APPENDIX A

Predefined Application Policies

The WAAS software includes over 150 predefined application policies that help your WAAS system classify and optimize some of the most common traffic on your network. Table A-1 lists the predefined applications and classifiers that WAAS will either optimize or pass through based on the policies that are provided with the system.

Before you create an application policy, we recommend that you review the predefined policies and modify them as appropriate. Often, you can more easily modify an existing policy than create a new one.

When reviewing Table A-1, note the following information:

- The subheadings represent the application names, and the associated classifiers are listed under these subheadings. For example, Authentication is a type of application and Kerberos is a classifier for that application.
- Applications with the word (*monitored*) next to them are monitored by the WAAS Central Manager, which can display statistics for only 20 applications at a time. To view statistics for one of the unmonitored applications, use one of the following methods:
  - Use the WAAS CLI, which can display statistics for all applications on a WAAS device. For more information, see the *Cisco Wide Area Application Services Command Reference*.
  - Modify the application settings so the WAAS Central Manager GUI displays statistics for the desired application. For more information, see Chapter 12, "Configuring Application Acceleration."
- WAAS Express devices have similar default policies but do not provide application acceleration. Where an application accelerator is listed in Table A-1, it is not part of the WAAS Action for a WAAS Express device.

The WAAS software uses the following optimization technologies based on the type of traffic that it encounters:

- TFO (transport flow optimization)—A collection of optimization technologies such as automatic windows scaling, increased buffering, and selective acknowledgement that optimize all TCP traffic over your network.
- RE (redundancy elimination)—A compression technology that reduces the size of transmitted data by removing redundant information before sending the shortened data stream over the WAN. RE operates on significantly larger streams and maintains a much larger compression history than LZ compression.
- LZ (compression)—Another compression technology that operates on smaller data streams and keeps limited compression history compared to RE.

- Application accelerator—A collection of individual application accelerators for the following traffic types: CIFS, EPM, HTTP, MAPI, NFS, SSL, and streaming video. (Application accelerators are not available on WAAS Express devices.)

Table A-1 Predefined Traffic Policies

Classifier	WAAS Action	Destination Ports
Authentication		
Kerberos	Passthrough	88, 2053, 754, 888, 543, 464, 544, 749
SASL	Passthrough	3659
TACACS	Passthrough	49
Backup *(monitored)*		
Amanda	TFO	10080
BackupExpress	TFO	6123
CommVault	TFO	8400–8403
Connected-DataProtector	TFO	16384
IBM-TSM	LZ+TFO+DRE	1500-1502
Legato-NetWorker	TFO	7937, 7938, 7939
Legato-RepliStor	TFO	7144, 7145
Veritas-BackupExec	TFO	6101, 6102, 6106, 3527, 1125
Veritas-NetBackup	TFO	13720, 13721, 13782, 13785
CAD		
PDMWorks	LZ+TFO+DRE	30000, 40000
Call-Management		
Cisco-CallManager	Passthrough	2443, 2748
SIP-secure	Passthrough	5061
VoIP-Control	Passthrough	1300, 2428, 2000–2002, 1718–1720, 5060, 11000–11999
Conferencing		
CU-SeeMe	Passthrough	7640, 7642, 7648, 7649
ezMeeting	Passthrough	10101–10103, 26260–26261
Intel-Proshare	Passthrough	5713–5717
MS-NetMeeting	Passthrough	522, 1503, 1731
VocalTec	Passthrough	1490, 6670, 25793, 22555
Console		
SSL-Shell	Passthrough	614
Telnet	Passthrough	23, 107, 513
Telnets	Passthrough	992
Unix-Remote-Execution	Passthrough	514, 512
Content-Management *(monitored)*		

Table A-1 Predefined Traffic Policies (continued)

