Frame Relay Service (4027,5037,8039)

This service provides fast packet transmission of customer data to and among Local Area Networks and host computers. Using statistical multiplexing, it allows customers to allocate circuit bandwidth to applications as needed and as available. Variable length frames are relayed from the source to the desired destination by means of virtual connections which are established at the time of subscription via Service Order.

This arrangement requires the use of separately purchased customer provided terminal equipment that functions as a multiplexer/bridge/router. The terminal equipment accumulates customer data and puts it into a frame relay format for transmission over the Frame Relay Network.

Generic Name of ONA Service	Product Name	
Frame Relay Service	BS - Exchange Access Frame Relay Service	BSA
	NX - Frame Relay Service	BSA
	Qwest - Frame Relay Service*	BSA

References:

- TR-TSV-001369 Generic Requirements for Frame Relay PVC Exchange Service, Issue 1, May 1993 [No longer listed.]
- TR-TSV-001370 Generic Requirements for Exchange Access Frame Relay PVC Service, Issue 1, May 1993 [No longer listed.]

* This service has been deemed non-dominant at the federal level in accordance with the Commission's Qwest Enterprise Forbearance Order, which granted relief to Qwest from its obligations under *Computer Inquiry* rules in connection with its existing packet-switched broadband telecommunications and existing optical transmission services. See In the Matter of Qwest Petition for Forbearance Under 47 U.S.C. § 160(c) from Title II and Computer Inquiry Rules with Respect to Broadband Services, Memorandum Opinion and Order, WC Docket No. 06125, FCC 08-168, rel Aug. 5, 2008.

McCulloh Loop (8052)

McCulloh Loop (LS2) is a low-speed voice grade, private line data service for alarm applications at speeds of 0-30 baud or –150 baud. McCulloh bridging permits bridging for multi-point applications. The cable facility used must be a metallic cable pair. Up to twenty-six locations can be bridged on one circuit. LS2 is available on an interstate basis. It may also be available on an intrastate basis (consult the appropriate Tariff Reference data to determine exact state availability).

Generic Name of ONA Service	Product Name	BSE or CNS
McCulloh Loop (LS2)	Qwest – McCulloh Loop (LS2)	BSA

Modem Aggregation Service (8044)

Modem Aggregation Service ("MAS") provides ESPs the ability to use Telephone Company-provided modems that are located in the Telephone Company central offices. MAS provides a dial-in number and a specified number of modems (in groups of ten), which the ESP can make available to their end users in order to provide dial-in access to the ESP's data network. End-user calls in excess of the subscribed-to number of modems will receive a subscriber busy signal. Connectivity between the modems and the customer's network is provided via standard Frame Relay Service ("FRS") or ATM Cell Relay Service ("CRS"). MAS requires the use of customer-provided equipment, located at the ESP's location, to interface with the end-user modem traffic that is being delivered over the FRS or ATM CRS to the ESP location. MAS is only available on an interstate basis.

Generic Name of ONA Service	Product Name	BSE or CNS
Modem Aggregation Service	Qwest – Modem Aggregation Service	BSA

Remote Access Service (4033)

Remote Access Service is a customer-controlled service that supports a dedicated, customer selected remote access server with backup dial-in capability for network management. Remote Access Service provides oneway ports for the collection, concentration, signaling and aggregation of an information service provider's (ISP's) dial-up data traffic into a hub site. This option will allow an ISP's end-user customer to call into a remote access server. Remote Access Service is available on an interstate and intrastate basis.

Generic Name of ONA Service	Product Name	BSE or CNS
Remote Access Service	BS – BellSouth Remote Access Service	BSA

Trunk Side Access Facility (4003)

This capability provides a trunk side connection from a Traffic Operator Position System (TOPS) Tandem switch to an ESP's premises. This connection will be a dedicated one way trunk group from each of the TOPS Tandem switches serving the end offices the ESP wishes to receive traffic from. This trunk group is designed to deliver the called number (UAN) and calling line ANI from the TOPS Tandem switch to the ESP. Feature Group D-like signaling will be used to communicate with the ESPs CPE.

