

# List of Tables

I	Protocols and standards supported by the AR400 Series router .....	xci
II	Typographic conventions used in this manual. ....	xcv
1-1	Commands requiring Security Officer privilege when the router is in security mode .....	1-7
1-3	Secure commands controlled by the security timer .....	1-18
1-4	RADIUS attributes supported by the router . ....	1-23
1-5	The values corresponding to privilege levels .....	1-28
1-6	The values corresponding to privilege levels. ....	1-32
1-7	File extensions and file types . ....	1-40
1-8	The DOS filename formats supported by different software releases .....	1-40
1-9	Software Release filename formats. ....	1-52
1-10	Router startup sequence keystrokes. ....	1-54
1-11	Router CPU address spaces . ....	1-83
1-12	Editor functions and keystrokes. ....	1-85
1-13	Keywords recognised by the <b>attribute</b> command, and their object types. ....	1-97
1-14	Default settings for ATM virtual channels dependent on the <b>country</b> parameter .....	1-122
1-15	Parameters in the output of the <b>show alias</b> command .....	1-130
1-16	Parameters in the output of the <b>show buffer</b> command .....	1-131
1-17	Parameters in the output of the <b>show config</b> command .....	1-134
1-18	Parameters in the output of the <b>show cpu</b> command .....	1-136
1-19	The list of <b>show</b> commands that are executed by the <b>show debug</b> command, when the <b>full</b> parameter is or is not specified, under different combinations of security mode and privilege level .....	1-137
1-20	Parameters in the output of the <b>show feature</b> command .....	1-144
1-21	Parameters in the output of the <b>show feature</b> command for a specified special feature licence .....	1-145
1-22	Parameters in the output of the <b>show ffile</b> command .....	1-146
1-23	Parameters in the output of the <b>show file</b> command .....	1-149
1-24	Parameters in the output of the <b>show file=longfile.lfn</b> command .....	1-149
1-25	Parameters in the output of the <b>show flash</b> command .....	1-151
1-26	Parameters in the output of the <b>show flash physical</b> command .....	1-152
1-27	Parameters in the output of the <b>show gui</b> command .....	1-153
1-28	Parameters in the output of the <b>show http client</b> command .....	1-154
1-29	Parameter in the output of the <b>show http debug</b> command .....	1-155
1-30	Parameters in the output of the <b>show http server</b> command .....	1-156
1-31	Parameters in the output of the <b>show http server session</b> command .....	1-157
1-32	Parameters in the output of the <b>show install</b> command .....	1-158
1-33	Parameters in the output of the <b>show ldap</b> command .....	1-159
1-34	Parameters in the output of the <b>show ldap request</b> command .....	1-160
1-35	Parameters in the output of the <b>show loader</b> command .....	1-162
1-36	Parameters in the output of the <b>show mail</b> command .....	1-163
1-37	Parameters in the output of the <b>show patch</b> command. ....	1-165
1-38	Parameters in the output of the <b>show radius</b> command .....	1-166
1-39	Parameters in the output of the <b>show radius debug</b> command .....	1-167

1-40	Parameters in the output of the <b>show release</b> command .....	1-168
1-41	Parameters in the output of the <b>show key</b> command .....	1-169
1-42	Parameters in the output of the <b>show key seq=n seed=seed</b> command .....	1-170
1-43	Parameters in the output of the <b>show system</b> command .....	1-172
1-44	Parameters in the output of the <b>show system serialnumber</b> command .....	1-173
1-45	Parameters in the output of the <b>show tacacs debug</b> command .....	1-174
1-46	Parameters in the output of the <b>show tacacs server</b> command .....	1-175
1-47	Parameters in the output of the <b>show tacplus server</b> command .....	1-176
1-48	Parameters in the output of the <b>show tacplus telnet</b> command .....	1-177
1-49	Parameters in the output of the <b>show tacplus user</b> command .....	1-178
1-50	Parameters in the output of the <b>show user</b> command .....	1-180
1-51	Parameters in the output of the <b>show user configuration</b> command .....	1-182
1-52	Parameters in the output of the <b>show user rso</b> command .....	1-184
2-1	Autonegotiation preferences for switch ports .....	2-5
2-2	Fields in the Ethernet frame for QOS and VLAN switching .....	2-8
2-3	Reserved VID values. ....	2-9
2-4	Default priority level to queue mapping for four QOS egress queues .....	2-11
2-5	Parameters for configuration example .....	2-12
2-6	Default priority level to queue mapping for four QOS egress queues. ....	2-24
2-7	Example priority level to QOS egress queue mapping. ....	2-24
2-8	Parameters in the output of the <b>show switch</b> command .....	2-26
2-9	Parameters in the output of the <b>show switch counter</b> command .....	2-28
2-10	Parameters in the output of the <b>show switch debug</b> command .....	2-29
2-11	Parameters in the output of the <b>show switch port</b> command .....	2-30
2-12	Parameters in the output of the <b>show switch qos</b> command .....	2-31
2-13	Parameters in the output of the <b>show vlan</b> command .....	2-32
2-14	Parameters in the output of the <b>show vlan debug</b> command .....	2-33
3-1	Switch Port Speed values .....	3-5
3-2	Fields in the Ethernet frame for QoS and VLAN switching .....	3-8
3-3	Reserved VID values .....	3-8
3-4	VLAN membership of example of a network using tagged ports .....	3-10
3-5	Default priority level to queue mapping for four QOS egress queues .....	3-15
3-6	Parameters for port-based VLAN example .....	3-19
3-7	Configuration example parameters for VLANs with tagged ports .....	3-20
3-8	Switch debugging options. ....	3-27
3-9	Switch debugging options .....	3-30
3-10	Switch port speed values .....	3-35
3-11	Default priority level to queue mapping for four QOS egress queues .....	3-37
3-12	Example priority level to QOS egress queue mapping .....	3-37
3-13	Parameters in the output of the <b>show switch</b> command .....	3-39
3-14	Parameters in the output of the <b>show switch debug</b> command .....	3-40
3-15	Parameters in the output of the <b>show switch counter</b> command .....	3-41
3-16	Parameters in the output of the <b>show switch fdb</b> command .....	3-43
3-17	Parameters in the output of the <b>show switch port</b> command .....	3-45
3-18	Parameters in output from <b>show switch port counter</b> command .....	3-46
3-19	Parameters in the output of the <b>show switch qos</b> command .....	3-49
3-20	Parameters in the output of the <b>show vlan</b> command .....	3-50
3-21	Parameters in the output of the <b>show vlan debug</b> command .....	3-52
4-1	Parameters in the output of the <b>show portauth</b> command .....	4-36
4-2	Parameters in the output of the <b>show portauth counter</b> command .....	4-39
4-3	Parameters in the output of the <b>show portauth port</b> command .....	4-42
4-4	Parameters in the output of the <b>show portauth port multisuppliant</b> command .....	4-45
4-5	Parameters in the output of the <b>show portauth timer</b> command .....	4-48
5-1	Possible <b>ethformat</b> and <b>protocol</b> parameter combinations .....	5-11
5-2	Predefined protocol types for use in the <b>protocol</b> parameter .....	5-12