Classifier	WAAS Action	Destination Ports
Documentum	LZ+TFO+DRE	1489
Filenet	LZ+TFO+DRE	32768–32774
ProjectWise-FileTransfer	LZ+TFO+DRE	5800
Directory-Services *(monitored)*		
LDAP	LZ+TFO+DRE	389, 8404
LDAP-Global-Catalog	LZ+TFO+DRE	3268
LDAP-Global-Catalog-Secure	Passthrough	3269
LDAP-secure	Passthrough	636
Email-and-Messaging *(monitored)*		
HP-OpenMail	LZ+TFO+DRE	5755, 5757, 5766, 5767, 5768, 5729
Internet-Mail	LZ+TFO+DRE	25, 110, 143, 220
Internet-Mail-secure	TFO	995, 993, 465
Lotus-Notes	LZ+TFO+DRE	1352
MAPI[1]	LZ+TFO+DRE+ MAPI accelerator	UUID:a4f1db00-ca47-1067-b31f-00dd010662da
MDaemon	LZ+TFO+DRE	3000, 3001
NNTP	LZ+TFO+DRE	119
NNTP-secure	TFO	563
Novell-Groupwise	LZ+TFO+DRE	1677, 1099, 9850, 7205, 3800, 7100, 7180, 7101, 7181, 2800
PCMail-Server	LZ+TFO+DRE	158
QMTP	LZ+TFO+DRE	209
X400	LZ+TFO+DRE	102
Enterprise-Applications *(monitored)*		
SAP	LZ+TFO+DRE	3200-3219, 3221-3224, 3226-3267, 3270-3282, 3284-3305, 3307-3388, 3390-3399, 3600-3659, 3662-3699
Siebel	LZ+TFO+DRE	8448, 2320, 2321
File-System *(monitored)*		
AFS	LZ+TFO+DRE	7000–7009
Apple-AFP	LZ+TFO+DRE	548
NFS	LZ+TFO+DRE+ NFS accelerator	2049
Novell-NetWare	LZ+TFO+DRE	524
Sun-RPC	Passthrough	111
File-Transfer *(monitored)*		
BFTP	LZ+TFO+DRE	152

Table A-1 Predefined Traffic Policies (continued)

Classifier	WAAS Action	Destination Ports
FTP-Control[2]	Passthrough	21
FTP-Data[2]	LZ+TFO+DRE	src20
FTPS[2]	TFO	990
FTP-Control[2]	Passthrough	src989
Simple-FTP	LZ+TFO+DRE	115
TFTP	LZ+TFO+DRE	69
TFTPS	TFO	3713
Instant Messaging		
AOL	Passthrough	5190–5193
Apple-iChat	Passthrough	5297, 5298
IRC	Passthrough	531, 6660–6669
Jabber	Passthrough	5222, 5269
Lotus-Sametime-Connect	Passthrough	1533
MS-Chat	Passthrough	6665, 6667
MSN-Messenger	Passthrough	1863, 6891–6900
Yahoo-Messenger	Passthrough	5000, 5001, 5050, 5100
Name Services		
DNS	Passthrough	53
iSNS	Passthrough	3205
Service-Location	Passthrough	427
WINS	Passthrough	42, 137, 1512
Other *(monitored)*		
Basic-TCP-services	Passthrough	1–19
BGP	LZ+TFO+DRE	179
MS-EndPointMapper	EPM accelerator	135
MS-Message-Queuing	LZ+TFO+DRE	1801, 2101, 2103, 2105
NTP	Passthrough	123
Other-Secure	Passthrough	261, 448, 684, 695, 994, 2252, 2478, 2479, 2482, 2484, 2679, 2762, 2998, 3077, 3078, 3183, 3191, 3220, 3410, 3424, 3471, 3496, 3509, 3529, 3539, 3660, 3661, 3747, 3864, 3885, 3896, 3897, 3995, 4031, 5007, 5989, 5990, 7674, 9802, 12109
SOAP	LZ+TFO+DRE	7627
Symantec-AntiVirus	LZ+TFO+DRE	2847, 2848, 2967, 2968, 38037, 38292
P2P *(monitored)*		
BitTorrent	Passthrough	6881–6889, 6969

Table A-1 Predefined Traffic Policies (continued)

Classifier	WAAS Action	Destination Ports
eDonkey	Passthrough	4661, 4662
Gnutella	Passthrough	6346–6349, 6355, 5634
Grouper	Passthrough	8038
HotLine	Passthrough	5500–5503
Kazaa	Passthrough	1214
Laplink-ShareDirect	Passthrough	2705
Napster	Passthrough	8875, 7777, 6700, 6666, 6677, 6688
Qnext	Passthrough	44, 5555
SoulSeek	Passthrough	2234, 5534
WASTE	Passthrough	1337
WinMX	Passthrough	6699
Printing *(monitored)*		
AppSocket	LZ+TFO+DRE	9100
IPP	LZ+TFO+DRE	631
SUN-Xprint	LZ+TFO+DRE	8100
Unix-Printing	LZ+TFO+DRE	515, 170
Remote-Desktop *(monitored)*		
Altiris-CarbonCopy	Passthrough	1680
Apple-NetAssistant	Passthrough	3283
Citrix-ICA	LZ+TFO+DRE	1494, 2598
ControlIT	TFO	799
Danware-NetOp	TFO	6502
Laplink-Host	TFO	1547
Laplink-PCSync	TFO	8444
Laplink-PCSync-secure	TFO	8443
MS-Terminal-Services	TFO	3389
Netopia-Timbuktu	TFO	407, 1417–1420
PCAnywhere	TFO	73, 5631, 5632, 65301
RAdmin	TFO	4899
Remote-Anything	TFO	3999, 4000
Vmware-VMConsole	TFO	902
VNC	TFO	5801–5809, 6900–6909
XWindows	TFO	6000–6063
Replication *(monitored)*		
Double-Take	LZ+TFO+DRE	1100, 1105
EMC-Celerra-Replicator	LZ+TFO+DRE	8888

