Index

Symbols
32-bit Windows RDP clients, accessing with Terminal Services, 714
64-bit architecture, 179-180

A
access
   clients, 84-85
      integrating, 104-105
   Internet, Outlook 2003, 312
   non-Windows clients, 1010-1012
   OWA, optimizing slow access, 989
   POP, Outlook Express (Mac), 999-1000
   securing to ActiveSync with SSL, 766-767
   Terminal Services, Remote Desktop, 715
access (users), tracking, audit logging, 656
   event auditing, 657
   viewing security logs, 658-660
access rules, SMTP, ISA (Internet Security and Acceleration) Server, 416-417
accessing
   Exchange with OWA, 85
   Terminal Services, 714-715
account provisioning, MIIS 2003, 110
ACL (access control lists), administrator role memberships, 598
action pane (EMC), 603
Action tab
   Content Filtering Agent, 245
   ISA Server, 409
active calls, Unified Messaging monitoring/troubleshooting, 827
Active Directory, 75, 78-79
   adding NIS users to, 129
   CAS (Client Access Server), 565
   design, 93-95
   design concepts, 78-81
   disaster recovery, 1148
      authoritative restores, 1149-1150
      global catalog servers, 1152
      non-authoritative restores, 1148-1149
      partial authoritative restores, 1150-1152
      SYSVOL folder restores, 1152-1153
   DNS, configuring, 95
Active Directory

- Domain controllers, 157-158
- Domain structures, 80, 94-95
- Domains, Exchange Server migrations, 541
- DSAccess, 166
- DSProxy, 168
- Exchange Security Groups, 598
- Exchange View-Only Administrators Role, 600
- Extending schemas, Exchange Server migrations, 519, 540
- Forests, 94-95
  - Combining (Windows Server 2003 migrations), 476-481
  - Exchange Server migrations, 540-541
  - Migrating, 540-541
  - Upgrading (Windows Server 2003 migrations), 465-470, 472-475
- Functionality, 169-172
- Global Catalog
  - Demoting, 163
  - Deploying domain controllers, 163-164
  - Server relationships, 159
  - Structure, 160
  - Universal group caching, 164-165
  - Verifying, 162
- Implementing from scratch, 190
- Configuring Active Directory sites and services, 197-199
- Configuring global catalog servers, 200
- Installing first domain controller for a new domain, 194-197
- Installing Windows Server 2003, 190-192
- Installing Windows Server 2003 Service Pack 1, 192-194
- Updating and patching operating systems, 194
- Importance of, 29-30
- Infrastructure components, 81-82
- Integrated replication, 138
- Integrated zones, 136
- MMS, 82
- Ntdsutil (defragmentation utility), 653-654
- Office Communications Server installations, 875-878
- Optimizing, 1169
- Passwords, changing via OWA, 978
- Planning infrastructure, 184-188
- Populating, 508-510
- Replication topology layout, 95
- Requirements, 76
- Requirements for Exchange Server 2007, 180-181
  - AD sites and services, 181
  - Domain and forest functional levels, 181-182
  - Flexible single master operations roles, 182-183
  - Global catalog servers, 181
  - Permissions, 183-184
- Schema upgrades (Windows Server 2003 migrations), 467-468
- Schemas, extending, 540
- SMTP Categorizer, 169
- Structure, 155-156
- Synchronizing information to Edge Transport servers with Edgesync, 257
- User information with UNIX, 128-129
- Unified Messaging server objects, 805

