaf and Dumb users' Text system using 18000, 18001 and 18002 and modem based transport over the voice network.  | Support for VBD in a NGN (IP) environment. Non standard modems not using calling/answer tones (V.25 or Bell 103 startup sequences). Applies to older pre-standards textphones. Newer models comforming to V.18 should work OK as they use calling/answer tones. Calling/answer tones change the gateways form speech to data mode. i.e. remove EC and NLP and fix the DJBs. | Requires DSP workarounds  | VBD                    | High            |  |
| 7     | Voice DQ  | Directory Access / Directory Enquiries (195<br>Blind)  | Call routing capability. No special requirement,  | Line power. G.711 codecs,<br>high availability, disaster<br>recovery Low. | ASP                    | Low             |  |
| 8     | Outbound Services                                 | Global outbound calls from outsourced contact centres. NGS interconnect.   | Call routing capability. No special requirement,  | Voice, may be performance issues - dialers, short hold calls low          | Call Server<br>Routing | Low             |  |
| 9     | (Admin Controlled)-Admin controlled ICB all calls | Customer's line configured, by the administration, to bar all incoming calls.  |   | Call Server Feature - Low   | Call Server<br>Feature | Low             |  |

| Bell Labs Analysis  |           |              |  |  |  |
|---|-----------|--------------|--|--|--|
| Bell Labs Assessment & Industry Perspectives  | Bell Labs | Outlook      |  |  |  |
| Same.   | High      | Transitional |  |  |  |
| Same. TISPAN defined ISDN2 over IP standards with X.25 on IUA over SCTP/IP. Solution requires a next generation protocol handler (NGPH) between the NGN and the existing X.25 network. Given that ISDN is a transitional service, vendors' comitments for developing ISDN card on MSAN is limited. Short call holding time increases requirement of call processing capacities. | High      | Transitional |  |  |  |
| Same. TISPAN-compliant conference invocation<br>and control procedures are in NGN available for<br>both advanced endpoints (e.g., SIP based) and<br>traditional analog phones. Additional capabilities<br>such as Click to Conference could enhance<br>service offer.   | Low       | Future       |  |  |  |
| N/A   | N/A       | N/A          |  |  |  |
| Same as in row 3.   | Low       | Future       |  |  |  |
| Same.   | High      | Future       |  |  |  |
| Same.   | Low       | Future       |  |  |  |
| Same.   | Low       | Future       |  |  |  |
| Same.   | Low       | Future       |  |  |  |

| 10 | (Admin Controlled)-Admin controlled OCB all calls                          | Customer's line configured, by the administration to bar either all outgoing calls or calls to certain destinations.   |  | Call Server Feature - Low  | Call Server<br>Feature | Low  |
|----|--|--|--|--|------------------------|------|
| 11 | (Admin Controlled)-Admin<br>controlled OCB all calls<br>except 999 etc.    | Remains as Call barring option 1 after FRN002 updates.   |  | Call Server Feature - Low  | Call Server<br>Feature | Low  |
| 12 | (Admin Controlled)-Admin<br>controlled PRS & International<br>Call Barring | Call barring option 3 under FRN002 updates.  |  | Call Server Feature - Low  | Call Server<br>Feature | Low  |
| 13 | (Admin Controlled)-Admin controlled PRS Call Barring                       | Call barring option 6 under FRN002 updates.  |  | Call Server Feature - Low  | Call Server<br>Feature | Low  |
| 14 | Basic Voice Calls-Fixed to<br>Mobile                                       | Basic call functionality   | Call routing capability. No special requirement, | Line power. G.711 codecs,<br>high availability, disaster<br>recovery Low.              | Call Server<br>Routing | Low  |
| 15 | Basic Voice Calls-Local  | Basic call functionality   | Call routing capability. No special requirement, | Line power. G.711 codecs,<br>high availability, disaster<br>recovery Low.              | Call Server<br>Routing | Low  |
| 16 | Basic Voice Calls-National   | Basic call functionality   | Call routing capability. No special requirement, | Line power. G.711 codecs,<br>high availability, disaster<br>recovery Low.              | Call Server<br>Routing | Low  |
| 17 | Business Port  | BT BusinessPort is a product aimed at corporate institutions seeking to take advantage of lower call charges provided by IP call routing enabling employees to connect remotely to their corporate networks via the PSTN. From a 21C perspective it utilises a call into the legacy to reach a NAS associated with the Dial IP core network. |  | assumed VBD, high, is this<br>still a relevant service (why<br>not just use dsl + VPN) | VBD                    | High |
| 18 | Call Barring   | Permits the Administration to bar incoming<br>and/or outgoing calls on behalf of a customer.<br>Outgoing calls may be barred to particular types<br>of destination based on dialled number, e.g<br>Premium rate, National, International, etc.   | Call routing capability. No special requirement, | Call Server Feature - Low  | Call Server<br>Feature | Low  |
| 19 | Call Director (Call<br>Optimiser/advanced PSTN)                            | Uses the Network retranslation feature against the directory number in the terminating Call Server and then triggers the diverted call in the NGS to the IN for number translation and onward routeing. (Eg: If user calls from Liverpool, divert to Liverpool number)   |  | IN Inbound Service - High  | ASP                    | High |
| 20 | Call Diversion   | Call diversion Immediate, on Busy, or No-reply.  | As Indirect Access                               | Call Server Feature - Low  | Call Server<br>Feature | Low  |
| 21 | Call Diversion-Call Diversion<br>admin controlled                          | Configuration of a customer's line, by the<br>administration, to divert incoming calls either<br>immediately or when the call line is busy or<br>does not reply within a pre-defined period of<br>time   | As Indirect Access                               | Call Server Feature - Low  | Call Server<br>Feature | Low  |

| Same.  | Low  | Future |
|--|------|--------|
| Same.  | Low  | Future |
| Same. Better VoBB/VPN service offer substitute available in NGN. | High | Sunset |
| Same.  | Low  | Future |
| Same.  | High | Future |
| Same.  | Low  | Future |
| Same.  | Low  | Future |

| 22 | Call Diversion-Call Diversion<br>customer controlled | Customers may configure their lines to divert incoming calls to another destination of their choice. Diversion may be immediate or configured to work when the diverting line is busy or fails to answer an incoming call within a certain, administration set, period of time.  | As Indirect Access  | Call Server Feature - Low  | Call Server<br>Feature | Low    | Same.  | Low    | Future |
|----|--|--|---|--|------------------------|--------|--|--------|--------|
| 23 | Call Diversion-Remote Call<br>Forwarding             | Remote Call Forwarding (RCF) is typically used to allow a customer to advertise a geographical number related to an area in which they do not actually have a physical presence.   | As Indirect Access  | Call Server Feature - Low  | Call Server<br>Feature | Low    | Same.  | Low    | Future |
| 24 | Call Diversion-Smart Divert                          | A service enabling customers to change the diversion type and destination of a line from a remote location. The user dials a telephone number that gives access to the Remote Control of Supplementary Services facility on the diverting line's DLE/Call Server. The user is then able to set up or cancel diversion by use of the appropriate control codes. Operation of the service is protected by the use of a PIN as part of the control code sequence. |   | Medium -need an IVR  | Call Server<br>Feature | Medium | Same.  | Medium | Future |
| 25 | Call Sign  | Additional numbers provided against a customer's line which, when called, apply a ringing cadence distinct from the cadence applied when the main number is called. Two additional cadences are available each requiring a dedicated Call Sign number.   | As Indirect Access  | Call Server Feature - Low  | Call Server<br>Feature | Low    | Same.  | Low    | Future |
| 26 | Call Termination DLE                                 | These are calls originating from a CP and terminating on a BT line. This will be seen as a 'normal' call arriving from an NGS.   | Call routing capability. No special requirement,  | Low  | Call Server<br>Routing | Low    | Same.  | Low    | Future |
| 27 | Caller Display                                       | A service whereby a called customer receives the telephone number of the caller on dedicated caller display enabled CPE. The information is sent over the called customer's line using V.23 FSK signalling. If the calling customers telephone number is withheld or unavailable an appropriate text string is sent in its place.  |   | Medium   | Call Server<br>Feature | Medium | Same.  | Medium | Future |
| 28 | Caller Redirect                                      | Where a customer has had a change of number this facility may be provided against the vacated number to provide callers with an announcement advising them of the customer's new number. The announcement is played from the MAS-T.  |   | Medium -need an IVR  | ASP                    | Medium | Same.  | Medium | Future |
| 29 | Calls to Ported Numbers                              |  | Implemented using call forwarding with<br>the addition of network prefix to the<br>number. Ideally requires number<br>database in an NGN environment.<br>Uses routing based upon DLE origin.<br>Must not change traffic routings. | Cost of providing a central<br>number database and<br>network access to it. High | Regulatory             | High   | Same. Mechanism to identify ported numbers in/out BT were not discussed. Feature implementation in NGN with a central NP DB requires NP trigger provisioning on MGCF (or NGS). The routing is done based on the Location Routing Number (LRN). Industry-wide impact. | High   | Future |

| 30 | Carrier Pre Selection (CPS) | Customers can choose to have specific call<br>types routed via specified communications<br>providers.  | Uses routing based upon DLE origin.<br>Must not change traffic routings.  | Emulating the routing in the<br>NGN environment. High   | Regulatory             | High   |
|----|-----------------------------|--|---|---|------------------------|--------|
| 31 | Choose To Refuse            | Also called Last Incoming Call Barred (LICB). A Core IN service enabling users to bar incoming calls from particular numbers. The terminating Call Server performs triggering to the IN.   | Call routing capability. No special requirement,  | IN service in BT  | ASP                    | High   |
| 32 | CPS SAD calls               | This is Carrier Pre-selection - Same & Adjacent DLE. Pathfinder does not provide a routing solution equivalent to that existing in the legacy. Instead, 21C originated "SAD" calls will trombone via the SP network but by means of a billing solution, charge the SP at an appropriately discounted rate. |   | irrelevant to NGN as depends<br>on DLE structures. Hard to<br>replicate   | Interconnect           | High   |
| 33 | Direct Connect              | Fixed destination call. This will connect a caller to a single pre-programmed telephone number without the need to dial any digits.  | As Indirect Access  | Hotline, low with H.248, high with SIP.   | Line Control           | Low    |
| 34 | Direct to Fixed (OLO-BT)    | Normal basic incoming call functionality. Calls may be received via the legacy network or the NGN CC.  | Call routing capability. No special requirement, Uses BT transmission infrastructure to extend an interconnect cct form say an NGS node through to a DLE. | Line power. G.711 codecs,<br>high availability, disaster<br>recovery. Also charging<br>based upon the IP address<br>pairs used by the media.<br>Cost of terminating traffic to<br>TDM endpoints. High Cost. | Call Server<br>Routing | Low    |
| 35 | DQ118 Interconnect Calls    | Interconnect calls from OCPs to 118DQ SPs may route onto the 21C network via the NGN CC.   | Call routing capability. No special requirement,  | As Direct to Fixed but different charge rates/billing complexity. High  | Call Server<br>Routing | High   |
| 36 | DQ118 Transit               | Transit traffic from CPs to 118DQ SPs hosted<br>on OCP networks may be routed across the<br>21C Network.   | Call routing capability. No special requirement,  | As Direct to Fixed but different charge rates/billing complexity. High  | Call Server<br>Routing | High   |
| 37 | Freephone Transit           | Transit traffic may be possible using the NGN CC.  | Call routing capability. No special requirement,  | As Direct to Fixed but different charge rates/billing complexity. High  | Call Server<br>Routing | High   |
| 38 | IDD                         | International Direct Dial. Being able to call phones abroad without going through an operator.   | Requires routing to an IDD gateway<br>based upon country code. Also variable<br>number lengths incurring additional<br>PDD.                               | Issues with VBD as more IDD connections move to IP. Medium  | Call Server<br>Routing | Medium |

