

## 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
E3PPK	Call Pick-up
E62	Call Waiting Dial Originating
E6D	Directed Call Pick-up - Per Line, Non Barge-In

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**VERTICAL SWITCH FEATURES FOR UNE-SWITCHING**

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

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

## EXHIBIT E

### VERTICAL SWITCH FEATURES FOR UNE-SWITCHING

USOC For Feature	Feature Description
<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