This capability will only be available in the General Subscribers Services Tariff and only in conjunction with Uniform Access Number.

Generic Name of ONA Service	Product Name	
Trunk Side Access Facility	BS - Trunk Side Access Facility	BSA

References: not available.

555 Access Service (8038)

This service provides access to ESPs by their clients using a 555-XXXX telephone number. The service enables the ESP to have a uniform, LATA-wide, 10 digit (NPA-555-XXXX) telephone number. The same 555 number could be used in multiple LATAs where service is available.

Generic Name of ONA Service	Product Name	BSE or CNS
555 Access Service	Qwest - 555 Access Service	BSA

FEATURE OPERATION:

1. When a caller dials the unique 555 telephone number (1-NPA-555-XXXX) within a LATA, the call is routed to the caller's originating end office and then to the associated Traffic Operator Position Switch (TOPS) that serves the end office.

2. At the TOPS tandem the 555 call is translated into a unique 800 NXX-XXXX telephone number which is associated with each 555 telephone number or group of 555 telephone numbers. (The 800 telephone number is obtained by the 555 service subscriber.) [Note: 888, 877, 866, and 855 are now equivalent to 800.]

3. After the call is translated into an 800 telephone number, the 800 database is queried to identify the 555 Service subscriber's call routing instructions.

4. The 555 call is then routed in the standard Feature Group D format which includes the calling number, the called number (800 telephone number) and Automated Number Identification (ANI) information digits. ANI information digits are the digits that precede the calling number on the ANI record. ANI information digits inform the 555 Service subscriber of the calling party's class of service for billing, routing and other special handling purposes.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. The calling party, the TOPS tandem and the 555 subscriber's routing point must be in the same LATA. The routing point can be either the 555 subscriber's location or to their carrier of choice. In LATAs where more than one TOPS tandem is present, the 555 Service subscriber must subscribe to 555 Service from both TOPS tandems.

2. Calls from outside the LATA will be blocked. Blocking also applies to "0 minus" (e.g., for the hearing impaired, etc.), "0+" calls, and restricted classes of service.

3. This capability is currently available only from suitably equipped DMS200 Traffic Operator Position Switches.

2. Appendix 1 - Region Specific Services - Technical Descriptions for Circuit Switched Serving Arrangements

AIN Alternate Routing (4028)

This service allows customers to establish predetermined alternate routing plans for incoming voice and data traffic (e.g., MLHG, DID). Incoming calls can be rerouted to multiple (or a different) locations and/or announcements during varied emergency situations.

Generic Name of ONA Service	Product Name	BSE or CNS
AIN Alternate Routing	BS - CrisisLink[SM]	CNS

FEATURE OPERATION:

At the time this service is established, the customer predefines a set of directory numbers (DNs) to be protected in the event of a crisis. All DNs in the set receive the same default alternate handling when the service is activated. The DN set is loaded through the AIN Service Management System (SMS) into the Switching Control Point (SCP), where it remains dormant until activated via customer request to the Service Center. When a customer calls to activate their service, they may activate their default treatment, or may specify changes at the time of activation.

As an example, the incoming calls to a customer can be rerouted to the predefined DNsas follows:

— A% of calls are redirected to Backup DN 1

— B% of calls are redirected to Backup DN 2

— C% of calls are redirected to Backup DN 3

D% of calls are redirected to a DN associated with a customized announcement

— E% of calls are completed to the number originally dialed (partial crisis/restore)

— F% of calls are sent to a standard switch based announcement

This service uses two AIN 0.1 triggers: the Public Office Dialing Plan (PODP) trigger and the Termination Attempt Trigger (TAT). The distinction between the two is as follows:

- A PODP trigger is assigned to DNs which are served by a 5ESS terminating SSP (ASP Release 0.1B or later).
- A TAT is assigned to DNs which are served by a DMS-100 terminating SSP (NA003 or later).