| Same. Generally, several carrier pre-select methods might be implemented (e.g., IN-based; digit analysis) to determine the carrier of record and the appropriate "cic=" parameter. Industry-wide impact.  | High   | Future |
|---|--------|--------|
| Feature is generally available in NGN using<br>enhanced Selective Call Rejection (SCR). Allow<br>the SCR subscriber to enter a dialed code which<br>causes the number of the last<br>incoming call, if available, to be placed on the<br>Selective Call Rejection Screening List.   | Medium | Future |
| Same. See feature #30. BT NGS limitation.   | High   | Future |
| Same. Many SIP Phones and some IADs support Hotline/Warmline functionality as an integrated capability, this feature provides the end user with a switch-based automatic dialing capability. Hotline functionality automatically dials a pre-provisioned DN when an immediate "off-hook" is detected. Warmline dials a pre-provisioned DN when an off-hook timeout with no dialed digits is detected. | Low    | Future |
| Same.   | Low    | Future |
| Same.   | High   | Future |
| Same.   | High   | Future |
| Same.   | High   | Future |
| Same.   | Medium | Future |

| 39 | IDD (to SMP routes from DISCs)         | The Digital International Switching centres will be accessed via a selected NGS for Pathfinder.   |   | Call Routing - Low   | Call Server<br>Routing | Low    |
|----|--|---|---|--|------------------------|--------|
| 40 | IDD Incoming Calls (incl.<br>ISDN)     | Calls arriving from other countries.  | Call routing capability. No special requirement,  | Issues with VBD as more IDD connections move to IP. Medium.  | Call Server<br>Routing | Medium |
| 41 | IDD Inter Tandem<br>Conveyance         | IDD transits will not involve 21C in iRE<br>timescales. Wholesale service for conveyance<br>of CP's traffic   |   | irrelevant to NGN as depends<br>on TDM transit layer<br>structures. Hard to replicate  | Interconnect           | High   |
| 42 | Inbound Calls                          | "Inbound" is an umbrella title for a number of<br>different services including non-geographic<br>numbers. Wholesale service for conveyance of<br>CP's traffic   | Call routing capability. No special requirement,  | Line power. G.711 codecs, high availability, disaster recovery. Also charging based upon the IP address pairs used by the media. Cost of terminating traffic to TDM endpoints. High Cost.      | Call Server<br>Routing | High   |
| 43 | inbound Calls-Protected<br>Number Plan | Protected Number Plan is a back up to Service Providers' (SP) advanced call routing service. A pre-arranged routing plan is agreed with each SP who takes this service, which can be invoked in the event of a serious ICM outage. The decision to invoke the plan will be taken by BT and will be prioritised by the Product Line. Wholesale service for conveyance of CP's traffic. | Requires IN translations  | IN service in BT   | ASP                    | High   |
| 44 | Inbound Services                       | In Bound Services [aka telemarketing Services]<br>is an umbrella title for a number of different<br>services including non-geographic numbers.<br>Wholesale service for conveyance of CP's<br>traffic   | Requires In translations  | IN platform required or<br>embedded in the NGN<br>platform. High   | ASP                    | High   |
| 45 | Indirect Access                        | Customer manually prefixes Indirect access codes to their called numbers.   | Done using the IN. Overlap sending required as no analysis undertaken of the called number. Need also to route on DLE origin. | Overlap sending support required in SIP. No clear agreed mechanism in internatioanl standards but UK specific solutions exist for SIP-I. Also need to include DLE origin in the routing. High. | Regulatory             | High   |
| 46 | Indirect Access 3rd Party<br>Handover  | An ability to handle IA calls and to route to a<br>TDM link belonging to another (3rd party)<br>operator. Wholesale service for conveyance of<br>CP's traffic   | As Indirect Access  | As Indirect access but additional complexity due to billing. Low   | Interconnect           | Low    |

| Same.  | Low    | Future       |
|--|--------|--------------|
| Same.  | Medium | Transitional |
| Same.  | High   | Sunset       |
| BT interconnect and billing implementation<br>specifics. Capabilities, otherwise, are generally<br>supported in NGN  | Medium | Future       |
| Same.  | High   | Future       |
| Same. See also Feature #42   | High   | Future       |
| The overlap sending feature is designed to reduce end-of-dialing delay when the caller's UE digit map is not able to identify a completely dialed destination number. In such cases, the UE typically waits for an inter-digit timer to expire before sending an INVITE request with the collected digits. Since the inter-digit timeout value is typically several seconds long, the caller may perceive that call setup is taking a long time. Solutions leveraging the "in-dialog" method as described in TS 183 056 and TS 183 043 are available in marketplace. |        | Future       |
| Same.  | Low    | Future       |

| 47 | Indirect Access Transit Calls                                 | The Indirect Access Transit products allow end user customers access to third party networks and service providers by means of dialing a unique access code in the form of 1XX(X). The access call is routed via the routing plan agreed between the Originating Network Operator and BT for the incoming route and for the outgoing route, between the IA Operator and BT. The caller is not charged for the access call. Transit calls will not be supported on Pathfinder. Not expected across the NGN CC with iRE. |  | As Indirect access but additional complexity due to billing. Low                      | Interconnect           | Low  |
|----|---|--|--|---|------------------------|------|
|    | Indirect Conveyance-Indirect<br>Access                        | A form of Indirect Access. Wholesale service for conveyance of CP's traffic  | As Indirect Access   | As Indirect access but additional complexity due to billing. Low                      | Regulatory             | Low  |
| 49 | Indirect Conveyance   | A form of Indirect Access. Wholesale service for conveyance of CP's traffic  | As Indirect Access   | As Indirect access but additional complexity due to billing. Low                      | Regulatory             | Low  |
|    | Indirect Conveyance-Indirect to CPS (BT-OLO)                  | A form of Indirect Access. Wholesale service for<br>conveyance of CP's traffic   |  | As Indirect access but additional complexity due to billing. Low                      | Regulatory             | Low  |
|    | Indirect Conveyance-Indirect to Fixed (BT-OLO)                | A form of Indirect Access. Wholesale service for conveyance of CP's traffic  |  | As Indirect access but additional complexity due to billing. Low                      | Regulatory             | Low  |
|    | Indirect Conveyance-Indirect to Freefone (BT-OLO)             | A form of Indirect Access. Wholesale service for<br>conveyance of CP's traffic   |  | As Indirect access but additional complexity due to billing. Low                      | Regulatory             | Low  |
|    | Intelligent Network Services Call Minder Feature interworking | With Pathfinder and beyond this feature will be<br>performed by the Call Server and not the IN.  | Done using the IN.   | Requires a platform solution<br>or an IN. Needs development.<br>Medium                | ASP                    | High |
| 54 | Inter Tandem Conveyance                                       | Inter Tandem Conveyancing is not expected with IRE but is a possibility with the NGN CC. If this is offered then it would be as IP to IP only. Wholesale service for conveyance of CP's traffic.   |  | irrelevant to NGN as depends<br>on TDM transit layer<br>structures. Hard to replicate | Interconnect           | High |
| 55 | Interconnect Extension<br>Circuits                            | An Interconnect Extension Circuit (IEC) is a connection (forming part of the 2 Mbit/s In Span Interconnect ISI/ In Building Interconnect IBI Interconnect Link) between the Multiplexor in a Remote Switch Connection, and the Multiplexor terminating the ISI/IBI Interconnect Link. Wholesale service for conveyance of CP's traffic.  | Uses BT transmission infrastructure to extend an interconnect cct from say an NGS node through to a DLE. | N/A.  | Interconnect           | Low  |
|    | International BT business<br>voice                            | A BT managed service for corporate multi-site customers using BT's Core network, DISCs, and with VPN functionality across many other countries.  |  | Call Routing - Low  | Call Server<br>Routing | Low  |
| 57 | International Freefone 0800                                   | An International Freefone number enables a<br>caller to contact a business free of charge from<br>overseas countries. The receiver of the call<br>pays all of the call charge.   |  | IN service in BT  | ASP                    | High |

| Same.   | Low      | Future |
|---|----------|--------|
|   |          |        |
|   |          |        |
|   |          |        |
|   |          |        |
|   |          |        |
| Same.   | Low      | Future |
|   |          | - ·    |
| Same.   | Low      | Future |
| Same.   | Low      | Future |
| Same  | High     | Future |
| Same and irrelevant in NGN.   | High     | Sunset |
|   |          |        |
| Same.   | Low      | Sunset |
|   |          |        |
|   |          |        |
|   |          |        |
|   |          |        |
| Same. New capabilities in NGN such as VPN Dialing and Display (VDD) allows subscribers (who | Low      | Future |
| are presumed to be members of a company or enterprise) to dial using VPN                    |          |        |
| numbers and display the VPN numbers for calling and called line numbers are available in    |          |        |
| marketplace.<br>Same.   | High     | Future |
|   | <b>.</b> |        |
|   |          |        |

