

**31. Trunk Side Connection With Power Ringing**

This is a request for a service. This service requires development.

**32. Access to Extended Superframe Data Channel**

This is a request for a particular application of a service. It is being met by some regional companies by offering the following ONA services:

- Category 3, Type G - Dedicated High Capacity Digital (1.544 Mbps) BSA
- Extended Superframe Conditioning

**33. Trunk Group Make Busy**

This is a request for a service. It is being met by offering the following ONA service:

- Make Busy Key

**34. Message Waiting Indication**

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Message Waiting Indicator - Activation (Audible)
- Message Waiting Indicator - Activation (Audible) - Expanded
- Message Waiting Indicator - Activation (Visual)
- Message Waiting Indicator - Activation (Visual) - Expanded
- Message Waiting Indicator - Packet Access
- Message Waiting Indicator (MWI) - Ability To Receive Audible Message Waiting
- Message Waiting Indicator (MWI) - Ability To Receive Visual Message Waiting

**35. Answer Supervision (Connect/Disconnect Indications) - Line Side**

This is a request for a service. It is being met by some regional companies by offering the following ONA service:

- Answer Supervision With A Line Side Interface
- Cut Off On Disconnect

**36. Night Transfer**

This is a request for a particular application of a service. It is related to request number 33. It is being met by offering the following ONA service:

- Make Busy Key

**37. Faster Signaling On DID**

This is a request for a particular type of signaling on a service. It is related to request number 23. It is being met by some regional companies by offering the following ONA services:

- Called Directory Number Delivery via DID
- Category I, Type B - Circuit Switched Trunk BSA
- Faster Signaling On DID

**38. Post Dialing DTMF Signaling From Paystations**

This is a request for a service to operate in a particular manner. Existing coin lines operate in the manner requested. It is being met by some regional companies by offering the following service:

- Coin Phone With Post Dialing Tone Capability

### **39. Selected Number Reverse Billing Rate Period Specific**

This is a request for a service. It is being met or partially met by some regional companies by offering the following ONA services:

- Reverse Billing On Circuit Switched Access
- Reverse Charge Acceptance - Packet
- Uniform 7 Digit Access Number - Remote Call Forwarding
- Coin Phone With Post Dialing Tone Capability

### **40. Single Number Access For Multiple Locations**

This is a request for a service. It is being met or partially met by some regional companies by offering the following ONA services:

- Uniform 7 Digit Access Number - Remote Call Forwarding
- Uniform 7 Digit Access Number via Overlay Networking
- Category 1, Type A - Circuit Switched Line BSA
- Category 1, Type B - Circuit Switched Trunk BSA
- Single Number Access for Multiple Locations

### **41. Ability To Notify Or Interrupt A Customer**

This request is for a particular application of services. It is related to request number 34. It is being met by some regional companies by offering the following ONA services:

- Message Waiting Indicator - Activation (Audible)
- Message Waiting Indicator - Activation (Audible) - Expanded
- Message Waiting Indicator - Activation (Visual)
- Message Waiting Indicator - Activation (Visual) - Expanded
- Message Waiting Indicator - Packet Access
- Message Waiting Indicator (MWI) - Ability To Receive Audible Message Waiting
- Message Waiting Indicator (MWI) - Ability To Receive Visual Message Waiting
- Distinctive Ringing

### **42. Ability To Return Held Call To Customer**

This is a request for a service that requires development.

### **43. Interconnection For Specialized Terminal Equipment**

This is a general request that cannot be met by a particular service. It is being met by some regional companies by the various basic serving arrangements (BSAs). If there are particular applications that are not compatible with the BSAs, they must be specifically identified.

### **44. Provision For Sharing An ESP Client Among ESPs**

This is a request for a particular application of a service. The requested service requires development.

### **45. Custom Service Areas**

This is a request for a particular application of a service. It is related to request number 30. It is being met or partially met by some regional companies by offering an alternative of the following ONA service:

- Category 1, Type A - Circuit Switched Line BSA.
- Category 1, Type B - Circuit Switched Trunk BSA.

It is also being met or partially met by some regional companies by offering the following ONA service:

- Tandem Routing

**46. Statistical Multiplexer at Central Office**

This is a request for a particular equipment configuration to support a service. It is being met or partially met by some regional companies by offering the following ONA services:

- Category 2, Type A - X.25 Packet Switched BSA
- Category 2, Type B - X.75 Packet Switched BSA
- Statistical Multiplexer

**47. X.25 Interface To Packet Switch**

This is a request for a service. It is being met by offering the following ONA service:

- Category 2, Type A - X.25 Packet Switched BSA

**48. X.75 Interface To Packet Switch**

This is a request for a service. It is being met by offering the following ONA service:

- Category 2, Type B - X.75 Packet Switched BSA

**49. Access To Data Services**

This is a request for a particular application of a service. It is being met or partially met by some regional companies by offering the following ONA services:

- Hot Line
- Warm Line
- Preselection for Data Services

**50. B-Channel Switched and Dedicated Access**

This is a request for a service that requires development.

