



# APPENDIX **A**

## Default Application Policies

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The WAAS software includes more than 150 default application policies that help your WAAS system classify and optimize some of the most common traffic on your network.

[Table A-1](#) lists the default applications and classifiers that WAAS will either optimize or pass through based on the policies that are provided with the system.

Before you create a new application policy, we recommend that you review the default 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 only display statistics for 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.”](#)

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.
- DRE (data 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. DRE 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 DRE.

Table A-1 Default Traffic Policies

Classifier	WAAS Action Application Accelerator Mode	WAAS Action Replication Accelerator Mode	Destination Ports
<b>Authentication</b>			
Kerberos	Passthrough	Passthrough	88, 2053, 754, 888, 543, 464, 544, 749
SASL	Passthrough	Passthrough	3659
TACACS	Passthrough	Passthrough	49
<b>Backup</b>	<i>Monitored</i>	<i>Monitored</i>	
CommVault	TFO	Passthrough	8400–8403
Connected-DataProtector	TFO	Passthrough	16384
IBM-TSM	LZ+TFO+DRE	Passthrough	1500-1502
Legato-NetWorker	TFO	Passthrough	7937, 7938, 7939
Legato-RepliStor	TFO	Passthrough	7144, 7145
Veritas-BackupExec	TFO	Passthrough	6101, 6102, 6106, 3527, 1125
Veritas-NetBackup	TFO	Passthrough	13720, 13721, 13782, 13785
<b>CAD</b>		<i>Monitored</i>	
PDMWorks	LZ+TFO+DRE	Passthrough	30000, 40000
<b>Call-Management</b>			
Cisco-CallManager	Passthrough	Passthrough	2748
SIP-secure	Passthrough	Passthrough	5061
VoIP-Control	Passthrough	Passthrough	1300, 2428, 2000–2002, 1718–1720, 5060, 11720, 11000–11999
<b>Conferencing</b>		<i>Monitored</i>	
CU-SeeMe	Passthrough	Passthrough	7640, 7642, 7648, 7649
ezMeeting	Passthrough	Passthrough	10101–10103, 26260–26261
Intel-Proshare	Passthrough	Passthrough	5713–5717
MS-NetMeeting	Passthrough	Passthrough	522, 1503, 1720, 1731
VocalTec	Passthrough	Passthrough	1490, 6670, 25793, 22555
<b>Console</b>		<i>Monitored</i>	
SSL-Shell	Passthrough	Passthrough	614
Telnet	Passthrough	Passthrough	23, 107, 513
Telnets	Passthrough	Passthrough	992
Unix-Remote-Execution	Passthrough	Passthrough	514, 512
<b>Content-Management</b>	<i>Monitored</i>		
Documentum	LZ+TFO+DRE	Passthrough	1489
Filenet	LZ+TFO+DRE	Passthrough	32768–32774

Table A-1 Default Traffic Policies (continued)

Classifier	WAAS Action Application Accelerator Mode	WAAS Action Replication Accelerator Mode	Destination Ports
ProjectWise-FileTransfer	LZ+TFO+DRE	Passthrough	5800
<b>Directory-Services</b>	<i>Monitored</i>		
LDAP	LZ+TFO+DRE	Passthrough	389, 8404
LDAP-Global-Catalog	LZ+TFO+DRE	Passthrough	3268
LDAP-Global-Catalog-Secure	Passthrough	Passthrough	3269
LDAP-secure	Passthrough	Passthrough	636
<b>Email-and-Messaging</b>	<i>Monitored</i>		
HP-OpenMail	LZ+TFO+DRE	Passthrough	5755, 5757, 5766, 5767, 5768, 5729
Internet-Mail	LZ+TFO+DRE	Passthrough	25, 110, 143, 220
Internet-Mail-secure	TFO	Passthrough	995, 993, 465
Lotus-Notes	LZ+TFO+DRE	Passthrough	1352
MAPI <sup>1</sup>	LZ+TFO+DRE	Passthrough	UUID:a4f1db00-ca47-1067-b31f-00dd010662da
MDaemon	LZ+TFO+DRE	Passthrough	3000, 3001
NNTP	LZ+TFO+DRE	Passthrough	119
NNTP-secure	TFO	Passthrough	563
Novell-Groupwise	LZ+TFO+DRE	Passthrough	1677, 1099, 9850, 7205, 3800, 7100, 7180, 7101, 7181, 2800
PCMail-Server	LZ+TFO+DRE	Passthrough	158
QMTP	LZ+TFO+DRE	Passthrough	209
X400	LZ+TFO+DRE	Passthrough	102
<b>Enterprise-Applications</b>	<i>Monitored</i>	<i>Monitored</i>	
SAP	LZ+TFO+DRE	Passthrough	3200–3399, 3600–3699
Siebel	LZ+TFO+DRE	Passthrough	8448, 2320, 2321
<b>File-System</b>	<i>Monitored</i>	<i>Monitored</i>	
AFS	LZ+TFO+DRE	Passthrough	7000–7009
Apple-AFP	LZ+TFO+DRE	Passthrough	548
NFS-non-wafs	LZ+TFO+DRE	Passthrough	2049
Novell-NetWare	LZ+TFO+DRE	Passthrough	524
<b>File-Transfer</b>	<i>Monitored</i>		
BFTP	LZ+TFO+DRE	Passthrough	152
FTP-Control <sup>2</sup>	Passthrough	Passthrough	src20, 21
FTP-Data <sup>2</sup>	LZ+TFO+DRE	Passthrough	src20, 21
FTPS <sup>2</sup>	TFO	Passthrough	src990