| 58 | International Interconnect<br>Calls                   | Ability for OCPs to route calls to the BT DISCs  | As per IDD calls.   | Same as Outgoing IDD calls but the addition of wholesale billing.   | Call Server<br>Routing | Low  |
|----|---|--|---|---|------------------------|------|
| 59 | IPCC (IP contact centres)                             | MM VOIP based termination accessed by PSTN<br>end users via the ICM BT Gain similar to the<br>ICM. Uses the IN. triggering and IVR located in<br>the PSTN for iRE. Wholesale service for<br>conveyance of CP's traffic.      | Wholesale billing required for call conveyance.   | IN service in BT  | ASP                    | High |
| 60 | Local Tandem Conveyance                               | 20C Billing Capability enabling wholesale billing differentiation based on Call Conveyance. On 21C will be replicated using a frozen Element Based charging matrix. Wholesale service for conveyance of CP's traffic.        | Wholesale billing required for call conveynace. As per Indirect Access  | N/A. Legacy related.  | Interconnect           | High |
| 61 | Network Controlled Calling                            | Restricted Outgoing Access for Aged &<br>Disabled customers who make involuntary<br>nuisance calls.  | Number blocks allocated to DLEs and Concs.  | High to replicate but very low volumes.   | Call Server<br>Feature | High |
| 62 | NTS 3rd Party Handover                                | As per IA  | As per Indirect Access  | As per Indirect Access  | Interconnect           | High |
| 63 | Number Allocation &<br>Selection                      | Standard E164 Numbering and DLE based geographic allocation  | Number blocks allocated to DLEs and Concs.  | No association with DLEs and Cons in an NGN environment. Complicates call charging. Changes the way that routing is done. High. | Regulatory             | High |
| 64 | Reminder Call   | Customers may use control codes to schedule a<br>reminder call initiated from the network at a pre-<br>determined time.  |   | Call Server Feature - Low   | Call Server<br>Feature | Low  |
| 65 | Ring Back-Bar use of Ring<br>Back on a line           | Configuration of customers' lines such that the<br>Ring Back When Free service is not available.   |   | High RBWF interworking is<br>based on DPNSS - legacy  | Call Server<br>Feature | High |
|    | Ring Back-Bar use of Ring<br>Back to a line (inhibit) | A terminating line service which denies callers<br>the ability to set up a Ring Back When Fee call<br>to a busy line configured with the service.<br>Callers who attempt to invoke RBWF receive a<br>rejection announcement. | Charges for calls in line wth the<br>number of "hops" and distances from<br>interconnect through to interconnect. | High RBWF interworking is<br>based on DPNSS - legacy  | Call Server<br>Feature | High |
| 67 | Ring Back-Remove Ring Back<br>(prompted)              | Configuration of a line such that it receives<br>standard busy tone rather than busy tone<br>interspersed with a prompted ring back<br>announcement when outgoing calls encounter a<br>busy destination                      | Charges for calls in line wth the<br>number of "hops" and distances from<br>interconnect through to interconnect. | High RBWF interworking is<br>based on DPNSS - legacy  | Call Server<br>Feature | High |

| Same.  | Low    | Future       |
|--|--------|--------------|
| Same.  | High   | Future       |
| N/A. Irrelevant in NGN   | High   | Sunset       |
| Variants of Outgoing Call Barring (OCB) are available in NGN to support this feature. Example implementation includes the following: restricting calling to destinations within certain blocking categories (for example: all calls, all local calls, all long distance calls, and so on). Determination of the category of a dialed destination address comes from provisioning of call type in digit analysis. Call barring operates by checking to see if the call category determined by digit analysis is one of the categories blocked for the calling subscriber. | Medium | Future       |
| Same.  | High   | Future       |
| Same. Administrative feature.  | Hìgh   | Sunset       |
| Same.  | Low    | Future       |
| Same. Note that NGS must support signaling gateway functionality that can provide protocol interworking between say, SIP Subscribe or Notify messages, and PSTN signaling messages to support CCBS between an IMS subscriber and a PSTN subscriber.  | High   | Transitional |
| Same as Feature #63.   | High   | Transitional |
| Same as Feature #63.   | High   | Transitional |

|    | Single & Double Tandem<br>Transit-OLO to OLO Transit<br>Mobile Number Portability | 20 C Billing Capability enabling wholesale billing differentiation based on Call Conveyance. Wholesale service for conveyance of CP's traffic.   | Charges for calls in line wth the<br>number of "hops" and distances from<br>interconnect through to interconnect. | Single and double tandem<br>does not exist in an NGN<br>environment. Need a new<br>billing solution on ingress ans<br>egress IP addresses or a a<br>blended rate? High | Interconnect | High |
|----|---|--|---|--|--------------|------|
| 69 | Single & Double Tandem<br>Transit-OLO to OLO Transit to<br>Fixed                  | 20 C Billing Capability enabling wholesale billing differentiation based on Call Conveyance. Wholesale service for conveyance of CP's traffic.   | Charges for calls in line wth the<br>number of "hops" and distances from<br>interconnect through to interconnect. | Single and double tandem<br>does not exist in an NGN<br>environment. Need a new<br>billing solution on ingress ans<br>egress IP addresses or a a<br>blended rate? High | Interconnect | High |
| 70 | Single & Double Tandem<br>Transit-OLO to OLO Transit to<br>LRCS                   | 20 C Billing Capability enabling wholesale billing<br>differentiation based on Call Conveyance.<br>Wholesale service for conveyance of CP's<br>traffic.  | Charges for calls in line wth the<br>number of "hops" and distances from<br>interconnect through to interconnect. | Single and double tandem<br>does not exist in an NGN<br>environment. Need a new<br>billing solution on ingress ans<br>egress IP addresses or a a<br>blended rate? High | Interconnect | High |
|    | Mobile  | 20 C Billing Capability enabling wholesale billing differentiation based on Call Conveyance. Wholesale service for conveyance of CP's traffic.   | Charges for calls in line wth the<br>number of "hops" and distances from<br>interconnect through to interconnect. | Single and double tandem<br>does not exist in an NGN<br>environment. Need a new<br>billing solution on ingress ans<br>egress IP addresses or a a<br>blended rate? High | Interconnect | High |
| 72 | National call   | 20 C Billing Capability enabling wholesale billing differentiation based on Call Conveyance. Wholesale service for conveyance of CP's traffic.   | Charges for calls in line wth the<br>number of "hops" and distances from<br>interconnect through to interconnect. | Single and double tandem<br>does not exist in an NGN<br>environment. Need a new<br>billing solution on ingress ans<br>egress IP addresses or a a<br>blended rate? High | Interconnect | High |
| 73 | Other   | 20 C Billing Capability enabling wholesale billing differentiation based on Call Conveyance. Wholesale service for conveyance of CP's traffic.   | Charges for calls in line wth the<br>number of "hops" and distances from<br>interconnect through to interconnect. | Single and double tandem<br>does not exist in an NGN<br>environment. Need a new<br>billing solution on ingress ans<br>egress IP addresses or a a<br>blended rate? High | Interconnect | High |
| 74 |   | A Universal Freefone number enables a caller<br>to contact a business free of charge from<br>overseas countries. The receiver of the call<br>pays all of the call charge.  | Routing plan per CP for routing of calls to CPs   | IN service in BT   | ASP          | High |
| 75 | 1471 Extra  | BT implementation is IN service  |   | IN service in BT   | ASP          | High |
| 76 | 15x Service Access  | A set of access codes used by BT and OCPs enabling users to access service functions. Such calls are service addressed and delivered into the legacy network. When used by an OCP on a BT WLR etc the 15X service uses a Trunk layer IN triggering solution to route the call to the appropriate CP. |   | high - routing based on WLR<br>operator not the call operator.<br>IN service in BT   | ASP          | High |

| Same. N/A   | Lliab  | Transitional |
|---|--------|--------------|
|   | High   |              |
| Same. N/A   | High   | Transitional |
| Same.   | High   | Future       |
| Customer dials 1471 to find out the telephone<br>number of the last person who called you (unless<br>the number is withheld, unavailable or came from<br>a switchboard extension number). BT specific, but<br>generally available in NGN. | Medium | Future       |
| Same. Network feature   | High   | Future       |

| 77 Anonymous Call Rejection  | Terminating line based function. When the<br>service is active, callers receive a rejection<br>announcement if they have withheld their phone<br>number from the called party.   |  | Call Server Feature - Low   | Call Server<br>Feature | Low    | Same.   | Low    | Future |
|--|--|--|-----------------------------|------------------------|--------|---|--------|--------|
| 78 Auxiliary Line  | "Auxiliary lines" is a term used to describe hunt group functionality, e.g. provide a main number with n additional auxiliary lines. The functionality to hunt over such a group of lines is contained within the Call Server.   |  | Call Server Feature - Low   | Call Server<br>Feature | Low    | Same. Also known as MultiLine Hunt Groups (MLHGs), this feature provides a method to distribute incoming calls among idle positions within a predefined group of lines. | Low    | Future |
| 79 BT Click 3rd Parties  | Consumer NB internet service. No registration<br>PAYG service that is sold through 3rd parties.  |  | VBD - not relevant anymore? | VBD                    | High   | Same. Irrelevant  | High   | Sunset |
| 80 Bypass Number   | An additional directory number provided against a line that allows callers to "bypass" certain network services that may be active against the main number. For example, such incoming calls will bypass diversion, rejection by call barring features, or access a specific line in a hunt group. | Refers to the type of physical interconnection.            | Call Server Feature - Low   | Call Server<br>Feature | Low    | Same.   | Low    | Future |
| 81 Call Return 1471-1471 Barring   | The ability to use the 1471 return call is enabled by provision of the service by the administration. If this ability is not enabled use of the 1471 facility is effectively barred, however, 1471 is normally included as a default service when lines are provided.                              |  | Medium - needs an IVR       | ASP                    | Medium | Same.   | Medium | Future |
| 82 Call Return 1471-1471 Call<br>Return                                    | Standard line service that permits the CLI of the<br>last caller to be read out to the customer.<br>Keying a '3' will then initiate a return call to the<br>stored number.   |  | Medium - needs an IVR       | ASP                    | Medium | Same.   | Medium | Future |
| 83 CLI Withholding (141 / 1470<br>barring etc)1475 Call Return<br>erasure  | A facility whereby a user can erase details of the last incoming call stored by the 1471 Call Return service. 1475 routes a call to a remote service platform served from the legacy. This calls the user back with an anonymous call thereby overwriting the number stored by Call Return.        |  | Call Server Feature - Low   | Call Server<br>Feature | Low    | Same.   | Low    | Future |
| 84 CLI Withholding (141 / 1470<br>barring etc)Bar use of 141<br>on a line  | The ability to use the 141 facility to withhold CLI is enabled by provision of the service by the administration. If this ability is not enabled use of the 141 facility is effectively barred.  | More of a business feature but available on WLR3 analogue. | Call Server Feature - Low   | Call Server<br>Feature | Low    | Same.   | Low    | Future |
| 85 CLI Withholding (141 / 1470<br>barring etc)Bar use of 1470<br>on a line | The ability to use the 1470 facility to release CLI is enabled by provision of the service by the administration. If this ability is not enabled use of the 1470 facility is effectively barred.   |  | Call Server Feature - Low   | Call Server<br>Feature | Low    | Same.   | Low    | Future |
| 86 CLI Withholding (141 / 1470<br>barring etc)Permanent<br>number withhold | Lines may be configured to either release CLI to, or withhold CLI from, called destinations.   |  | Call Server Feature - Low   | Call Server<br>Feature | Low    | Same.   | Low    | Future |