Active Directory Application Mode, 99, 258, 272
Active Directory Connectors (ADC), 541
  - Deleting Exchange Server migrations, 509
  - Installing, 541-547
Active Directory domains, 155
Active Directory forests, domain controller placement, 155-156
Active Directory functionality modes, relationship to Exchange groups, 169
  - Distribution groups, 170
  - Functional levels in Windows Server 2003 AD, 171-173
  - Group scope, 170-171
  - Mail-enabled groups, 170
  - Security groups, 169
  - Windows Group types, 169
Active Directory-integrated zones, 136
Active Directory Migration Tool, 481-489, 493-495
Active Directory namespace, Exchange Server 2007, 185
Active Directory Restore mode password (Windows Server 2003), backups, 1106
Active Directory sites
Active Directory requirements for Exchange Server 2007, 181
configuring, 197-199
planning Active Directory infrastructure, 186
universal group caching, 164-165
Active Directory structure, 154-155
Active Directory trees, domain controller placement, 155
Active Remote Delivery Queue Length performance counter, 700-701
Active/Active clustering, 1046
Active/Passive clustering, 1046
ActiveSync, 105, 762-763
CAS, 567-570
Remote Wipe function, 570
configuring per-user settings, 765-766
enabling, 763
policies, 783
mailbox policies, 783-784
securing access with SSL, 766-767
forcing SSL encryption for ActiveSync traffic, 774
installing root certificates on Windows Mobile devices, 774, 776-777
installing third-party CA on CAS, 767-770
internal CA for OWA certificates, 770-774
securing with ISA Server 2006, 778-783
settings (EMC), 763-764
wiping and resetting devices, 785-786
ActiveSync Connectivity rules (Management Pack), 699
ActiveSync External Service Availibility reports (Management Pack), Service Availibility Summary reports, 708
ActiveSync External Service Availability Summary reports, 708
ActiveSync Internal Service Availability Summary reports, 708
ActiveSync rules (Client Access rules), 698
AD. See Active Directory
AD-integrated replication, zone transfers, 138
ADAM (Active Directory Application Mode), 99, 258, 272
ADC (Active Directory Connectors)
deleting, 509
Exchange Server migrations, 541
CA, 543, 545-547
installing, 542
installing, 541-547
ADClean, 510
add-ins, Outlook (effects on Cached Exchange mode), 934
Add/Remove cmdlets (Unified Messaging shell commands), 840-841
adding
attachments to email, 958
deleting, 961
forwarding, 960-961
reading, 959-960
replying, 960-961
blocked recipients with Exchange Management Shell, 233
blocked senders with Exchange Management Shell, 231
Certificate Services to servers, 380-382
folders to Outlook, 953
NIS users to Active Directory, 129
SRSs, 550-551
templates to certificate servers, 384
users to Office Communications Server, 889
Address and Phone tab (EMC mail contact properties), 625
address books
Entourage, 1005
OAB (Offline Address Book), generation checks (weekly database maintenance), 676
OAB (Outlook Address Book), Cached Exchange mode (Outlook), 934
Outlook, effects on Cached Exchange mode (Outlook), 935
Outlook Express, 998
backing up contacts, 1001
migrating, 1001
OWA, 943, 964-965
creating contacts, 986
deleting contacts, 987
editing contacts, 986

How can we make this index more useful? Email us at indexes@samspublishing.com
address rewriting