**51. D-Channel Data Delivered on B-Channel**

This is a request for a service that requires development.

**52. Multiple D-Channels on B-Channel**

This is a request for a service that requires development.

**53. ESP Access to D-Channel Signaling**

This is a request for a service that requires development.

**54. Feature Node Service Interface (FN/SI)**

This is a request for a particular interface that requires development.

**55. Service Control Point (SCP) Databases**

This is a request for a service that requires development.

**56. Term Sets and Inband Signaling on Analog Channels**

This is a request for a particular interface. It is being met or partially met by some regional companies by offering the following ONA service:

- Category 3, Type C - Dedicated Voice Grade BSA

**57. Access to Future Intelligent Functions of ISDN**

This is a general request for access to services that may be developed in the future.

**58. Compatibility to Existing Terminals**

This is a general request that cannot be met by a particular service. It is being met by some regional companies by the various basic serving arrangements (BSAs). If there are particular applications that are not compatible with the BSAs, they must be specifically identified.

**59. Mapping ANI to User ID (X.75)**

This is a request for a service that requires development.

**60. Calls Accepted With BOC's DNIC or ESP's DNIC**

This is a request for an attribute of a service. It is being met or partially met by some regional companies by offering the following ONA service:

- Category 2, Type A - X.25 Packet Switched BSA
- Category 2, Type B - X.75 Packet Switched BSA

**61. Equal Access to Exchange Network Switching and Transmission**

This is a general request that cannot be met with a particular service. It is being met by various BSAs.

If there are particular applications that are not being met by the services offered by the BSAs, they must be specifically identified.

**62. Peak Traffic Handling Within Exchange Network**

This is a request for a network management capability that requires development.

**63. ESP Defined Dynamic Routing**

This is a request for a particular application of a service. It is related to requests number 25 and 33. It is being met or partially met by some regional companies by offering the following ONA services:

- Alternate Routing
- Multiline Hunt Group
- Make Busy Key
- Network Reconfiguration

**64. Common Channel Signaling Access**

This is a request for a particular type of signaling interface associated with various services. It is being met or partially met by some regional companies by offering the following ONA service:

- Category 1, Type B - Circuit Switched Trunk BSA
- Category 4 - Dedicated Network Access Link BSA

**65. Dynamic Allocation of Transmission Capacity**

This is a request for a service. It is being met or partially met by some regional companies by offering the following ONA service:

- Network Reconfiguration

**66. Provision of BOC network status information.**

This is a request for a service that requires development.

**67. Real Time Access To Exchange Network Testing Facilities**

This is a request for a network management capability. It is being met or partially met by some regional companies by offering the following ONA service:

- Access To Operations Support Systems Information

**68. Derived Channels That Comply With UL and NFPA**

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Verify Integrity of Subscriber Lines
- Derived Channels (Monitoring)
- Category 3, Type I - Dedicated Alert Transport BSA

**69. One Way Alarm Transmission**

This is a request for a service. It is being met or partially met by some regional companies by offering the following ONA services:

- Category 3, Type I - Dedicated Alert Transport BSA
- Derived Channels (Monitoring)
- Category 1, Type A - Circuit Switched Line BSA
- Category 1, Type B - Circuit Switched Trunk BSA

**70. Derived Channels Compatible with ISDN**

This is a request for two services to interact in a compatible manner. This interaction requires development.

**71. Digital Private Lines (DDS)**

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Category 3, Type F - Dedicated Digital (< 64 kbps) BSA
- Category 3, Type G - Dedicated High Capacity Digital (1.544 Mbps) BSA
- Multiplexing – Digital

**72. Diagnostic Channel on DS0 and Subrate Lines**

This is a request for a service. It is being met by offering the following service:

- Secondary Channel Capability

**73. Error Detection / Error Correction**

This is a request for an attribute of a service. It is related to requests 47 and 48. It is being met or partially met by some regional companies by offering the following services:

- Category 2, Type A - X.25 Packet Switched BSA
- Category 2, Type B - X.75 Packet Switched BSA

**74. Ability to Detect Breaks in Telco Line Within 60 Seconds**

This is a request for a particular application of a service. It is related to request number 68. It is being met or partially met by some regional companies by offering the following ONA services:

- Verify Integrity of Subscriber Lines
- Derived Channels (Monitoring)
- Category 3, Type I - Dedicated Alert Transport BSA

**75. Broadband Link(s) for Video Transmission**

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Category 3, Type E - Dedicated Video BSA
- Category 3, Type H - Dedicated High Capacity Digital (>1.544 Mbps) BSA

**76. Ability To Reconfigure Networks**

This is a request for a service. It is being met by offering the following ONA service:

- Network Reconfiguration

**77. Route Diversity**

This is a request for an attribute of a service. It is being met or partially met by some regional companies by offering the following ONA services:

- Category 1 - Circuit Switched BSA
- Category 3 - Dedicated Basic Serving Arrangement
- Category 4 - Dedicated Network Access Link BSA
- Automatic Protection Switching
- Network Reconfiguration
- Route Diversity

**78. Automatic Protection Switching**

This is a request for a service. It is being met by offering the following ONA service:

