# EXHIBIT E

# VERTICAL SWITCH FEATURES FOR UNE-SWITCHING

| USOC FOR FEATURE | Feature Description |
|---|---|
| 3BL | 3-Way Call Block |
| 3CW | Call Transfer – Trunk Side |
| 53W | Open Switch Interval Protection |
| 69B1X | Call Forwarding - Busy Line |
| 69D | Call Pick-up Directed |
| 69H | Call Forwarding - Don't Answer |
| 69J | Call Forwarding - Busy Line |
| 6APPK | Call Hold |
| 6MD | Barge-In |
| 6SY | Call Waiting Terminating |
| 6SZ | Call Waiting Originating |
| 9FK | Secretarial Listing |
| A6PPK | Additional Primary Directory Number, Per PDN |
| A6QPN | Additional Secondary Directory Number* |
| ACS | Additional Call Appearances, Per Appearance |
| AR5 | ARS Patterns Per Facility Terminating In Patterns |
| ARS-B | Automatic Route Selection, Common Equip |
| AS9 | Additional Shared Call Appearance, Per Appearance |
| AYK | Class Anonymous Call Rejection |
| B2DPK | Automatic Dial |
| BOV | Executive Busy Override |
| C4Z | Call Park |
| CLT | Additional Directory Listing |
| CMD | Customer Dialed Account Recording |
| CTP | Call Transfer - All Calls |
| CV9 | Call Forwarding – Variable |
| CXT | Remote Access Service |
| D06 | Secondary DN |
| D08 | Multiple Shared Call Appearances Of A DN |
| DAL | Foreign Listing |
| DHA | Distinctive Alert |
| DMA | Directed Call Pick-up - Per Line, Barge-In |
| DO6 | Secondary Directory Number |
| DO8 | Shared Directory Number |
| DPB | Directed Call Pick-up - Per System |
| E1N | Intracall |
| E3D | Speed Call |
| E3F | Speed Calling – 30  Per Line Accessing List |
| E3P | Call Pick-up |

# EXHIBIT E

## VERTICAL SWITCH FEATURES FOR UNE-SWITCHING

| | |
|---|---|
| **E3PPK** | Call Pick-up |
| **E62** | Call Waiting Dial Originating |
| **E6D** | Directed Call Pick-up - Per Line, Non Barge-In |
| **E6G** | Call Forwarding – Busy Restricted |
| **E6GUR** | Call Forwarding – Busy Unrestricted |
| **E6N** | Call Waiting – Intragroup, Per Line Equipped |
| **E8C** | Speed Calling 8# |
| **E9G** | Call Forwarding - Don't Answer Restricted |
| **E9GUR** | Call Forwarding - Don't Answer Unrestricted |
| **EAB** | Call Hold |
| **EAT** | Call Forwarding - Variable |
| **EBR** | Attendant Camp-On And Indication Of Camp-On |
| **EGR** | Group Use Service |
| **EH6** | Multiline Hunt Group - Circular Hunt |
| **EH8** | Multiline Hunt Group - Preferential List Hunt - First Line – Equipped |
| **EH9** | Multiline Hunt Group - Preferential List Hunt  Additional Line – Equipped |
| **EO3** | Call Transfer |
| **ERB** | Call Forward Busy - Cust Activate |
| **ERD** | Call Forward Don't Answer - Cust Activate |
| **ESC** | 3-Way |
| **ESH** | Convenience Dialing - Shared User |
| **ESHT3** | Speed Calling - 30  Per List |
| **ESHT6** | Speed Calling - 6  Per List |
| **ESM** | Call Forward Variable |
| **EST** | Speed Calling - 6  Per Line Accessing List |
| **ESX** | Call Waiting |
| **ESZ** | Call Waiting – Originating |
| **ETD** | Call Diversion |
| **ETG** | Call Restriction |
| **ETQPB/BLF** | Direct Station Selection/Busy Lamp Field |
| **ETQPB/GIC** | Group Intercom All Calls |
| **ETQPB/MWI** | Message Center Bus Set |
| **EVB** | Call Forward Busy – Programmed |
| **EVBHG** | Call Forward Busy - Per Hunt Group |
| **EVD** | Call Forward Don't Answer – Programmed |
| **EVDHG** | Call Forward Don't Answer - Per Hunt Group |
| **EVF** | Call Forward Busy Line Don't Answer, Forward To Outside Number |
| **EVFHG** | Call Forward Busy Line Don't Answer, Forward To Outside Number, Per Hunt Group |