[SM] CrisisLink is a service mark of BellSouth Corporation.

AIN Terminating Data Collection/Customized Routing (4029)

This service provides a customer with pertinent terminating traffic data information as well as the capability for customized routing arrangements.

Generic Name of ONA Service	Product Name	BSE or CNS
AIN Traffic Data/Routing	BS – Virtual Number Call Detail VNCD formerly AdWatch®	CNS

FEATURE OPERATION:

The customer's Directory Number (DN) becomes a "virtual" number either by reusing the customer's existing number (if it resides in a 5ESS switch), or by assigning the customer a new number in a 5ESS switch.

The customer's "virtual" number is listed as the customer's number in the Directory. Calls directory to this number can be handled as follows:

Data Collection

— counts of calls made to the virtual number including the calling party number

— call detail based on calls that receive busy or don't answer

— the customer is able to access the service via a VT100 terminal at up to 19.2 kbps, and the customer will be able to view and download call records.

Routing Functionality

— routing by day of week/time of day/% distribution to up to three locations

— routing from the virtual number to a set of locations based on geographic origination of the call

® AdWatch is a registered trademark of BellSouth Corporation.

Automatic Disaster Recovery of DID (5010)

This capability enables an ESP with multiple wire centers to provision the same Direct Inward Dialing (DID) numbers to automatically transfer to an alternate wire center in the event of a failure. The DID number will reside at the normal serving wire center. The wire centers must be connected by 1.544 Mbps interoffice facilities.

Generic Name of ONA Service	Product Name	BSE or CNS
Automatic Disaster Recovery of DID	NX - DID/DOD Disaster Recovery Service	BSE or CNS

FEATURE OPERATION:

This feature is activated in the event of a failure in the loop between the normal wire center and the customer premises. Incoming calls to lines connected to the normal wire center will be rerouted over the 1.544 Mbps trunks to the alternate wire center for completion. PBX customers obtain DID service from their normal serving wire center and an alternate wire center designated by the telephone company. DID service from the normal wire center and the alternate wire center will share an NXX that will reside at the normal wire center.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	5ESS	DMS-100
Earliest Generic Release	5E2	BCS27

2. Outgoing calls from the alternate wire center will not be affected.

Automatic Delivery (2019)

When an end user encounters a busy or don't answer condition on outgoing calls, this feature automatically forwards the calling party's call to a predetermined, dialable number served by the same or different central office switch.

Generic Name of ONA Service	Product Name	BSE or CNS
Automatic Delivery	AM - Automatic Delivery	CNS

FEATURE OPERATION:

This feature, where available, will forward calls from POTS and business linesto a dialable number.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	5ESS	DMS-100
Earliest Generic Release	5E12	NA 006

References: not available

This service, if offered as a BSE, is associated with the Circuit Switched Trunk Type BSA.

Bridging - Line (5001)

This provides the ability to connect an end user's switched exchange service to an ESP (e.g., telephone answering or voice messaging service provider). This capability is the traditional bridged service that provided answering services with a direct connection to the client's line.

Generic Name of ONA Service	Product Name	BSE or CNS
Bridging - Line	NX – Bridging (Secretarial)	BSE

Reference: GR 672 LSSGR: Bridge Services On An IDLC System, FSD 20-02-2010 (A Module of LSSGR, FR-64), Issue 1, June 2000, (replaces TR-TSY-000672, Issue 1 – no technical changes).

This service, if offered as a BSE, is associated with the Circuit Switched Line serving arrangement.

Call Denial On Line Or Hunt Group (6004)

This screening option limits terminating Circuit Switched Line calls to completion within the LATA where the Circuit Switched Line resides. InterLATA and International calls are blocked, as well as calls which may potentially terminate outside the LATA. The Call Denial option allows calls to terminate to any NXX within the LATA served by the Circuit Switched Line that does not have a special charge associated with it. Blocked calls are routed to a reorder tone or recorded announcement.

Call Denial On Line Or Hunt Group is useful to 900 services and the ESP industry for fraud control.