address rewriting, 254, 428
configuring, 255-257
address rewriting policies, 447
address spoofing, assessing risks, 330
addresses
contact addresses, mapping from OWA, 986
Exchange 5.5, limitations of, 534
OAB, 676
OAL, 676
personal address books, migrating, 1001
addressing email, 956
administering Exchange Server 2007, 32
administration
backup, 652
esutil utility, 655
knowledge, 735
LDAP, 120-122
maintenance, 679
MOM, 680
ntdsutil utility, 653
Office Communications Server, 889
Queue Viewer, 652
administration and maintenance documents, 750-752
administration manual, 750-751
Administration Tools Pack, 729
administrative functions, EMS, 274
administrative groups, Exchange Server
migrations, 503
administrative installation points, Outlook deployments, 1024-1025
administrative policies, 342-343
e-mail disclaimers, 344-346
securing groups, 343-344
standardizing server builds, 346
administrative privileges, delegating in Office
Communications Server, 878-880
administrative roles, 330-331
administrative server tasks, EMS, 284-286
Administrative templates (Outlook), 1031, 1033
administrative tools
EMC. See EMC
EMS, 604
cmd.exe command, 606
command-line interface, 605
e-mail contacts, creating, 624
EMC, versus, 610
interface customization, 606
journaling, creating rules, 637
mailboxes, creating, 613
object-oriented data handling, 606
piping data between commands, 605
scripting, 606
Tip of the Day feature, 607
trusted scripts, 606
XML support, 606
MOM, 680
Office Communications Server, 888-891
Remote Desktop for Administration, 607
Administrator Console (MOM), 688
computer attributes, 689
computer groups, 689-690
notification groups, 692
rules, 690
scripts, 691
administrator permissions, Edge Transport servers, 370-371
administrator roles
Exchange Server installations, 600
memberships, ACL, 598
administrator tools
EMC, 649
disaster recovery tools, 651-652
ExBPA, 651, 677
mail flow tools, 652
performance tools, 652
Queue Viewer, 652
EMS, 650
ADMT (Active Directory Migration Tool), consolidat-
ing/migrating domains (Windows Server migra-
tions), 481-489, 493-495
adprep utility, AD schema upgrades (Windows Server
2003 migrations), 467-468
AD RMS Prelicensing agent (Hub Transport servers), 587-588
Advanced mode (Ntbackup.exe), 1100-1102
agents
account provisioning, 110
event triggering, 1208
MAs, role of, 111-112
attachment filtering processing, 249-250
planning, 250-251
attachments
  blocking in Outlook, 314-315
e-mail
  adding, 958
deleting, 961
forwarding, 960-961
OWA, 958-960
reading, 959-960
replying, 960-961
Outlook 2003, blocking, 314
OWA, blocking in, 988
reading pane (OWA), viewing in, 953
attributes, MIIS, 109
audio codecs, Unified Messaging, 807
audit logging, 656
  event auditing, 657
  security logs, viewing, 658-660
auditing, 656
  event auditing, 657
  viewing security logs, 658-660
logging, 658
message tracking, 664
  changing log location, 665
  enabling/disabling, 664
  sizing message logs, 666-667
policies, 334-335
security events, 333
SMTP logging
  EMC, 661
  EMS, 661-664
audits, 333-334
authentication
  Active Directory, domain controllers, 157
domain controllers, 511
Internet, Outlook 2003, 313
OWA, 322-323
Authentication Delegation tab (ISA Server), 411
authentication users, Outlook, 313
authoritative domains, configuring in Edge Transport server, 365-366
authority over DNS zones, 135
auto account setup (Outlook), 1015-1016
Auto Attendant (Unified Messaging), 798, 803-804
auto attendants, creating in Unified Messaging, 819-820
Auto Discovery rules (Client Access rules), 698
Autodiscover service, 99
  CAS, 573-575
Autodiscover service (Outlook), 1015-1016
Autoenrollment, configuring Exchange user certificates, 382-384
Automated System Recovery. See ASR (Automated System Recovery)
amatic creation of Send Connectors on Edge Transport server, 362
automatic database maintenance, 668
  scheduling, 668-669
Automatic Explicit ADAM connector, 358
Automatic Implicit ADAM connector, 358
Automatic Signature, 974
automatic updates, 90, 305-306
automating Outlook profile settings, Outlook deployments, 1025
Availability service, 99
  CAS, 572
avoiding virtual memory fragmentation issues, 86
B
background sections
  Design documents, 54
  Migration document, 58
backing up
  MSDSS, 119-120
  personal address books, 1001
backplanes, redundancy (SAN/NAS fault tolerance), 1201
backup and recovery development, 754
Backup Domain Controllers (BDCs), 156
backup utility (ntbackup.exe), 652
backups
  ASR, 1102-1104
  boot volumes, 1105
  CAS, 1095
  CCR, 1099
Certificate Services, 1108-1109
clusters, 1072
custom settings/configuration data, 1097
data, 1208
data restoration, 1117
Directory servers, 1097
disk configuration, 1108
documentation, 754
  disaster recovery, 1122
  firewall configuration, 1086
  hardware inventories, 1085
  network configuration, 1086
  policies/procedures, 1084
  router configuration, 1086
  server builds, 1085
  server configuration, 1085
  switch configuration, 1086
  updates, 1086
  WAN connections, 1086
Edge Transport servers, 1095
escalation paths, 1088
Exchange Server migrations, 518
failure notifications, 1088
full server recovery process (disaster recovery), 1119-1120
Hub Transport servers, 1094-1095
IIS, 1110-1111
importance of, 1081
information store, validating, 678
LCR, 1098
logging/tracking, 1087
mailbox servers, 1092-1094
managing, 652
media, 1111-1112
MSDSS, 119-120
Ntbackup.exe (Windows backup utility), 1100-1102
roles/responsibilities, 1087-1088
separation of duties, 1087
SLA (Service Level Agreements), 1082-1084
software, RAID sets, 1108