5-3	PPP Network Layer protocol ID values for use in the <b>pppprotocolid</b> parameter .....	5-13
5-4	Parameters in the summary output of the <b>show classifier</b> command .....	5-22
5-5	Parameters in the detailed output of the <b>show classifier</b> command for classifiers that can be applied to software QoS .....	5-24
6-1	Interface types for software QoS .....	6-5
6-2	The QoS requirements of different types of traffic. ....	6-6
6-4	The meaning of each bandwidth class, for a single rate three colour marker .....	6-20
6-5	A conceptual diagram of part of a premarking table in a DSCP map .....	6-21
6-6	The properties of the default RED curve sets .....	6-26
6-9	Overall procedure for configuring a software QoS hierarchy .....	6-33
6-10	Procedure for configuring a default traffic class (DTC) .....	6-35
6-11	Procedure for configuring premarking using a DSCP map .....	6-36
6-12	Procedure for creating and using a Single Rate Three Colour Marker meter .....	6-38
6-13	Procedure for creating and using a Two Rate Three Colour Marker meter .....	6-39
6-14	Procedure for using one of the default RED curve sets .....	6-40
6-15	Procedure for creating and using a new RED curve set .....	6-41
6-16	Procedure for configuring remarking using a DSCP map .....	6-42
6-17	Procedure for configuring priority queuing .....	6-44
6-18	Procedure for configuring WRR or DWRR queue scheduling .....	6-45
6-19	Procedure for configuring mixed scheduling .....	6-46
6-20	Procedure for configuring Dynamic Application Recognition for VoIP and video traffic .....	6-48
6-21	Procedure for configuring software QoS on PPP interfaces .....	6-50
6-22	Procedure for configuring software QoS on PPP over Ethernet interfaces .....	6-51
6-23	Procedure for configuring software QoS on frame relay interfaces .....	6-52
6-24	Procedure for configuring software QoS on the switch instance .....	6-54
6-25	Procedure for configuring software QoS on VPN tunnels .....	6-55
6-26	Procedure for configuring software QoS on 6-to-4 tunnels .....	6-56
6-27	Procedure for configuring software QoS on GRE tunnels .....	6-57
6-28	Parameters in the output of the <b>show sqos</b> command .....	6-139
6-29	Parameters in the output of the <b>show sqos counters classifiers</b> command. ....	6-142
6-31	Parameters in the output of the <b>show sqos counters policy</b> command. ....	6-144
6-33	Parameters in the output of the <b>show sqos dar</b> command. ....	6-146
6-34	Parameters in the output of the <b>show sqos dscpmap</b> command. ....	6-149
6-35	Parameters in the output of the <b>show sqos interface</b> command. ....	6-150
6-36	Parameters in the output of the <b>show sqos meter</b> command. ....	6-152
6-37	Parameters in the summary output of the <b>show sqos policy</b> command. ....	6-153
6-38	Parameters in the full output of the <b>show sqos policy</b> command. ....	6-154
6-39	Parameters in the tree output of the <b>show sqos policy</b> command. ....	6-156
6-40	Parameters in the output of the <b>show sqos red</b> command. ....	6-157
6-41	Parameters in the summary output of the <b>show sqos trafficclass</b> command. ....	6-159
6-42	Parameters in the full output of the <b>show sqos trafficclass</b> command. ....	6-160
7-1	Interface type names . ....	7-4
7-2	Examples of valid interface names . ....	7-5
7-3	Examples of fully qualified interface names and their equivalent simple names. ....	7-5
7-4	Supported Ethernet encapsulations and discriminators. ....	7-9
7-5	Categories of counters maintained for Ethernet interfaces. ....	7-10
7-6	Modem control signals available for each transition cable type. ....	7-13
7-7	The input signal that determines the operational status of the interface for different transition cable types. ....	7-13
7-8	Categories of counters maintained for synchronous interfaces. ....	7-15
7-9	Configurable parameters for asynchronous port. ....	7-17
7-10	Factory defaults for configurable parameters for asynchronous ports. ....	7-19
7-11	Categories of counters maintained for asynchronous ports. ....	7-20
7-12	Allowable MTU values. ....	7-44
7-13	Parameters in the output of the <b>show asyn</b> command .....	7-51
7-14	Parameters in the output of the <b>show asyn counter</b> command .....	7-53
7-15	Parameters in the output of the <b>show asyn summary</b> command . ....	7-54

7-16	Parameters in the output of the <b>show eth configuration</b> command .....	7-56
7-17	Parameters in the output of the <b>show eth counters=diagnostic</b> command .....	7-58
7-18	Parameters in the output of the <b>show eth counters=dot3stat</b> command .....	7-61
7-19	Parameters in the output of the <b>show eth counters=interface</b> command .....	7-62
7-20	Parameters in the output of the <b>show eth state</b> command .....	7-65
7-21	Parameters in the output of the <b>show interface</b> command .....	7-67
7-22	Parameters in the output of the <b>show interface</b> command for a specific interface .....	7-68
7-23	Parameters in the output of the <b>show interface counter</b> command .....	7-69
7-24	Parameters in the output of the <b>show interface priorityqueue</b> command .....	7-70
7-25	Parameters in the output of the <b>show syn</b> command .....	7-72
7-26	Parameters in the output of the <b>show syn counter=interface</b> command .....	7-73
7-27	Parameters in the output of the <b>show syn counter=syn</b> command for 68302- and 68360-based synchronous interfaces .....	7-75
8-1	ADSL initialisation process .....	8-7
8-2	PPPoE over ATM over ADSL configuration procedure .....	8-15
8-3	PPP over ATM over ADSL configuration procedure .....	8-17
8-4	IP over ATM over ADSL configuration procedure .....	8-18
8-5	RFC 1483 Routed ATM over ADSL configuration procedure .....	8-20
8-6	States in the output of the <b>show adsl</b> command .....	8-36
8-7	Parameters in the output of the <b>show adsl=0</b> command .....	8-37
8-8	Parameters in the output of the <b>show adsl=0 counter</b> command .....	8-38
8-9	Parameters in the output from the <b>show atm</b> command .....	8-39
8-10	Parameters in the output of the <b>show atm=0</b> command .....	8-40
8-11	Parameters in the output of the <b>show atm=0 channel=1</b> command .....	8-41
8-12	Parameters in the output of the <b>show atm=0 counter</b> command .....	8-43
8-13	Parameters in the output of the <b>show atm=0 channel=1 counter</b> command .....	8-44
9-1	Supported Network protocols and Network Control Protocols for the Point-to-Point Protocol .....	9-4
9-2	States for control protocols of the Point-to-Point Protocol .....	9-5
9-4	Point-to-Point Protocol (PPP) debugging options .....	9-31
9-5	Protocol and relevant RFC number(s) .....	9-32
9-6	Example configuration parameters for leased line backup .....	9-41
9-7	Example configuration parameters for bandwidth on demand .....	9-43
9-8	Example configuration parameters for bandwidth on demand with leased line circuits and ISDN .....	9-45
9-9	Allowable MTU values .....	9-66
9-10	Point-to-Point Protocol (PPP) debugging options .....	9-73
9-11	Point-to-Point Protocol (PPP) debugging options .....	9-76
9-12	Allowable MTU values .....	9-94
9-13	Parameters in the output of the <b>SHOW PPP</b> command .....	9-96
9-14	Parameters in the output of the <b>SHOW PPP CONFIG</b> command .....	9-99
9-15	Parameters in the output of the <b>show ppp count=interface</b> command .....	9-104
9-16	Parameters in the output of the <b>show ppp count=lcp</b> command .....	9-107
9-17	Parameters in the output of the <b>show ppp count=multilink</b> command .....	9-112
9-18	Parameters in the output of the <b>show ppp count=ncp</b> command .....	9-113
9-19	Parameters in the output of the <b>show ppp count</b> command for <b>bap</b> and <b>bacp</b> .....	9-114
9-20	Parameters in the output of the <b>show ppp count=pppoe</b> command .....	9-116
9-21	Parameters in the output of the <b>show ppp debug</b> command .....	9-117
9-22	Parameters in the output of the <b>show ppp idletimer</b> command .....	9-118
9-23	Parameters in the <b>show ppp limits</b> command output .....	9-119
9-24	Parameters in the output of the <b>show ppp multilink</b> command .....	9-120
9-25	Parameters in the output of the <b>show ppp nameserver</b> command .....	9-122
9-26	Parameters in the output of the <b>show ppp pppoe</b> command .....	9-123
9-27	Parameters in the output of the <b>show ppp template</b> command .....	9-125
9-28	Parameters in the output of the <b>show ppp template debug</b> command .....	9-127
9-29	Parameters in the output of the <b>show ppp txstatus</b> command .....	9-128
9-30	Parameters in the output of the <b>show ppp utilisation</b> command .....	9-129