- Automatic Protection Switching

**79. Private Line Conditioning**

This is a request for a service. It is being met by offering the following ONA service:

- Conditioning

**80. Multiple Monitors per Loop**

This is a request for a particular application of a service. It is being met or partially met by some regional companies by offering the following services:

- Category 3, Type I - Dedicated Alert Transport BSA
- Derived Channels (Monitoring)

**81. Clear Access To Data Portion of Derived Channels**

This is a request for an attribute of a service. It is being met by some regional companies by offering the following services:

- Category 3, Type J - Dedicated Derived Channel BSA
- Category I, Type A - Circuit Switched Line BSA (Data up to 19.2 kbps Alternative)

**82. Distinctive Ringing**

This is a request for a service. It is being met by some regional companies by offering the following services:

- Distinctive Ringing
- Distinctive Ringing - Terminating Screening

**83. 4-Wire Interconnection/Switching**

This is a request for a particular type of interface. It is being met by or partially met by some regional companies by offering the following ONA services:

- Category 1, Type A - Circuit Switched Line BSA
- Category 1, Type B - Circuit Switched Trunk BSA

**84. Access to Clear Channel Transmission**

This is a request for an attribute of a service. It is being met by some regional companies by offering the following ONA services:

- Category 3, Type G - Dedicated High Capacity Digital (1.544 Mbps) BSA
- Access To Clear Channel Transmission
- Category 3, Type K - Dedicated Digital (64 kbps) BSA

**85. User Initiated Diagnostics**

This is a general request for a group of services. These services need to be better defined and then developed. However, this is being met or partially met by some regional companies by offering the following service:

- Access To Operations Support Systems Information

**86. Pass Through Diagnostics To User**

This is a general request for service. It is being met or partially met by some regional companies by offering the following service:

- Access To Operations Support Systems Information

**87. Inband Signaling**

This is a request for a particular type of signaling interface. It is related to request number 56. It is being met or partially met by some regional companies by offering the following ONA service:

- Category 3, Type C - Dedicated Voice Grade BSA

**88. Bridging**

This is a request for a service. It is being met by offering the following ONA service:

- Bridging

**89. Monthly Detailed Recording**

This is a request for a service. It is being met or partially met by some regional companies by offering the following services:

- Call Detail Recording Reports
- Call Detail Recording Reports (Packet)

**90. Automatic Disablement Of Call Waiting Tone During Dial-Up Data Call**

This is a request for a service. It is being met or partially met by offering the following ONA service:

- Call Waiting - Cancel

**91. Enable / Disable Network DTMF Signaling**

This is a request for a service that requires development.

**92. Passive In-Band DTMF Tone Transmission**

This is a request for a service that requires development.

**93. Extend DTMF Tone Set**

This is a request for a service that requires development.

**94. Tone to Digital Translation**

This is a request for a service to operate in a particular manner. This requires development.

**95. Multiple Call Forwarding**

This is a request for a service to operate in a particular manner. It is related to requests number 1 and 4. It is being met by some regional companies by offering the following ONA services:

- Call Forwarding - Multiple Simultaneous Calls Interswitch

**96. Virtual Dial Tone**

This is a request for a particular attribute of a service. It is related to requests number 47 and 48. It is being met by some regional companies by offering the following services:

- Category 2, Type A - X.25 Packet Switched BSA
- Category 2, Type B - X.75 Packet Switched BSA

**97. Remote Access to User Programmable Functions (Packet)**

This is a request for a service that requires development.

**98. Remote Speed Call Menu Builder (Packet)**

This is a request for a service that requires development.

**99. Speed Call Menu Builder (Packet)**

This is a request for a service that requires development.

**100. Remote Speed Call Menu Access Translator (Packet)**

This is a request for a service. There are no service offerings under ONA due to waiver granted for service previously offered.

**101. Carrier Selection On Reverse Charge**

This is a request for a service. It is being met by some regional companies by offering the following ONA service:

- Carrier Selection on Reverse Charge

It is also being met or partially met by some regional companies by offering an alternative of the following ONA services:

- Category 1, Type A - Circuit Switched Line BSA
- Category 1, Type B - Circuit Switched Trunk BSA (800 dialing plan alternative)

**102. Network Control By Customer From Customer Premises**

This is a request for service that requires development.

**103. Real Time Traffic Usage Data**

This is a general request for a service. It is being met or partially met by some regional companies by offering the following service:

- Access To Operations Support Systems Information

**104. Central Office Announcements**

This is a request for an attribute of a service. It may be related to request number 25. It is being met or partially met by some regional companies by offering the following ONA services:

- Multiline Hunt Group
- Multiline Hunt Group - C. O. Announcements
- Multiline Hunt Group - Uniform Call Distribution Line Hunting
- Multiline Hunt Group - UCD with Queuing

**105. Name & Address of the Calling Party**

This is a general request for a service. It is being met or partially met by some regional companies by offering the following service:

- Name of Calling Party

**106. Suppression of Audible Click on Call Forwarding (Interoffice)**

This is a request for an attribute of a service that requires development.

