EXHIBIT OSS – 46

Pre-Ordering, Ordering, and Provisioning for Unbundled Loops and UNE-P

Pre-Ordering
Ordering
Provisioning
for

UNE loops and UNE-P

Acronyms

ATLAS - Application for Telephone Number Load Administration and Selection

CABS - Carrier Access Billing System

CN - Confirmation Notice

COSMOS - COmputer System for Mainframe OperationS

CRIS - Customer Record Information System

EDI - Electronic Data Interchange

FOC - Firm Order Confirmation

LENS - Local Exchange Navigation System

LEO - Local Exchange Ordering system

LESOG - Local Exchange Service Order Generator

LFACS - Loop Facilities Assignment and Control System

LMOS - Loop Maintenance Operations System

LSR - Local Service Request

NSDB - Network Services Database

OSS - Operations Support System

RSAG - Regional Street Address Guide

SOAC - Service Order Analysis & Control

SOCS - Service Order Communications System

TAG - Telecommunication Access Gateway

TIRKS - Trunks Integrated Record Keeping System

WFA - Work Force Administration

WFA-C - Work Force Administration-Control

WFA-DI - Work Force Administration -Dispatch In

WFA-DO - Work Force Administration -Dispatch Out

Pre-Ordering
Ordering
Provisioning
for

UNE LOOP
(SL1 & SL2)

Pre-Ordering

This section describes the pre-ordering steps to submit an LSR for an unbundled SL1 or SL2 loop.

Please refer to Appendix A, figure A-1 for the pre-ordering flow.

Address validation is the only necessary pre-ordering step for an unbundled SL1 or SL2 loop. The CLEC must validated the end user's address to ensure a clean and correct LSR. Please refer to Appendix B, figures B-1 through B-4 (screen captures for address validation).

To validate an address, the CLEC service representative enters the end user's address into the CLEC's client. Next, the CLEC's server sends the address across the TAG gateway. Then, BellSouth's RSAG database validates the address.

RSAG sends the valid address across the TAG gateway to the CLEC's server. The CLEC's server sends the data to the CLEC's client for display to the CLEC's service representative.

RSAG returns the validated address in a parsed format. The CLEC can integrate the parsed address into its OSS in order to place an LSR. This is illustrated in Appendix B, figure B-3.

Ordering

This section describes the ordering steps to submit an LSR for an unbundled SL1 or SL2 loop.

Please refer to Appendix A, figures A-2 for the ordering flow.

After completing the necessary pre-ordering steps, the CLEC's service representative can use TAG or EDI to input the LSR. Please refer to Appendix B, figures B-7 through B-12 (screen prints of ordering).

After the CLEC's service representative enters the required data in the CLEC's ordering system, the CLEC's server performs certain up-front editing. This includes editing for required fields, valid data types, and combinations of data for different fields.

If the LSR passes these edit checks, the CLEC's server submits the LSR. The LSR is sent across the TAG gateway and into LEO.

LEO performs certain edit checks and data formatting to ensure a complete and correct LSR. If it finds any errors, LEO sends a clarification back to the CLEC's server. The clarification describes the error so that the CLEC understands the error. If the LSR contains no errors, LEO electronically submits the LSR to LESOG.

LESOG applies additional edits to the LSR. If LESOG finds an error, LESOG sends a clarification explaining the error to the CLEC's server. After verifying that the LSR is error free, LESOG manipulates the LSR into BellSouth's service order record formats so that the order can be handled by BellSouth's downstream OSS. LESOG transmits the service order to SOCS.

When SOCS receives the service order, it applies the remaining edit checks to it. If SOCS finds an error, SOCS sends a clarification explaining the error to the CLEC's server. If the service order passes the additional edit checks and is accepted by SOCS, SOCS sends an FOC to LEO, which, in turn, sends the FOC to the CLEC's server.

Provisioning

This section describes the steps for the provisioning an unbundled SL1 loop. The SL1 loop is "non-designed."

Please refer to Appendix A, Figure A-3 for the provisioning flow.

SOCS assigns an order number to the order and passes the order electronically to SOAC. Then, SOAC routes the service order data to downstream assignment systems.

LFACS uses the validated address from the service order and the loop inventory data to select and assign the loop facilities.

COSMOS makes the assignments on the main distribution frame in the central office to cross connect the CLEC switch port to the loop facility assigned by LFACS.

COSMOS issues a frame work order to the central office personnel to perform the frame cross connect wiring functions in accordance with the service order.

COSMOS returns the switch port and loop assignment information to SOAC for entry into the service order assignment section.

SOAC transmits a copy of the service order back to SOCS. SOCS routes a copy of the service order image to the LMOS.

LMOS updates the record of the service and assignments. LMOS is used by other operations systems and personnel during maintenance and repair activities.

By generating a work order to the Work Management Center load control group that dispatches field technicians, LMOS initiates the dispatch of a field technician to cutover the loop on the date specified on the order.

After the field technician completes the order, LMOS sends the completed order back to SOCS. SOCS sends the order to CRIS to start billing the service.

After the downstream OSS notifies SOCS that the service order is complete, SOCS sends a CN to LEO, which, in turn, sends the CN to the CLEC's server.

Provisioning

This section describes the steps for the provisioning an unbundled SL2 loop. The SL2 loop is “designed.”

Please refer to Appendix A, Figure A-4 for an illustration of the process flow.

SOCS assigns an order number to the order and passes the order electronically to SOAC. Then, SOAC routes the service order data to downstream assignment systems.

The LFACS uses the validated address from the service order and the loop inventory data to select and assign the loop facilities.

SOAC next routes the service order to TIRKS for access by the Circuit Provisioning Group to design the circuit.

TIRKS coordinates the necessary assignments and issues the Work Order Record Details document into the next downstream systems.

TIRKS sends the Work Order Record Details document to the NSDB and to the WFA system modules. The WFA-C module is used by the UNE Center to coordinate the installation, testing, and turn-up of the loop. The WFA-DO module is used by the WMC to dispatch field Special Services Installation & Maintenance technicians. The WFA-DI module is used to dispatch central office (inside) technicians.

The UNE Center completes the order in WFA-C after the work is completed and successfully tested. WFA-C reports the completion back to TIRKS, which updates its database and passes the completion notice back to SOCS.

SOCS sends the record to the Carrier Access Billing System (CABS) to start the billing process.

After the downstream OSS notifies SOCS that the service order is complete, SOCS sends a Completion Notice (CN) to LEO, which, in turn, sends the CN to the CLEC’s server.

Pre-Ordering
Ordering
Provisioning
for

UNE-P

Pre-Ordering

This section describes the pre-ordering steps to submit an LSR for UNE-P.

Please refer to Appendix, figure A-1 A for the pre-ordering flow.

If the end user is an established customer, address validation is the only necessary pre-ordering step for UNE-P. The CLEC must validate the end user's address to ensure a clean and correct LSR. If the end user is a new customer, then the CLEC also must reserve a telephone number from the BellSouth's ATLAS database.

To validate an address, the CLEC service representative enters the end user's address into the CLEC's client. Next, the CLEC's server sends the address across the TAG gateway. Then, BellSouth's RSAG database validates the address. Please refer to Appendix B, figures B-1 through B-4 (screen prints for address validation).

RSAG returns the validated address in a parsed format. The CLEC can integrate the parsed address into its OSS in order to place an LSR. This is illustrated in Appendix B, figure B-3.

To reserve a telephone number, the CLEC service representative sends a request from the CLEC's client. Next, the CLEC's server sends the request across the TAG gateway and into ATLAS. ATLAS then returns the amount of telephone numbers requested by the CLEC and then takes those numbers off the "available list" in ATLAS. Please refer to Appendix B, figures B-5 and B-6 (screen prints for telephone reservation).

Ordering

This section describes the ordering steps to submit an LSR for UNE-P

Please refer to Appendix A, figure A-2 for the ordering flow.

After completing the necessary pre-ordering steps, the CLEC's service representative can use TAG or EDI to input the LSR. Please refer to Appendix B, figures B-13 through B-17 (screen prints of ordering).

After the CLEC's service representative enters the required data in the CLEC's ordering system, the CLEC's server performs certain up-front editing. This includes editing for required fields, valid data types, and combinations of data for different fields.

If the LSR passes these edit checks, the CLEC's server submits the LSR. The LSR is sent across the TAG gateway and into LEO.

LEO performs certain edit checks and data formatting to ensure a complete and correct LSR. If it finds any errors, LEO sends a clarification back to the CLEC's server. The clarification describes the error so that the CLEC understands the error. If the LSR contains no errors, LEO electronically submits the LSR to the Local Exchange Service Order Generator (LESOG).

LESOG applies additional edits to the LSR. If LESOG finds an error, LESOG sends a clarification explaining the error to the CLEC's server. After verifying that the LSR is error free, LESOG manipulates the LSR into BellSouth's service order record formats so that the order can be handled by BellSouth's downstream OSS. LESOG transmits the service order to SOCS.

When SOCS receives the service order, it applies the remaining edit checks to it. If SOCS finds an error, SOCS sends a clarification explaining the error to the CLEC's server. If the service order passes the additional edit checks and is accepted by SOCS, SOCS sends an FOC to LEO, which, in turn, sends the FOC to the CLEC's server.

Provisioning

This section will describe the steps for the provisioning of UNE-P. UNE-P is "non-designed."

Please refer to Appendix A, figure A-3 for the provisioning flow.

SOCS assigns an order number to the service order and passes the order electronically to SOAC. Then, SOAC routes the service order data to downstream assignment systems.

LFACS uses the validated address from the service order and the loop inventory data to select and assign the loop facilities.

COSMOS makes the assignments on the main distribution frame in the central office to cross connect the CLEC switch port to the loop facility assigned by LFACS.

COSMOS issues a frame work order to the central office personnel to perform the frame cross connect wiring functions in accordance with the service order.

COSMOS returns the switch port and loop assignment information to SOAC for entry into the service order assignment section.

SOAC transmits a copy of the service order back to SOCS. SOCS routes a copy of the service order image to the LMOS.

LMOS updates the record of the service and assignment. LMOS is used by other operation systems and personnel during maintenance and repair activities.

By generating a work order to the WMC load control group that dispatches field technicians, LMOS initiates the dispatch of a field technician to cutover the loop on the date specified on the order.

After the field technician completes the order, LMOS sends the completed order back to SOCS. SOCS sends to the order to CRIS to start billing the service.

Later, after the downstream OSS notifies SOCS that the service order is complete, SOCS sends a CN to LEO, which, in turn, sends the CN to the CLEC's server. The CN confirms the establishment of service.