Table A-1 Predefined Traffic Policies (continued)

Classifier	WAAS Action	Destination Ports
MS-AD-Replication[1]	LZ+TFO+DRE+ EPM accelerator	UUID:e3514235-4b06-11d1-ab04-00c04fc2 dcd2
MS-Content-Replication-Service	TFO	560, 507
MS-FRS[1]	LZ+TFO+DRE+ EPM accelerator	UUID:f5cc59b4-4264-101a-8c59-08002b2f 8426
Netapp-SnapMirror	LZ+TFO+DRE	10565-10569
Remote-Replication-Agent	TFO	5678
Rsync	TFO	873
SQL *(monitored)*		
Borland-Interbase	LZ+TFO+DRE	3050
IBM-DB2	LZ+TFO+DRE	523
InterSystems-Cache	LZ+TFO+DRE	1972
MS-SQL	LZ+TFO+DRE	1433
MS-SQL-RPC[1]	LZ+TFO+DRE+ EPM accelerator	UUID:3f99b900-4d87-101b-99b7-aa000400 7f07
MySQL	LZ+TFO+DRE	3306
Oracle	LZ+TFO+DRE	66, 1525, 1521
Pervasive-SQL	LZ+TFO+DRE	1583
PostgreSQL	LZ+TFO+DRE	5432
Scalable-SQL	LZ+TFO+DRE	3352
SQL-Service	LZ+TFO+DRE	156
Sybase-SQL	LZ+TFO+DRE	1498, 2638, 2439, 3968
UniSQL	LZ+TFO+DRE	1978, 1979
SSL *(monitored)*		
HTTPS	TFO	443
SSH		
SSH	TFO	22
Storage *(monitored)*		
EMC-SRDFA-IP	LZ+TFO+DRE	1748
FCIP	LZ+TFO+DRE	3225
iFCP	LZ+TFO+DRE	3420
iSCSI	LZ+TFO+DRE	3260
Streaming *(monitored)*		
Liquid-Audio	LZ+TFO+DRE	18888
MS-NetShow	LZ+TFO+DRE	1755
RTSP	LZ+TFO+DRE+ Video accelerator	554, 8554

Table A-1 Predefined Traffic Policies (continued)

Classifier	WAAS Action	Destination Ports
VDOLive	LZ+TFO+DRE	7000
Systems-Management *(monitored)*		
BMC-Patrol	Passthrough	6161, 6162, 8160, 8161, 6767, 6768, 10128
HP-OpenView	Passthrough	7426–7431, 7501, 7510
HP-Radia	LZ+TFO+DRE	3460, 3461, 3464, 3466
IBM-NetView	Passthrough	729–731
IBM-Tivoli	LZ+TFO+DRE	94, 627, 1965, 1580, 1581
LANDesk	LZ+TFO+DRE	9535, 9593–9595
NetIQ	Passthrough	2220, 2735, 10113–10116
Netopia-netOctopus	Passthrough	1917, 1921
Novell-ZenWorks	LZ+TFO+DRE	1761–1763, 517, 2544, 8039, 2037
WAAS-FlowMonitor	TFO	7878
WBEM	Passthrough	5987, 5988
Version Management *(monitored)*		
Clearcase	LZ+TFO+DRE	371
CVS	LZ+TFO+DRE	2401
VPN		
L2TP	TFO	1701
OpenVPN	TFO	1194
PPTP	TFO	1723
WAFS *(monitored)*		
CIFS	LZ+TFO+DRE+ CIFS accelerator or WAFS legacy acceleration	139, 445
Web *(monitored)*		
HTTP	LZ+TFO+DRE+ HTTP accelerator	80, 8080, 8000, 8001, 3128

1. These classifiers use the EPM service in WAAS to accelerate traffic. EPM-based applications do not have predefined ports so the application's UUID must be used to identify the traffic.
2. These classifiers identify the source port instead of the destination port.