10-1	Examples of assigned NLPID values for Frame Relay .....	10-5
10-2	Frame Relay encapsulations and NLPID values supported by the router .....	10-5
10-3	Ethernet types supported for the Cisco Systems proprietary encapsulation .....	10-6
10-4	Transmission of a Frame Relay circuit depending on <b>set framerelay</b> parameters .....	10-14
10-5	Parameters in the output of the <b>show framerelay</b> command .....	10-50
10-6	Parameters in the output of the <b>show framerelay cirutilisation</b> command .....	10-50
10-7	Parameters in the output of the <b>show framerelay config</b> command .....	10-51
10-8	Parameters in the output of the <b>show framerelay counter</b> command .....	10-54
10-9	Parameters in the output of the <b>show framerelay debug</b> command .....	10-57
10-10	Parameters in the output of the <b>show framerelay lmi</b> command .....	10-57
10-11	Parameters in the output of the <b>show framerelay utilisation</b> command .....	10-58
10-12	Parameters in the output of the <b>show framerelay dlc</b> command .....	10-59
10-13	Parameters in the output of the <b>show framerelay dlc</b> command for a specific DLC .....	10-61
10-14	Parameters in the output of the <b>show framerelay dlc counter</b> command .....	10-63
10-15	Parameters in the output of the <b>show framerelay li</b> command .....	10-67
10-16	Parameters in the output of the <b>show framerelay li</b> command for a specific LI .....	10-68
10-17	Parameters in the output of the <b>show framerelay li counter</b> command .....	10-68
11-1	S/T loop transmission states defined by ITU-T Recommendation I.430. ....	11-6
11-2	Superframe format. ....	11-11
11-3	Extended superframe format. ....	11-12
11-4	Categories of debug messages generated by the BRI software module. ....	11-16
11-5	Categories of debug messages generated by the PRI software module. ....	11-22
11-6	Standard LAPD configuration for an ISDN Basic Rate Interface . ....	11-27
11-7	Standard LAPD configuration for an ISDN Primary Rate Interface . ....	11-28
11-8	SAPI values used by LAPD to specify types of layer 3 entities . ....	11-28
11-9	TEI values used by LAPD to specify logical devices attached to a Basic Rate Interface . ....	11-28
11-10	TEI values used by LAPD to specify logical devices attached to a Primary Rate Interface . ....	11-29
11-11	LAPD frame types. ....	11-29
11-12	SPID Initialisation States . ....	11-35
11-13	SPID Initialisation Events . ....	11-35
11-14	SPID File States . ....	11-36
11-15	SPID File Events . ....	11-36
11-16	Automatic ISDN Switch Detection States . ....	11-37
11-17	Automatic ISDN Switch Detection Events . ....	11-37
11-18	Call priority and call bumping. ....	11-41
11-19	Example configuration parameters for AODI. ....	11-45
11-20	Example configuration parameters for a basic ISDN network. ....	11-48
11-21	Q.931 Profiles . ....	11-51
11-22	ISDN Basic Rate Interface conformance tests .....	11-78
11-23	ISDN Basic Rate Interface debug options .....	11-79
11-24	ISDN Basic Rate Interface test modes for S/T interfaces using a PSB2186 transceiver .....	11-80
11-25	ISDN Basic Rate Interface test modes for U interfaces using an MC145572 transceiver .....	11-80
11-26	ISDN Primary Rate Interface conformance tests .....	11-83
11-27	ISDN Primary Rate Interface debug options .....	11-83
11-28	ISDN Primary Rate Interface test modes for an E1 interface with a Bt 8370 transceiver .....	11-84
11-29	ISDN Primary Rate Interface test modes for an T1 interface with a Bt 8370 transceiver .....	11-85
11-30	Parameters in the output of the <b>ENABLE Q931 DEBUG=MDECODE</b> command .....	11-88
11-31	Parameters in the output of the <b>ENABLE Q931 DEBUG=MRAW</b> command .....	11-88
11-32	Parameters in the output of the <b>ENABLE Q931 DEBUG=SDLC</b> command .....	11-89
11-33	Parameters in the output of the <b>ENABLE Q931 DEBUG=SSPID</b> command .....	11-89
11-34	Parameters in the output of the <b>ENABLE Q931 DEBUG=SSPIDFILE</b> command .....	11-90
11-35	Parameters in the output of the <b>ENABLE Q931 DEBUG=STATE</b> command .....	11-90
11-36	Q.931 Profiles .....	11-109
11-37	Parameters in the output of the <b>show bri configuration</b> command .....	11-110
11-38	Parameters in the output of the <b>show bri counter=interface</b> command .....	11-112
11-39	Parameters in the output of the <b>show bri counter=bri</b> command .....	11-113
11-40	Parameters in the output of the <b>show bri ctest</b> command .....	11-116
11-41	Parameters in the output of the <b>Show bri debug</b> command .....	11-117

11-42	Parameters in the output of the <b>show bri state</b> command for an S/T interface .....	11-119
11-43	States of the physical layer state machine for an ISDN Basic Rate S/T Interface . .....	11-119
11-44	Parameters in the output of the <b>show bri state</b> command for a U interface .....	11-120
11-45	States of the physical layer state machine for an ISDN Basic Rate U Interface . .....	11-121
11-46	ISDN Basic Rate Interface test modes for S/T interfaces using a PSB2186 transceiver .....	11-122
11-47	ISDN Basic Rate Interface test modes for U interfaces using an MC145572 transceiver .....	11-122
11-48	Parameters in the output of the <b>show isdn call</b> command .....	11-124
11-49	Parameters in the output of the <b>show isdn call</b> command for a specific call name .....	11-125
11-50	Parameters in the output of the <b>show isdn clist</b> command .....	11-128
11-51	Parameters in the output of the <b>show isdn log</b> command .....	11-129
11-52	Parameters in the output of the <b>show lapd</b> command .....	11-131
11-53	Parameters in the output of the <b>show lapd count</b> command .....	11-133
11-54	Parameters in the output of the <b>show lapd state</b> command .....	11-134
11-55	Parameters in the output of the <b>show pri configuration</b> command .....	11-135
11-56	Parameters in the output of <b>show pri counter=diagnostic</b> command for a T1-ESF interface operating in message-oriented mode .....	11-137
11-57	Parameters in the output of the <b>show pri counter=diagnostic</b> command for an interface using an SCC- or QMC-type HDLC controller .....	11-138
11-58	Parameters in the output of the <b>show pri counter=interface</b> command .....	11-139
11-59	Parameters in the output of the <b>show pri counter=link</b> command .....	11-141
11-60	Parameters in the output of the <b>show pri counter=pri</b> command for a single channel .....	11-143
11-61	ISDN Primary Rate Interface conformance tests .....	11-146
11-62	ISDN Primary Rate Interface debug options .....	11-147
11-63	Parameters in the output of the <b>SHOW PRI STATE</b> command .....	11-149
11-64	States of the physical layer state machine for an ISDN Primary Rate Interface .....	11-151
11-65	ISDN Primary Rate Interface test modes for an E1 interface with a Bt 8370 transceiver .....	11-153
11-66	ISDN Primary Rate Interface test modes for an T1 interface with a Bt 8370 transceiver .....	11-154
11-67	States for the PRBS test for interfaces with a Bt 8370 transceiver .....	11-155
11-68	Parameters in the output of the <b>SHOW Q931</b> command .....	11-156
11-69	Parameters in the output of the <b>SHOW Q931 CALL</b> command .....	11-158
11-70	Parameters in the output of the <b>SHOW Q931 SPID</b> command .....	11-159
11-71	Parameters in the output of the <b>SHOW Q931 SPID</b> command during the auto-SPID procedure .....	11-161
12-1	NLPID values for protocol encapsulation over X.25 circuits .....	12-8
12-2	Example configuration parameters for a basic X.25 network .....	12-19
12-3	Example configuration parameters for an extended X.25 network .....	12-25
12-5	Configuration parameters for DTE Routers D, T, F and G. ....	12-32
12-6	Parameters in the output of the <b>SHOW LAPB</b> command .....	12-69
12-7	Parameters in the output of the <b>SHOW LAPB CONFIG</b> command .....	12-70
12-8	Parameters in the output of the <b>SHOW LAPB COUNT</b> command .....	12-71
12-9	Parameters in the output of the <b>SHOW LAPB IDLETIMER</b> command .....	12-73
12-10	Parameters in the output of the <b>SHOW MIOX</b> command .....	12-74
12-11	Parameters in the output of the <b>SHOW MIOX COUNT</b> command .....	12-75
12-12	Parameters in the output of the <b>SHOW MIOX CIRCUIT</b> command .....	12-77
12-13	Parameters in the output of the <b>SHOW MIOX CIRCUIT COUNTER</b> command .....	12-78
12-14	Parameters in the output of the <b>SHOW MIOX CIRCUIT ENCAP</b> command .....	12-79
12-15	Parameters in the output of the <b>SHOW X25C</b> command .....	12-80
12-16	Parameters in the output of the <b>SHOW X25C COUNTER</b> command .....	12-82
12-17	Parameters in the output of the <b>SHOW X25C DTEADDRESS</b> command .....	12-85
12-18	Parameters in the output of the <b>SHOW X25C HUNTGROUP</b> command .....	12-86
12-19	Parameters in the output of the <b>SHOW X25C PATH</b> command .....	12-87
12-20	Parameters in the output of the <b>SHOW X25C ROUTE</b> command .....	12-88
12-21	Parameters in the output of the <b>SHOW X25C STATE</b> command .....	12-89
12-22	Parameters in the output of the <b>SHOW X25C TCPKEEPALIVE</b> command .....	12-89
12-23	Parameters in the output of the <b>SHOW X25T</b> command .....	12-90
12-24	Parameters in the output of the <b>SHOW X25T CIRCUIT</b> command .....	12-92
12-25	Parameters in the output of the <b>SHOW X25T COUNT</b> command .....	12-93
12-26	Parameters in the output of the <b>SHOW X25T CPAR</b> command .....	12-95

