

**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>USOC For Feature</b>	<b>Feature Description</b>
<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

## EXHIBIT E

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