Appendix A

Process Flows
for

Pre-Ordering, Ordering,
&
Provisioning

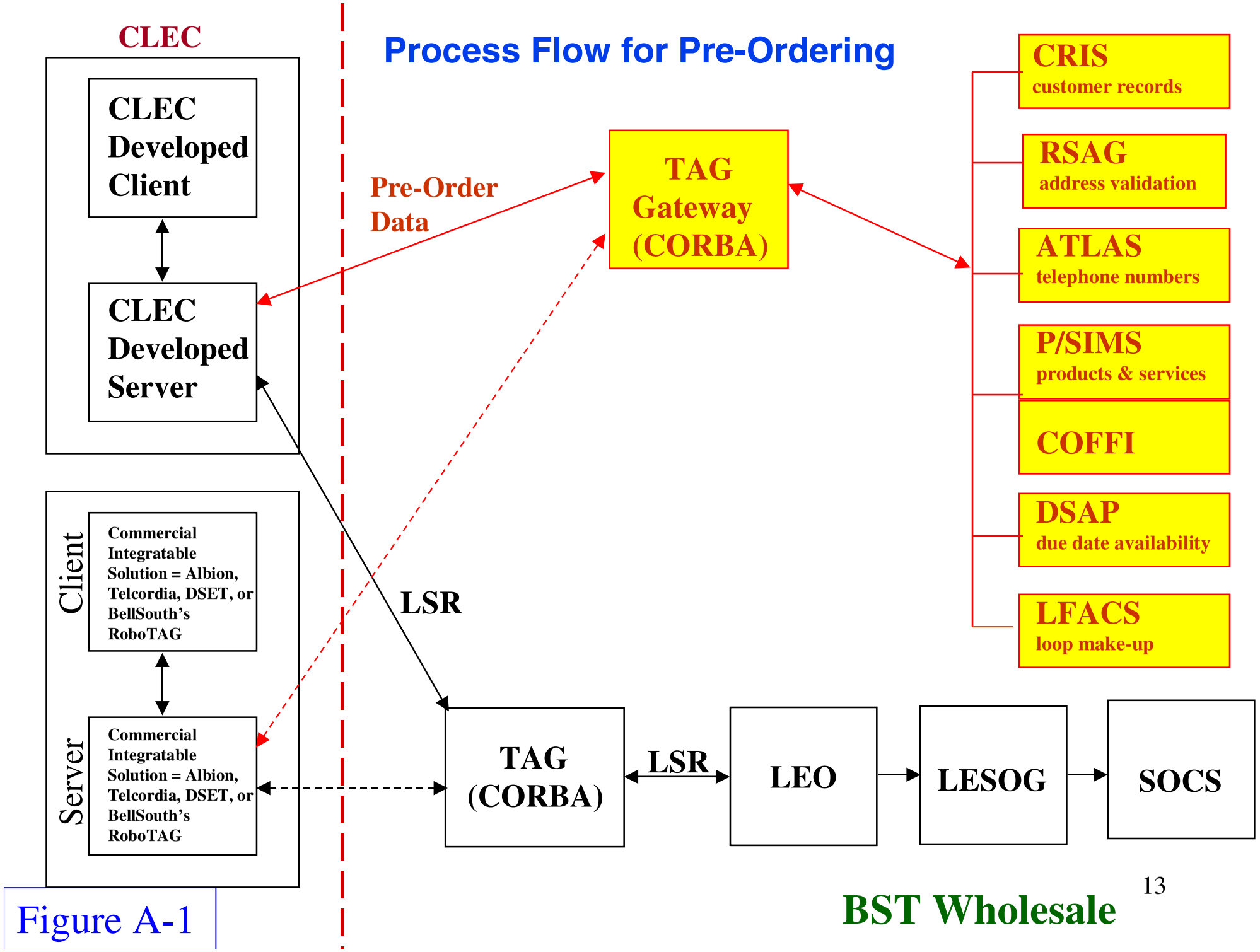

CLEC
Process Flow for Pre-Ordering
CLEC Developed Client
CLEC Developed Server
Pre-Order Data
TAG Gateway (CORBA)
CRIS
customer records
RSAG
address validation
ATLAS
telephone numbers
P/SIMS
products & services
COFFI
DSAP
due date availability
LFACS
loop make-up
Client
Commercial Integratable Solution = Albion, Telcordia, DSET, or BellSouth's RoboTAG
Server
Commercial Integratable Solution = Albion, Telcordia, DSET, or BellSouth's RoboTAG
LSR
TAG (CORBA)
LSR
LEO
LESOG
SOCS
BST Wholesale

Figure A-1

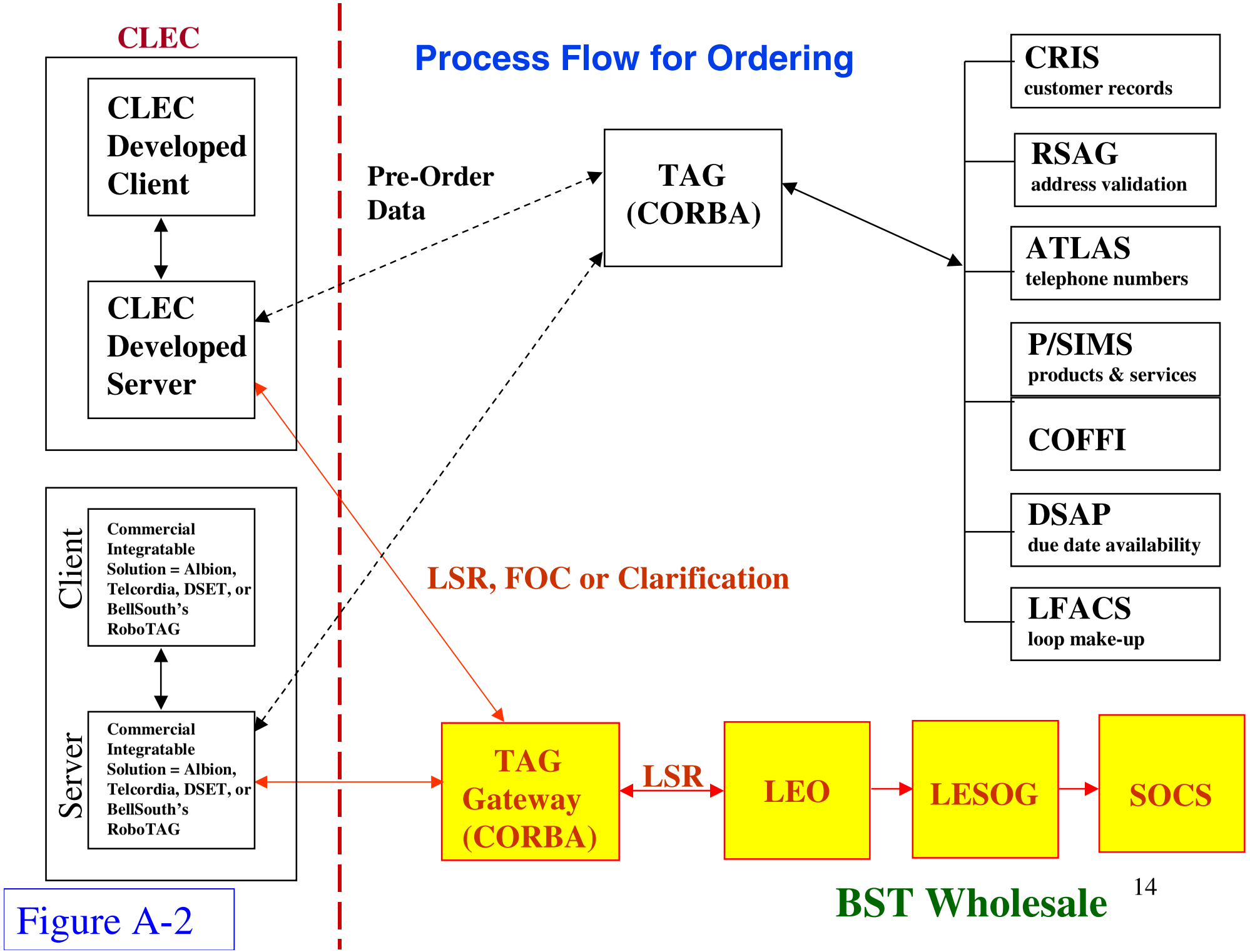

CLEC
CLEC Developed Client
CLEC Developed Server
Process Flow for Ordering
Pre-Order Data
TAG (CORBA)
CRIS
customer records
RSAG
address validation
ATLAS
telephone numbers
P/SIMS
products & services
COFFI
DSAP
due date availability
LFACS
loop make-up
Client
Commercial Integratable Solution = Albion, Telcordia, DSET, or BellSouth's RoboTAG
Server
Commercial Integratable Solution = Albion, Telcordia, DSET, or BellSouth's RoboTAG
LSR, FOC or Clarification
TAG Gateway (CORBA)
LSR
LEO
LESOG
SOCS
BST Wholesale

Figure A-2

Process Flow for Provisioning (Non Designed Circuits)

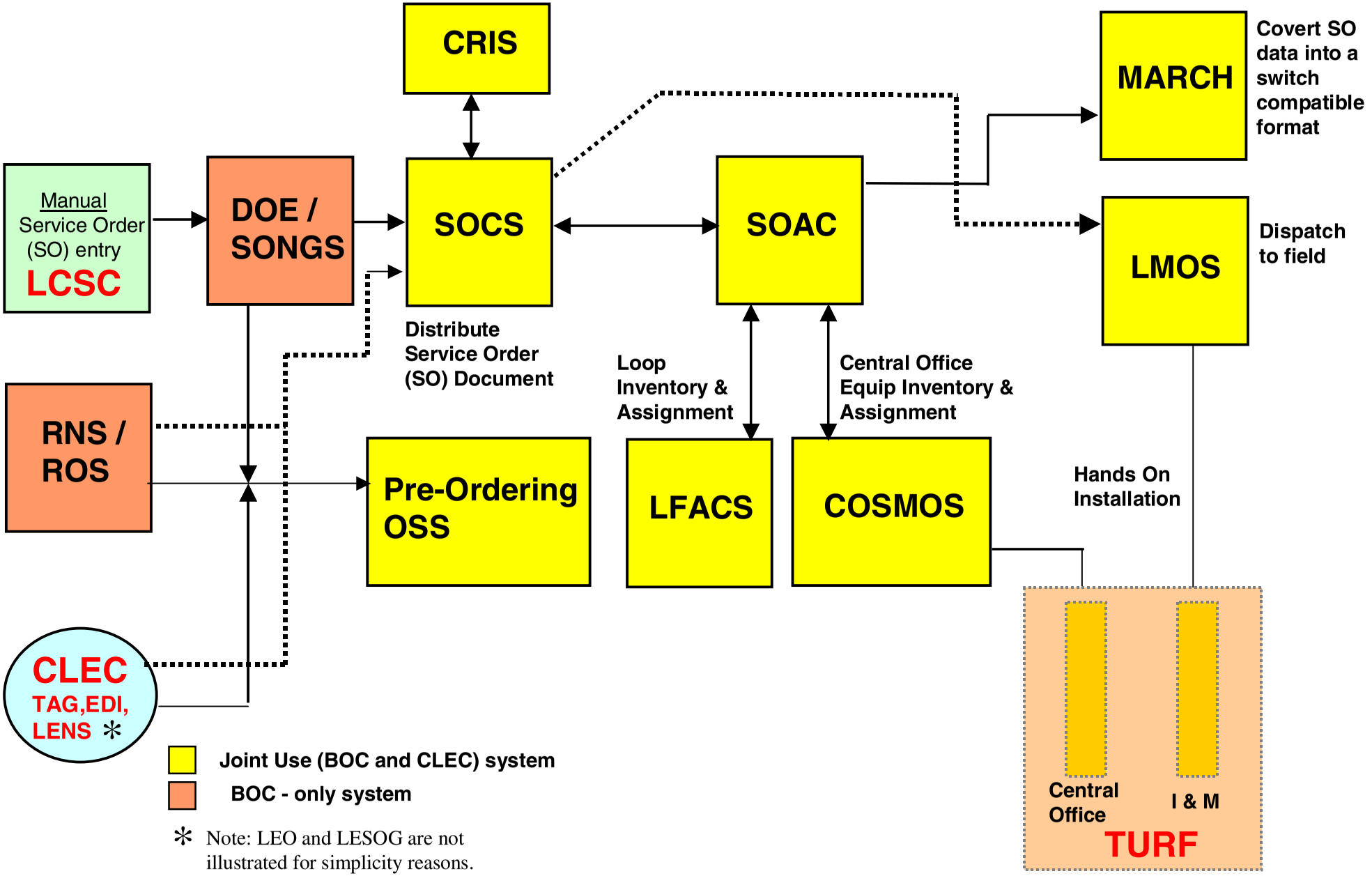


Figure A-3

Process Flow for Provisioning (Designed Circuits)