Table A-1 Default Traffic Policies (continued)

Classifier	WAAS Action Application Accelerator Mode	WAAS Action Replication Accelerator Mode	Destination Ports
FTP-Control <sup>2</sup>	Passthrough	Passthrough	src989
Simple-FTP	LZ+TFO+DRE	Passthrough	115
TFTP	LZ+TFO+DRE	Passthrough	69
TFTPS	TFO	Passthrough	3713
<b>Instant Messaging</b>			
AOL	Passthrough	Passthrough	5190–5193
Apple-iChat	Passthrough	Passthrough	5297, 5298
IRC	Passthrough	Passthrough	531, 6660–6669
Jabber	Passthrough	Passthrough	5222, 5269
Lotus-Sametime-Connect	Passthrough	Passthrough	1533
MS-Chat	Passthrough	Passthrough	6665, 6667
MSN-Messenger	Passthrough	Passthrough	1863, 6891–6900
Yahoo-Messenger	Passthrough	Passthrough	5000, 5001, 5050, 5100
<b>Name Services</b>			
DNS	Passthrough	Passthrough	53
iSNS	Passthrough	Passthrough	3205
Service-Location	Passthrough	Passthrough	427
WINS	Passthrough	Passthrough	42, 137, 1512
<b>Other</b>	<i>Monitored</i>		
Basic-TCP-services	Passthrough	Passthrough	1–19
MS-EndPointMapper	EPM	Passthrough	135
MS-Message-Queuing	LZ+TFO+DRE	Passthrough	1801, 2101, 2103, 2105
NTP	Passthrough	Passthrough	123
Other-Secure	Passthrough	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, 11751, 12109
SOAP	LZ+TFO+DRE	Passthrough	7627
Symantec-AntiVirus	LZ+TFO+DRE	Passthrough	2847, 2848, 2967, 2968, 38037, 38292
Unclassified	LZ+TFO+DRE	Passthrough	Other
<b>P2P</b>	<i>Monitored</i>	<i>Monitored</i>	
BitTorrent	Passthrough	Passthrough	6881–6889, 6969

Table A-1 Default Traffic Policies (continued)

Classifier	WAAS Action Application Accelerator Mode	WAAS Action Replication Accelerator Mode	Destination Ports
eDonkey	Passthrough	Passthrough	4661, 4662
Gnutella	Passthrough	Passthrough	6346–6349, 6355, 5634
Grouper	Passthrough	Passthrough	8038
HotLine	Passthrough	Passthrough	5500–5503
Kazaa	Passthrough	Passthrough	1214
Laplink-ShareDirect	Passthrough	Passthrough	2705
Napster	Passthrough	Passthrough	8875, 8888, 7777, 6700, 6666, 6677, 6688
Qnext	Passthrough	Passthrough	44, 5555
SoulSeek	Passthrough	Passthrough	2234, 5534
WASTE	Passthrough	Passthrough	1337
WinMX	Passthrough	Passthrough	6699
<b>Printing</b>	<i>Monitored</i>		
AppSocket	LZ+TFO+DRE	Passthrough	9100
IPP	LZ+TFO+DRE	Passthrough	631
SUN-Xprint	LZ+TFO+DRE	Passthrough	8100
Unix-Printing	LZ+TFO+DRE	Passthrough	515, 170
<b>Remote-Desktop</b>	<i>Monitored</i>		
Altiris-CarbonCopy	Passthrough	Passthrough	1680
Apple-NetAssistant	Passthrough	Passthrough	3283
Citrix-ICA	LZ+TFO+DRE	Passthrough	1494
ControlIT	TFO	Passthrough	799
Danware-NetOp	TFO	Passthrough	6502
Laplink-Host	TFO	Passthrough	1547
Laplink-PCSync	TFO	Passthrough	8444
Laplink-PCSync-secure	TFO	Passthrough	8443
MS-Terminal-Services	TFO	Passthrough	3389
Netopia-Timbuktu	TFO	Passthrough	407, 1417–1420
PCAnywhere	TFO	Passthrough	73, 5631, 5632, 65301
RAdmin	TFO	Passthrough	4899
Remote-Anything	TFO	Passthrough	3999, 4000
Vmware-VMConsole	TFO	Passthrough	902
VNC	TFO	Passthrough	5800–5809, 6900–6909
XWindows	TFO	Passthrough	6000–6063
<b>Replication</b>	<i>Monitored</i>	<i>Monitored</i>	