| 87 | CLI Withholding (141 / 1470<br>barring etc)Release number<br>on a per call basis (1470) | Lines which have been configured to withhold CLI by default may be provided with the facility for users to prefix dialled numbers with the digits 1470 in order to release CLI on a per call basis.   |   | Call Server Feature - Low   | Call Server<br>Feature | Low    |
|----|---|---|---|---|------------------------|--------|
| 88 | CLI Withholding (141 / 1470<br>barring etc)Withhold number<br>on a per call basis (141) | Lines which have been configured to release<br>CLI by default may be provided with the facility<br>for users to prefix dialled numbers with the<br>digits 141 in order to withhold CLI on a per call<br>basis.  |   | Call Server Feature - Low   | Call Server<br>Feature | Low    |
| 89 | Custodial Tagging Line  | Requires a separate PSTN business line to be<br>ordered by the Home Office. For Custodial<br>Tagging, this line is provided with the following<br>facilities:   |   | Service wrap feature  | N/A                    | N/A    |
| 90 | Fixed Line SMS  | Text messaging to and from fixed lines. Uses caller display FSK signalling to initiate an answer from the SMS enabled CPE but actual text message is delivered in band, using FSK signalling, from a remote SMS service platform.   |   | VBD - High  | VBD                    | High   |
| 91 | Howler  | Lines which have been configured to withhold<br>CLI by default may be provided with the facility<br>for users to prefix dialled numbers with the<br>digits 1470 in order to release CLI on a per call<br>basis.   |   | Line feature controlled by<br>ATA or line card - Low  | Line Control           | Low    |
| 92 | In Span Interconnect (ISI)  | The Point Of Connection (POC) for ISI is the footway box where the cable from the OLO is provided   | Refers to the type of physical interconnection.   | Fewer ISI required. Low. CPs<br>don't have connectivity<br>through to BT's NGN sites but<br>connectivty to the legacy sites<br>exists.    | Interconnect           | Low    |
| 93 | Indirect Access - Route to<br>Credit Control  | This service is provided for SP customers who have not paid their bills. When activated on a WA line, a caller can make calls to a very limited set of numbers, eg 999/112. However, calls to all other numbers are automatically routed to the Credit Control department of the SP.                    | Requires routing to the WLR provider<br>for the line if the customer dials a<br>chargebale number. Done via the IN.<br>Requires an IN? Per customer profiles. | Requires origin based routing<br>on a per line basis. Medium.   | ASP                    | Medium |
| 94 | Loop Disconnect Dialling-<br>Loop Disconnect (LD)                                       | An analogue method of signalling digits from<br>customers' CPE to the MSAN termination using<br>loop disconnections sent at 10 pulses per<br>second.  |   | Line feature controlled by<br>ATA or line card - Low  | Line Control           | Low    |
| 95 | Number Portability-<br>Geographic Number<br>Portability                                 | Normal Telephone number portability   | Openreach provide this capability on legacy.  | Inteworking with existing<br>number porting capability. Co-<br>ordination between CPs.<br>Medium/high. Depends upon<br>the product model. | Regulatory             | Medium |
| 96 | Number Portability- Non<br>Geographic Number<br>Portability                             | A regulatory requirement whereby customers may transfer their business between communications providers without requiring a change of directory number (DN) as long as certain geographic criteria are met. This covers the concept of both BT DNs ported-out to other SPs, and SP DNs ported-in to BT. | GS provide this capability on legacy.   | Need an IN platform and co-<br>ordination between<br>CPsMedium/high. Depends<br>upon the product model                                    | Regulatory             | Medium |

| Same.  | Low    | Future |
|--|--------|--------|
| Same.  | Low    | Future |
| N/A  | N/A    | N/A    |
| Same. Feature is also dependent on CPE capability. Better substitute in NGN.   | High   | Sunset |
| Same.  | Low    | Future |
| Same.  | Low    | Future |
| Features such as Hotline, Outgoing Call Barring are generally available in NGN | Low    | Future |
| Same.  | Low    | Future |
| Same.  | Medium | Future |
| Same.  | Medium | Future |

| 97  |  | A regulatory requirement whereby customers may transfer their business between communications providers without requiring a change of directory number (DN) as long as certain geographic criteria are met. This covers the concept of both BT DNs ported-out to other SPs, and SP DNs ported-in to BT.  | Duplicate  | Duplicate  | N/A                    | N/A    | As above (96). Duplicate  | N/A    | Future |
|-----|--|--|--|--|------------------------|--------|---|--------|--------|
| 98  | Numbering Plan   | This is the Numbering plan that we use in the<br>PSTN. The 21C Voice services will use the<br>same numbering plan as the PSTN.   | Routing plan per CP for routing of calls to CPs            | If we have to use the same numbering plans then this is high.              | Interconnect           | High   | Same. NGN offers more flexibility in terms of<br>number assignments. Restricting number<br>assignment to reflect PSTN will be costly.   | High   | Future |
| 99  |  | RIDE will be accessed via the PSTN for<br>Pathfinder   |  | Tele voting ASP solution in BT. Performance issues. Medium                 | ASP                    | Medium | Same.   | Medium | Future |
| 100 | Presentation Number  | An additional telephone number provided for<br>interworking with CLI reporting services such as<br>Caller Display and Return Call. Where a<br>presentation number has been provided it will<br>be displayed rather than the network/billing<br>number associated with the calling line.  | More of a business feature but available on WLR3 analogue. | transporting and presenting is low.  | Call Server<br>Feature | Low    | Same.   | Low    | Future |
| 101 |  | A facility whereby a customer engaged on a call can make an enquiry call to a third party. The customer then has the ability to toggle between the original call and the enquiry call or to connect all three parties in a conference. The controlling line may then release either or both of the other parties by means of control codes.  |  | Call Server Feature - Low  | Call Server<br>Feature | Low    | Same.   | Low    | Future |
| 102 |  | Originally called the speaking clock, the<br>Timeline service is delivered from the RIDE<br>service platform that is accessed via a service<br>addressed routing. The access code is 123.  |  | call routing to service hosted<br>on RIDE (ASP platform)                   | ASP                    | Low    | Same.   | Low    | Future |
| 103 | Select Services-Customer<br>Originated Trace   | COT enables a customer to produce a printed record, available to the administration, of a call in progress, or a call recently completed. The record contains details of the parties involved in the call and may be used, for example, in the investigation of malicious calls. The service is invoked during a call by using the recall facility and dialling a service code or by dialling the service code shortly after the call has completed. | bespoke development for COT on last answered call          | medium not off the shelf   | Regulatory             | Medium | BT implementation specific. Service is generally available in NGN leveraging Customer Originated Trace (COT) or Malicious Call Identification (MCI) features. A customer who wants to trace the number of a harassing phone call uses this feature in a one-shot fashion. COT can either be executed mid-call, by flashing and dialing the COT activation code, or executed after a call by originating and dialing the activation code. The Malicious Call Identification feature enhances the COT capability. |        | Future |
| 104 | Select Services-Recall, Call<br>Hold & Mid-Call Access to<br>Services                                | The recall facility enables users to place an<br>existing call on hold, obtain secondary dial tone<br>and make an enquiry call. It is an enabler for a<br>number of other services e.g. Call Waiting,<br>Three Party Call etc.   |  | depends on architecture. Not<br>available in native SIP. Low<br>for H.248. | Line Control           | Low    | Same.   | Low    | Future |
| 105 | Wholesale Access :- Analogue<br>Select Services-Wholesale<br>Access Feature :- Admin Call<br>Barring | For ICB the customer's line is configured to bar<br>all incoming calls   |  | Wholesale duplicate of<br>service covered elsewhere                        | Call Server<br>Feature | Low    | Same.   | Low    | Future |

| Select Services-Wholesale<br>Access Feature :- Bar Use of                | This is the CORE IN service version of 1471 that stores the CLI of the last 5 callers. Service announcements are played on the MAS-T equipment co-located with the CS.  | Wholesale duplicate of<br>service covered elsewhere | Call Server<br>Feature | Low    | Same.  | Low    | Future |
|--|---|---|------------------------|--------|--|--------|--------|
| Select Services-Wholesale<br>Access Feature :- Bar use of                | This is Outging Call Barring (OCB) category 4. Operator calls (100) and 118xxx (DQ) are barred but 999, 112, 150, 151, 152, 154 are allowed.  | Wholesale duplicate of<br>service covered elsewhere | Call Server<br>Feature | Low    | Same.  | Low    | Future |
| Select Services-Wholesale<br>Access Feature :- Bar use of<br>Call Return | Sub Product Name incomplete. Therefore it is<br>not certain exactly which barring variant is being<br>referred to. However, all required ICB and OCB<br>variants are known to be covered by Sep 06<br>delivery.   | Wholesale duplicate of<br>service covered elsewhere | Call Server<br>Feature | Low    | Same.  | Low    | Future |
|  | Service is covered by administration controlled<br>& customer controlled incoming and outgoing<br>call barring  | Wholesale duplicate of<br>service covered elsewhere | Call Server<br>Feature | Low    | Same.  | Low    | Future |
|  | Service is covered by administration controlled & customer controlled incoming and outgoing call barring  | Wholesale duplicate of<br>service covered elsewhere | Call Server<br>Feature | Low    | Same.  | Low    | Future |
| Select Services-Wholesale<br>Access Feature :- Call<br>Diversion         | Customers may configure their lines to divert incoming calls to another destination of their choice. Diversion may be immediate or configured to work when the diverting line is busy or fails to answer an incoming call within a certain, administration set, period of time. | Wholesale duplicate of<br>service covered elsewhere | Call Server<br>Feature | Low    | Same.  | Low    | Future |
| Select Services-Wholesale<br>Access Feature :- Call Return               | Standard line service that permits the CLI of the<br>last caller to be read out to the customer.<br>Keying a '3' will then initiate a return call to the<br>stored number   | Wholesale duplicate of<br>service covered elsewhere | Interworking           | Medium | Same.  | Medium | Future |
| Select Services-Wholesale  | A facility whereby a user can erase details of<br>the last incoming call stored by the 1471 Call<br>Return service.   | Wholesale duplicate of<br>service covered elsewhere | Regulatory             | Low    | Same.  | Low    | Future |
| Select Services-Wholesale<br>Access Feature :- Call Sign                 | Additional numbers provided against a customer's line which, when called, apply a ringing cadence distinct from the cadence applied when the main number is called. Two additional cadences are available each requiring a dedicated Call Sign number associated with it.       | Wholesale duplicate of<br>service covered elsewhere | Call Server<br>Feature | Low    | Same. Generally available in industry a.k.a. Distinctive Ringing. The distinctive ringing with call waiting feature is highly dependent on the capabilities of the endpoint. For example, an advanced SIP endpoint provides the call waiting feature itself and although the Call Server sends a distinctive ringing indication to the endpoint, the endpoint can choose to use that information to apply the appropriate call waiting tone. | Low    | Future |