# EXHIBIT E

## VERTICAL SWITCH FEATURES FOR UNE-SWITCHING

| | |
|---|---|
| **EVK** | Call Forward Busy Line Don't Answer, Overflow |
| **EVKHG** | Call Forward Busy Line Don't Answer, Overflow, Per Hunt Group |
| **EVO** | Call Forward Busy Line, Overflow |
| **EVOHG** | Call Forward Busy Line, Overflow - Per Hunt Group |
| **EY3PS** | Network Speed Call |
| **FAL** | Additional Listing In Another Directory |
| **FBJ** | Call Forward, Busy Line – Expanded |
| **FBJHG** | Call Forward, Busy Line – Expanded - Per Hunt Group |
| **FCU/FCY** | Call Forwarding-Programmable |
| **FDJ** | Call Forward, Don't Answer – Expanded |
| **FDJHG** | Call Forward, Don't Answer – Expanded - Per Hunt Group |
| **FGDPN** | Secondary Directory Number, Per SDN |
| **FID LNR after line USOC** | Last Number Redial |
| **FID MSB after line USOC** | Make Set Busy |
| **FID NDT after line USOC** | Data Call Protection |
| **FID PRK after line USOC** | Call Park |
| **FKAPN** | Continuous Redial, Per PDN |
| **FKDPN** | Last Call Return, Per PDN |
| **FKEPN** | Selective Call Forwarding, Per PDN |
| **FKQPN** | Call Rejection, Per PDN |
| **FNA** | Alternate Call Listing |
| **FOQ** | Call Forwarding Without Call Completion |
| **FVJ** | Call Forwarding Busy Line/Don't Answer Interoffice |
| **FVJHG** | Call Forwarding Busy Line/Don't Answer Interoffice - Per Hunt Group |
| **G5BPN** | X.25 Reverse Charge Acceptance, Per Number |
| **GFDPN** | Packet Switched Data Including One X.25 Logical Channel |
| **GSVPK** | X.25 Throughput Class Negotiation |
| **GVJ** | Speed Calling - 1 & 2 Digit List |
| **GVT** | 6-Way |
| **GVV** | Speed Calling - 1 & 2 Digit List |
| **GVZ** | Speed Calling - 1 & 2 Digit List |
| **GXEPN** | X.25 Fast Select Acceptance, Per Number |
| **GXGPK** | X.25 Flow Control Parameter Negotiation |
| **H6U** | Hunting – UCD - Data |
| **H6UPG** | Hunting – UCD - Data - Per Group |
| **HBS** | Last Call Return Block |
| **HCKPG** | Circular Hunting - Per Group |
| **HDT** | Hunting - Circular – Data |
| **HDTPG** | Hunting - Circular - Data - Per Group |
| **HLA** | Hot Line |

# EXHIBIT E

## VERTICAL SWITCH FEATURES FOR UNE-SWITCHING

| | |
|---|---|
| **HSHHP** | Preferential Hunting |
| **HSO** | Series Completion Per Each TN Hunted To |
| **HTG** | Hunting Feature |
| **HX2** | Call Waiting Terminating |
| **JUL** | Joint User Listing |
| **KX9** | Toll Restriction |
| **LBN** | Caller Id LIDB Listing |
| **M1W** | Message Waiting Indicator Audible/Visible |
| **MAZ** | Analog Call Appearance |
| **MGN** | Audible Message Waiting Service |
| **MJJPK** | Conference Calling Meet Me |
| **MO9PK** | Conference Calling Preset |
| **MUMHT** | Centrex Billing; Network Access Register Sharing Capability |
| **MV5** | Visual Message Waiting Service |
| **N13** | Call Transfer/Three Way |
| **N2D** | Hunting - Sequential - Data |
| **N2DPG** | Hunting - Sequential - Data - Per Group |
| **N3CPB** | Non-Standard Configuration Group, Per Button |
| **NAE** | Shared Call Appearance, Per Appearance |
| **NBWPN** | Message Waiting Indication, Per PDN |
| **NC8PN** | Priority Call, Per PDN |
| **NCE** | Class Selective Call Forwarding |
| **NDD** | Caller ID Blocking-All Calls, Per PDN |
| **NDK** | Automatic Identified Outward Dialing |
| **NF4VC** | Calling Number Id Feature Package |
| **NF4VF** | Flexible Calling Feature Package |
| **NGQ** | Did Sequential Number Block |
| **NGS** | 20 Sequential DID Numbers |
| **NHGPG** | Key Short Hunt, Per Group |
| **NHGPN** | Key Short Hunt, Per Number |
| **NHN** | Each DID Number |
| **NHNRN** | Each DID Reserved |
| **NJEPN** | Call Forwarding Variable-All Calls-Voice, Per DN |
| **NJGPN** | Call Forwarding Busy Line-All Calls-Voice, Per DN |
| **NJKPN** | Call Forwarding Don't Answer-All Calls-Voice, Per DN |
| **NKM** | Class Calling Number Delivery Blocking |
| **NKM** | Caller-ID Block Per Line |
| **NLT** | Non-Listed Service |
| **NM1PP** | Isdn Calling Name Delivery |
| **NMCPN** | Call Name Id, Per Number |
| **NN8PK** | Speed Calling (8), Per Terminal |