13-1	Example configuration parameters for a basic synchronous tunnel .....	13-3
13-2	Parameters in the output of the <b>show stt</b> command .....	13-8
14-1	Functions of the fields in an IP datagram .....	14-7
14-2	Internet Protocol address classes and limits on numbers of networks and hosts .....	14-8
14-3	ICMP messages implemented by the router .....	14-14
14-4	Router discovery process .....	14-15
14-5	Procedure for using ECMP .....	14-21
14-6	TOS values defined by RFC 1349 .....	14-27
14-7	Example configuration parameters for broadcast forwarding to a unicast address .....	14-43
14-8	Example configuration parameters for broadcast forwarding to a multicast address .....	14-45
14-9	Example configuration parameters for a basic TCP/IP network .....	14-53
14-10	Example configuration parameters for IP filtering .....	14-58
14-11	Predefined port names used by the IP filtering process .....	14-70
14-12	Predefined ICMP type names used by the IP filtering process .....	14-71
14-13	Predefined ICMP code names used by the IP filtering process .....	14-71
14-14	DHCP reply parameters used by the router for configuring IP .....	14-79
14-15	Service names for use with Network Address Translation (NAT) .....	14-84
14-16	Parameters in the output of the <b>show bootp relay</b> command .....	14-167
14-17	Parameters in the output of the <b>show ip</b> command .....	14-169
14-18	Parameters in the output of the <b>show ip advertise</b> command .....	14-171
14-19	Parameters in the output of the <b>show ip arp</b> command .....	14-172
14-20	Parameters in the output of the <b>show ip counter=arp</b> command .....	14-173
14-21	Parameters in the output of the <b>show ip counter=egp</b> command .....	14-174
14-22	Parameters in the output of the <b>show ip counter=icmp</b> command .....	14-175
14-23	Parameters in the output of the <b>show ip counter=interface</b> command .....	14-176
14-24	Parameters in the output of the <b>show ip counter=ip</b> command .....	14-177
14-25	Parameters in the output of the <b>show ip counter=multicast</b> command .....	14-178
14-26	Parameters in the output of the <b>show ip counter=route</b> command .....	14-179
14-27	Parameters in the output of the <b>show ip counter=snmp</b> command .....	14-180
14-28	Parameters in the output of the <b>show ip counter=udp</b> command .....	14-181
14-29	Parameters in the output of the <b>show ip dns</b> command .....	14-183
14-30	Parameters in the output of the <b>show ip dns cache</b> command .....	14-184
14-31	Parameters in the output of the <b>show ip egp</b> command .....	14-185
14-32	Parameters in the output of the <b>show ip filter</b> command .....	14-187
14-33	Parameters in the output of the <b>show ip helper</b> command .....	14-188
14-34	Parameters in the output of the <b>show ip helper counter</b> command .....	14-189
14-35	Parameters in the output of the <b>show ip host</b> command .....	14-190
14-36	Parameters in the output of the <b>show ip icmpreply</b> command .....	14-190
14-37	Parameters in the output of the <b>show ip interface</b> command .....	14-192
14-38	Parameters in the output of the <b>show ip interface counter</b> command .....	14-194
14-39	Parameters in the output of the <b>show ip nat</b> command .....	14-196
14-40	Parameters in the output of the <b>show ip nat counter</b> command .....	14-198
14-41	Parameters in the output of the <b>show ip pool</b> command .....	14-200
14-42	Parameters in the output of the <b>show ip rip</b> command .....	14-202
14-43	Parameters in the output of the <b>show ip rip counter</b> command .....	14-204
14-44	Parameters in the output of the <b>show ip riptimer</b> command .....	14-205
14-45	Parameters in the output of the <b>show ip route</b> and the <b>show ip route full</b> command .....	14-207
14-46	Parameters in the output of the <b>show ip route general</b> command .....	14-208
14-47	Parameters in the output of the <b>show ip route cache</b> command .....	14-208
14-48	Parameters in the output of the <b>show ip route count</b> command .....	14-209
14-49	Parameters in the output of the <b>show ip route filter</b> command .....	14-210
14-50	Parameters in the output of the <b>show ip route multicast</b> command .....	14-211
14-51	Parameters in the output of the <b>show ip route preference</b> command .....	14-212
14-52	Parameters in the output of the <b>show ip route template</b> command .....	14-213
14-53	Parameters in the output of the <b>show ip route template</b> command for a specific template .	14-213
14-54	Parameters in the output of the <b>show ip udp</b> command .....	14-215
14-55	Parameters in the output of the <b>show ping</b> command .....	14-217
14-56	Parameters in the output of the <b>show tcp</b> command for a specific TCP connection .....	14-219

14-57	Parameters in the output of the <b>show tcp</b> command .....	14-221
14-58	TCP states .....	14-222
14-59	Parameters in the output of the <b>show trace</b> command .....	14-224
15-1	General description of fields in an IPv6 packet header .....	15-7
15-2	IPv4 and IPv6 interfaces and addresses used in this example .....	15-31
15-6	Parameters in the output of the <b>show ipv6</b> command .....	15-70
15-7	Parameters in the output of the <b>show ipv6 counter</b> command .....	15-72
15-8	Parameters in the output of the <b>show ipv6 filter</b> command .....	15-77
15-9	Parameters in the output of the <b>show ipv6 host</b> command .....	15-78
15-10	Parameters in the output of the <b>show ipv6 interface</b> command .....	15-80
15-11	Parameters in the output of the <b>show ipv6 multicast</b> command .....	15-81
15-12	Parameters in the output of the <b>show ipv6 ndcache</b> command .....	15-82
15-13	Parameters in the output of the <b>show ipv6 ndconfig</b> command .....	15-83
15-14	Parameters in the output of the <b>show ipv6 rip</b> command .....	15-85
15-15	Parameters in the output of the <b>show ipv6 rip timer</b> command .....	15-85
15-16	Parameters in the output of the <b>show ipv6 rip counter</b> command .....	15-86
15-17	Parameters in the output of the <b>show ipv6 route</b> command .....	15-87
15-18	Parameters in the output of the <b>show ipv6 route multicast</b> command .....	15-89
15-19	Parameters in the output of the <b>show ipv6 route preference</b> command .....	15-90
15-20	Parameters in the <b>show ipv6 tunnel</b> command .....	15-91
16-1	The effect of different parameter combinations .....	16-17
16-2	Parameters in the output of the <b>show ping poll</b> command .....	16-18
16-3	Parameters in the output of the <b>show ping poll full</b> and <b>show ping poll counter full</b> commands .....	16-19
17-1	DVMRP debugging options .....	17-51
17-2	PIM debugging options .....	17-55
17-3	Default Multicast Addresses .....	17-60
17-4	Parameters in the output of the <b>show dvmrp counters</b> command .....	17-67
17-5	Parameters in the output of the <b>show dvmrp debug</b> command .....	17-68
17-6	Parameters in the output of the <b>show dvmrp forwarding</b> command .....	17-69
17-7	Parameters in the output of the <b>show dvmrp interface</b> command .....	17-70
17-8	Parameters in the output of the <b>show dvmrp neighbour</b> command .....	17-70
17-9	Parameters in the output of the <b>show dvmrp route</b> command .....	17-71
17-10	Parameters in the output of the <b>show igmpsnooping routeraddress</b> command .....	17-72
17-11	Parameters in the output of the <b>show ip igmp</b> command .....	17-74
17-12	Parameters in the output of the <b>show ip igmp counter</b> command .....	17-75
17-13	Parameters in the output of the <b>show ip igmp debug</b> command .....	17-76
17-14	Parameters in the output of the <b>show pim bsr candidate</b> command .....	17-78
17-15	Parameters in the output of the <b>show pim counters</b> command .....	17-81
17-16	Parameters in the output of the <b>show pim debug</b> command .....	17-83
17-17	Parameters in the output of the <b>show pim interface</b> command .....	17-85
17-18	Parameters in the output of the <b>show pim neighbour</b> command .....	17-86
17-19	Parameters in the output of the <b>show pim route</b> command for PIM Sparse Mode .....	17-88
17-20	Parameters in the output of the <b>show pim route</b> command for PIM Dense Mode .....	17-91
17-21	Parameters in the output of the <b>show pim rpcandidate</b> command .....	17-92
17-22	Parameters in the output of the <b>show pim rpset</b> command when the RP is statically configured .....	17-93
17-23	Parameters in the output of the <b>show pim rpset</b> command when the RP is determined using the bootstrap mechanism .....	17-94
17-24	Parameters in the output of the <b>show pim staterefresh</b> command .....	17-95
17-25	Parameters in the output of the <b>show pim timer</b> command .....	17-96
18-1	Some IPv6 multicast addresses .....	18-3
18-2	PIM6 debugging options .....	18-33
18-3	Parameters in the output of the <b>show ipv6 mld</b> command .....	18-42
18-4	Parameters in the output of the <b>show ipv6 mld counters</b> command .....	18-44