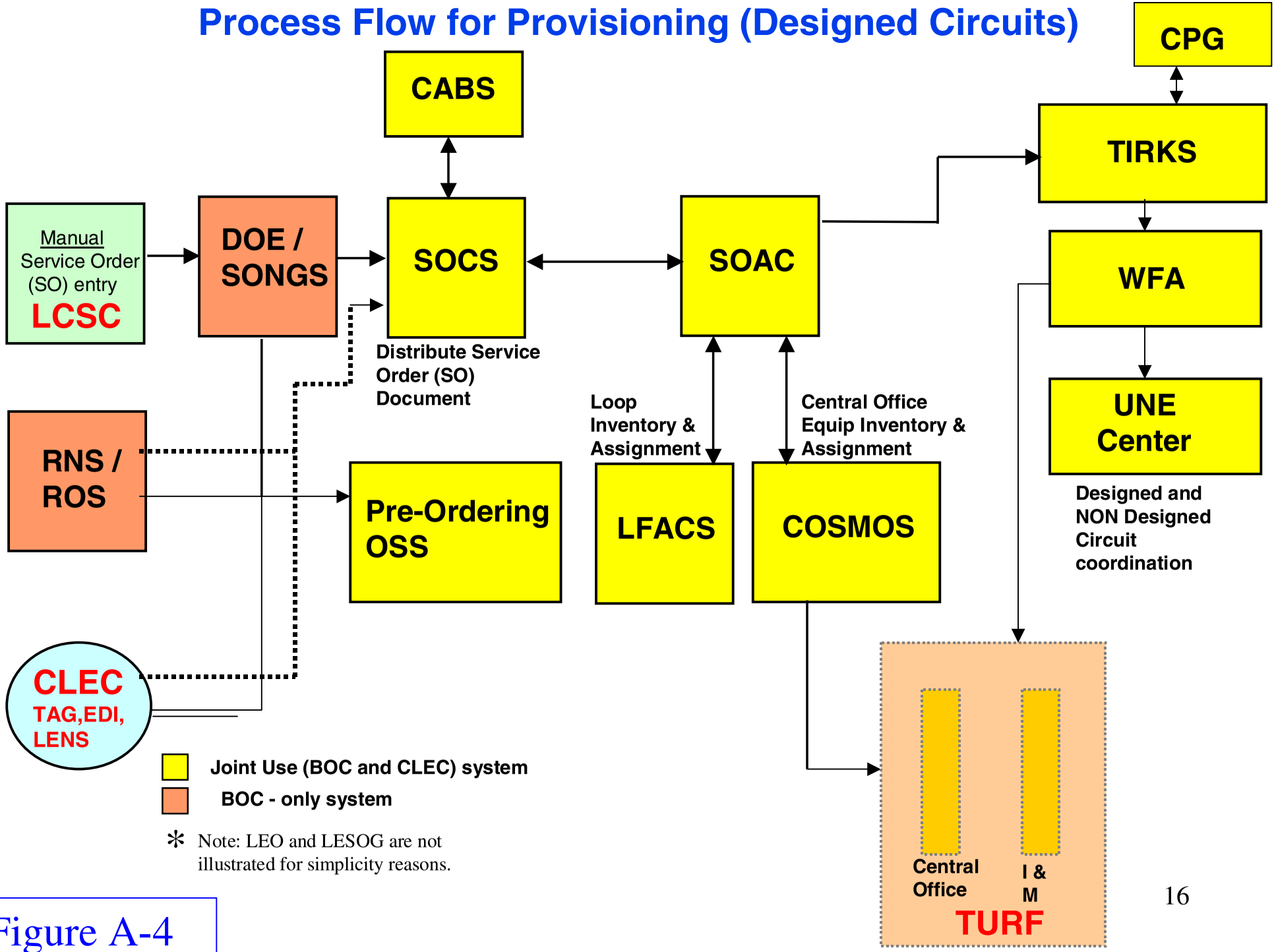


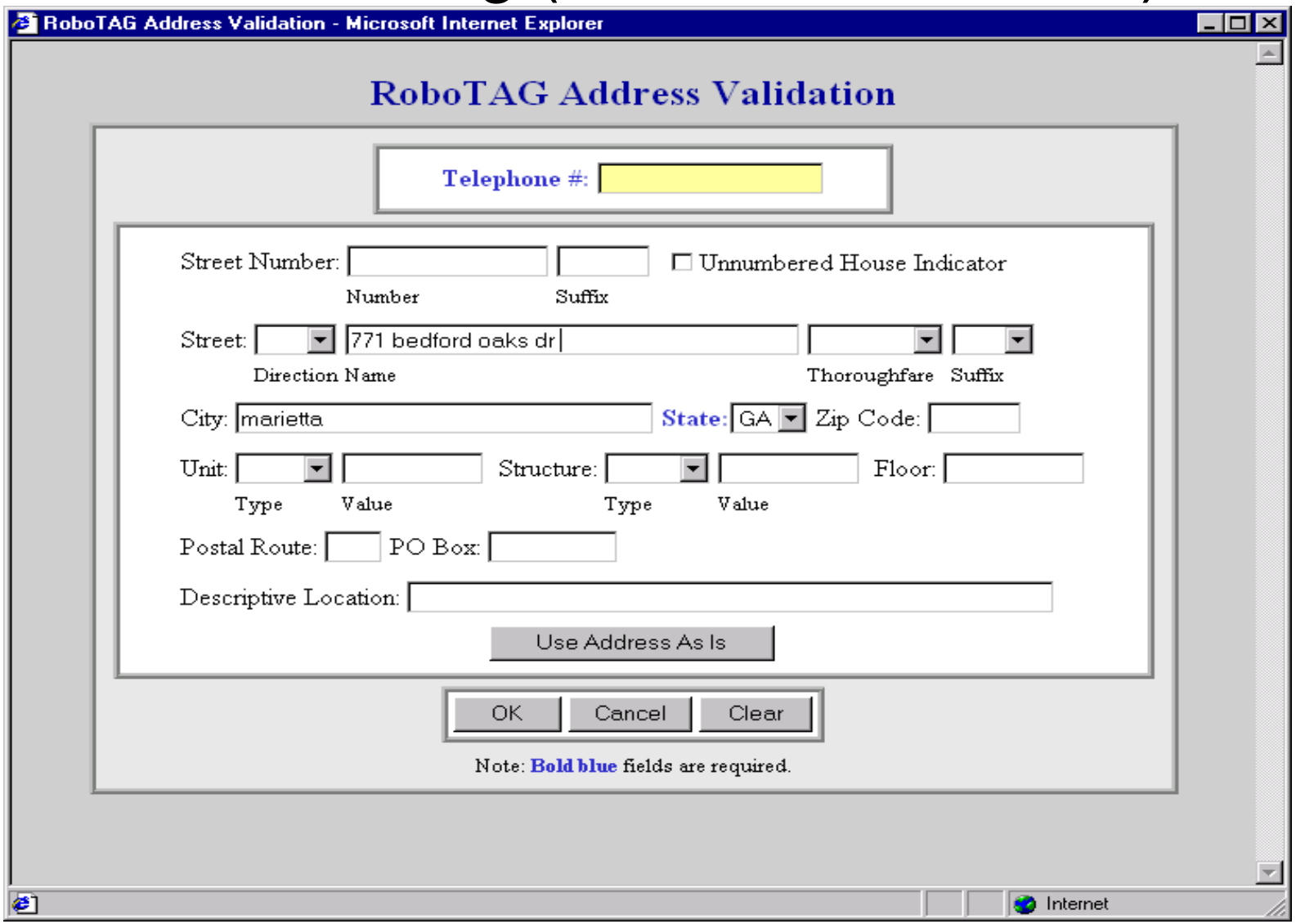
Figure A-4

Appendix B

Screen Prints
for
Pre-Ordering & Ordering

BellSouth uses the RoboTAG™ interface to demonstrate pre-ordering and ordering.

Pre–Ordering (Address Validation)



The address is entered into RoboTAG™, then sent across the TAG gateway to RSAG for validation.

Figure B-1

Pre–Ordering (Address Validation)

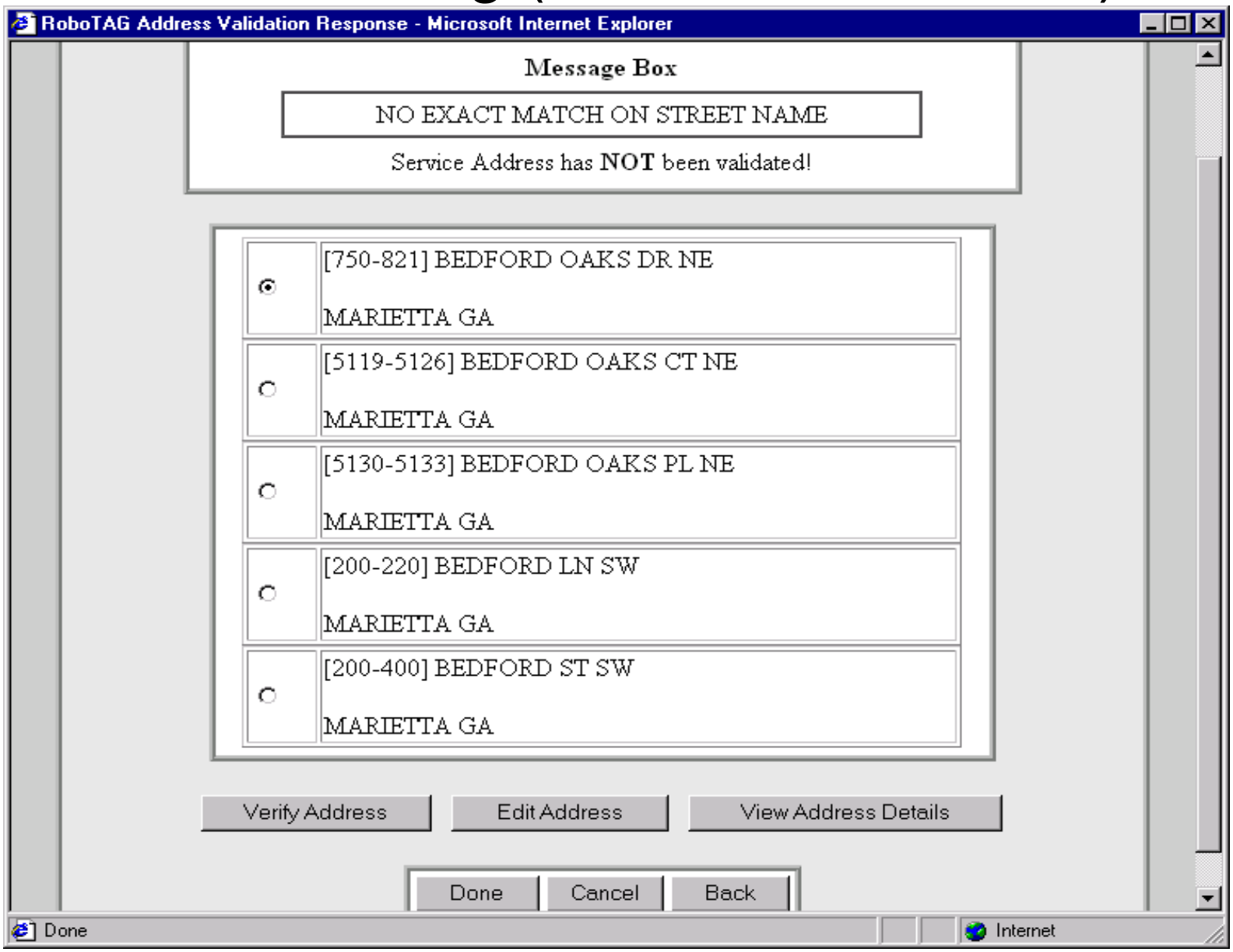


Figure B-2

Pre–Ordering (Address Validation)