strategy development
  assigning tasks/designating team members, 1090-1091
database corruption, 1090
determining importance of, 1088
network device selection, 1091
restoring messages/folders/mailboxes, 1090
system failures, 1089-1090
testing strategies, 1092
validating strategies, 1092
system volumes, 1105
Unified Messaging servers, 1096
validating, 1087
  full server recovery process (disaster recovery), 1120
verifying daily database maintenance, 673-674
Windows Server 2003
  Active Directory Restore mode password, 1106
  System State, 1105
  VSS, 1106-1107
Windows Server migrations, single member server migrations, 463

balancing loads, 149
bandwidth, Outlook deployment considerations, 1020
baselining records, 736
basic mode, OWA user mode, 947
BCC (blind carbon copy), 956. See also email
BCC fields (email), removing users from OWA, 957
BDCs (Backup Domain Controllers), 156
beaconing, Web, 316-317, 914
benefits of documentation, 734-736
Best Practice Analyzer rules (Common Components rules), 693-694
best practices
  database maintenance, 667, 670-671
  automatic maintenance, 668-669
daily maintenance, 673-674
  mailbox moves, 672
monthly maintenance, 677-678
  offline maintenance, 669-671

How can we make this index more useful? Email us at indexes@samspublishing.com
1218  best practices

quarterly maintenance, 678
scheduling, 673-677
weekly maintenance, 675-676
ExBPA, 639-640, 651, 677
Outlook deployments, 1021
between sites, failing over (disaster recovery), 1125
Big Bang strategy (Windows Server migration), 461-462
blacklists, antispam measures, 349. See also spam
blind carbon copy (BCC), 956. See also email
block lists, 319
OWA, 324
blocked recipients, adding with Exchange Management Shell, 233
blocked senders
  adding with Exchange Management Shell, 231
  filtering, 319-320
Blocked Senders List (Outlook), 913
blocking
  attachments, Outlook, 314-315
  read receipts, 320
  spam, Entourage, 1004
boot failures (disaster recovery), 1128-1129
boot loader files, complete server failures, restoring (disaster recovery), 1135
boot volume failures (disaster recovery), 1127
boot volumes, backups, 1105
Bridging tab (ISA Server), 411
budgets
  Migration document, 60
  summarizing in Statement of Work (Initiation phase), 48
  upgrades, 48
built-in Transport agents, outlining, 440
busy/free time, Outlook collaboration
  configuring for Internet display, 923, 925
  viewing via Internet, 925-926