18-5	Parameters in the output of the <b>show pim6 bsr</b> command. ....	18-47
18-6	Parameters in the output of the <b>show pim6 counters</b> command. ....	18-49
18-7	Parameters in the output of the <b>show pim6 debug</b> command. ....	18-51
18-8	Parameters in the output of the <b>show pim6 interface</b> command. ....	18-53
18-9	Parameters in the output of the <b>show pim6 neighbour</b> command. ....	18-54
18-10	Parameters in the output of the <b>show pim6 route</b> command for PIM Sparse Mode. ....	18-56
18-11	Parameters in the output of the <b>show pim6 route</b> command for PIM Dense Mode. ....	18-59
18-12	Parameters in the output of the <b>show pim6 rpcandidate</b> command. ....	18-60
18-13	Parameters in the output of the <b>show pim6 rpset</b> command when the RP is statically configured. ....	18-61
18-14	Parameters in the output of the <b>show pim6 rpset</b> command when the RP is determined using the bootstrap mechanism. ....	18-61
18-15	Parameters in the output of the <b>show pim6 staterefresh</b> command. ....	18-62
18-16	Parameters in the output of the <b>show pim6 timer</b> command. ....	18-63
19-1	Combinations of circuits and interfaces supported by the router's implementation of IPX. ....	19-5
19-2	Wildcard characters for numeric expression matching. ....	19-9
19-3	Wildcard characters for ASCII string expression matching. ....	19-10
19-4	Example configuration parameters for IPX dial-on-demand ....	19-22
19-5	IPX dial-on-demand default parameter settings ....	19-31
19-6	Common IPX sockets ....	19-39
19-7	Common IPX services. ....	19-40
19-8	Parameters in the output of the <b>show ipx</b> command ....	19-55
19-9	Parameters in the output of the <b>show ipx circuit</b> command ....	19-61
19-10	Parameters in the output of the <b>show ipx counter=CIRCUIT</b> command ....	19-63
19-11	Parameters in the output of the <b>show ipx counter=GATEWAY</b> command ....	19-64
19-12	Parameters in the output of the <b>show ipx counter=ROUTES</b> command ....	19-65
19-13	Parameters in the output of the <b>show ipx exclusion</b> command ....	19-65
19-14	Parameters in the output of the <b>show ipx inclusion</b> command ....	19-66
19-15	Parameters in the output of the <b>show ipx rip</b> command. ....	19-67
19-16	Parameters in the output of the <b>show ipx route</b> command ....	19-68
19-17	Parameters in the output of the <b>show ipx sap</b> command. ....	19-69
19-18	Parameters in the output of the <b>show ipx service</b> command. ....	19-71
19-19	Parameters in the output of the <b>SHOW IPX SPX SPOOF</b> command. ....	19-72
20-1	Parameters in the output of the <b>show decnet</b> command. ....	20-28
20-2	Parameters in the output of the <b>show decnet counter=global</b> command. ....	20-29
20-3	Parameters in the output of the <b>show decnet counter=interface</b> command. ....	20-30
20-4	Parameters in the output of the <b>show decnet counter=route</b> command. ....	20-31
20-5	Parameters in the output of the <b>show decnet interface</b> command. ....	20-33
20-6	Parameters in the output of the <b>show decnet route</b> command. ....	20-35
21-1	Configuration parameters for TTY devices ....	21-3
21-3	Parameters in the output of the <b>show service</b> command ....	21-25
21-4	Parameters in the output of the <b>show telnet</b> command ....	21-27
21-5	Parameters in the output of the <b>show tty</b> command ....	21-28
21-6	Parameters in the output of the <b>show tty=all summary</b> command ....	21-29
21-7	Parameters in the output of the <b>show tty default</b> command ....	21-30
22-1	Optional user-configurable parameters for LPD queues ....	22-5
22-2	Parameters displayed in the output of the <b>show perm</b> command ....	22-23
22-3	Parameters displayed in the output of the <b>show stream</b> command ....	22-23
23-1	Physical networks supported by OSPF. ....	23-4
23-2	OSPF router types ....	23-5
23-3	OSPF link state advertisement types ....	23-7
23-4	OSPF packet types ....	23-7
23-5	OSPF neighbour states ....	23-8
23-6	OSPF interface states ....	23-8