Parsed Address

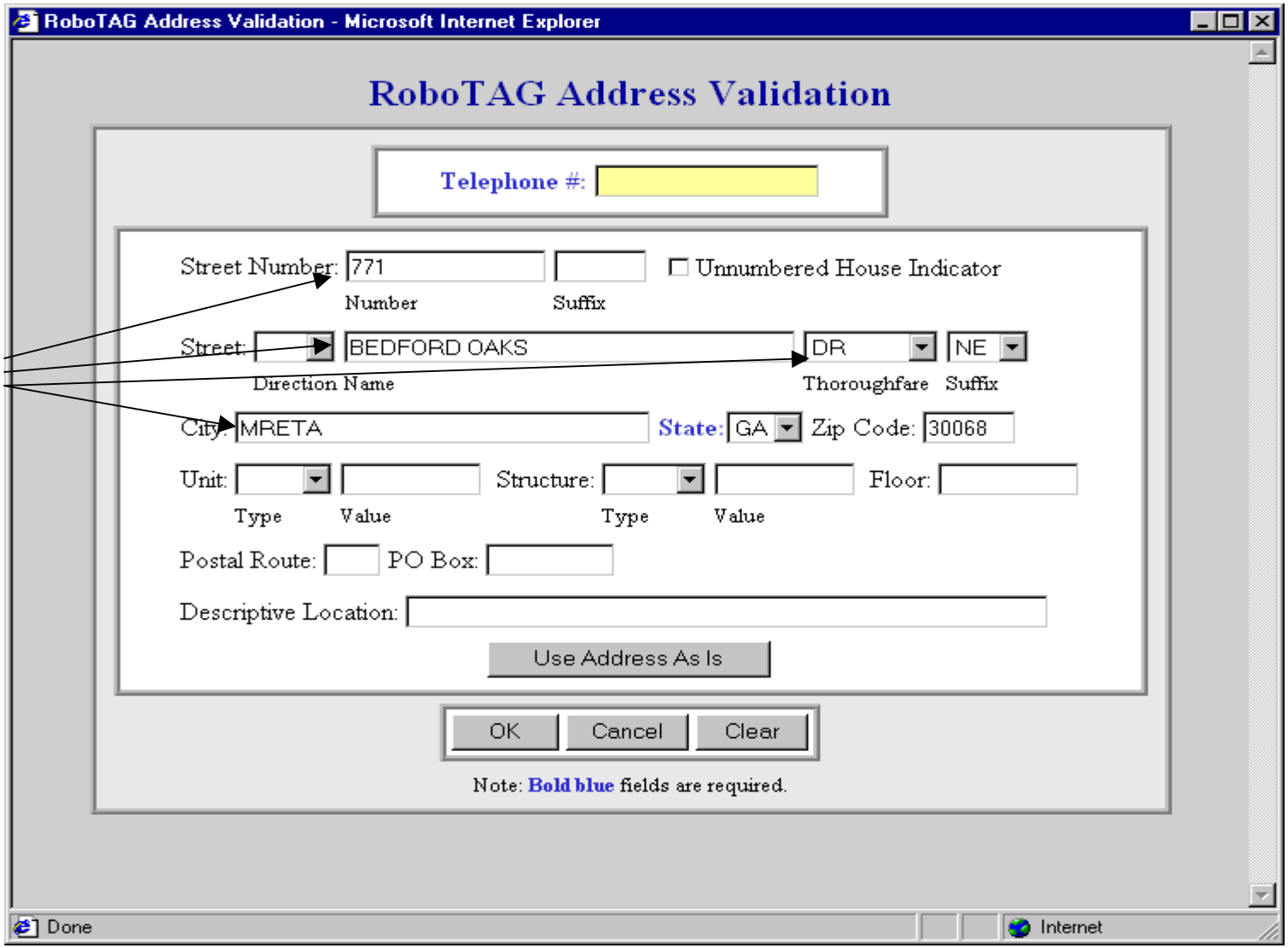


Figure B-3

Pre–Ordering (Address Validation)

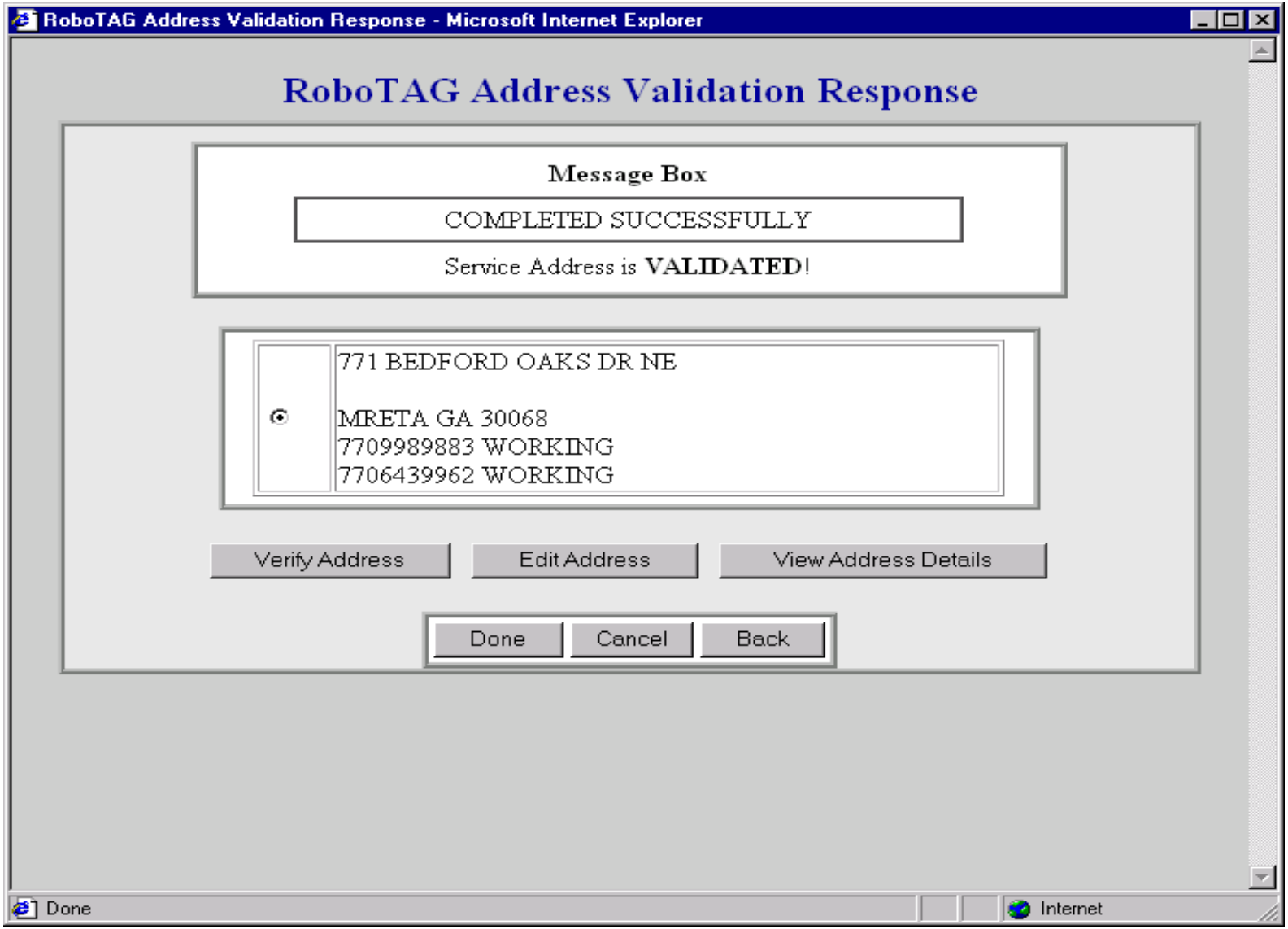


Figure B-4

Pre–Ordering (Telephone Reservation)