C
CA (certificate authority), 374
  Certificate Services backups, 1108-1109
  enterprise root CA, 374, 771
  enterprise subordinate CA, 375, 771
  internal CA for OWA certificates, 770-774
  PKI, 374-375
  stand-alone root CA, 375, 771
  stand-alone subordinate CA, 375, 771
Cached Exchange mode (Outlook), 930-935
caches, universal group caching, 164-165
caching GC, Active Directory, 82
CAL, Enterprise CAL versus Standard CAL, 12
Calendar, OWA, 979, 981-982
calendars
  customizing, 977
  effects on Cached Exchange mode (Outlook), 934
  OWA. See OWA
  shared calendars, 920-921
call answering, Unified Messaging, 795
CALs (client access licenses), 713
canonical name (CNAME), 141
canonical name (CNAME) record, 141
capacity analysis, 1161
  baselines, establishing, 1161-1162
  ExBPA, 1162-1163
  LoadSim tool, 1163
disk subsystems, 1175-1176
memory subsystems, 1172-1173
network subsystems, 1176
planning for growth, 1164
processor usage, 1175
virtual memory, 1174
carbon copy (CC), 956. See also email
CAS (connection agreements), configuring, 543-547, 550
CAS (Client Access Server), 83
  ActiveSync, 567-570
  Remote Wipe function, 570
Active Directory, 565
Autodiscover service, 573-575
Availability service, 572
backups, 1095
client types, 565
IMAP, 575
installing, 576
third-party CA, 767-770
MAPI, 564
NLB configurations, 1074-1075
optimizing, 1167
Outlook Anywhere, 571-572
OWA, 566, 570
POP 575
sizing, 1182
Categorizer, 169
Hub Transport servers, 578
submission queues, 590
categorizing
appointments via color (Outlook), 904
e-mail, OWA, 970
CC (carbon copy), 956. See also email
CC fields (email), removing users from (OWA), 957
CCA (Configuration Connection Agreements), Exchange Server 5.5 migrations, 550
CCR (Cluster Continuous Replication), 28, 88, 96, 1099
heartbeats, 1056
mailbox clusters, 1048-1055
SCC versus, 1067
transport dump feature (Hub Transport servers), 1056
CD (connected directory), 109
centralized IT environments, 51
certificate authority. See CA
Certificate Practice Statement (CPS), 375
certificate servers, adding templates to, 384
Certificate Services
backups, 1108-1109
installing, 380-382
Windows Server 2003, 374-375
certificate templates, 377-378
certificate-based encrypted messaging, 373
certificates, 377
acquiring, 378
Exchange user certificates, configuring with Autoenrollment, 382-384
Office Communications Server, configuring for, 885-887
client, 731
client access licenses (CALs), 713
client access points, identifying, 84-85
Client Access rules (Management Pack), 698-699
Client Access server roles, 27-28, 98-99, 649
installing, 215
client access server. See CAS (Client Access Server)
certification, 377
certificate templates, 377
certificates, 377
certificates, acquiring, 378
certificates, Exchange user certificates, configuring with Autoenrollment, 382-384
certificates, Office Communications Server, configuring for, 885-887
Outlook, acknowledging, 389
validating that they are working properly, autoenrollment, 385-387
Windows certificate of authority, installing, 380
change control, security documentation, 756-757. See also documentation
changes in Exchange Server 2007, 74-75
charts, Gantt Chart, 55-56
Checkpoint-Meta IP, 134
circuits, 810
CIW (Custom Installation Wizard), creating transforms (Outlook deployments), 1026-1027
classifying messages, Hub Transport servers, 586-587
client access licenses (CALs), 713
client access points, identifying, 84-85
Client Access rules (Management Pack), 698-699
Client Access server roles, 27-28, 98-99, 649
installing, 215
client access server. See CAS (Client Access Server)
certification, 377
certificate templates, 377
certificates, 377
32-bit RDP clients, accessing with Terminal Services, 714
access, 84-85
integrating, 104-105
MAPI compression, 84
OWA, 85
SMTP 85
DNS
need for, 133
SMTP 144
troubleshooting, 150
integrating client access into Exchange Server 2007, 104-105
Macintosh
Entourage X, 1004-1007
Terminal Services Client, 1007-1010
non-Windows access methods, 1010-1012