**107. Billing Number Delivery**

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Calling Billing Number Delivery - FG B Protocol
- Calling Billing Number Delivery - FG D Protocol

**108. Privacy (Classes Of Non-Published Service)**

This is a request for a service that requires development.

**109. Delivery Of Traveling Class Mark**

This is a request for an attribute of a service. It is related to request number 107. It is being met or partially met by some regional companies by offering the following ONA services:

- Calling Billing Number Delivery - FG D Protocol
- Flexible ANI Information Digits

**110. User ID Associated With Calling Number And/Or Service ID Code**

This is a request for a service that requires development.

**111. Warm Line**

This is a request for a service. It is being met by some regional companies by offering the following ONA service:

- Warm Line

**112. Closed User Group (Packet)**

This is a request for a service. It is being met by offering the following ONA service:

- Closed User Groups - Packet

**113. Fast Select (Packet)**

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Fast Select Acceptance - Packet
- Fast Select Request - Packet

**114. Hunt Group (Packet)**

This is a request for a service. It is being met by some regional companies by offering the following ONA service:

- Hunt Groups - Packet

**115. Call Redirection (Packet)**

This is a request for a service. It is being met by some regional companies by offering the following ONA service:

- Call Redirection - Packet

**116. Direct Call (Packet)**

This is a request for a service. It is being met by some regional companies by offering the following ONA service:

- Direct Call - Packet

**117. Programmed Default Call Forwarding**

This is a request for a service that requires development.

**118. Restriction of Outgoing Calls (Packet)**

This is a request for a service that requires development.

## Appendix B: Individual Regional Company Responses to the 118 ESP Requests

| ESP REQUEST FOR NETWORK CAPABILITY                             | AM          | BA          | BS          | NX          | PB          | SW          | Qwest |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| 1. Call Forwarding Busy Line/Don't Answer                      | CNS         | CNS         | CNS         | CNS         | CNS         | CNS         | CNS   |
| 2. Activation Of CF Variable Without Call Completion           | CNS         | CNS         | CNS         | CNS         | CNS         |             | CNS   |
| 3. Call Forward Don't Answer Interoffice                       | CNS         | CNS         | CNS         | CNS         | CNS         | CNS         | CNS   |
| 4. Multiple Calls Forwarded To DID Interoffice                 | CNS         | CNS         | CNS         | CNS         | CNS         | CNS         | CNS   |
| 5. Call Forwarding With Status Information To Answering Bureau | BSE         | BSE         | BSE         | BSE         | BSE         |             | BSE   |
| 6. Activation of Call Forwarding Variable With Call Completion | CNS         | CNS         | CNS         | CNS         | CNS         | CNS         | CNS   |
| 7. Call Forwarding With Call Screening                         |             | CNS         | CNS         |             | CNS/<br>BSE | CNS         | CNS   |
| 8. Call Forwarding With Call Waiting                           |             |             | CNS         | CNS         | CNS         |             | CNS   |
| 9. Call Forwarding With Called and Calling Number              | BSE         | BSE         | BSE         | BSE         | BSE         |             | BSE   |
| 10. Call Forward Don't Answer With Variable Ring Counts        | CNS         | CNS         | CNS         | CNS         | CNS         | CNS         | CNS   |
| 11. Customer Control of CFBL/CFDA                              | CNS         |             | CNS         | CNS         | CNS         |             | CNS   |
| 12. Monitor & Barge In   |             |             |             |             |             |             |       |
| 13. SMDI   | BSE         | BSE         | BSE         | BSE         | BSE         |             | BSE   |
| 14. SMDI With Automatic Ringback                               |             |             |             |             |             |             | CNS   |
| 15. 3-Way Call Transfer  | BSE         | BSE         | BSE/<br>CNS | BSE         | BSE         |             | BSE   |
| 16. Speed Calling  | CNS         | CNS         | CNS         | CNS         | CNS         | CNS         | CNS   |
| 17. Remote Activation of Custom Calling Services               | CNS         | CNS         | CNS         | CNS         | CNS         | CNS         | CNS   |
| 18. ESP Notification Of ESP's Client Or BOC Control Action     |             |             |             |             |             |             |       |
| 19. Call Distribution Functions Including Queue                | BSE         | BSE         | BSE         | BSE         | BSE         | BSE         | BSE   |
| 20. Derived Local Channels                                     | CNS/<br>BSE | CNS/<br>BSA | CNS         | BSA         | CNS/<br>BSE | CNS/<br>BSA | BSA   |
| 21. Screening  | CNS         | CNS         | CNS         |             | CNS/<br>BSE | CNS         | CNS   |
| 22. Calling Directory Number Delivery                          | BSE         | BSE         | BSE/<br>CNS | BSE/<br>CNS | BSE         | CNS         | BSE   |
| 23. Delivery of Dialed Number                                  | BSE         | BSE         | BSE/<br>CNS | BSE/<br>CNS | BSE         | BSA         | BSE   |
| 24. Uniform Abbreviated Dialing                                |             | CNS         |             |             | CNS         |             | CNS   |
| 25. Multiline Hunt Groups                                      | BSE         | BSE         | BSE/<br>CNS | BSE         | BSE         | BSE         | BSE   |
| 26. Unlimited Size Hunt Groups                                 | BSE         | BSE         | BSE/<br>CNS | BSE         | BSE         | BSE         | BSE   |
| 27. Individual Access To Each Port In A Hunt Group             | BSE         | BSE         | BSE/<br>CNS | BSE         | BSE         | BSE         | BSE   |