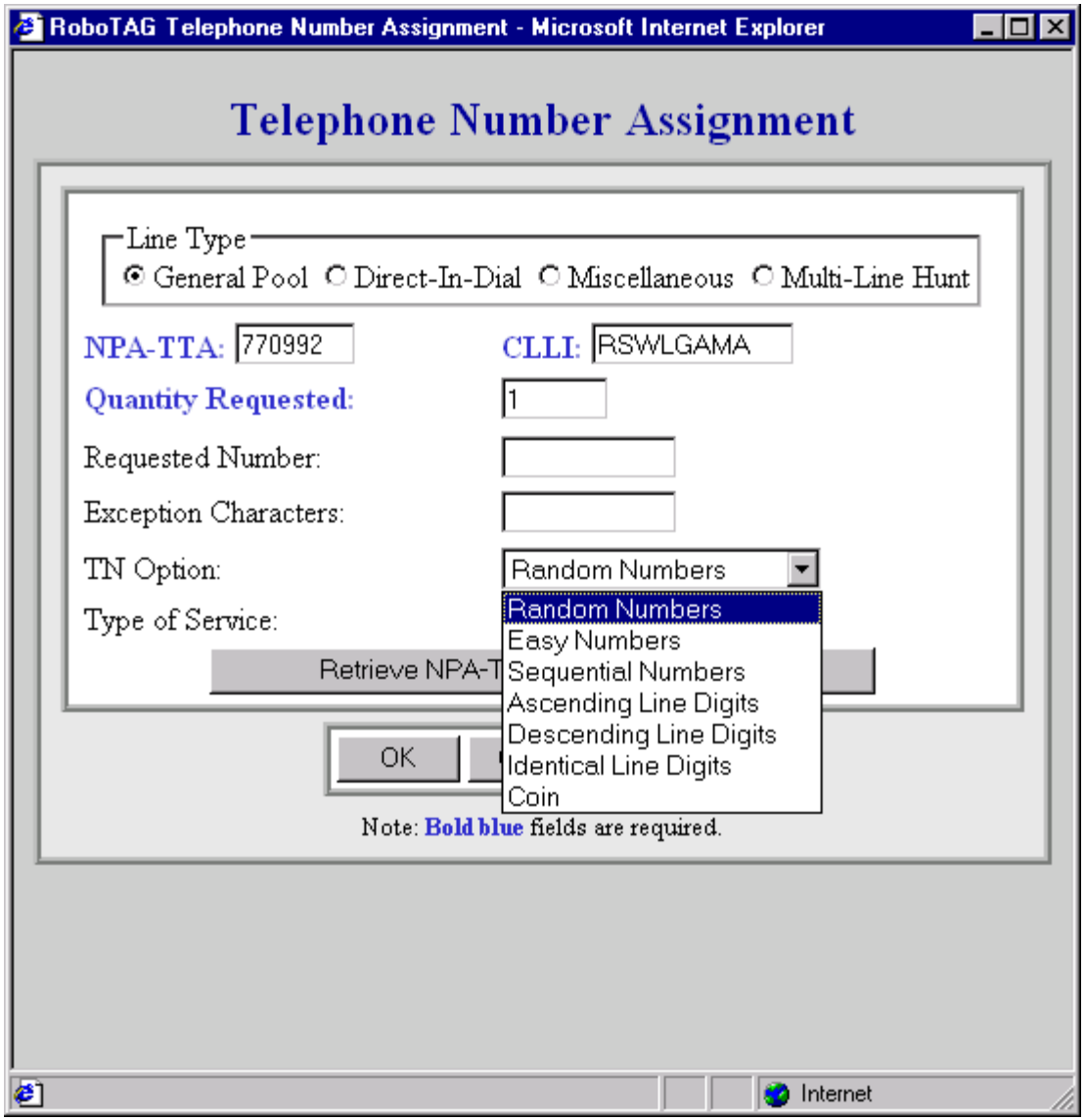


Figure B-5

Pre–Ordering (Telephone Reservation)

Figure B-6

Ordering (Order Initialization)

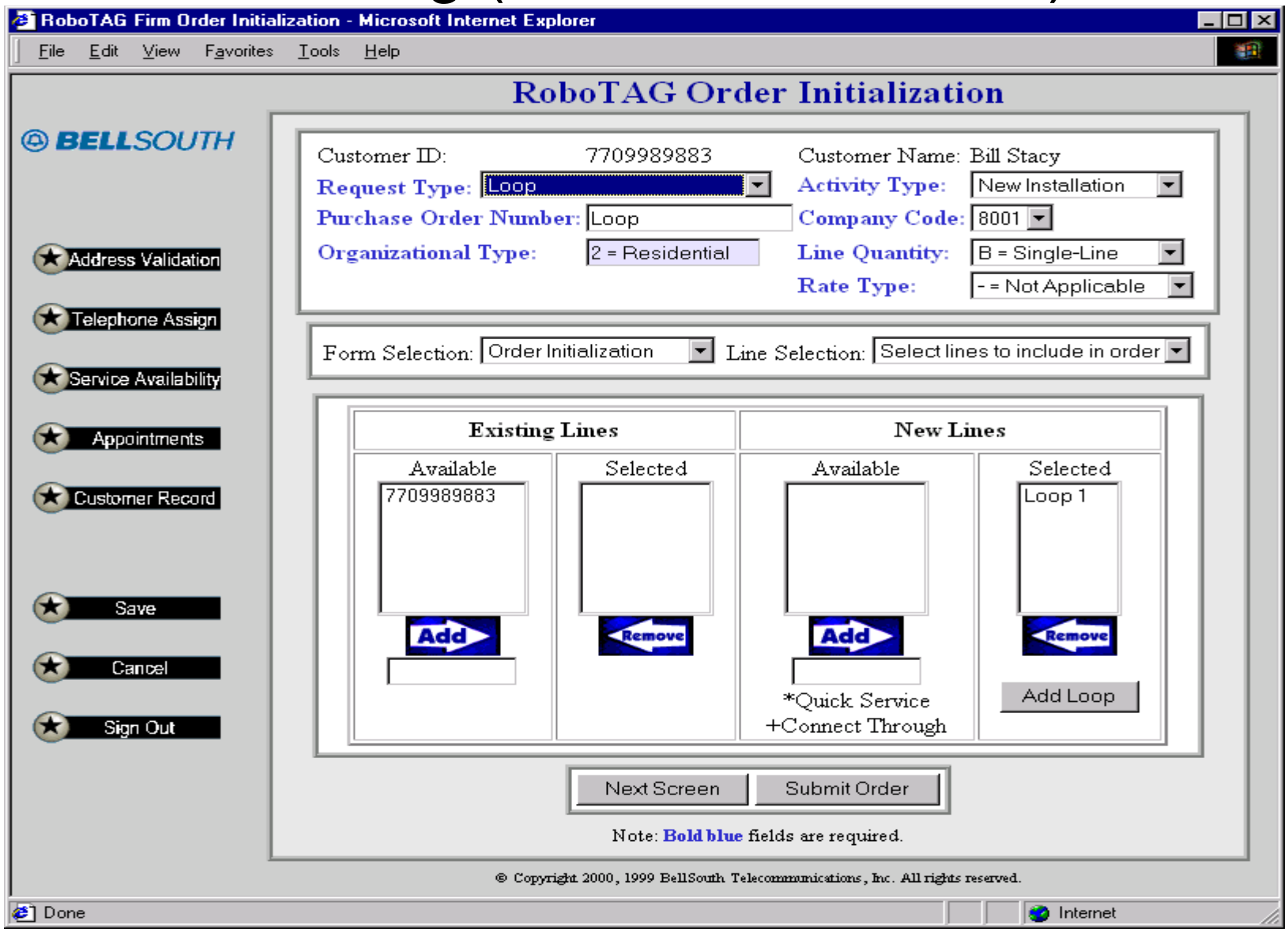


Figure B-7

Ordering (Administration/Billing)

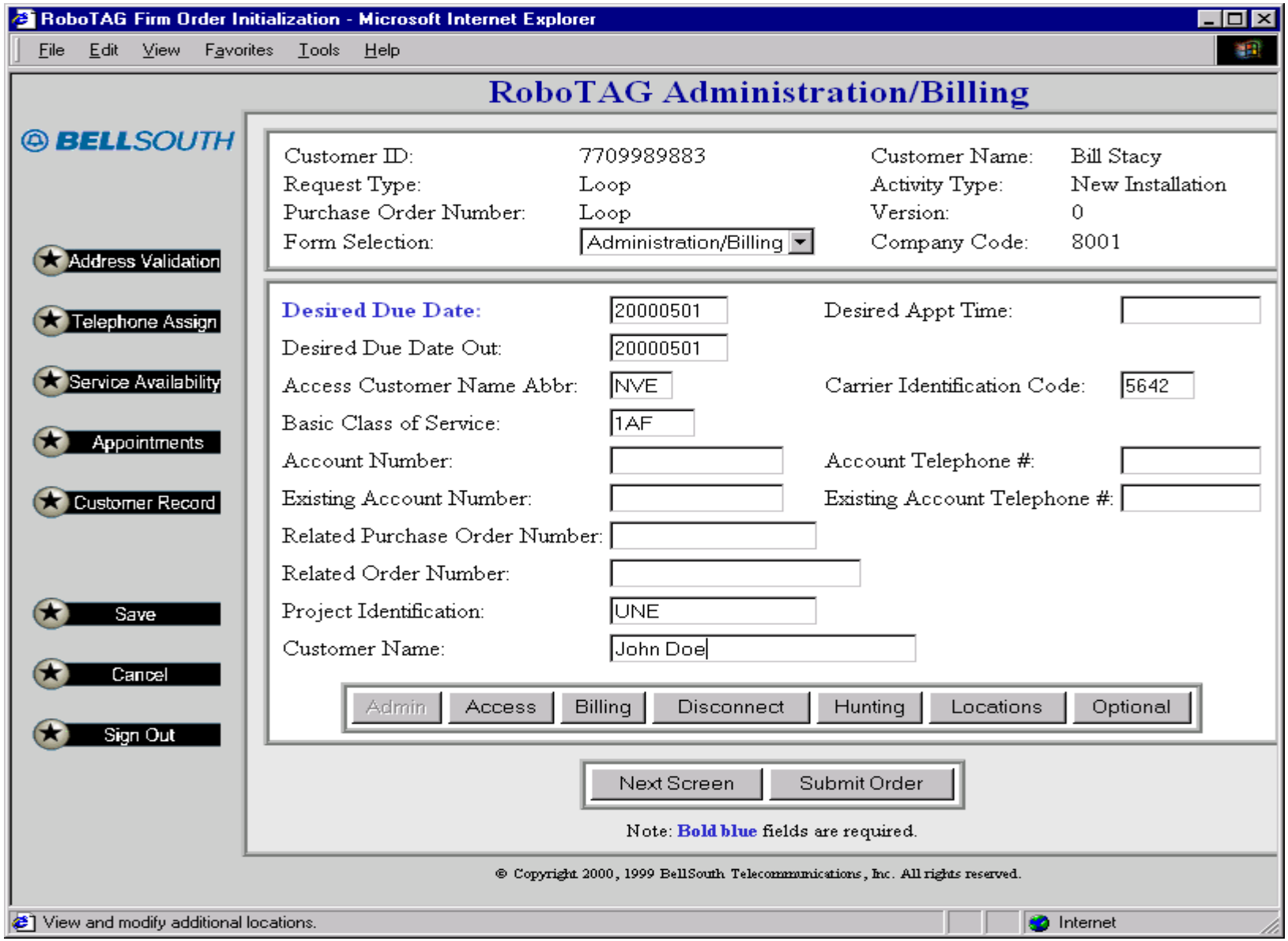


Figure B-8

Ordering (Loop Service)