23-7	OSPF path types .....	23-10
23-8	OSPF log message codes .....	23-34
23-9	Parameters in the output of the <b>show ospf</b> command .....	23-49
23-10	Parameters in the output of the <b>show ospf area</b> command .....	23-51
23-11	Parameters in the output of the <b>show ospf area</b> command for a specific area .....	23-52
23-12	Parameters in the output of the <b>show ospf host</b> command .....	23-54
23-13	Parameters in the output of the <b>show ospf interface</b> command .....	23-56
23-14	Parameters in the output of the <b>show ospf interface</b> command for a specific interface .....	23-57
23-15	Parameters in the output of the <b>show ospf lsa summary</b> command .....	23-60
23-16	Parameters in the output of the <b>show ospf neighbour</b> command .....	23-64
23-17	Parameters in the output of the <b>SHOW OSPF RANGE</b> command .....	23-65
23-18	Parameters in the output of the <b>show ospf route</b> command .....	23-66
23-19	Parameters in the output of the <b>show ospf stub</b> command .....	23-68
24-1	Bridge port states .....	24-5
24-2	Predefined protocol types implemented by the bridge module .....	24-22
24-3	Parameters in the output of the <b>show bridge</b> command .....	24-37
24-4	Parameters in the output of the <b>show bridge counter</b> command .....	24-38
24-5	Parameters in the output of the <b>show bridge filter</b> command .....	24-42
24-6	Parameters in the output of the <b>show bridge group</b> command .....	24-43
24-7	Parameters in the output of the <b>show bridge port</b> command .....	24-45
24-8	Parameters in the output of the <b>show bridge protocol</b> command .....	24-47
24-9	Parameters in the output of the <b>show bridge spanning</b> command .....	24-48
24-10	Parameters in the output of the <b>show bridge station</b> command .....	24-50
25-1	Parameters in the output of the <b>show enco</b> command. ....	25-29
25-2	Parameters in the output of the <b>show enco channel</b> command. ....	25-30
25-3	Parameters in the output of the <b>show enco channel</b> command for a specific channel. ....	25-31
25-4	Parameters in the output of the <b>show enco channel counters</b> command. ....	25-34
25-5	Parameters in the output of the <b>show enco counters=aes</b> command. ....	25-37
25-6	Parameters in the output of the <b>show enco counters=des</b> command. ....	25-38
25-7	Parameters in the output of the <b>show enco counters=dh</b> command. ....	25-40
25-8	Parameters in the output of the <b>show enco counters=hardware</b> command. ....	25-41
25-9	Parameters in the output of the <b>show enco counters=hmac</b> command. ....	25-42
25-10	Parameters in the output of the <b>show enco counters=ipsec</b> command. (Not available on AR410 series routers.) ....	25-43
25-11	Parameters in the output of the <b>show enco counters=queues</b> command. ....	25-43
25-12	Parameters in the output of the <b>show enco counters=mac</b> command. ....	25-44
25-13	Parameters in the output of the <b>show enco counters=pred</b> command. ....	25-45
25-14	Parameters in the output of the <b>show enco counters=rsa</b> command. ....	25-45
25-15	Parameters in the output of the <b>show enco counters=ssl</b> command. ....	25-46
25-16	Parameters in the output of the <b>show enco counters=stac</b> command. ....	25-49
25-17	Parameters in the output of the <b>show enco counters=user</b> command. ....	25-51
25-18	Parameters in the output of the <b>show enco counters=util</b> command. ....	25-53
25-19	Parameters in the output of the <b>show enco key</b> command. ....	25-54
26-1	Possible test outcomes for an Ethernet interface .....	26-5
26-2	Possible test outcomes for an asynchronous interface .....	26-7
26-3	Possible test outcomes for a universal synchronous interface .....	26-8
26-4	Possible test outcomes for a Basic Rate ISDN interface .....	26-9
26-5	Possible test outcomes for a Primary Rate ISDN interface .....	26-10
26-6	Possible test outcomes for a MAC card .....	26-11
26-7	Valid interface options for the <b>enable test interface</b> command .....	26-12
26-8	Valid interface options for the <b>show test</b> command .....	26-14
26-9	Parameters in the output of the <b>show test interface</b> command .....	26-15
26-10	Parameters in the output of the <b>show test interface counter</b> command .....	26-16
27-1	Example configuration parameters for a network time service .....	27-5
27-2	Parameters in the output of the <b>show ntp</b> command .....	27-10

28-1	RADIUS authentication attributes supported by Asynchronous Call Control (ACC) .....	28-5
28-2	RADIUS accounting attributes supported by Asynchronous Call Control (ACC) .....	28-6
28-3	Parameters in the output of the <b>show acc</b> command .....	28-31
28-4	Parameters in the output of the <b>show acc call</b> command .....	28-32
28-5	ACC asynchronous port states .....	28-35
28-6	Parameters in the output of the <b>show acc script</b> command .....	28-36
29-1	IP address ranges reserved for private IP networks by RFC 1597 .....	29-2
29-2	Example configuration parameters for point-to-point GRE .....	29-5
29-3	Example configuration parameters for multi-point GRE .....	29-7
29-4	Parameters in the output of the <b>show gre</b> command .....	29-19
29-5	Parameters in the output of the <b>show gre general</b> command .....	29-20
29-6	Parameters displayed in the output of the <b>show gre tunnel</b> command .....	29-21
30-1	Parameters displayed in the output of the <b>show trigger</b> command .....	30-21
30-2	Parameters in the output of the <b>show trigger full</b> command .....	30-22
30-3	Parameters in the output of the <b>show trigger status</b> command .....	30-24
30-4	Parameters in the output of the <b>show trigger counter</b> command .....	30-25
31-1	Classes of LocalTalk Link Access Protocol node IDs .....	31-5
31-2	Example configuration parameters for AppleTalk routing .....	31-19
31-3	Interaction of SEED and HINT parameters in setting AppleTalk node numbers .....	31-27
31-4	Parameters in the output of the <b>show apple</b> command .....	31-49
31-5	Parameters in the output of the <b>show apple aarp</b> command .....	31-50
31-6	Parameters in the output of the <b>show apple circuit</b> command .....	31-51
31-7	Parameters in the output of the <b>show apple count=aarp</b> command .....	31-52
31-8	Parameters in the output of the <b>show apple count=atp</b> command .....	31-53
31-9	Parameters in the output of the <b>show apple count=ddp</b> command .....	31-54
31-10	Parameters in the output of the <b>show apple count=ndp</b> command .....	31-55
31-11	Parameters in the output of the <b>show apple count=port</b> command .....	31-55
31-12	Parameters in the output of the <b>show apple count=route</b> command .....	31-56
31-13	Parameters in the output of the <b>show apple count=zip</b> command .....	31-57
31-14	Parameters in the output of the <b>show apple dlci</b> command .....	31-58
31-15	Parameters in the output of the <b>show apple filter</b> command .....	31-59
31-16	Parameters in the output of the <b>show apple port</b> command .....	31-61
31-17	Parameters in the output of the <b>show apple route</b> command .....	31-63
31-18	Parameters in the output of the <b>show apple routefilter</b> command .....	31-64
31-19	Parameters in the output of the <b>show apple zone</b> command .....	31-65
31-20	Parameters in the output of the <b>show apple routefilter</b> command .....	31-66
32-1	Parameters in the output of the <b>show tdm group</b> command. ....	32-12
33-1	Log message fields . ....	33-3
33-2	Log message severity levels . ....	33-3
33-3	Mapping between Logging facility module identifier, type and subtype, and syslog facility identifiers . ....	33-7
33-4	Mapping between Logging facility severity levels and syslog levels . ....	33-7
33-5	Log message filter comparison operators . ....	33-9
33-6	Example configuration parameters for a basic Logging facility . ....	33-10
33-7	Recognised time zone names . ....	33-19
33-8	Parameters in the output of the <b>show log</b> command .....	33-37
33-9	Parameters in the output of the <b>show log full</b> command .....	33-38
33-10	Parameters in the output of the <b>show log counter</b> command .....	33-40
33-11	Parameters in the output of the <b>show log output</b> command .....	33-42
33-12	Parameters in the output of the <b>show log output full</b> command .....	33-44
33-13	Parameters in the output of the <b>show log queue</b> command .....	33-45
33-14	Parameters in the output of the <b>show log receive</b> command .....	33-47
33-15	Parameters in the output of the <b>show log status</b> command .....	33-48