| ESP REQUEST FOR NETWORK CAPABILITY                            | AM          | BA          | BS          | NX          | PB          | SW          | Qwest       |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 28. CLASS Features Interoffice                                | CNS         | CNS         | CNS/<br>BSE | CNS         | CNS/<br>BSE | CNS         | CNS/<br>BSE |
| 29. Suppressed Ringing  |             |             |             |             |             |             |             |
| 30. Trunk Side Access   | BSA         |
| 31. Trunk Side Connection With Power Ringing                  |             |             |             |             |             |             |             |
| 32. Access to Extended Superframe Data Channel                | BSE         | BSA         | BSA         | BSA         | BSA         | BSE         | BSA         |
| 33. Trunk Group Make Busy                                     | BSE         | BSE         | BSE/<br>CNS | BSE         | BSE         | BSE         | BSE         |
| 34. Message Waiting Indication                                | BSE/<br>CNS |
| 35. Answer Supervision (Connect/Disconnect Indications)- Line | BSE         | BSE         | BSE         |             | BSE         |             | BSE         |
| 36. Night Transfer  | BSE         | BSE         | BSE/<br>CNS | BSE/<br>CNS | BSE         | BSE         | BSE         |
| 37. Faster Signaling On DID                                   |             | BSE/<br>CNS | BSE/<br>CNS | BSE/<br>CNS | BSE         | BSA         | BSA         |
| 38. Post Dialing DTMF Signaling From Paystations              | YES         | YES         | BSA         | CNS         | YES         | CNS         | BSA         |
| 39. Selected Number Reverse Billing Rate Period Specific      | BSE         | BSE         |             |             | BSE         | BSE         | BSE         |
| 40. Single Number Access For Multiple Locations               |             | BSE         | CNS         |             |             |             | BSA         |
| 41. Ability To Notify Or Interrupt A Customer                 | BSE/<br>CNS | BSE/<br>CNS | BSE         | BSE/<br>CNS | BSE/<br>CNS | BSE/<br>CNS | BSE/<br>CNS |
| 42. Ability To Return Held Call To Customer                   |             |             |             |             |             |             |             |
| 43. Interconnection For Specialized Terminal Equipment        | BSA         |
| 44. Provision For Sharing An ESP Client Among ESPs            |             |             |             |             |             |             |             |
| 45. Custom Service Areas                                      | BSA         | BSE         | BSE         | BSA         | BSA         |             | BSE         |
| 46. Statistical Multiplexer at Central Office                 | BSA         | BSA/<br>BSE |             |             | BSA         | BSA         | BSA         |
| 47. X.25 Interface To Packet Switch                           | BSA         |
| 48. X.75 Interface To Packet Switch                           | BSA         |
| 49. Access To Data Services                                   | CNS         | CNS/<br>BSE | CNS         | BSE/<br>CNS | CNS/<br>BSE | CNS         | CNS         |
| 50. B-Channel Switched and Dedicated Access                   |             |             |             |             |             |             |             |
| 51. D-Channel Data Delivered on B-Channel                     |             |             |             |             |             |             |             |
| 52. Multiple D-Channels on B-Channel                          |             |             |             |             |             |             |             |
| 53. ESP Access to D-Channel Signaling                         |             |             |             |             |             |             |             |
| 54. Feature Node Service Interface (FN/SI)                    |             |             |             |             |             |             |             |

