

**EXHIBIT E****VERTICAL SWITCH FEATURES FOR UNE-SWITCHING**

<b>USOC For Feature</b>	<b>Feature Description</b>
<b>3BL</b>	3-Way Call Block
<b>3CW</b>	Call Transfer – Trunk Side
<b>53W</b>	Open Switch Interval Protection
<b>69B1X</b>	Call Forwarding - Busy Line
<b>69D</b>	Call Pick-up Directed
<b>69H</b>	Call Forwarding - Don't Answer
<b>69J</b>	Call Forwarding - Busy Line
<b>6APPK</b>	Call Hold
<b>6MD</b>	Barge-In
<b>6SY</b>	Call Waiting Terminating
<b>6SZ</b>	Call Waiting Originating
<b>9FK</b>	Secretarial Listing
<b>A6PPK</b>	Additional Primary Directory Number, Per PDN
<b>A6QPN</b>	Additional Secondary Directory Number*
<b>ACS</b>	Additional Call Appearances, Per Appearance
<b>AR5</b>	ARS Patterns Per Facility Terminating In Patterns
<b>ARS-B</b>	Automatic Route Selection, Common Equip
<b>AS9</b>	Additional Shared Call Appearance, Per Appearance
<b>AYK</b>	Class Anonymous Call Rejection
<b>B2DPK</b>	Automatic Dial
<b>BOV</b>	Executive Busy Override
<b>C4Z</b>	Call Park
<b>CLT</b>	Additional Directory Listing
<b>CMD</b>	Customer Dialed Account Recording
<b>CTP</b>	Call Transfer - All Calls
<b>CV9</b>	Call Forwarding – Variable
<b>CXT</b>	Remote Access Service
<b>D06</b>	Secondary DN
<b>D08</b>	Multiple Shared Call Appearances Of A DN
<b>DAL</b>	Foreign Listing
<b>DHA</b>	Distinctive Alert
<b>DMA</b>	Directed Call Pick-up - Per Line, Barge-In
<b>DO6</b>	Secondary Directory Number
<b>DO8</b>	Shared Directory Number
<b>DPB</b>	Directed Call Pick-up - Per System
<b>E1N</b>	Intracall
<b>E3D</b>	Speed Call
<b>E3F</b>	Speed Calling – 30 Per Line Accessing List
<b>E3P</b>	Call Pick-up
<b>E3PPK</b>	Call Pick-up
<b>E62</b>	Call Waiting Dial Originating
<b>E6D</b>	Directed Call Pick-up - Per Line, Non Barge-In

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

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

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### VERTICAL SWITCH FEATURES FOR UNE-SWITCHING

USOC For Feature	Feature Description
<b>HX2</b>	Call Waiting Terminating
<b>JUL</b>	Joint User Listing
<b>KX9</b>	Toll Restriction
<b>LBN</b>	Caller Id LIDB Listing
<b>M1W</b>	Message Waiting Indicator Audible/Visible
<b>MAZ</b>	Analog Call Appearance
<b>MGN</b>	Audible Message Waiting Service
<b>MJJPk</b>	Conference Calling Meet Me
<b>MO9PK</b>	Conference Calling Preset
<b>MUMHT</b>	Centrex Billing; Network Access Register Sharing Capability
<b>MV5</b>	Visual Message Waiting Service
<b>N13</b>	Call Transfer/Three Way
<b>N2D</b>	Hunting - Sequential - Data
<b>N2DPG</b>	Hunting - Sequential - Data - Per Group
<b>N3CPB</b>	Non-Standard Configuration Group, Per Button
<b>NAE</b>	Shared Call Appearance, Per Appearance
<b>NBWPn</b>	Message Waiting Indication, Per PDN
<b>NC8PN</b>	Priority Call, Per PDN
<b>NCE</b>	Class Selective Call Forwarding
<b>NDD</b>	Caller ID Blocking-All Calls, Per PDN
<b>NDK</b>	Automatic Identified Outward Dialing
<b>NF4VC</b>	Calling Number Id Feature Package
<b>NF4VF</b>	Flexible Calling Feature Package
<b>NGQ</b>	Did Sequential Number Block
<b>NGS</b>	20 Sequential DID Numbers
<b>NHGPG</b>	Key Short Hunt, Per Group
<b>NHGPN</b>	Key Short Hunt, Per Number
<b>NHN</b>	Each DID Number
<b>NHNRN</b>	Each DID Reserved
<b>NJEPN</b>	Call Forwarding Variable-All Calls-Voice, Per DN
<b>NJGPN</b>	Call Forwarding Busy Line-All Calls-Voice, Per DN
<b>NJKPN</b>	Call Forwarding Don't Answer-All Calls-Voice, Per DN
<b>NKM</b>	Class Calling Number Delivery Blocking
<b>NKM</b>	Caller-ID Block Per Line
<b>NLT</b>	Non-Listed Service
<b>NM1PP</b>	Isdn Calling Name Delivery
<b>NMCPN</b>	Call Name Id, Per Number
<b>NN8PK</b>	Speed Calling (8), Per Terminal
<b>NNK</b>	CLASS Name /#
<b>NPU</b>	Non-Published Service
<b>NQ1PN</b>	Call Exclusion, Per DN