This feature is provided in all electronic end offices and, where available, in electro-mechanical end offices.

Generic Name of ONA Service	Product Name	BSE or CNS
Call Denial On Line Or Hunt Group	PB - Call Denial On Line Or Hunt Group	BSE

Reference GR-334 Switched Access Service: Transmission Parameter Limits and Interface Combinations, Issue 1, July 1994 (replaces TR-NWT-000334, Issue 3).

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

Call Detail Recording Reports - via NXX Screening (8014)

This service provides for call detail information to be recorded and made periodically available to ESPs via paper or magnetic tape format. The ESP is assigned a unique NXX code which alerts the originating central office to record call detail. Call detail includes: billing name, address and phone number; calling and called number; message date; and connect and disconnect time. Call detail is provided only for intraLATA calls. The ESP does not have to obtain access via Feature Groups A or D in order to obtain this service.

Generic Name of ONA Service	Product Name	BSE or CNS
Call Detail Recording Reports - via NXX Screening	Qwest - Network Access Service	BSE

Reference: GR 621 LSSGR: Traffic Data Provision Features, FSD 02-02-1200 (A Module of LSSGR, FR-64), Issue 1, June 2000 (replaces TR-NWT-000621, Issue 1 – no technical changes).

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

Call Forwarding Originating (2003)

Call Forwarding Originating is an optional basic service which is provisioned as an originating subscriber feature. It is responsible for detecting a busy or no-answer condition, and when detected, can invoke an announcement which offers the caller an option to leave a message. Call Forwarding Originating provides a trigger initiative to query the AIN Service Control Point (SCP) for routing information to direct the caller to their messaging provider of choice.

Generic Name of ONA Service	Product Name	BSE or CNS
Call Forwarding Options	AM - Special Delivery Service	CNS

FEATURE OPERATION:

Since the end office portion of the feature can only route to one telephone number, AIN functionality is combined with this feature to provide the capability to route to multiple providers. The AIN SCP stores a table that maps the originating telephone number to a chosen messaging provider. When the SCP is queried, the appropriate provider's telephone number is returned to the end office for final routing. The SS7 links will transport call set-up information (ISUP) between each end office, as well as provide connectivity to and from the SCP for call monitoring and routing information. The STP switches are responsible for routing SS7 messages to the appropriate AIN node (i.e., SCP, end office, tandem, etc.). This feature is modified on a fine basis by a service order.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	DMS-100
Earliest Generic Release	NA-004

References: Not available.

Call Forwarding To Multiple Locations (6002)

This capability allows a subscriber/user to selectively redirect calls arriving at his/her station set to two (and sometimes more than two) different answering points including multiple messaging services based on specific call situations.

Generic Name of ONA Service	Product Name	BSE or CNS
Call Forwarding To Multiple Locations	PB - Dual Telephone Coverage	CNS

References: Not available.

This service, if offered as a BSE, is associated with the Circuit Switched Line type basic serving arrangement.

CFDA To DID Intraswitch (8022)

Call Forwarding Don't Answer to DID Intraswitch allows calls to be forwarded to a DID number served from the same central office as the forwarded call when the called number fails to answer. This service is associated with DID service in 1A ESS central office switches and allows the DID trunk to receive calls forwarded on a Don't Answer basis from lines equipped with Call Forwarding Don't Answer. The called number and the forwarded-to number must be in the same central office switch.

Generic Name of ONA Service	Product Name	BSE or CNS
CFDA To DID Intraswitch	BS - CFDA	CNS *
	Qwest - Expanded Answer	CNS

References: not available.

* This capability is inherent in certain 1A ESS central office switches.

Call Queuing (8058)

Call Queuing is a network-based queuing service that allows subscribers to offer callers to their business the option to stay on the line, in queue, to speak with a live person rather than reaching a busy signal or being asked to leave a message. Call Queuing does not require any special equipment (CPE) or additional lines for callers in queue. Calls in queue will be stored on the telephone company Advanced Intelligent Network (AIN).