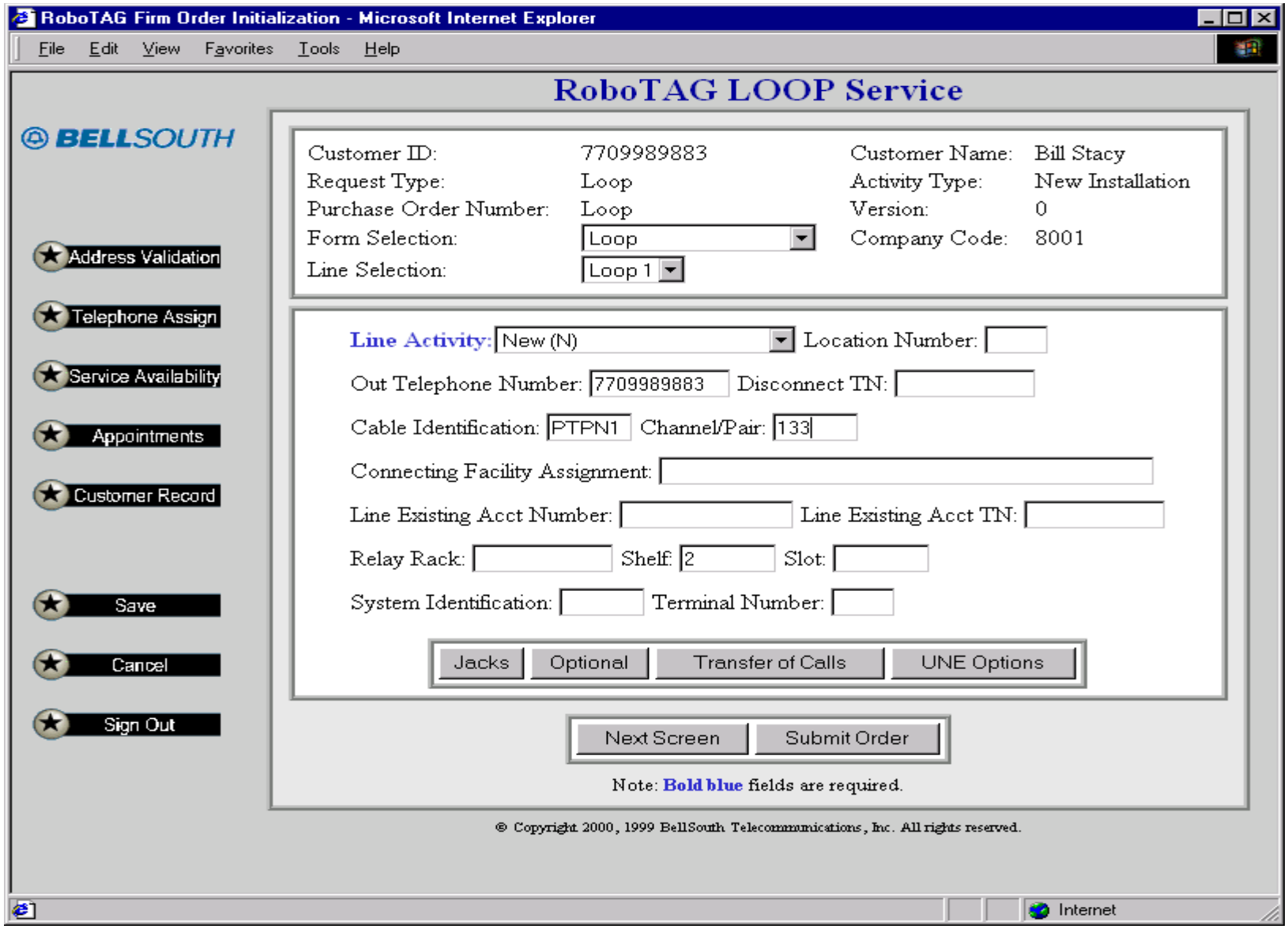


Figure B-9

Ordering (Directory Delivery Address)

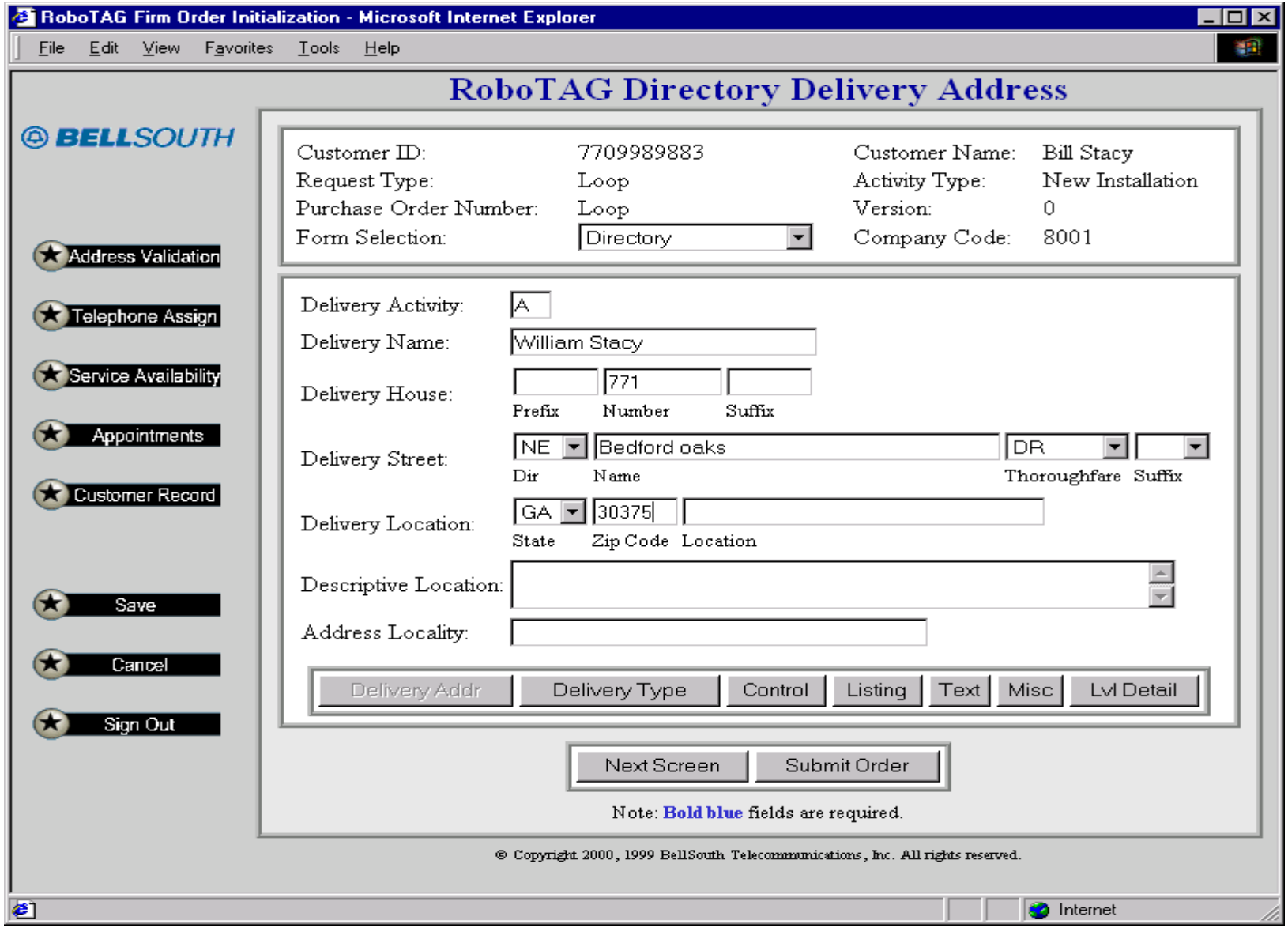


Figure B-10

Ordering (Calculate Due Date)

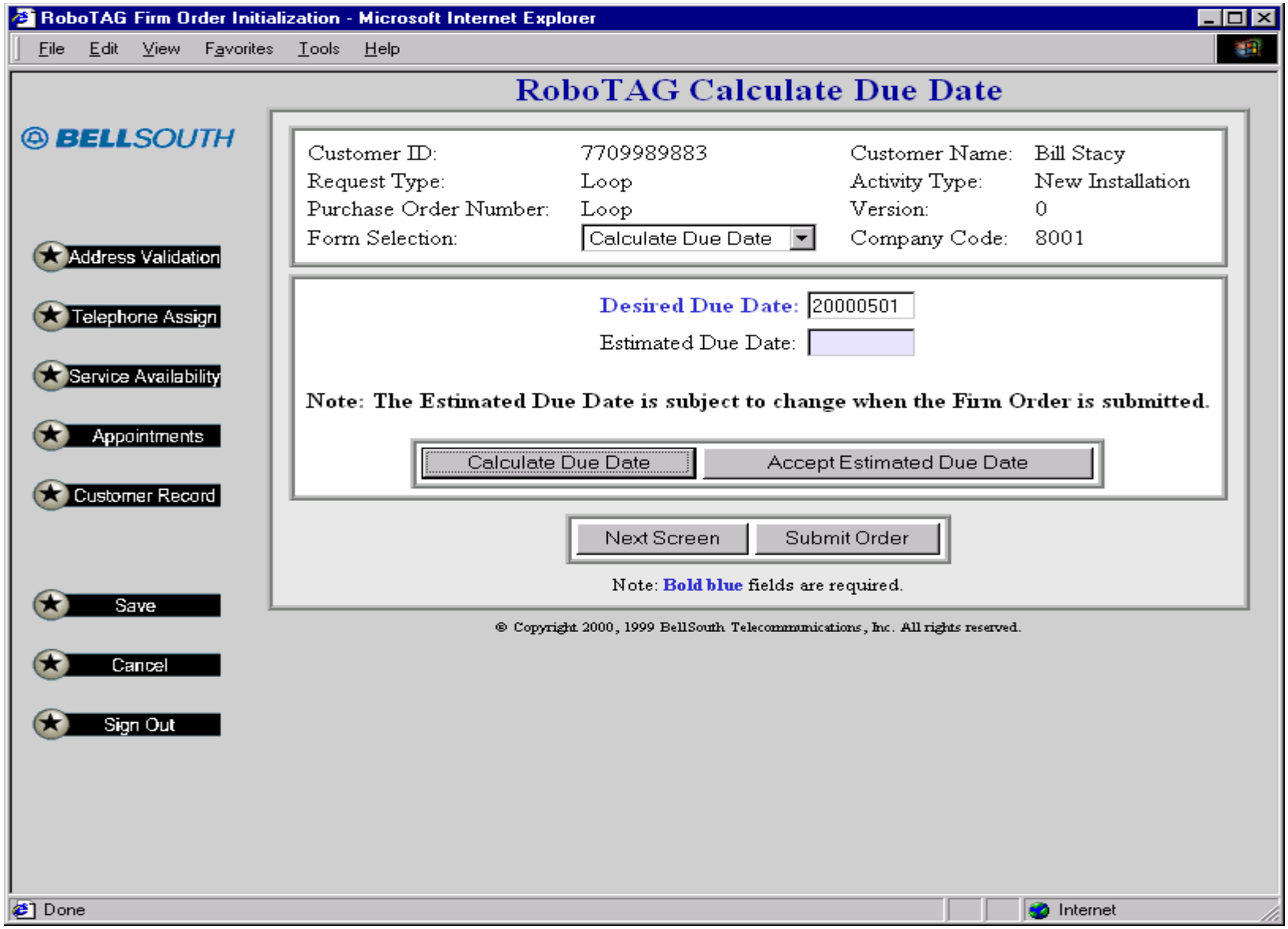


Figure B-11

Ordering (LSR Summary)