| 115 | Wholesale Access :- Analoque | A service that enables a customer who is   | Wholesale duplicate of                              | Call Server | Low    | Same.   | Low | Future |
|-----|------------------------------|--|---|-------------|--------|---|-----|--------|
|     | Select Services-Wholesale    | engaged on a call to be alerted, by means of inband tones, to a subsequent call to his number. | service covered elsewhere                           | Feature     |        |   |     |        |
| I   | · ·                          | The customer may then ignore the call or   |   |             |        |   |     |        |
|     |                              | accept the waiting call by using recall. If the  |   |             |        |   |     |        |
|     |                              | waiting call is accepted the called user may   |   |             |        |   |     |        |
|     |                              | toggle between the new call and the original   |   |             |        |   |     |        |
|     |                              | call. The waiting call is played an  |   |             |        |   |     |        |
|     |                              | announcement to indicate that the called   |   |             |        |   |     |        |
|     |                              | number has been made aware of its existence.   |   |             |        |   |     |        |
| 116 | Wholesale Access :- Analogue | A service whereby a called customer receives   | Wholesale duplicate of                              | Call Server | Low    | Same.   | Low | Future |
|     | Select Services-Wholesale    | the telephone number of the caller on dedicated  | service covered elsewhere                           | Feature     |        |   |     |        |
|     | Access Feature :- Caller     | caller display enabled CPE. The information is   |   |             |        |   |     |        |
|     |                              | sent over the called customer's line using V.23  |   |             |        |   |     |        |
|     |                              | FSK signalling. If the calling customer's  |   |             |        |   |     |        |
|     |                              | telephone number is withheld or unavailable an   |   |             |        |   |     |        |
|     |                              | appropriate text string is sent in its place.  |   |             |        |   |     |        |
| 117 |                              | Where a customer has had a change of number  | Wholesale duplicate of                              | Call Server | Medium | Generally available in NGN. AKA Intercept   | Low | Future |
|     | Select Services-Wholesale    | this facility may be provided against the vacated  | service covered elsewhere                           | Feature     |        | Referral. The intercept referral feature plays an   |     |        |
|     |                              | number to provide callers with an  |   |             |        | announcement that can supply a new or changed   |     |        |
|     |                              | announcement advising them of the customer's   |   |             |        | number when a call is received for a subscriber   |     |        |
|     |                              | new number. The service announcement is  |   |             |        | who has moved or changed numbers.   |     |        |
|     |                              | played from the MAS-T.   |   |             |        |   |     |        |
| 118 |                              | A Core IN service enabling users to bar  | Wholesale duplicate of                              | ASP         | High   | Feature is generally available in NGN using   | Low | Future |
|     |                              | incoming calls from particular numbers. The  | service covered elsewhere                           |             |        | enhanced Selective Call Rejection (SCR). Allow  |     |        |
|     |                              | service announcements are played from the  |   |             |        | the SCR subscriber to enter a dialed code which   |     |        |
|     | Refuse                       | MAS-T.   |   |             |        | causes the number of the last   |     |        |
|     |                              |  |   |             |        | incoming call, if available, to be placed on the  |     |        |
| 440 |                              |  | MI  | 100         | 1.00   | Selective Call Rejection Screening List.  |     | F .    |
| 119 |                              | A Choose to Refuse service feature. The service interaction announcements are handled          | Wholesale duplicate of<br>service covered elsewhere | ASP         | High   | Feature is generally available in NGN using<br>enhanced Selective Call Rejection (SCR). Allow | Low | Future |
|     |                              | by the MAS-T.  | service covered eisewhere                           |             |        | the SCR subscriber to enter a dialed code which   |     |        |
|     | Refuse PIN Number Chan       | by the MAS-1.  |   |             |        | causes the number of the last   |     |        |
|     | Refuse Pin Number Chan       |  |   |             |        | incoming call, if available, to be placed on the  |     |        |
|     |                              |  |   |             |        | Selective Call Rejection Screening List.  |     |        |
| 120 |                              | Service covered by administration controlled   | Wholesale duplicate of                              | Call Server | Low    | Same.   | Low | Future |
|     |                              | and customer controlled ICB  | service covered elsewhere                           | Feature     |        |   |     |        |
|     | Access Feature :- ICB        |  |   |             |        |   |     |        |
| 121 |                              | Covered by the administration controlled OCB   | Wholesale duplicate of                              | ASP         | Low    | Same.   | Low | Future |
|     |                              | service. OCB features are impacted by  | service covered elsewhere                           |             |        |   |     |        |
|     |                              | FRN002.  |   |             |        |   |     |        |
|     | Management                   |  |   |             |        |   |     |        |
| 122 |                              | A Choose to Refuse service feature. The  | Wholesale duplicate of                              | Call Server | Low    | Same.   | Low | Future |
|     |                              | service interaction announcements are handled  | service covered elsewhere                           | Feature     |        |   |     |        |
|     | 7.00000 1 Outui 0 1 OOD 10.  | by the MAS-T.  |   |             |        |   |     |        |
|     | Premium Rate Services an     |  |   |             |        |   |     |        |
| 1   |                              |  |   |             |        |   |     |        |
|     |                              |  |   |             |        |   |     |        |

|     | Select Services-Wholesale<br>Access Feature :-<br>Presentation Number  | An additional telephone number provided for<br>interworking with CLI reporting services such as<br>Caller Display and Return Call. Where a<br>presentation number has been provided it will<br>be displayed rather than the network/billing<br>number associated with the calling line.  |   | Wholesale duplicate of<br>service covered elsewhere | Call Server<br>Feature | Low    | Same. | Low    | Future |
|-----|--|--|---|---|------------------------|--------|-------|--------|--------|
| 124 | Select Services-Wholesale<br>Access Feature :- Prompted<br>Ring Back Removal                                   | Configuration of a line such that it receives<br>standard busy tone rather than busy tone<br>interspersed with a prompted ring back<br>announcement when outgoing calls encounter a<br>busy destination.   |   | Wholesale duplicate of<br>service covered elsewhere | Call Server<br>Feature | Low    | Same. | Low    | Future |
|     | Select Services-Wholesale<br>Access Feature :- Reminder<br>Call  | Customers may use control codes to schedule a<br>reminder call initiated from the network at a pre-<br>determined time.  |   | Wholesale duplicate of<br>service covered elsewhere | Call Server<br>Feature | Low    | Same. | Low    | Future |
| 126 | Wholesale Access :- Analogue   | The pay-per-use aspect of the Reminder Call service is a feature of the billing system.  |   | Wholesale duplicate of<br>service covered elsewhere | N/A                    | Low    | Same. | Low    | Future |
| 127 | Wholesale Access :- Analogue<br>Select Services-Wholesale<br>Access Feature :- Remote Call<br>Forwarding (RCF) | The WA version of RCF. See description in row<br>Error! Reference source not found   |   | Wholesale duplicate of<br>service covered elsewhere | Call Server<br>Feature | Low    | Same. | Low    | Future |
| 128 | Wholesale Access :- Analogue<br>Select Services-Wholesale<br>Access Feature :- Removal of<br>Ring back         | Configuration of customers' lines such that the<br>Ring Back When Free service is not available.   | Check with John Morden. Requires<br>VBD support. See text Direct for the<br>issues. Done with IN and includes<br>gaping controls. | Wholesale duplicate of<br>service covered elsewhere | Call Server<br>Feature | High   | Same. | High   | Future |
| 129 | Select Services-Wholesale  | A terminating line service which denies callers<br>the ability to set up a Rng Back When Fee call<br>to a busy line configured with the service.<br>Callers who attempt to invoke RBWF receive a<br>rejection announcement.  |   | Wholesale duplicate of<br>service covered elsewhere | Call Server<br>Feature | High   | Same. | High   | Future |
| 130 | Select Services-Wholesale<br>Access Feature :- Ring Back<br>When Free  | On encountering a busy destination a user may enter a digit to invoke the Ring Back When Free service. When the previously busy destination becomes free, the original caller is automatically rung by the service. On answering this ring back, the caller is connected to the previously busy destination. Thereafter the call proceeds as a normal call.  |   | Wholesale duplicate of<br>service covered elsewhere | Call Server<br>Feature | High   | Same. | High   | Future |
| 131 | Select Services-Wholesale<br>Access Feature :- Smart<br>Divert   | A service enabling customers to change the diversion type and destination of a line from a remote location. The user dials a telephone number that gives access to the Remote Control of Supplementary Services facility on the DLE/Call Server associated with the diverting line. The user is then able to set up or cancel diversion by use of the appropriate control codes. Operation of the service is protected by the use of a PIN as part of the control code sequence. |   | Wholesale duplicate of<br>service covered elsewhere | Call Server<br>Feature | Medium | Same. | Medium | Future |

| 132 | Wholesale Access :- Analogue<br>Select Services-Wholesale<br>Access Feature :- Smart<br>Divert + Bypass Number   | A combination of the services described in rows 114 and 10.  | Line reversal required and support for CPC Payphone. | Wholesale duplicate of service covered elsewhere  | Call Server<br>Feature | Low    |
|-----|--|--|--|---|------------------------|--------|
| 133 | Wholesale Access :- Analogue<br>Select Services-Wholesale<br>Access Feature :- Smart<br>Divert PIN Number Change | A variant of Remote Control of Diversion service.  |  | Wholesale duplicate of service covered elsewhere  | Call Server<br>Feature | Medium |
| 134 | Wholesale Access :- Analogue<br>Select Services-Wholesale<br>Access Feature :- Three Way<br>Calling Access       | A facility whereby a customer engaged on a call can make an enquiry call to a third party. The customer then has the ability to toggle between the original call and the enquiry call or to connect all three parties in a conference. The controlling line may then release either or both of the other parties by means of control codes                 |  | Wholesale duplicate of<br>service covered elsewhere   | Call Server<br>Feature | Low    |
| 135 | Select Services-Wholesale  | A terminating line service whereby incoming calls from lines which have withheld their CLI are rejected. The withholding caller receives a network announcement to indicate the reason for the failure of their call. Incoming calls for which the CLI is unavailable for reasons other than being withheld by the caller are not blocked by this service. |  | Wholesale duplicate of<br>service covered elsewhere   | Call Server<br>Feature | Low    |
| 136 | Wholesale Access :- Analogue<br>Select Services-Wholesale<br>Access Feature :Bar Use of<br>1470                  | Lines can be configured such that the use of 1470 is unavailable to the user.  |  | Wholesale duplicate of<br>service covered elsewhere   | Call Server<br>Feature | Low    |
| 137 | BT MeetMe  | Conferencing products. Edge of network<br>platform. Use basic call and sometimes number<br>translation service for call set-up.  |  | Duplicate   | N/A                    | N/A    |
| 138 | BT MeetMe (UK/ROW)   | Conferencing products. Edge of network<br>platform. Use basic call and sometimes number<br>translation service for call set-up.  |  | Duplicate   | N/A                    | N/A    |
| 139 | Emergency Services 999 / 112   | Provides priority routing to BT emergency<br>Operators.  | for pstn replacement will need an alternative to IN. | High, if continuous retry is<br>needed, also calling party<br>held is not available in native<br>SIP. Location is also not<br>fixed, routing is complex, with<br>high impact if wrong | Regulatory             | High   |
| 140 | Enterprise Solutions   | This is a managed conferencing service. The<br>Conferencing platforms will remain located<br>outside the 21C network during Pathfinder<br>timescales.  |  | Duplicate   | N/A                    | N/A    |
| 141 | Platform Based Cashless Callii   | CPE provision/management related rather than<br>21C Voice functionality specific. Listed here for<br>completeness but not explicitly covered within<br>the scope of this particular design document.   |  | N/A - CPE related   | CPE                    | Low    |
| 142 | Platform Based Cashless Callii   | CPE provision/management related rather than 21C Voice functionality specific.   |  | N/A - CPE related   | CPE                    | Low    |