Generic Name of ONA Service	Product Name	BSE or CNS
Call Queuing	Qwest – Qwest Call Queuing	CNS

The service will be available in AIN local calling areas for many Lucent 1A ESS, Lucent 5ESS, and Nortel DMS 100 switches. The service does not work at this time with PBX DID lines, ISDN, Call Waiting, or Custom Ringing and 1A ESS ported numbers (LNP). It is not available to Radio Contest Lines.

Numeric Caller ID, when available, is passed on out-call notification of calls entering queue to a pager, cell phone or additional line. This is an optional feature and requires customer provided equipment.

The basic service includes two queue slots. One call can be stored in queue for each queue slot. An additional unit of two more queue slots may be added if the subscriber wishes to expand the service. There is a limit of 98 queue slots per service. Please refer to local tariffs for more specific information on availability details.

References: not available.

Call Transfer On DID (3002,4026,8034)

This capability allows an ESP with Direct Inward Dial (DID) trunks to add another party to an established incoming call, to perform a three way conference. After establishing the conference, the ESP may drop from the connection without disconnecting the remaining two parties. This action allows the ESP to transfer specific calls and free the ESP's line to receive another call.

Generic Name of ONA Service	Product Name	BSE or CNS
Call Transfer On DID	BA - 2-Way DID & Call Transfer	BSE
	BS - User Transfer On DID	BSE
	Qwest - DID 2-Way Call Transfer	BSE

1. This feature is available in the following central office switches:

Switch Type	1A ESS	5ESS
Earliest Generic Release	1AE8A	5E2

2. The DID trunk must be 2-way with E&M signaling.

3. In the 5ESS central office switches, the DID trunk must have DTMF capabilities.

This service, if offered as a BSE, is associated with the Circuit Switched Trunk basic serving arrangement.

Call Waiting (2005,3017,4018,5005)

The Call Waiting (CW) feature informs a busy station user, by a burst of tone, that another call is waiting. The busy station user may hang up and answer the second call or can place the original call on hold and answer the second call.

Generic Name of ONA Service	Product Name	BSE or CNS
Call Waiting	AM - Call Waiting	CNS
	BA - Call Waiting	CNS
	BS - Call Waiting	CNS
	NX - Call Waiting	CNS
	PB - Call Waiting	CNS
	Qwest - Call Waiting	CNS

FEATURE OPERATION:

An incoming call to a busy line with CW receives audible ringing. The line with Call Waiting receives a CW tone that is repeated once about 10 seconds after the initial burst of tone.

The line with CW may respond to the CW tone in one of three ways. The called party may disconnect from the existing call. The telephone will then be rung and, if answered, the called party will be connected to the waiting call. The second alternative allows the line with Call Waiting to flash the switch-hook (.75 to 1.5 seconds) and, thereby, place the original call on hold and connect to the incoming call. The party with CW may alternate between calls by flashing the switch-hook. The third alternative is not to respond to the CW tone.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	1A ESS	5ESS	DMS-100
Earliest Generic Release	1AE8	5E2	BCS17

2. If a line has Call Forwarding Busy Line (CFBL) and CW, the CW service normally takes precedence.

3. Given that a line has both CFBL and CW and is in the talk state, the first call attempting to terminate is treated as a CW call. Subsequent termination attempts are call forwarded.

4. On a line with both a make-busy key and CW, make-busy key takes precedence when the key is activated.

5. References:

   - GR-571 LSSGR: Call Waiting FSD 01-02-1201 (A Module of LSSGR, FR-64), Issue 1, June 2000, (replaces TR-TSY-000571 Issue 1 & Revision 1 – no technical changes).

   - GR-573 LSSGR: Business Group Call Waiting FSD 01-02-1205 (A Module of LSSGR, FR-64), Issue 1, June 2000 (replaces TR-TSY-000573 Issue 1 – no technical changes).