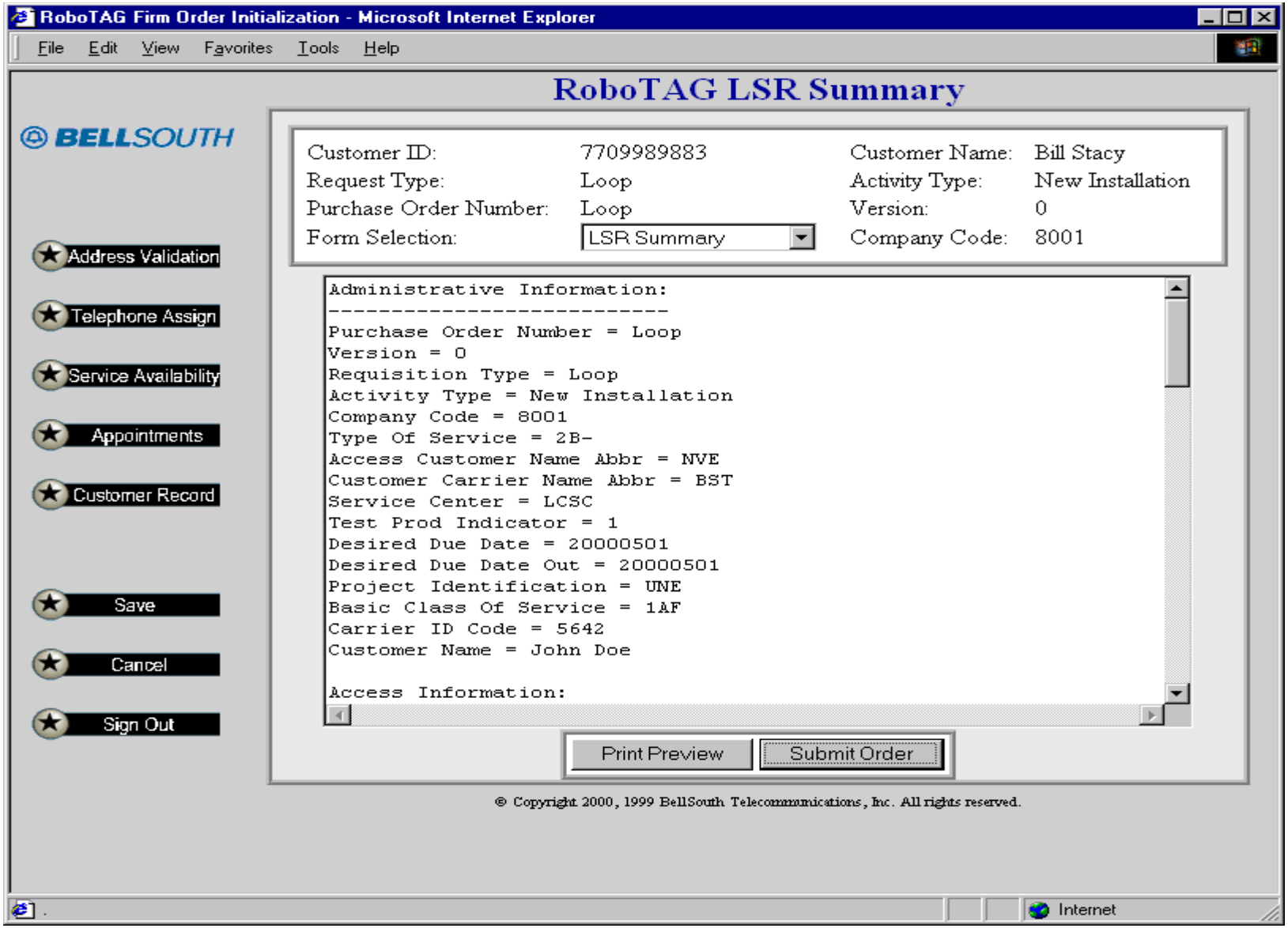


Figure B-12

Ordering (Order Initialization)

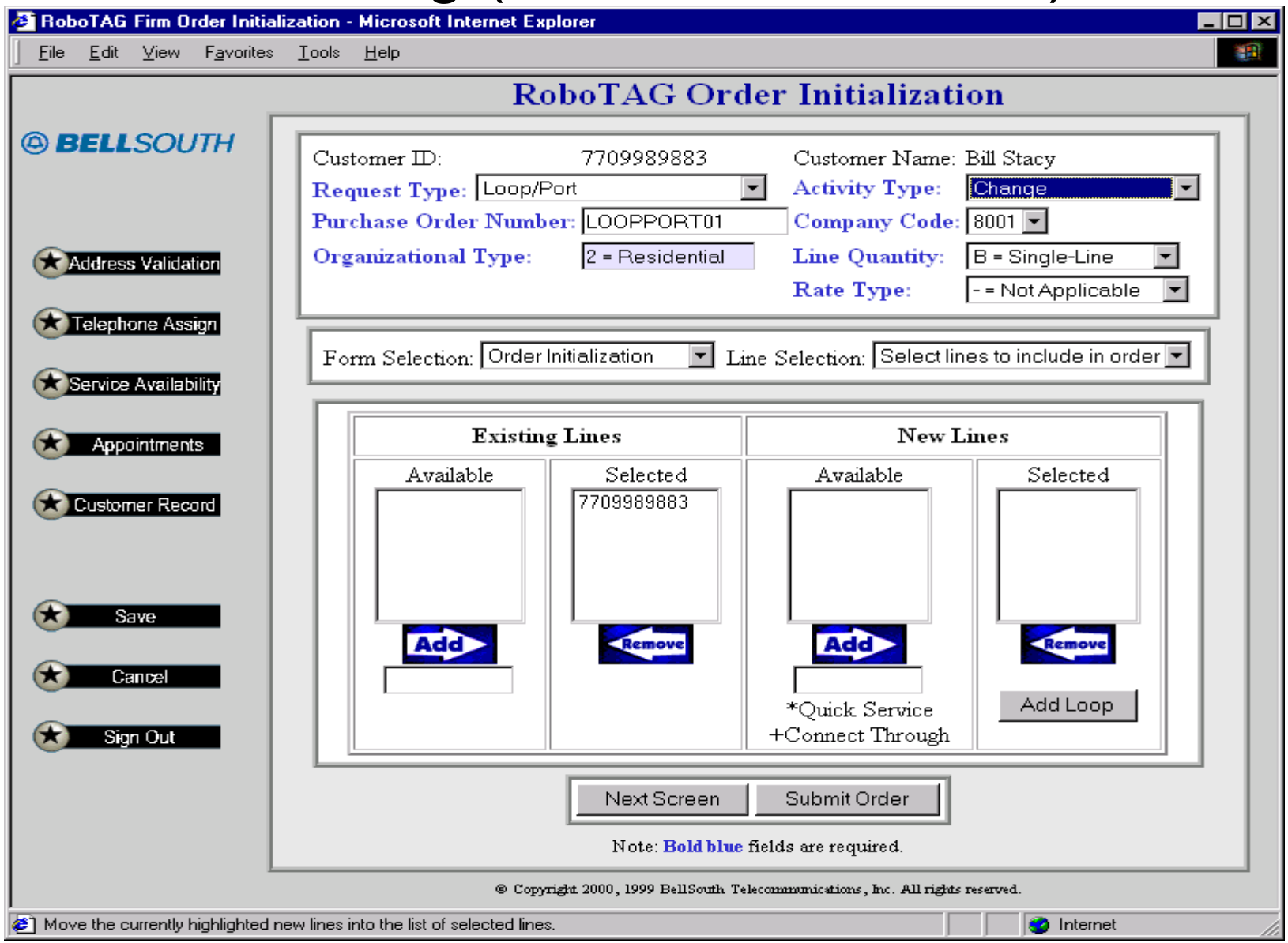


Figure B-13

Ordering (Administration/Billing)

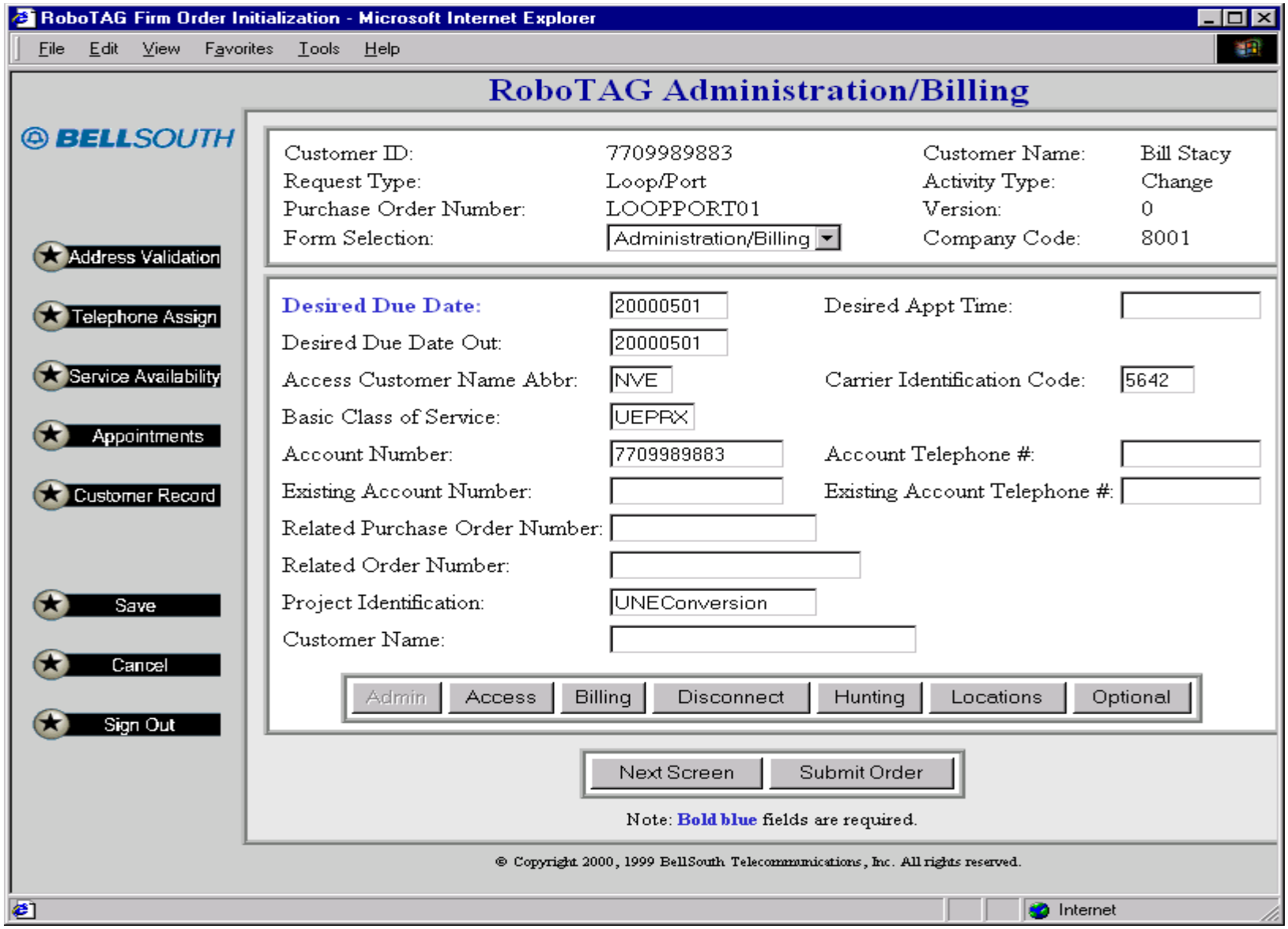


Figure B-14

Ordering (Directory Listing and Delivery Address)