| Same.  | Low    | Future  |
|--|--------|---------|
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|  |        |         |
| Same. Reference to Feature # 132                   | Medium | Future  |
| Same: Nerelende to Fedure # 102                    | Wediam | i didic |
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|  |        |         |
| Same.  | Low    | Future  |
| Same.  | Low    | Future  |
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|  |        |         |
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| Same.  | Low    | Future  |
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|  |        |         |
| Same.  | Low    | Future  |
| Same.  | LOW    | i didie |
|  |        |         |
|  |        |         |
| N/A  | N/A    | N/A     |
| IV/A   | IN/A   | N/A     |
|  |        |         |
|  |        |         |
| N/A  | N/A    | N/A     |
|  |        |         |
|  |        |         |
| Same. In some implementations, the NGN is          | High   | Future  |
| required to interwork with assets in the PSTN that |        |         |
| support emergency service and that are not         |        |         |
| replicated in NGN. For instance, Subs mapping to   |        |         |
| PSAP location function handled in NGN; then        |        |         |
| emergency calls are routed to PSAP using           |        |         |
| screening index.                                   |        |         |
| N/A  | N/A    | N/A     |
|  |        |         |
|  |        |         |
|  |        |         |
| Same.  | Low    | Future  |
| Same.  | LOW    | ruture  |
|  |        |         |
|  |        |         |
|  |        |         |
|  |        |         |
| Same.  | Low    | Future  |
|  |        |         |

| 143 | Platform Based Cashless Callin  | CPE provision/management related rather than 21C Voice functionality specific.                                     | N/A - CPE related                                 | CPE                    | Low  |
|-----|---|--|---|------------------------|------|
| 144 | Platform Based Cashless Callii  | CPE provision/management related rather than 21C Voice functionality specific.                                     | N/A - CPE related                                 | CPE                    | Low  |
| 145 | Platform Based Cashless Callii  | CPE provision/management related rather than 21C Voice functionality specific.                                     | N/A - CPE related                                 | CPE                    | Low  |
| 146 | Platform Based Cashless Callii  | CPE provision/management related rather than 21C Voice functionality specific.                                     | N/A - CPE related                                 | CPE                    | Low  |
| 147 | BTnet Dial IP   | A replacement version of Btnet for 21C application. Uses basic call and possibly number translation to route call. | VBD - irrelevant now?                             | VBD                    | High |
| 148 | BT Yahoo! Consumer<br>Narrowband-BT Yahoo!<br>Anytime                           | Dial-up Internet access products with various facilities and charging options                                      | VBD - irrelevant now?                             | VBD                    | High |
| 149 | BT Yahoo! Consumer<br>Narrowband  | Dial-up Internet access products with various facilities and charging options                                      | VBD - irrelevant now?                             | VBD                    | High |
| 150 | BT Yahoo! Consumer<br>Narrowband-BT Yahoo! PAYG                                 | Dial-up Internet access products with various facilities and charging options                                      | VBD - irrelevant now?                             | VBD                    | High |
| 151 | BT Yahoo! Consumer<br>Narrowband-BT Yahoo!<br>Surftime (Evening and<br>Weekend) | Dial-up Internet access products with various facilities and charging options                                      | VBD - irrelevant now?                             | VBD                    | High |
| 152 | BT Yahoo! Consumer<br>Narrowband-BT Yahoo!<br>Surftime 24/7                     | Dial-up Internet access products with various facilities and charging options                                      | VBD - irrelevant now?                             | VBD                    | High |
| 153 | Business Connect Anytime  | Dial-up Internet access products with various facilities and charging options                                      | VBD - irrelevant now?                             | VBD                    | High |
| 154 | Business Connect Anytime-<br>Business Connect LAN                               | Dial-up Internet access products with various facilities and charging options                                      | VBD - irrelevant now?                             | VBD                    | High |
| 155 | Business Connect Anytime-<br>Business Connect PAYG                              | Dial-up Internet access products with various facilities and charging options                                      | VBD - irrelevant now?                             | VBD                    | High |
| 156 | Basic Voice Calls-Originating<br>Value calls                                    | Basic call to number translation ASP (0800 & 0845 numbers).  | low - call routing                                | Call Server<br>Routing | Low  |
| 157 | Basic Voice Calls-Other<br>originating (non-geo) trunk<br>calls                 | Basic call to number translation ASP (0870 & Premium rate numbers).  | low - call routing                                | Call Server<br>Routing | Low  |
| 158 | BT Genesys  | IN based call delivery system for Inbound<br>Services. Similar to the ICM [Intelligent Contact<br>Manager].        | N/A Withdrawn                                     | N/A                    | N/A  |
| 159 | Call Minder   | Need to support DPNSS1 MWI   | High - MWI is currently<br>DPNSS based for legacy | ASP                    | High |

| Same.   | Low  | Future |
|---|------|--------|
| Same.   | Low  | Future |
| Same.   | Low  | Future |
| Same.   | Low  | Future |
| Same.   | High | Sunset |
| Same.   | Low  | Future |
| Same.   | Low  | Future |
| N/A   | N/A  | N/A    |
| Same. Voicemail service with RBWF feature. BT Call Minder is a multi-feature answering service that lets you retrieve messages from any phone, anywhere. If you miss a call because you're on the phone or Internet, BT Call Minder will take a message and ring you shortly after you've hung up or logged off and tell you that you have a message. Implementation requires DPNSS encapsulation in SS7, with MWI feature. |      | Future |

| 160 | Call Waiting                         | A service that enables a customer who is engaged on a call to be alerted, by means of in-  |   | Low with H.248 line control.<br>Medium with SIP (ATA | Call Server<br>Feature | Low  | Same.  | Low  | Future |
|-----|--------------------------------------|--|---|--|------------------------|------|--|------|--------|
|     |                                      | band tones, to a subsequent call to his number. The customer may then ignore the call or accept the waiting call by using recall. If the waiting call is accepted the called user may toggle between the new call and the original call. The waiting call is played an announcement to indicate that the called number has been made aware of its existence.   |   | feature).  |                        |      |  |      |        |
|     | •                                    | Complex routed calls for Number Portability,<br>Number Translation Services, Transit and<br>Carrier Pre Selection. See also details in<br>individual service-specific rows.  |   | duplicate  | N/A                    | N/A  | N/A  | N/A  | N/A    |
| 162 |                                      | Allows OCPs to offer unmetered (0808) dial-up<br>Internet access to BT retail customers at<br>(former) Digital Local Exchange (DLE) level.<br>For Pathfinder, the Call Server routes calls to an<br>NGS, and this triggers to the IN for number<br>translation purposes.   | Check with John Morden. Requires<br>VBD support. See text Direct for the<br>issues. Done with IN and includes<br>gaping controls. | High if needed,                                      | VBD                    | High | Same. Better HSI substitute in NGN.  | High | Sunset |
| 163 |                                      | The Intelligent Contact Manager (ICM) is an IN component seved from the legacy which manages the queuing/distribution of calls to Call Centres and Call Agents, and the involvement of Voice Response Units (VRUs). ICM calls from Pathfinder are routed by the Call Server to an appropriate NGS in the legacy, which then triggers to the ICM. The ICM then controls access to a VRU and or the Call Centre destination as required. |   | IN service in BT                                     | ASP                    | High | Same.  | High | Future |
|     | Services                             | Advanced Features are a range of network-<br>based features offering additional functionality<br>to BT Inbound Services calls, e.g. Geographic<br>Routing, Time of Day Routing etc. This<br>functionality is implemented on the ASP. The<br>ASP is a number of platforms, eg RIDE, Call<br>Minder and the Intelligent Networks.  |   | IN service in BT                                     | ASP                    | High | Same.  | High | Future |
| 165 |                                      | BT Freefone 0800/0808 service enables callers<br>to contact a business free of charge from<br>anywhere in the UK.  | for pstn replacement will need an alternative to IN.  | Need an IN or some value added service node,         | ASP                    | High | Same. BT may consider developing interworking<br>capabilities between the IN and NGN, as opposed<br>to replicating IN in NGN. IN Interworking option still<br>requires high investments. | High | Future |
| 166 | Inbound Calls-Freefone<br>Validation | A credit card validation product based on the use of a freefone call.  |   | IN service in BT                                     | ASP                    | High | Same. BT may consider developing interworking<br>capabilities between the IN and NGN, as opposed<br>to replicating IN in NGN. IN Interworking option still<br>requires high investments. | High | Future |
| 167 |                                      | BT Lo-call 0845 service enables callers to contact a business at the same cost as a local call from anywhere in the UK.  |   | see Freefone 0800 above                              | ASP                    | High | Same. BT may consider developing interworking<br>capabilities between the IN and NGN, as opposed<br>to replicating IN in NGN. IN Interworking option still<br>requires high investments. | High | Future |