| ESP REQUEST FOR NETWORK CAPABILITY                           | AM          | BA          | BS          | NX  | PB          | SW  | Qwest |
|--|-------------|-------------|-------------|-----|-------------|-----|-------|
| 55. Service Control Point (SCP) Databases                    |             |             |             |     |             |     |       |
| 56. Term Sets and Inband Signaling on Analog Channels        | BSA         | BSA         | BSA         | BSA | BSA         | BSA | BSA   |
| 57. Access to Future Intelligent Functions of ISDN           |             |             |             |     |             |     |       |
| 58. Compatibility to Existing Terminals                      | BSA         | BSA         | BSA         | BSA | BSA         | BSA | BSA   |
| 59. Mapping ANI to User ID (X.75)                            |             |             |             |     |             |     |       |
| 60. Calls Accepted With BOC's DNIC or ESP's DNIC             | BSA         | BSA         |             |     | BSA         | BSA | BSA   |
| 61. Equal Access to Exchange Ntwk Switching and Transmission | BSA         | BSA         | BSA         | BSA | BSA         | BSA | BSA   |
| 62. Peak Traffic Handling Within Exchange Network            |             |             |             |     |             |     |       |
| 63. ESP Defined Dynamic Routing                              | BSE         | BSE         | BSE/<br>CNS | BSE | BSE         | BSE | BSE   |
| 64. Common Channel Signaling Access                          | BSA         |             |             | BSA | BSA         |     | BSA   |
| 65. Dynamic Allocation of Transmission Capacity              |             |             | BSE/<br>CNS |     |             |     |       |
| 66. Provision of BOC Network Status Information              |             |             |             |     |             |     |       |
| 67. Real Time Access To Exchange Network Testing Facilities  |             |             | BSE/<br>CNS |     |             |     |       |
| 68. Derived Channels That Comply With UL and NFPA            | CNS/<br>BSE | CNS         | BSA         | CNS | BSE/<br>CNS |     |       |
| 69. One Way Alarm Transmission                               | CNS         | BSA/<br>CNS | BSA         | BSA | BSA         | BSA |       |
| 70. Derived Channels Compatible with ISDN                    |             |             |             |     |             |     |       |
| 71. Digital Private Lines (DDS)                              | BSA         | BSA         | BSA         | BSA | BSA         | BSA | BSA   |
| 72. Diagnostic Channel on DS0 and Subrate Lines              | BSE         | BSE         | BSE/<br>CNS | BSE | BSE         | BSE | BSE   |
| 73. Error Detection / Error Correction                       | BSA         | BSA         | BSA         | BSA | BSA         | BSA | BSA   |
| 74. Ability to Detect Breaks in Telco Line Within 60 Seconds | CNS/<br>BSE | CNS/<br>BSA |             | BSA | CNS/<br>BSE |     |       |
| 75. Broadband Link(s) for Video Transmission                 | BSA         | BSA         | BSA         | BSA | BSA         | BSA | BSA   |
| 76. Ability To Reconfigure Networks                          | BSE         | BSE         | BSE/<br>CNS | BSE | BSE         | BSE | BSE   |
| 77. Route Diversity  | BSA/<br>BSE | BSA         | BSE/<br>CNS | BSE | BSA         | BSE | BSE   |
| 78. Automatic Protection Switching                           | BSE         | BSE         | BSE/<br>CNS | BSE | BSE         | BSE | BSE   |
| 79. Private Line Conditioning                                | BSE         | BSE         | BSE/<br>CNS | BSE | BSE         | BSE | BSE   |
| 80. Multiple Monitors per Loop                               | BSE/<br>CNS |             |             | CNS | CNS         |     |       |
| 81. Clear Access To Data Portion of Derived Channels         | BSA         | BSA         | BSA         | BSA | BSA         |     | BSA   |
| 82. Distinctive Ringing                                      | CNS         | CNS         | CNS         |     | CNS         | CNS | CNS   |

| ESP REQUEST FOR NETWORK CAPABILITY                           | AM          | BA  | BS          | NX          | PB  | SW         | Qwest |
|--|-------------|-----|-------------|-------------|-----|------------|-------|
| 83. 4-Wire Interconnection/Switching                         | BSA         | BSA |             | BSA         | BSA | BSA        | BSA   |
| 84. Access to Clear Channel Transmission                     | BSE/<br>BSA | BSE | BSA         | BSE         | BSE | BSE        | BSE   |
| 85. User Initiated Diagnostics                               |             |     | BSE/<br>CNS |             |     |            |       |
| 86. Pass Through Diagnostics To User                         |             |     | BSE/<br>CNS |             |     |            |       |
| 87. Inband Signaling   | BSA         | BSA | BSA         | BSA         | BSA | BSA        | BSA   |
| 88. Bridging   | BSE         | BSE | BSE/<br>CNS | BSE         | BSE | BSE        | BSE   |
| 89. Monthly Detailed Recording                               |             | BSE | BSE         | BSE/<br>CNS |     | AN/<br>BSE | BSE   |
| 90. Auto Disable Of Call Wtng Tone During Dial-Up Data Call  | CNS         | CNS | CNS         | CNS         | CNS | CNS        | CNS   |
| 91. Enable / Disable Network DTMF Signaling                  |             |     |             |             |     |            |       |
| 92. Passive In-Band DTMF Tone Transmission                   |             |     |             |             |     |            |       |
| 93. Extend DTMF Tone Set                                     |             |     |             |             |     |            |       |
| 94. Tone to Digital Translation                              |             |     |             |             |     |            |       |
| 95. Multiple Call Forwarding                                 | CNS         | CNS | CNS         | CNS         | CNS | CNS        | CNS   |
| 96. Virtual Dial Tone  | BSA         | BSA | BSA         | BSA         | BSA | BSA        | BSA   |
| 97. Remote Access to User Programmable Functions (Packet)    |             |     |             |             |     |            |       |
| 98. Remote Speed Call Menu Builder (Packet)                  |             |     |             |             |     |            |       |
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| 100. Remote Speed Call Menu Access Translator (Packet)       |             |     |             |             |     |            |       |
| 101. Carrier Selection on Reverse Charge                     | BSA         | BSE | BSA         | BSE         | BSE |            | BSA   |
| 102. Network Control By Customer From Customer Premises      |             |     |             |             |     |            |       |
| 103. Real Time Traffic Usage Data                            |             |     | BSE/<br>CNS |             |     |            |       |
| 104. Central Office Announcements                            | BSE         | BSE | BSE         | BSE         | BSE | BSE        | BSE   |
| 105. Name & Address of the Calling Party                     |             |     | CNS         |             |     |            |       |
| 106. Suppression of Audible Click on Call Fwding Interoffice |             |     |             |             |     |            |       |
| 107. Billing Number Delivery                                 | BSE         | BSE | BSE         | BSE         | BSE | BSE        | BSE   |
| 108. Privacy (Classes Of Non-Published Service)              |             |     |             |             |     |            |       |
| 109. Delivery Of Traveling Class Mark                        | BSE         | BSE | BSE         | BSE         | BSE | BSE        | BSE   |
| 110. User Nmbr Assoc. With Calling Nmbr and/or Svc ID Code   |             |     |             |             |     |            |       |