   - GR-219 LSSGR: CLASS[SM] Feature: Distinctive Ringing/Call Waiting, FSD 01-01-1110 (A Module of LSSGR, FR-64), Issue 2, April 2002 (replaces TR-TSY-000219 Issue 2 & Revision 1 & Bulletin 2 & GR-219 Issue 1).

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

[SM] CLASS is a service mark of Telcordia Technologies, Inc. (formerly Bellcore)

Calling Name Delivery (8045)

Calling Name Delivery, available to ISDN PRI subscribers, allows for the delivery of the calling party's name, as well as the calling party's number. The customer must have customer premises equipment (CPE)that will display the calling name.

Generic Name of ONA Service	Product Name	BSE or CNS
Calling Name Delivery	Qwest – Calling Name Delivery	BSE

References: not available.

Calling Name Identification (8049)

Calling Name Identification (CNI) is available to ISDN BRI subscribers. It displays the name and number of the calling party on the called party's ISDN terminal at the time of the incoming call. The name information includes up to 15 name characters, a private indication, or an unavailable indcation. If the calling party number is unavailable, then the calling party name is also unavailable.

Generic Name of ONA Service	Product Name	BSE or CNS
Calling Name Identification	Qwest – Calling Name Identification	CNS

References: not available.

Dial Call Waiting (8030)

Dial Call Waiting, when used in conjunction with the Distinctive Alert feature, will allow a subscriber (for example, an Enhanced Service Provider) to invoke a distinctive ring or call waiting tone on another line. The feature is initiated by dialing an access code in the form of *XX and the telephone number of the line to be called. For this feature to work, the called line must be equipped with the Distinctive Alert feature. If the line is idle, a distinctive ring will be applied. If the line is busy, the called party will receive a call waiting tone.

Both the line equipped with Dial Call Waiting and the line equipped with Distinctive Alert must be in the same central office switch. Other technical considerations also apply.

Generic Name of ONA Service	Product Name	BSE or CNS
Dial Call Waiting	Qwest - Dial Call Waiting	BSE

This feature is available in the following central office switches:

Switch Type	5ESS
Earliest Generic Release	5E2

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

Dialed Number Identification via INWATS to DID (4011,5015)

Dialed Number Identification Service on 800 Service (also known as INWATS Directed to DID trunks), is a service for use in conjunction with an ESP's voice grade trunk (DID) circuit switched basic serving arrangement. Incoming 800 Service calls are terminated over DID trunks, thereby indicating the 800 number that was dialed by the calling party. The ESP knows the station number associated with each 800 number so when it receives the station number over the DID trunk it can identify the 800 number called. [Note: 888, 877, 866, and 855 are now equivalent to 800.]

Generic Name of ONA Service	Product Name	BSE or CNS
Dialed Number Identification Via INWATS to DID*	BS - 800 Service to DID Service	BSE or CNS
	NX - DNIS On 800	BSE

References: not available

This service, if offered as a BSE, is associated with the Circuit Switched Trunk serving arrangement.

* Qwest withdrew their offering for this service in the 5/19/89 ONA Plan Amendments.

DID Load Across Wire Centers (5011)

This capability enables an ESP with multiple wire centers to provision the same Direct Inward Dialing (DID) numbers at duplicate wire centers. The DID number will reside at the normal serving wire center. The wire centers must be connected by 1.544 Mbps interoffice facilities.

Generic Name of ONA Service	Product Name	BSE or CNS
DID Load Across Wire Centers	NX - DID/DOD Disaster Recovery Service	BSE or CNS

FEATURE OPERATION:

This feature is activated in the event of a failure in the loop between the normal wire center and the customer premises. Incoming calls to lines connected to the normal wire center will be rerouted over the 1.544 Mbps interoffice trunks to the alternate wire center for completion. PBX customers obtain DID service from their normal serving wire center and an alternate wire center designated by the telephone company. DID service from the normal wire center and the alternate wire center will share an NXX that will reside at the normal wire center.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	5ESS	DMS-100
Earliest Generic Release	5E2	BCS27

2. Outgoing calls from the alternate wire center will not be affected. Lines connected to the normal wire center will be out of service.