| 168 |  | BT NationalCall 0870 service means that callers<br>from anywhere in the UK pay the entire cost of<br>the basic call; the business receiving the call<br>pays nothing towards the cost.  |   | see Freefone 0800 above   | ASP                    | High   | Same. BT may consider developing interworking<br>capabilities between the IN and NGN, as opposed<br>to replicating IN in NGN. IN Interworking option still<br>requires high investments. | High   | Future |
|-----|--|---|---|---|------------------------|--------|--|--------|--------|
| 169 | Intelligent network services<br>BT Bill Direct                                       | Registered callers prefix calls from any line and<br>the all calls are billed to the registered customer<br>or their company and not the line they called<br>from. Calls are triggered to the CORE IN from<br>an NGS  |   | IN service in BT  | ASP                    | High   | Same. BT may consider developing interworking<br>capabilities between the IN and NGN, as opposed<br>to replicating IN in NGN. IN Interworking option still<br>requires high investments. | High   | Future |
| 170 | Access to DQ   | 118 access product for downstream DQ services   | Call routing capability. No special requirement.  | Low.  | Call Server<br>Routing | Low    | Same.  | Low    | Future |
| 171 | N/IVR  | Network based IVR used in conjunction with<br>Inbound Services (ICM, etc.)  |   | Medium -need an IVR   | ASP                    | Medium | Same.  | Medium | Future |
| 172 | Number Translation Services<br>(NTS) Origination-BT - OLO<br>Surftime                | IN service  |   | Basic number translation. Will<br>need IN or equivalent or call<br>server based solution.<br>Service management means<br>this is high if we don't retain<br>the IN. | ASP                    | High   | Same.  | High   | Future |
| 173 | Number Translation Services<br>(NTS) Origination-Direct to<br>Freefone (BT-OLO)      | IN service  | PRA for Audiotext; Very high call volume; Short calls; Televoting   | As above  | ASP                    | High   | Same.  | High   | Future |
| 174 | Number Translation Services<br>(NTS) Origination-Direct to<br>LRCS (OLO-BT)          | IN service  |   | As above  | ASP                    | High   | Same.  | High   | Future |
| 175 | Number Translation Services<br>(NTS) Origination-Direct to<br>National Call (OLO-BT) | IN service  | if WLR is maintained then routing is<br>based on the WLR operator   | As above  | ASP                    | High   | Same.  | High   | Future |
| 176 | Number Translation Services<br>(NTS) Origination-Direct to<br>Other (OLO-BT)         | IN service  | UK NICC standard exists for SIP access but not implimented without softswitch development. No standard for SIP interconnect / trunk | As above  | ASP                    | High   | Same.  | High   | Future |
|     | Number Translation Services<br>(NTS) Origination-Direct to<br>PRS (OLO-BT)           | IN service  |   | As above  | ASP                    | High   | Same:  | High   | Future |
| 178 | Number Translation Services<br>(NTS) Origination                                     | IN service  |   | As above  | ASP                    | High   | Same.  | High   | Future |
| 179 | Ring Back  | On encountering a busy destination a user may enter a digit to invoke the Ring Back When Free service. When the previously busy destination becomes free, the original caller is automatically rung by the service. On answering this ring back, the caller is connected to the previously busy destination. Thereafter the call proceeds as a normal call. |   | duplicate   | N/A                    | N/A    | N/A  | N/A    | N/A    |

| 180 | Wholesale Line Independent   | Wholesale line independent service  |  | Service wrap feature - but<br>has slightly different<br>configurations per CP -<br>medium | Interconnect           | Medium | Same. |
|-----|--|---|--|---|------------------------|--------|-------|
| 181 | ValueLink & E/MCD  | Enhanced Mid Call Diversion (EMCD) is a feature on Enhanced ValueLink. The EMCD capability means that a caller to a Service Provider (e.g. an information service) can be diverted to a second destination.   | PRA for Audiotext; Very high call volume; Short calls; Televoting; UK specific; Growth on existing only  | ISDN and customer impacting<br>high to replicate - explicit call<br>diversion on PRI      | ISDN                   | High   | Same. |
| 182 | BT Answer 1571   | Call Minder is a call answering and message storage service implemented on a remote ASP. It provides customers with voice-mail facilities associated with their PSTN line. The service makes use of administration controlled diversion on busy and diversion on no reply facilities to direct calls to the ASP. The service also uses DPNSS1 signalling encapsulated in SS7 IUP NEED and/or ISUP APM messages to indicate message waiting and control of diversion on no reply timers. | Requires V.23 FSK signalling from the<br>line cct. Requires provisioing in the<br>ATA. Need functionality to convert the<br>CLI from International format to<br>national format. | Voice messaging - Low -<br>service impact   | ASP                    | Low    | Same. |
|     | BT Answer 1571-BT Answer<br>Plus 1571 with Message Alert                                   | Call Minder Service Variant implemented on<br>Call Minder ASP   |  | Voice messaging - Low -<br>service impact   | ASP                    | Low    | Same. |
| 184 | Call Mapping - C7 Variant  | Call Mapper allows calls to be directed to 3rd<br>party mailboxes and for customer message<br>retrieval from such mailboxes. This is an<br>alternative to using the BT Call Minder platform.  | Requires routing to an IDD gateway<br>based upon country code. Also variable<br>number lengths incurring additional<br>PDD.  | Wholesale access to 3rd party VM platforms, low usage. Call Routing - Low                 | Interconnect           | Low    | Same. |
| 185 | Custodial Tagging Line-Ring<br>Back When Free  | On encountering a busy destination a user may enter a digit to invoke the Ring Back When Free service. When the previously busy destination becomes free the original caller is automatically rung by the service; on answering the ring back (with special cadence) the caller is connected to the previously busy destination. Thereafter the call proceeds as a normal call.   |  | Duplicate   | N/A                    | N/A    | N/A   |
| 186 | Indirect Access Call Barring   | IACB is provided if required on WA lines to<br>prevent indirect access codes being used to<br>connect via other Service Providers.  | Call routing capability. No special requirement,   | Call Server Feature - Low   | Call Server<br>Feature | Low    | Same. |
| 187 | TOS-Temporarily Out of<br>Service (TOS)  | The temporary removal of all incoming and<br>outgoing service on a line including 999/112<br>calls. Originally used as a response to non-<br>payment of bills, but now generally provided at<br>customer request only.  |  | Call Server Feature - Low   | Call Server<br>Feature | Low    | Same. |
| 188 | Wholesale Access :- Analogue<br>Select Services-Wholesale<br>Access Feature :- 1471 Extra  | This is the CORE IN service version of 1471 that stores the CLI of the last 5 callers. Service announcements are played on the MAS-T equipment co-located with the CS.  |  | Wholesale duplicate of<br>service covered elsewhere                                       | ASP                    | Medium | Same. |
| 189 | Wholesale Access :- Analogue<br>Select Services-Wholesale<br>Access Feature :- Call Minder | Need to support DPNSS1 MWI  | _  | Wholesale duplicate of<br>service covered elsewhere                                       | ASP                    | Low    | Same. |
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|-------|-----------|--------------|
| Same. | Medium    | Future       |
| Same. | High      | Transitional |
| Same. | Low       | Future       |
| Same. | Low       | Future       |
| Same. | Low       | Future       |
| N/A   | N/A       | N/A          |
| Same. | Low       | Future       |
| Same. | Low       | Future       |
| Same. | Medium    | Future       |
| Same. | Low       | Future       |

|     | Wholesale Access :- Analogue<br>Select Services-Wholesale<br>Access Feature :- Ring Back<br>Wholesale Access :- Analogue | enter a digit to invoke the Ring Back When Free service. When the previously busy destination becomes free, the original caller is automatically rung by the service. On answering this ring back, the caller is connected to the previously busy destination. Thereafter the call proceeds as a normal call. | Requires routing to the WLR provider  | Wholesale duplicate of service covered elsewhere  | Call Server<br>Feature | High |
|-----|--|---|---|---|------------------------|------|
|     | Select Services-Wholesale<br>Access Feature :- Wholesale<br>1571   |   | for the line if the customer dials a chargebale number. Done via the IN. Requires an IN? Per customer profiles.                     | service covered elsewhere   |                        |      |
| 192 | Wholesale Web Call Connect   | Ability for 3rd party to initiate a call  |   | Wholesale duplicate of<br>service covered elsewhere                                     | N/A                    | N/A  |
| 193 | Operator Assistance  | This product caters for assistance, operator connected, & reverse charge calls, etc. The operator clearing program (manual hold) may apply on such calls.   | if WLR is maintained then routing is<br>based on the WLR operator. No<br>commercial driver  | origin based routing .<br>Medium, bespoke routing<br>solution.                          | Call Server<br>Routing | High |
| 194 | Malicious call intercept   | Ability for customer selectively to forward a call to a 3rd party Eg. Operator. Ability to trace the source of a malicious call   | Openreach provide this capability on<br>legacy.   | Call Server Feature - Low   | Call Server<br>Feature | Low  |
| 195 | Malicious call trace   | Ability for customer selectively to forward a call to a 3rd party Eg. Operator. Ability to trace the source of a malicious call   | GS provide this capability on legacy.   | Mid call trigger of diversion -<br>high for SIP - low with H.248<br>Call Server Feature | Call Server<br>Feature | Low  |
| 196 | Pre-standard overlap sending   | Numbers can be sent one at a time until the<br>network detects it has a valid or invalid number<br>against pre-defined digit maps and dial plans  | UK NICC standard exists for SIP access but not implemented without softswitch development. No standard for SIP interconnect / trunk | High - performance impact.  | Line Control           | High |
| 197 | Basic Voice Calls-<br>International  | Basic call functionality  |   | duplicate   | Call Server<br>Routing | Low  |
| 198 | BT Pay&Call  | Pre-paid fixed line service. Uses the 'Montrose' IN platform. The service will trigger at the CS but the announcements for Pay and Call are delivered from nodes located in the PSTN via service addressed calls.   |   | Withdrawn   | ASP                    | High |
| 199 | BT Text  | Text messaging to and from fixed lines. Uses caller display FSK signalling to initiate an answer from the SMS enabled CPE but actual text message is delivered in band, using FSK signalling, from a remote SMS service platform  | See Text Direct.  | Duplicate   | ASP                    | High |
|     | BT Text-Customer opt out of<br>TTS delivery  | BT Text service variant handled by SMS platform   | bespoke development for COT on last answered call   | service wrap only   | ASP                    | Low  |
|     | BT Text-Customer registered<br>for BT Text   | BT Text service variant handled by SMS platform   |   | service wrap only   | ASP                    | Low  |
|     | Call Minder-Call Minder<br>Extensions  | Call Minder platform feature  |   | VM platform feature - low   | ASP                    | Low  |
| 203 | Call Minder-Call Minder<br>Premier   | Call Minder platform feature  |   | VM platform feature - low   | ASP                    | Low  |

| Same.   | High                 | Future                                      |
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| Same.   | Low                  | Future                                      |
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|   |                      |   |
|   |                      |   |
| N/A   | N/A                  | N/A   |
|   |                      |   |
|   |                      |   |
| Same.   | High                 | Transitional                                |
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|   |                      |   |
| Same.   | Low                  | Future                                      |
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| Same.   | Low                  | Future                                      |
| Same.   | LOW                  | rulule                                      |
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| See Feature #45.  | Medium               | Future                                      |
| See Feature #45.  | Medium               | Future                                      |
| See Feature #45.  | Medium               | Future                                      |
| See Feature #45.  | Medium               | Future                                      |
|   | Medium               |   |
| See Feature #45. Same.                                      |                      | Future                                      |
| Same.   | Low                  | Future                                      |
|   |                      |   |
| Same.   | Low                  | Future                                      |
| Same.   | Low<br>High          | Future<br>Sunset                            |
| Same. Same. Same. Better substitute in NGN.                 | Low<br>High          | Future Sunset Sunset                        |
| Same.  Same. Better substitute in NGN.  Same.               | Low<br>High<br>High  | Future Sunset Sunset                        |
| Same. Same. Same. Better substitute in NGN.                 | Low<br>High          | Future Sunset Sunset                        |
| Same.  Same. Better substitute in NGN.  Same.  Same.        | Low High Low Low     | Future Sunset Sunset Future Future          |
| Same.  Same. Better substitute in NGN.  Same.               | Low<br>High<br>High  | Future Sunset Sunset                        |
| Same.  Same. Better substitute in NGN.  Same.  Same.  Same. | Low High Low Low Low | Future Sunset  Sunset  Future Future Future |
| Same.  Same. Better substitute in NGN.  Same.  Same.        | Low High Low Low     | Future Sunset Sunset Future Future          |