| ESP REQUEST FOR NETWORK CAPABILITY          | AM          | BA          | BS          | NX          | PB          | SW  | Qwest |
|---|-------------|-------------|-------------|-------------|-------------|-----|-------|
| 111. Warm Line                              | CNS         | CNS         | CNS         | BSE/<br>CNS | CNS         | CNS | CNS   |
| 112. Closed User Group (Packet)             | BSE/<br>CNS | BSE/<br>CNS | BSE/<br>CNS | BSE/<br>CNS | BSE         | BSE | BSE   |
| 113. Fast Select (Packet)                   | BSE/<br>CNS | BSE/<br>CNS | BSE/<br>CNS | BSE/<br>CNS | BSE/<br>CNS | BSE | BSE   |
| 114. Hunt Group (Packet)                    | BSE         | BSE         | BSE/<br>CNS | BSE/<br>CNS | BSE         | BSE | BSE   |
| 115. Call Redirection (Packet)              | BSE         | BSE         | BSE/<br>CNS | BSE/<br>CNS | BSE         | BSE | BSE   |
| 116. Direct Call (Packet)                   | CNS         | CNS         | CNS/<br>BSE | BSE/<br>CNS | CNS         | CNS | CNS   |
| 117. Programmed Default Call Forwarding     |             |             |             |             |             |     |       |
| 118. Restriction of Outgoing Calls (Packet) |             |             |             |             |             |     |       |

AN = ancillary service

Please note – recently, various BOCs have completed, or are in the process of completing, corporate mergers. For Appendix A and Appendix B of ONA Special Report #5, the old company names will continue to be used (for example, Bell Atlantic and NYNEX are listed separately, rather than being combined under the Verizon name; Southwestern Bell and Pacific Bell and Ameritech and BellSouth are listed separately, rather than being combined under the AT&T name).

**ATTACHMENT 3**

July 31, 2009

Enclosed please find the Services Descriptions section of the ONA Services User Guide. This updates the services descriptions information that was last released on January 31, 2009.

AT&T

Qwest Corporation

Verizon

**BELL OPERATING COMPANIES**

**Service Descriptions**  
**ONA Services User Guide**

**July 31, 2009**

**ONA Services**

**Names, Descriptions, Cross References**

## FOREWORD

Attached is the Services Descriptions section of the ONA Services User Guide, an update of information that was previously issued on January 31, 2009.

The Services Descriptions section of the ONA Services User Guide represents an agreement on the part of the BOCs for uniform names and technical descriptions of the Basic Serving Arrangements (BSAs), Basic Service Elements (BSEs) and Complementary Network Services (CNSs) that relate to the ESP requests included in BOC ONA Special Report Number 1, Issue 2 (October 1987). That Special Report is a compilation of the 118 requests received by all the BOCs during the input process for ESP requests prior to filing of the 2/1/88 ONA Plans. Some items, marked with an asterisk (\*) in their titles, have been deleted after the last issue of the report based on the availability of updated information indicating that they cannot be offered. For each service listed, a table is provided that gives an indication of which BOCs plan to offer the service, the individual BOC's product name, and whether the BOC classifies the service as a BSA, BSE or CNS.

The BSAs, which respond to the 118 ESP requests for ONA services, are listed in the following four categories of Basic Serving Arrangements:

- Circuit Switched Serving Arrangements

A circuit switched basic serving arrangement (BSA) provides an enhanced service provider (ESP) with a connection to the circuit switched network.

- Packet Switched Serving Arrangements

A packet switched BSA provides an ESP with a connection to the packet switched network.

- Dedicated Serving Arrangements

A dedicated BSA provides an ESP with a dedicated point-to-point connection through the network.

- Dedicated Network Access Link Serving Arrangements

A dedicated network access link (DNAL) BSA provides a dedicated data channel between the ESP's termination and a designated central office which contains the specific features required by the ESP. The DNAL is used to transmit control information from the ESP to the network or to deliver information from the network to the ESP.

Following the BSAs are the BSEs and CNSs, which are listed in alphabetical order in the above four BSA categories. These BSEs and CNSs respond to the 118 ESP requests for ONA services that were made to all BOCs. A description of each BSE or CNS is provided, which includes a brief technical description and a table listing the product name for each company that offers the service.