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**VERTICAL SWITCH FEATURES FOR UNE-SWITCHING**

<b>USOC For Feature</b>	<b>Feature Description</b>
<b>NQ2PN</b>	Call Forwarding Busy Line For Circuit-Switched Data
<b>NQMPN</b>	Call Forwarding Don't Answer For Circuit-Switched Data
<b>NRCJ1</b>	Call Forwarding - Outside
<b>NRCJ6</b>	Call Waiting – Intragroup, Per System
<b>NSD</b>	Caller Identification Number
<b>NSH</b>	Alternate Listing
<b>NSK</b>	Class Priority Call
<b>NSQ</b>	Class Last Call Return
<b>NSS</b>	Class Continuous Redial
<b>NSW</b>	No Solicitation Calls Directory Listing
<b>NSY</b>	Class Selective Call Rejection
<b>NTU</b>	Night Service (Trunk Answer Any Station)
<b>NU4PN</b>	Call Forwarding Variable-All Calls For Circuit Switched Data
<b>NW9AL</b>	Additional X.25 Logical Channel, Per Logical Channel
<b>NWT</b>	Flexible Calling Feature Package
<b>NXJPK</b>	Speed Calling (30), Per Terminal
<b>NZ6PK</b>	Six Way Conference, Per Terminal
<b>NZHPN</b>	Call Pick-up, Per Number
<b>NZQ</b>	Hunting – Sequential
<b>NZQPG</b>	Hunting – Sequential - Per Group
<b>NZS</b>	Hunting – Circular
<b>NZSPG</b>	Hunting – Circular - Per Group
<b>NZT</b>	Hunting – UCD
<b>NZTPG</b>	Hunting – UCD - Per Group
<b>NZVPG</b>	Intercom, Per Group
<b>OBK5X</b>	Optional Calling Plans*
<b>OTQ</b>	Outgoing Trunk Queuing
<b>PLC</b>	Code Calling
<b>PLS</b>	Advanced Private Line Termination
<b>RBVXC</b>	International Toll Block
<b>RD7PN</b>	Redirecting Number Delivery, Per Number
<b>REAGF</b>	Block Compromise Charge-Removal Of A TN From A Sequential Number Block
<b>REAGG</b>	Block Compromise Charge-Temporary Removal Of A TN From A Sequential Number Block
<b>REAGM</b>	Changing Number Of Digits Outpulsed, Per Change
<b>REAGN</b>	Changing Signaling, Per Change
<b>RGE</b>	Automatic Callback
<b>RGG1A</b>	Custom Ringing
<b>RGG1B</b>	Custom Ringing
<b>RGG1C</b>	Custom Ringing
<b>RGG2A</b>	Custom Ringing

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USOC For Feature	Feature Description
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

<b>UVKBX</b>	Call Waiting/Cancel, Speed Call 30, 3-Way Automatic Call Back, and Call Forward Variable
<b>UVKEX</b>	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