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|     | Called Party Answer  | CSA line reversal for analogue DELs. This is a<br>configurable feature and may be used by call<br>logging equipment, payphones, PBXs etc, to<br>detect when the terminating end of a call has<br>answered.   | Line cct feature, Openreach delivered. Requires H.248 as it provides line control. Cannot be supported in SIP. | Low with H.248 line control.  Medium with SIP line control.                | Line Control   | Low  | Same.  | Low  | Future       |
| 205 | BT Answer 1571-BT Answer<br>Plus 1571 with Personalised<br>Greeting            | Call Minder platform feature   |  | VM platform feature - low  | ASP            | Low  | Same.  | Low  | Future       |
| 206 | Payphone Line (with & without cuckoo tone)                                     | Payphone line requires line reversal and CPC support in the exchange data. Different call barring categories also exist.   | Line reversal required and support for CPC Payphone.   | Low with H.248 line control.<br>Medium with SIP line control.              | Regulatory     | Low  | Same.  | Low  | Future       |
| 207 | Public Kiosk Estate-Advertisin   | All Public Kiosk Estate sub products are CPE provision/management related rather than 21C Voice functionality specific. Listed here for completeness but not explicitly covered within the scope of this design document   |  | N/A  | N/A            | N/A  | N/A  | N/A  | N/A          |
| 208 | Public Kiosk Estate-ATM  | All Public Kiosk Estate sub products are CPE provision/management related rather than 21C Voice functionality specific. Listed here for completeness but not explicitly covered within the scope of this design document   |  | N/A  | N/A            | N/A  | N/A  | N/A  | N/A          |
| 209 | Public Kiosk Estate-Monitoring   | All Public Kiosk Estate sub products are CPE provision/management related rather than 21C Voice functionality specific. Listed here for completeness but not explicitly covered within the scope of this design document   |  | N/A  | N/A            | N/A  | N/A  | N/A  | N/A          |
| 210 | Public Kiosk Estate-reach /Wi-   | All Public Kiosk Estate sub products are CPE<br>provision/management related rather than 21C<br>Voice functionality specific. Listed here for<br>completeness but not explicitly covered within<br>the scope of this design document   |  | N/A  | N/A            | N/A  | N/A  | N/A  | N/A          |
| 211 | Public Kiosk Estate-Vending  | All Public Kiosk Estate sub products are CPE provision/management related rather than 21C Voice functionality specific. Listed here for completeness but not explicitly covered within the scope of this design document   |  | N/A  | СРЕ            | N/A  | N/A  | N/A  | N/A          |
| 212 | Single Line PBX Line Reversal  | Could be a "productisation" of the practice of<br>providing a single line PBX where the customer<br>required CSA line reversal e.g. for a private<br>payphone; prior to the introduction of CSA line<br>reversal for DELs.   |  | Duplicate (called party answer)  | Call Server Fe | Low  | Same.  | Low  | Transitional |
| 213 | Operator Assistance-<br>Intelligent Network Services<br>Operator Call Steering | This IN feature presents a caller with the following user-selectable options rather than immediately connecting to an Operator. These options are:  1. Directory enquiry information; 2. Check line or report faults; 3. Sales, Service or Billing enquiries; 4. Book alarm call or speak to an Operator |  | complex routing implemented<br>in IN in BT. High to replicate<br>on switch | ASP            | High | Same. Related to Feature #193. Might require IN triggering | High | Transitional |

|     | Override              | This feature allows an operator to interrupt calls but is stated as being no longer used due to privacy issues. However its ROP status is understood to assume that its migration to 21C is a regulatory requirement.  |  | Very High - not required now?   |              | High | Same. See Feature #193, 213. | High | Transitional |
|-----|-----------------------|--|--|---|--------------|------|------------------------------|------|--------------|
| 215 | Paging Interconnect   | Radio Paging interconnect product using DASS ISDN 30.  | UK specific; Growth on existing only             | call routing and interconnect<br>product - issue is<br>replacement of ISDN 30. High<br>development but low impact | ISDN         | High | Same. See Feature #193, 213. | High | Transitional |
| 216 | Circuits (VIEC)       | Virtual IECs are used in 21C to replace the physical Interconnect Extension Circuits used in the legacy between OCPs and BT DLEs. The VIEC concept allows former OCP-DLE interconnect charging to be accommodated within the OCP-NGS interconnect arrangements applicable in 21C. To permit this function signalling is being enhanced to send a customer's original area code from the CS to the NGS where the NGS can then know which VIEC to connect the Customer with. | Call routing capability. No special requirement, | Migration service. High as it depends on DLE based routing  | Interconnect | High | Same. See Feature #193, 213. | High | Future       |
| 217 |                       | CPE provision/management related rather than<br>21C Voice functionality specific. Listed here for<br>completeness but not explicitly covered within<br>the scope of this particular design document.   |  | N/A   | CPE          | Low  | Same.                        | Low  | Transitional |
| 218 |                       | CPE provision/management related rather than<br>21C Voice functionality specific. Listed here for<br>completeness but not explicitly covered within<br>the scope of this particular design document.   |  | N/A   | CPE          | Low  | Same.                        | Low  | Transitional |
| 219 |                       | CPE provision/management related rather than<br>21C Voice functionality specific. Listed here for<br>completeness but not explicitly covered within<br>the scope of this particular design document.   |  | N/A   | CPE          | Low  | Same.                        | Low  | Transitional |
| 220 |                       | CPE provision/management related rather than<br>21C Voice functionality specific. Listed here for<br>completeness but not explicitly covered within<br>the scope of this particular design document.   |  | N/A   | CPE          | Low  | Same.                        | Low  | Transitional |
| 221 | C50/C100/C200/C300    | CPE provision/management related rather than<br>21C Voice functionality specific. Listed here for<br>completeness but not explicitly covered within<br>the scope of this particular design document.   |  | N/A   | CPE          | Low  | Same.                        | Low  | Transitional |
| 222 | P290/P390/P490/ P2000 | CPE provision/management related rather than<br>21C Voice functionality specific. Listed here for<br>completeness but not explicitly covered within<br>the scope of this particular design document.   |  | N/A   | CPE          | Low  | Same.                        | Low  | Transitional |

| 223 | Public Payphone Apparatus -<br>P2000                                 | CPE provision/management related rather than<br>21C Voice functionality specific. Listed here for<br>completeness but not explicitly covered within<br>the scope of this particular design document. |                       | N/A  | CPE                    | Low    |
|-----|--|--|-----------------------|--|------------------------|--------|
| 224 | Public Payphone Apparatus -<br>P390/P490                             | CPE provision/management related rather than<br>21C Voice functionality specific. Listed here for<br>completeness but not explicitly covered within<br>the scope of this particular design document. |                       | N/A  | CPE                    | Low    |
| 225 | Public Payphone Apparatus -<br>SM1 Paychoice                         | CPE provision/management related rather than<br>21C Voice functionality specific. Listed here for<br>completeness but not explicitly covered within<br>the scope of this particular design document. |                       | N/A  | CPE                    | Low    |
| 226 | Public Payphone Apparatus -<br>Sovereign Textphone                   | CPE provision/management related rather than<br>21C Voice functionality specific. Listed here for<br>completeness but not explicitly covered within<br>the scope of this particular design document. | Duplicate             | N/A  | CPE                    | Low    |
| 227 | 224 accreditation  | Security accreditation to enable confidential government voice communications  |                       | N/A  | Regulatory             | N/A    |
| 228 | Connection Admission<br>Control (CAC)                                | Ability to limit calls according to available bandwidth for the media  |                       | Depends on architecture -<br>SIP is low as its an SBC<br>feature, H.248 is medium. | Call Server<br>Feature | Medium |
| 229 | Geographic resilience (nodal resilience)                             | Ability to have fast back up to a remote call<br>server under local nodal failure  |                       | Medium- easier on NGN than TDM network.  | Call Server<br>Feature | Medium |
| 230 | Gov Telephony Preference<br>Scheme (GTPS)                            | Ability to only allow specific customers to use<br>telephony network in National emergency<br>conditions   | No commercial driver. | High   | Regulatory             | High   |
| 231 | Operator hold (Calling<br>Subscriber Hold)                           | Manual hold solution needs to be assessed by BT specialists  |                       | High, bespoke solution, not possible with native SIP                               | Call Server<br>Feature | High   |
| 232 | Overload controls (mass call events)                                 | When a mass calling event is triggered, network<br>must reduce calling rates to stop general<br>network congestion   |                       | High, need to distibute the controls, depends on architecture                      | Call Server<br>Feature | High   |
| 233 | Special measures for end-<br>users with disabilities (Text<br>Relay) | Uses the Text Direct platform  | See Text Direct.      | See Text Direct  | Call Server<br>Feature | High   |
| 234 | User/call priority features (military)                               | Ability to allow calls only from pre-specified lines<br>eg. military, ambulance police under emergency<br>situations   |                       | duplicate  | N/A                    | N/A    |

| Same.  Low Transitional  Same.  Low Transitional  Same.  Low Transitional  Same.  Low Transitional         |
|--|
| Same. Low Transitional   |
|  |
| Same. Low Transitional   |
|  |
| N/A N/A  |
| Function generally available on access SBC and MSAN.   |
| Same. Medium Future  |
| Same. Country Specific implementation. Solutions High Future available in NGN might require customization. |
| Same. High Future  |
| Same. High Future  |
| Same. High Future  |
| N/A N/A N/A  |