Table A-1 Default Traffic Policies (continued)

Classifier	WAAS Action Application Accelerator Mode	WAAS Action Replication Accelerator Mode	Destination Ports
EMC-Celerra-Replicator	LZ+TFO+DRE	LZ+TFO+DRE	8888
MS-AD-Replication <sup>1</sup>	LZ+TFO+DRE	LZ+TFO+DRE	UUID:e3514235-4b06-11d1-ab04-00c04fc2dcd2
MS-Content-Replication-Service	TFO	LZ+TFO+DRE	560, 507
MS-FRS <sup>1</sup>	LZ+TFO+DRE	LZ+TFO+DRE	UUID:f5cc59b4-4264-101a-8c59-08002b2f8426
Netapp-SnapMirror	LZ+TFO+DRE	LZ+TFO+DRE	10566
Remote-Replication-Agent	TFO	LZ+TFO+DRE	5678
Rsync	TFO	LZ+TFO+DRE	873
<b>SQL</b>	<i>Monitored</i>	<i>Monitored</i>	
Borland-Interbase	LZ+TFO+DRE	Passthrough	3050
IBM-DB2	LZ+TFO+DRE	Passthrough	523
InterSystems-Cache	LZ+TFO+DRE	Passthrough	1972
MS-SQL	LZ+TFO+DRE	Passthrough	1433
MS-SQL-RPC <sup>1</sup>	LZ+TFO+DRE	Passthrough	UUID:3f99b900-4d87-101b-99b7-aa0004007f07
MySQL	LZ+TFO+DRE	Passthrough	3306
Oracle	LZ+TFO+DRE	Passthrough	66, 1525, 1521
Pervasive-SQL	LZ+TFO+DRE	Passthrough	1583
PostgreSQL	LZ+TFO+DRE	Passthrough	5432
Scalable-SQL	LZ+TFO+DRE	Passthrough	3352
SQL-Service	LZ+TFO+DRE	Passthrough	156
Sybase-SQL	LZ+TFO+DRE	Passthrough	1498, 2638, 2439, 3968
UniSQL	LZ+TFO+DRE	Passthrough	1978, 1979
<b>SSH</b>			
SSH	TFO	Passthrough	22
<b>Storage</b>	<i>Monitored</i>		
FCIP	LZ+TFO+DRE	LZ+TFO+DRE	3225
iFCP	LZ+TFO+DRE	LZ+TFO+DRE	3420
iSCSI	LZ+TFO+DRE	LZ+TFO+DRE	3260
EMC-SRDFA-IP	LZ+TFO+DRE	LZ+TFO+DRE	1748
<b>Streaming</b>	<i>Monitored</i>		
Liquid-Audio	LZ+TFO+DRE	Passthrough	18888
MS-NetShow	LZ+TFO+DRE	Passthrough	1755
RTSP	LZ+TFO+DRE	Passthrough	554, 8554

Table A-1 Default Traffic Policies (continued)

Classifier	WAAS Action Application Accelerator Mode	WAAS Action Replication Accelerator Mode	Destination Ports
VDOLive	LZ+TFO+DRE	Passthrough	7000
<b>Systems-Management</b>	<i>Monitored</i>		
BMC-Patrol	Passthrough	Passthrough	6161, 6162, 8160, 8161, 6767, 6768, 10128
HP-OpenView	Passthrough	Passthrough	7426–7431, 7501, 7510
HP-Radia	LZ+TFO+DRE	Passthrough	3460, 3461, 3464, 3466
IBM-NetView	Passthrough	Passthrough	729–731
IBM-Tivoli	LZ+TFO+DRE	Passthrough	94, 627, 1965, 1500, 1580, 1581
LANDesk	LZ+TFO+DRE	Passthrough	9535, 9593–9595
NetIQ	Passthrough	Passthrough	2220, 2735, 10113–10116
Netopia-netOctopus	Passthrough	Passthrough	1917, 1921
Novell-ZenWorks	LZ+TFO+DRE	Passthrough	1761–1763, 517, 2544, 8039, 2037, 2638
WBEM	Passthrough	Passthrough	5987, 5988
<b>Version Management</b>	<i>Monitored</i>	<i>Monitored</i>	
Clearcase	LZ+TFO+DRE	Passthrough	371
CVS	LZ+TFO+DRE	Passthrough	2401
<b>VPN</b>			
L2TP	TFO	Passthrough	1701
OpenVPN	TFO	Passthrough	1194
PPTP	TFO	Passthrough	1723
<b>WAFS</b>	<i>Monitored</i>	<i>Monitored</i>	
CIFS	LZ+TFO+DRE, WAFS acceleration	Passthrough	139, 445
WAFS	LZ+TFO+DRE	Passthrough	139, 145
<b>Web</b>	<i>Monitored</i>	<i>Monitored</i>	
HTTP	LZ+TFO+DRE	Passthrough	80, 8080, 8000, 8001, 3128
HTTPS	TFO	Passthrough	443

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.