34-1	Global script variables .....	34-5
34-2	Parameters in the output of the <b>show script</b> command .....	34-13
35-1	Parameters in the output of the <b>show dhcp</b> command .....	35-27
35-2	Parameters in the output of the <b>show dhcp client</b> command .....	35-29
35-3	Parameters in the output of the <b>show dhcp policy</b> command .....	35-30
35-4	Parameters in the output of the <b>show dhcp range</b> command .....	35-32
36-1	Parameters in the output of the <b>show dhcp6</b> command .....	36-23
36-2	Parameters in the output of the <b>show dhcp6 client</b> command .....	36-25
36-3	Parameters in the output of the <b>show dhcp6 counter</b> command .....	36-26
36-4	Parameters in the output of the <b>show dhcp6 interface</b> command .....	36-29
36-5	Parameters in the output of the <b>show dhcp6 key</b> command .....	36-31
36-6	Parameters in the output of the <b>show dhcp6 policy</b> command .....	36-32
36-7	Parameters in the output of the <b>show dhcp6 range</b> command .....	36-33
36-8	Parameters in the output of the <b>show dhcp6 server</b> command .....	36-34
37-1	Parameters in the output of the <b>show l2tp</b> command .....	37-30
37-2	Parameters in the output of the <b>show l2tp counter</b> command .....	37-32
37-3	Parameters in the output of the <b>show l2tp call</b> command .....	37-34
37-4	Parameters in the output of the <b>show l2tp ip</b> command .....	37-35
37-5	Parameters in the output of the <b>show l2tp tunnel</b> command .....	37-37
37-6	Parameters in the output of the <b>show l2tp tunnel</b> command for a specific active call .....	37-38
37-7	Parameters in the output of the <b>show l2tp tunnel counter</b> command .....	37-41
37-8	Parameters in the output of the <b>show l2tp tunnel call counter</b> command .....	37-42
37-9	Parameters in the output of the <b>show l2tp user</b> command .....	37-45
38-1	Access modes for MIB objects .....	38-7
38-2	Status values for MIB objects .....	38-8
38-3	Fields in an SNMP message .....	38-10
38-4	SNMP PDUs .....	38-10
38-5	Generic SNMP traps .....	38-11
38-6	SNMPv3 PDUs .....	38-13
38-7	Community profiles for objects in a MIB view .....	38-15
38-8	SNMP Defined Mib Names .....	38-20
38-9	Parameters in the output of the <b>show snmp</b> command .....	38-45
38-10	Parameters in the output of the <b>show snmp community</b> command .....	38-48
38-11	Parameters in the output of the <b>SHOW SNMP GROUP</b> command .....	38-49
38-12	Parameters in the output of the <b>show snmp targetaddr</b> command .....	38-50
38-13	Parameters in the output of the <b>show snmp group</b> command .....	38-51
38-14	Parameters in the output of the <b>show snmp user</b> command .....	38-52
38-15	Parameters in the output of the <b>show snmp view</b> command .....	38-53
39-1	AT Commands supported by Alliedware .....	39-8
39-2	Alliedware TPAD Result Codes .....	39-9
39-3	Parameters in the output of the <b>show tpad</b> command .....	39-26
39-4	Parameters in the output of the <b>show tpad connection</b> command .....	39-27
39-5	Parameters in the output of the <b>show tpad counter</b> command .....	39-29
40-1	Parameters in the output of the <b>show rsvp</b> command .....	40-20
40-2	Parameters in the output of the <b>show rsvp counter</b> command .....	40-21
40-3	Parameters in the output of the <b>show rsvp interface</b> command .....	40-23
40-4	Parameters in the output of the <b>show rsvp path</b> command .....	40-24
40-5	Parameters in the output of the <b>show rsvp proxy</b> command .....	40-26
40-6	Parameters in the output of the <b>show rsvp proxy counter</b> command .....	40-27
40-7	Parameters in the output of the <b>show rsvp resv</b> command .....	40-28
41-1	Parameters in the output of the <b>show firewall arp</b> command .....	41-14
41-2	Log types and subtypes for firewall events .....	41-23

41-3	Log Types and Subtypes Requiring Additional Configuration . . . . .	41-25
41-4	Application Proxies . . . . .	41-41
41-5	Pre-defined IP protocol service names . . . . .	41-46
41-6	Required parameters for firewall NAT rules. . . . .	41-47
41-7	Defaults for <b>set firewall policy attack</b> command parameters. . . . .	41-75
41-8	Parameters in the output of the <b>show firewall</b> command . . . . .	41-80
41-9	Parameters in the output of the <b>show firewall accounting</b> command . . . . .	41-82
41-10	Parameters in the output of the <b>show firewall arp</b> command . . . . .	41-83
41-11	Parameters in the output of the <b>show firewall event</b> command . . . . .	41-86
41-12	Parameters in the output of the <b>show firewall policy</b> command . . . . .	41-88
41-13	Parameters in the output of the <b>show firewall policy counter</b> command . . . . .	41-94
41-14	Parameters in the output of the <b>show firewall policy dynamic</b> command . . . . .	41-98
41-15	Parameters in the output of the <b>show firewall policy list</b> command . . . . .	41-99
41-16	Parameters in the output of the <b>show firewall policy user</b> command . . . . .	41-99
41-17	Parameters in the output of the <b>show firewall policy attack</b> command . . . . .	41-101
41-18	Parameters in the output of the <b>show firewall session</b> command . . . . .	41-102
41-19	Parameters in the output of the <b>show firewall session upnp</b> command . . . . .	41-104
42-1	Parameters in the output of the <b>show upnp</b> command . . . . .	42-15
42-2	Parameters in the output of the <b>show upnp counter</b> command . . . . .	42-16
42-3	Parameters in the output of the <b>show upnp interface</b> command . . . . .	42-20
42-4	Parameters in the output of the <b>show upnp interface subscriptions</b> command . . . . .	42-22
43-1	Parameters in the output of the <b>show ssh</b> command . . . . .	43-16
43-2	Parameters in the output of the <b>show ssh counter</b> command . . . . .	43-18
43-3	Parameters in the output of the <b>show ssh sessions</b> command . . . . .	43-23
43-4	Parameters in the output of the <b>show ssh user</b> command . . . . .	43-24
43-5	Parameters in the output of the <b>show ssh user</b> command for a specific user . . . . .	43-25
44-1	Parameters in the output of the <b>show star</b> command for a specific star entity when a MAC card is installed . . . . .	44-17
44-2	Parameters in the output of the <b>show star counter</b> command . . . . .	44-18
44-3	Parameters in the output of the <b>show star counter</b> command for a specific star entity . . . . .	44-21
44-4	Parameters in the output of the <b>show star mkttransfer log</b> command . . . . .	44-23
45-1	Parameters in the output of the <b>show ipsec</b> command . . . . .	45-86
45-2	Parameters in the output of the <b>show ipsec bundlespecification</b> command . . . . .	45-87
45-3	Parameters in the output of the <b>show ipsec bundlespecification</b> command for a specific bundle. . . . .	45-88
45-4	Parameters in the output of the <b>show ipsec counter=ah</b> command . . . . .	45-89
45-5	Parameters in the output of the <b>show ipsec counter=alg</b> command . . . . .	45-92
45-6	Parameters in the output of the <b>show ipsec counter=comp</b> command . . . . .	45-97
45-7	Parameters in the output of the <b>show ipsec counter=esp</b> command . . . . .	45-99
45-8	Parameters in the output of the <b>show ipsec counter=main</b> command . . . . .	45-101
45-9	Parameters in the output of the <b>show ipsec counter=sad</b> command . . . . .	45-102
45-10	Parameters in the output of the <b>show ipsec counter=setup</b> command . . . . .	45-103
45-11	Parameters in the output of the <b>show ipsec counter=spd</b> command . . . . .	45-104
45-12	Parameters in the output of the <b>show ipsec policy</b> command . . . . .	45-106
45-13	Parameters in the output of the <b>show ipsec policy</b> command for a specific policy. . . . .	45-107
45-14	Parameters in the output of the <b>show ipsec policy sabundle</b> command . . . . .	45-109
45-15	Parameters in the output of the <b>show ipsec policy counter</b> command . . . . .	45-110
45-16	Parameters in the output of the <b>show ipsec sa</b> command . . . . .	45-113
45-17	Parameters in the output of the <b>show ipsec sa</b> command for a specific SA. . . . .	45-115
45-18	Parameters in the output of the <b>show ipsec sa counter</b> command . . . . .	45-117
45-19	Parameters in the output of the <b>show ipsec saspecification</b> command . . . . .	45-120
45-20	Parameters in the output of the <b>show ipsec saspecification</b> command for a specific SA specification. . . . .	45-121
45-21	Parameters in the output of the <b>show isakmp</b> command . . . . .	45-122
45-22	Parameters in the output of the <b>show isakmp counter=aggressive</b> command . . . . .	45-126