Appendix 1 contains a set of descriptions of ONA services that are offered by one or more BOC in response to requests received independent of the 118 ESP requests received by all BOCs. Included is a technical description and a table with the product name for each company that offers the service.

Appendix 2 contains a list of BOC contacts.

Appendix 3 contains the BSA Matrix, a report that shows the relationship between the BSAs and the BSEs included in the ONA Services User Guide. Included is a table showing the generic name for each BSA, and the specific name used by each company offering the BSA. Also included is a set of tables, one for each BSA, listing which BSEs are associated with the BSA for each company. These matrices only include generic BSAs and BSEs, and do not include the CNSs or any region specific services.

This report does not supersede any information provided in the BOC ONA plans and amendments. All capabilities described are not available in all switching or transmission systems. Generic descriptions of BSAs do not imply that applicable generic functions and capabilities are available or compatible with all types of BSAs. In addition, generic descriptions are intended for informational purposes and their existence does not imply that specific products and/or services are necessarily tariffed and/or available in any or all state/ federal jurisdictions within a particular company's service area. The BSAs, BSEs and CNSs identified in this report cannot be ordered until appropriate tariffs are effective. Some ONA services may not be tariffed in all areas. The reader should refer to the individual BOC ONA plans and amendments or the BOC contacts listed in Appendix 2 to this report for information on BOC availability and deployment plans for the technical capabilities described in this report.

References to switching system generics that have not yet been released by the vendors are based on our current information about which features are planned for inclusion in those generic releases. If the vendors change the availability of any features for future generic releases that are referenced in this document, the availability of some services may be affected.

Technical references that are publicly available are listed for each service, where available. Ordering information for each of the technical references may be found in the *Telcordia Technologies Catalog of Technical Information* (including ordering information for reference documents published by individual regional companies). To order, call 1-866-672-6997 toll free from anywhere in the USA; call (732) 699-6700 for foreign calls; fax (732) 336-2226.

**Recently, various BOCs have completed, or are in the process of completing, corporate mergers. For this document, the old company names will continue to be used (for example, Bell Atlantic and NYNEX are listed separately, rather than being combined under the Verizon name; Southwestern Bell and Pacific Bell and Ameritech and BellSouth are listed separately, rather than being combined under the AT&T name).**

Questions on this report should be directed to the BOC contacts listed in Appendix 2 to this report.

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## **BSA Descriptions**

BSAs have been arranged into four categories:

1. Circuit Switched
2. Packet Switched
3. Dedicated
4. Dedicated Network Access Link

Each category may have several types. Following are descriptions of the BSA categories and the associated BSA types.

## 1. Category 1 - Circuit Switched BSA

A circuit switched basic serving arrangement (BSA) provides an enhanced service provider (ESP) with a connection to the circuit switched network. This BSA is capable of supporting analog signals of approximately 300 to 3000 Hz or a circuit switched digital interface with a call type of digital encoded voice, 3.1 kHz or 7 kHz audio 56 kbps or 64 kbps data transmission. This BSA may also transmit voice grade analog data. The transmission interface may be 2-wire or 4-wire, or derived from a variety of multiplexing alternatives (for example, Digital Signal (DS) level 0 from DS level 1, or DS1 from DS3).

This BSA may support one-way or two-way directionality. Calls are set up and taken down on a call by call basis. The transport/usage element could be intra-office or inter-office.

Route diversity may be available with this serving arrangement.

### 1.1 Category 1, Type A - Circuit Switched Line BSA (1039)

#### Service Description

A circuit switched line BSA provides an ESP with a line side connection to the circuit switched network.

This line side connection could include alternative types of network connection, address and supervisory in-band or out-of-band signaling. Examples of network connections are standard telephone line or a line side type connection (e.g., PBX service). This BSA may support one-way or two-way directionality on a 2-wire or 4-wire transmission interface.

Calls are set up and taken down on a call by call basis. The calling scope may include, for example, an entire Local Access and Transport Area (LATA), a market area or be limited to all or part of a metropolitan area. Directory numbers are assigned from the North American Numbering Plan without any special routing or other use of the number.

| Generic Name of BSA                             | Regional Company BSA Name  |
|---|--|
| Category 1, Type A - Circuit Switched Line BSA* | AM - Circuit Switched Line   |
|   | BA - Business Individual Line  |
|   | BA - Line Side BSA - FX (3021)                                       |
|   | BA - Line Side BSA - IC (3022)                                       |
|   | BS - Voice Grade - Line - Circuit Switched                           |
|   | NX - Circuit Switched - Line   |
|   | PB - Access Line Arrangement   |
|   | SWB - Circuit Switched - Line Side Basic Serving Arrangement (BSA-A) |
| Qwest - Voice Grade - Line - Circuit Switched   |  |

\* Based on the Federal Communications Commission (FCC) CC Docket 89-79 Order dated July 11, 1991, there will be a new line side BSA on FCC approval of tariffs submitted November 1, 1991.