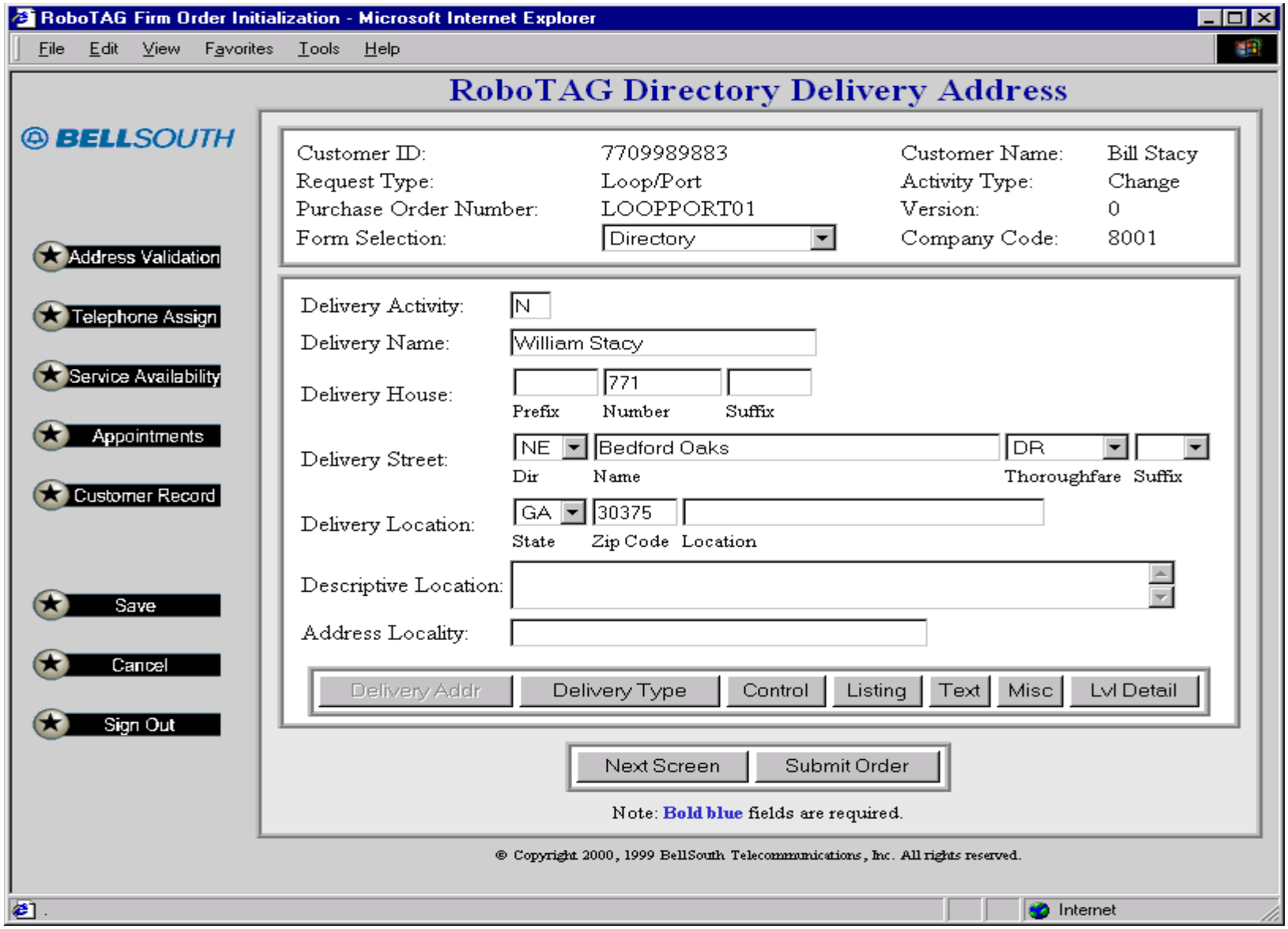


Figure B-15

Ordering (Due Date Calculation)

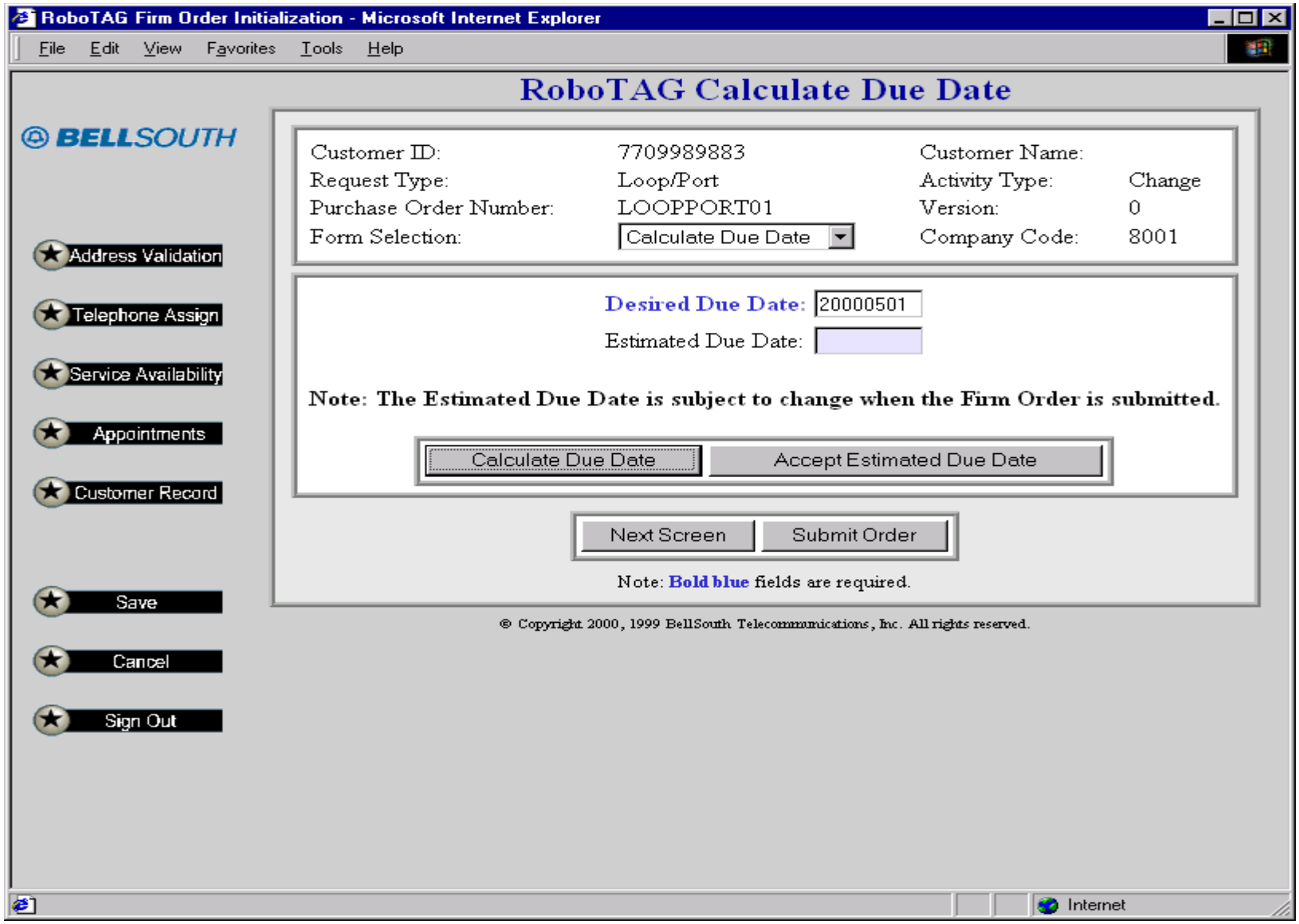


Figure B-16

Ordering (LSR Summary)

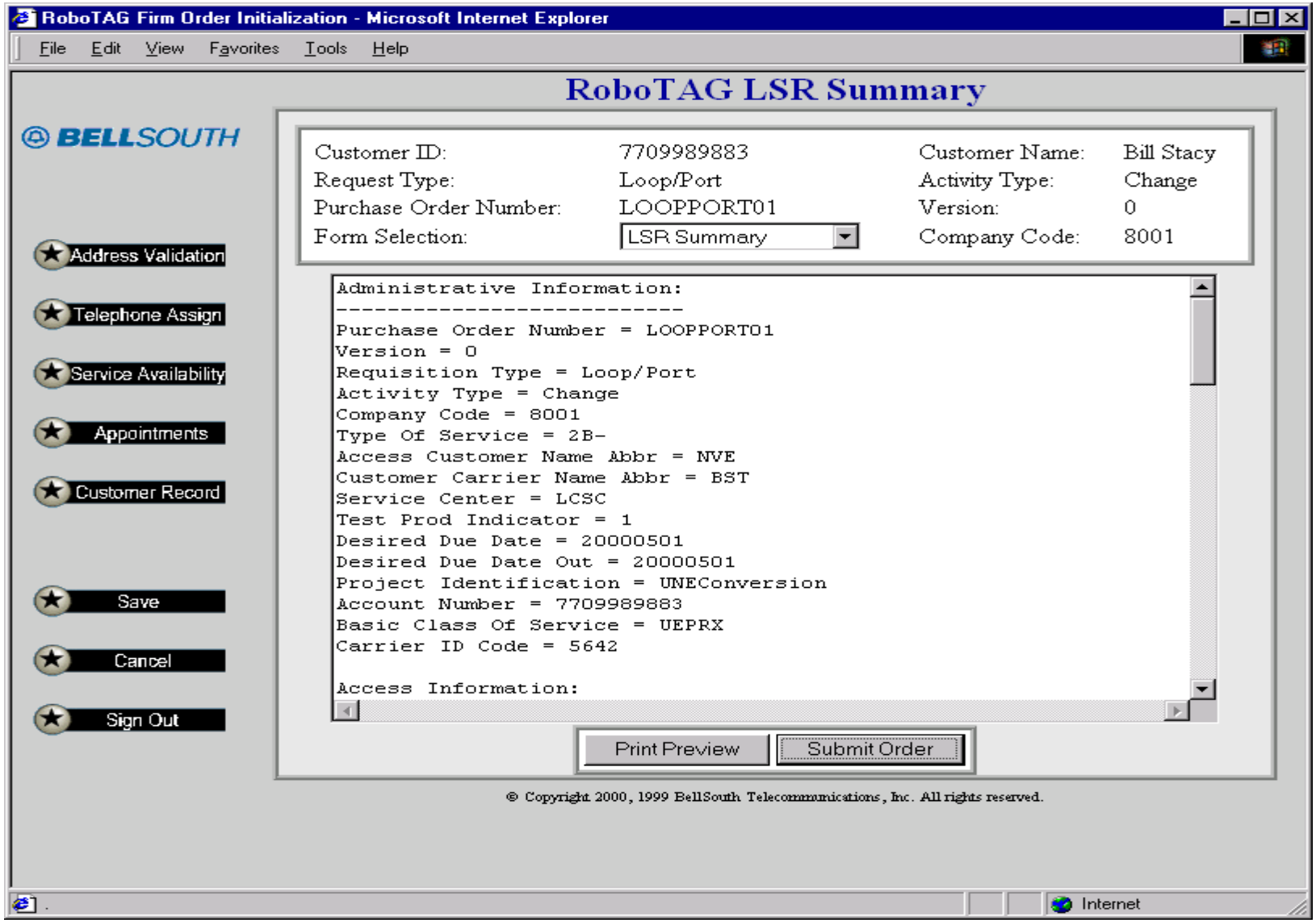


Figure B-17