# EXHIBIT E

# VERTICAL SWITCH FEATURES FOR UNE-SWITCHING

| | |
|---|---|
| NNK | CLASS Name /# |
| NPU | Non-Published Service |
| NQ1PN | Call Exclusion, Per DN |
| NQ2PN | Call Forwarding Busy Line For Circuit-Switched Data |
| NQMPN | Call Forwarding Don't Answer For Circuit-Switched Data |
| NRCJ1 | Call Forwarding - Outside |
| NRCJ6 | Call Waiting – Intragroup, Per System |
| NSD | Caller Identification Number |
| NSH | Alternate Listing |
| NSK | Class Priority Call |
| NSQ | Class Last Call Return |
| NSS | Class Continuous Redial |
| NSW | No Solicitation Calls Directory Listing |
| NSY | Class Selective Call Rejection |
| NTU | Night Service (Trunk Answer Any Station) |
| NU4PN | Call Forwarding Variable-All Calls For Circuit Switched Data |
| NW9AL | Additional X.25 Logical Channel, Per Logical Channel |
| NWT | Flexible Calling Feature Package |
| NXJPK | Speed Calling (30), Per Terminal |
| NZ6PK | Six Way Conference, Per Terminal |
| NZHPN | Call Pick-up, Per Number |
| NZQ | Hunting – Sequential |
| NZQPG | Hunting – Sequential - Per Group |
| NZS | Hunting – Circular |
| NZSPG | Hunting – Circular - Per Group |
| NZT | Hunting – UCD |
| NZTPG | Hunting – UCD - Per Group |
| NZVPG | Intercom, Per Group |
| OBK5X | Optional Calling Plans* |
| OTQ | Outgoing Trunk Queuing |
| PLC | Code Calling |
| PLS | Advanced Private Line Termination |
| RBVXC | International Toll Block |
| RD7PN | Redirecting Number Delivery, Per Number |
| REAGF | Block Compromise Charge-Removal Of A TN From A Sequential Number Block |
| REAGG | Block Compromise Charge-Temporary Removal Of A TN From A Sequential Number Block |
| REAGM | Changing Number Of Digits Outpulsed, Per Change |
| REAGN | Changing Signaling, Per Change |
| RGE | Automatic Callback |
| RGG1A | Custom Ringing |

# EXHIBIT E

## VERTICAL SWITCH FEATURES FOR UNE-SWITCHING

| | |
|---|---|
| RGG1B | Custom Ringing |
| RGG1C | Custom Ringing |
| RGG2A | Custom Ringing |
| RGG2B | Custom Ringing |
| RGG2C | Custom Ringing |
| RGG3A | Custom Ringing |
| RGG3B | Custom Ringing |
| RGG3C | Custom Ringing |
| RN4PP | Isdn Redirecting Name Delivery |
| RNCEP | Easy Number |
| RNN | Distinctive Call Waiting Tone |
| RTV1Q | Toll Restriction – Billed Number Screening |
| RTV1X | Toll Restriction – Billed Number Screening |
| RTV2Q | Toll Restriction – Billed Number Screening |
| RTV3Q | Toll Restriction – Billed Number Screening |
| RTV4Q | Toll Restriction – Billed Number Screening |
| RTVXN | Restriction Of 976 Calls |
| RTVXQ | Toll Restriction – Billed Number Screening |
| RTVXY | 10xxx Direct Dialed Blocking |
| RTY | Toll Restriction Service Individual & Key Lines |
| SE3PG | Hunting - Series Completion - Per Group |
| SE3PG | Series Completion Hunt, Per Group |
| SE3PN | Hunting - Series Completion - Per # |
| SEA | Selective Class Of Call Screening Per Access Line |
| SRG | Selective Class Of Call Screening Per Line Or Trunk |
| TW1 | Talking Call Waiting |
| U1E | Loop Extension Technology |
| XLL | Directory Line Of Information |
| XRW,XRS | 2B+D (Circuit Switched Data)* |
| ZNBHX | Zone 2 - With Hunting; In Central (EAS) |
| ZPTMX | Isdn Call Transfer Per T-1 Facility |

# EXHIBIT E

## VERTICAL SWITCH FEATURES FOR UNE-SWITCHING

**PACKAGES**

| | |
|---|---|
| **UVKBX** | Call Waiting/Cancel, Speed Call 30, 3-Way Automatic Call Back, and Call Forward Variable |
| **UVKEX** | Basic Vertical Feature Package & Class Features, Call Waiting ID, Call Name & Number Delivery, Continuous Redial, Selective Call Forwarding, Selective Call Rejection, and Anonymous Call Rejection |