45-23	Parameters in the output of the <b>show isakmp counter=general</b> command .....	45-130
45-24	Parameters in the output of the <b>show isakmp counter=info</b> command .....	45-134
45-25	Parameters in the output of the <b>show isakmp counter=ipsec</b> command .....	45-136
45-26	Parameters in the output of the <b>show isakmp counter=main</b> command .....	45-137
45-27	Parameters in the output of the <b>show isakmp counter=network</b> command .....	45-141
45-28	Parameters in the output of the <b>show isakmp counter=quick</b> command .....	45-143
45-29	Parameters in the output of the <b>show isakmp counter=sad</b> command .....	45-147
45-30	Parameters in the output of the <b>show isakmp counter=spd</b> command .....	45-148
45-31	Parameters in the output of the <b>show isakmp counter=transaction</b> command .....	45-149
45-32	Parameters in the output of the <b>show isakmp counter=xde</b> command .....	45-150
45-33	Parameters in the output of the <b>show isakmp exchange</b> command .....	45-152
45-34	Parameters in the output of the <b>show isakmp exchange</b> command for a specific exchange .	45-155
45-35	Parameters in the output of the <b>show isakmp policy</b> command .....	45-159
45-36	Parameters in the output of the <b>show isakmp policy</b> command for specific policy .....	45-160
45-37	Parameters in the output of the <b>show isakmp sa</b> command .....	45-163
45-38	Parameters in the output of the <b>show isakmp sa</b> command for a specific SA. ....	45-165
45-39	Parameters in the output of the <b>show sa</b> command .....	45-168
45-40	Parameters in the output of the <b>show sa</b> command for a specific security association .....	45-169
45-41	Parameters in the output of the <b>show sa counter</b> command .....	45-171
45-42	Parameters in the output of the <b>show sa counter</b> command for a specific security association .....	45-173
45-43	Parameters in the output of the <b>show sa user</b> command .....	45-176
46-1	Public Key Infrastructure (PKI) debugging options .....	46-24
46-2	Parameters in the output of the <b>show pki</b> command .....	46-29
46-3	Parameters in the output of the <b>show pki counters</b> command .....	46-31
46-4	Parameters in the output of the <b>show pki certificate</b> command .....	46-37
46-5	Parameters in the output of the <b>show pki certificate=name</b> command .....	46-38
46-6	Parameters in the output of the <b>show pki crl</b> command .....	46-39
46-7	Parameters in the output of the <b>show pki crl=name</b> command .....	46-40
46-8	Parameters in the output of the <b>show pki enrollmentrequest</b> command .....	46-42
46-9	Parameters in the output of the <b>show pki enrollmentrequest=name</b> command .....	46-43
46-10	Parameters in the output of the <b>show pki keyupdate request</b> command .....	46-44
46-11	Parameters in the output of the <b>show pki keyupdate request=name</b> command .....	46-44
46-12	Parameters in the output of the <b>show pki ldaprepository</b> command .....	46-45
47-1	Parameters in the output of the <b>show vrrp</b> command .....	47-22
48-1	Interpreting NSAP addresses .....	48-3
48-2	CLNS debugging options .....	48-22
48-3	Parameters in the output of the <b>show clns</b> command .....	48-28
48-4	Parameters in the output of the <b>show clns adjacency</b> command .....	48-29
48-5	Parameters in the output of the <b>show clns area</b> command .....	48-30
48-6	Parameters in the output of the <b>show clns circuit</b> command .....	48-32
48-7	Parameters in the output of the <b>show clns circuit</b> command when no <b>circuit</b> value is specified .....	48-33
48-8	Parameters in the output of the <b>show clns circuit counters</b> command .....	48-34
48-9	Parameters in the output of the <b>show clns counters</b> command .....	48-36
48-10	Parameters in the output of the <b>show clns detail</b> command .....	48-38
48-11	Parameters in the output of the <b>show clns ra</b> command .....	48-40
48-12	Parameters in the output of the <b>show clns route=all</b> command .....	48-41
49-1	BGP attributes .....	49-7
49-2	Procedure for configuring the external BGP speaker .....	49-19
49-3	Procedure for configuring an internal BGP speaker .....	49-20
49-4	Procedure for checking and debugging BGP peers .....	49-21
49-5	Procedure for using a template to create a BGP peer .....	49-22
49-6	Procedure for using a template to modify a BGP peer .....	49-24
49-7	Procedure for deleting a BGP peer .....	49-25

49-9	The effect of actions in AS path list and route map entries .....	49-30
49-10	The effect of actions in prefix list and route map entries .....	49-32
49-11	The available set clauses for route maps .....	49-33
49-12	Procedure for importing particular static routes .....	49-37
49-13	Parameters in the output of the <b>show bgp</b> command .....	49-111
49-14	Parameters in the output of the <b>show bgp aggregate</b> command .....	49-113
49-15	Parameters in the output of the <b>show bgp confederation</b> command .....	49-114
49-16	Parameters in the output of the <b>show bgp backoff</b> command .....	49-115
49-17	Parameters in the output of the <b>show bgp import</b> command .....	49-117
49-18	Parameters in the output of the <b>show bgp memlimit scan</b> command .....	49-120
49-19	Parameters in the output of the <b>show bgp network</b> command .....	49-121
49-20	Example summary output from the <b>show bgp peer</b> command .....	49-122
49-21	Parameters in output of the <b>show bgp peer</b> command for a specific peer .....	49-124
49-22	Parameters in output of the <b>show bgp peertemplate</b> command .....	49-127
49-23	Parameters in the output of the <b>show bgp route</b> command .....	49-130
49-24	Parameters in the output of the <b>show ip aspathlist</b> command .....	49-131
49-25	Parameters in the output of the <b>show ip communitylist</b> command .....	49-132
49-26	Parameters in the output of the <b>show ip prefixlist</b> command .....	49-133
49-27	Parameters in the detailed output of the <b>show ip prefixlist</b> command .....	49-133
49-28	Parameters in the output of the <b>show ip routemap</b> command .....	49-135
50-1	Parameters in the output of the <b>show loadbalancer</b> command .....	50-43
50-2	Parameters in the output of the <b>show loadbalancer affinity</b> command .....	50-45
50-3	Parameters in the output of the <b>show loadbalancer connections</b> command .....	50-46
50-4	Parameters in the output of the <b>show loadbalancer redundancy</b> command .....	50-47
50-5	Parameters in the output of the <b>show loadbalancer resource</b> command .....	50-49
50-6	Parameters in the output of the <b>show loadbalancer resource</b> command .....	50-50
50-7	Parameters in the output of the <b>show loadbalancer resource</b> command .....	50-51
50-8	Parameters in detailed output of the <b>show loadbalancer respool</b> command .....	50-52
50-9	Parameters in general output of the <b>show loadbalancer virtualbalancer</b> command .....	50-53
50-10	Parameters in detailed output of the <b>show loadbalancer virtualbalancer</b> command .....	50-54
51-1	Parameters in the output of the <b>show ssl</b> command .....	51-11
51-2	Parameters in the output of the <b>show ssl counters</b> command .....	51-13
51-3	Parameters in the output of the <b>show ssl sessions</b> command .....	51-20
52-1	Tone Generation .....	52-6
52-2	SIP methods .....	52-17
52-3	Australia Parameters .....	52-44
52-4	Austria Parameters .....	52-44
52-5	China Parameters .....	52-45
52-6	France Parameters .....	52-45
52-7	Germany1 Parameters .....	52-45
52-8	Germany2 Parameters .....	52-46
52-9	Holland Parameters .....	52-46
52-10	Italy Parameters .....	52-46
52-11	Japan Parameters .....	52-47
52-12	Korea Parameters .....	52-47
52-13	New Zealand Parameters .....	52-47
52-14	Spain Parameters .....	52-48
52-15	UK Parameters .....	52-48
52-16	USA1 Parameters .....	52-48
52-17	USA2 Parameters .....	52-49
52-18	Changeable <b>cadence</b> parameter options .....	52-49
52-19	Parameters in the output of the <b>show h323</b> command .....	52-51
52-20	Parameters in the output of the <b>show h323 entry</b> command .....	52-52
52-21	Parameters in the output of the <b>show h323 gateway</b> command .....	52-53
52-22	Parameters in the output of the <b>show sip</b> command .....	52-54
52-23	Parameters in the output of the <b>show sip gateway</b> command .....	52-55

52-24	Parameters in the output of the <b>show voip</b> command .....	52-56
52-25	Parameters in the output of the <b>show voip ap</b> command .....	52-57
52-27	Parameters in the output of the <b>show voip instance</b> command .....	52-61
52-28	Parameters in the output of the <b>show voip load</b> command .....	52-62
52-29	Parameters in the output of the <b>show voip phone</b> command .....	52-63
B-1	MIBs supported by the router .....	B-2
B-3	Object groups in the AT Router sub-tree of the Allied Telesyn Enterprise MIB .....	B-6
B-5	Object identifiers for interface types .....	B-11
B-6	Object identifiers for chip sets .....	B-12
B-10	Frame Relay DTE MIB implementation variations .....	B-40
B-12	Host Resources MIB device types supported by the router .....	B-45
C-1	Module Identifiers, Display Names and Descriptions .....	C-2
C-2	Flash File System Message Codes .....	C-7
C-3	ISDN Q.931 Call Clearance Cause Codes and Descriptions .....	C-9
C-4	Log Message Types and Subtypes .....	C-11