How can we make this index more useful? Email us at indexes@samspublishing.com
Outlook Express, Macintosh, configuring, 999-1001
OWA. See OWA
security
lockdown guidelines, 307
new features, 308-309
optimizing Windows Server 2003, 299
patches/updates, 304
templates, 301-303
web-based clients, accessing Terminal Services, 714-715
Windows-based mail, 994-997
Cluster Continuous Replication. See CCR (Cluster Continuous Replication)
cluster resources, dependencies, 1047
Cluster rules (Mailbox rules), 702
Cluster Service, disaster recovery, 1147
clustering, 88-89
Active/Active, 1046
Active/Passive, 1046
backups, 1072
CCR
heartbeats, 1056
mailbox clusters, 1048-1055, 1057
SCC versus, 1067
transport dump feature (Hub Transport servers), 1056
cluster resources, 1047
dependencies, 1047
designing for, 97
Exchange virtual server, 1046
Exres.dll (Resource DLL), 1046
failbacks, 1047
failovers, 1046
heartbeats, 1046
CCR, 1056
mailbox clusters, CCR, 1048-1055, 1057
majority node clusters, 1047
managing
via command line, 1068-1069
via GUI, 1069, 1072
NLB (Network Load Balancing), 1073-1075
Quorum resources, 1047
quorum-device clusters, 1047
resource groups, 1047
SAN/NAS fault tolerance, 1201
SCC, 1057
adding second nodes, 1061
advantages of, 1066-1067
CCR versus, 1067
configuring shared storage, 1059
creating, 1059, 1061
DTC, creating, 1062
installing Exchange Server on active node, 1062, 1065-1066
operating system preparation, 1058-1059
requirements for, 1057
storage configurations, 1066
clusters
CCR, 1099
mailbox clusters, optimizing, 1166
cmd.exe command, EMS, 606
cmdlets, EMS, 273-274
combining functions to create a library, 280-281
creating your own, 279-280
distributing, 282
managing, 281
 modifying, 281
naming, 282
syntax, 276
CNAME (canonical name), 141
code signing, certificate templates, 378
codecs, audio codecs (Unified Messaging), 807
coexistence, 77
collaboration
MOSS, enabling via, 851
Outlook. See Outlook, collaboration
SharePoint, 851
upgrading, 52
collaboration sessions, Design document, 52
color
categorizing appointments by (Outlook), 904
email text, customizing in OWA, 964
OWA, 977
color OWA (Outlook Web Access) color schemes, customizing, 977
command-line interfaces, EMS, 605
command-line options, Remote Desktop client, 718-719
commands, piping data between (EMS), 605
Common Components rules (Management Pack)
  All Server Roles rules, 693
  Best Practice Analyzer rules, 693-694
  Directory Service Access rules, 694-695
  Extensible Storage Engine rules, 695
  Hub Transport and Edge Transport rules, 696
  Server rules, 696-697
  Service Monitoring rules, 698
communication plan document, 739
Communications Server
  adding users to, 889
  administration, 889
  configuring, 883, 885
    certificates, 885-887
    server settings, 891
    user settings, 889
  deploying, 881, 883
  installing, 875
    configuring IIS, 880-881
    delegating setup/administrative privileges, 878, 880
    extending AD schema, 875-876
    prepping AD domains, 878
    prepping AD forests, 876
    installing admin tools, 888
    instant messenger filter, 891
    starting, 887
    validating functionality, 887
Communicator client, 874
  installing, 892
compact database utility (esentutl.exe), 654
compacting Exchange 5.5 organizations, 537
compatibility
  clients, 996-997
  Outlook Express, 999-1001
  Terminal Services Client, 1008-1010
complete server failures (disaster recovery), 1129
  ASR restores, 1134-1135
  boot loader file restores, 1135
  manual recovery, 1130-1131
  restoring versus rebuilding, 1130
  System State restores, 1131-1133
components
  Active Directory, 75. See also Active Directory
  Applications, selecting, 96
  design, 73
    coexistence, 77
    functionality, 73-76
    scaling, 77
    third-party functionality, 78
  DNS, 135
    multihomed DNS servers, 142-143
    need for, 133
    queries, 137-138
    replication, 138
    resource records, 138-143
    servers, 134
    zone transfers, 138
    zones, 135-137
  Entourage X, 1004
  hardware, selecting, 96
compression, MAPI, 84
computer accounts, migrating (Windows Server migrations), 493-494
computer groups, Management Pack, 689-690
configuration
  Active Directory. See Active Directory
  components, 73
    coexistence, 77
    functionality, 73-76
    scaling, 77
    third-party functionality, 78
  connection agreements, 543-547, 550
  Date & Time formats, 977
  DNS servers, 150-153
  documents, validating migration, 513

How can we make this index more useful? Email us at indexes@samspublishing.com
configuration

email, options, 962
environment documentation, 747-749
Exchange 5.5, limitations of, 535
folders, OWA, 953
items per page, 973
messages, delivery limitations, 364
MIIS, 112
optimizing, 85
  avoiding VM fragmentation, 86
  clustering, 88-89
  disk options, 86
  MOM, 89
  multiple databases, 87-88
  operating systems, 86
Out of Office Assistant, 972
Outlook Express, Macintosh, 999-1001
placement, 82
  client access points, 84-85
  environment sizing, 84
quick flags, 970
reading pane (OWA), 953
Security Configuration and Analysis tool, 301
signatures, 974
SMTP, 364
SRs, 550-551
configuration connection agreements, Exchange Server migrations, 545
configuration document, environment documentation, 748-749
Configuration Management Tools (EMC Toolbox), ExBPA, 639-640
Configure Cached Exchange mode (OCT), 919
configuring
  Active Directory sites and services, 197-199
  ActiveSync, per-user settings, 765-766
  address rewriting, 255-257
  allowed keywords or phrases list, Edge Transport servers, 242-243
  allowed keywords or phrases list to block messages, Edge Transport servers, 243-244
  attachment filtering with Exchange Management Shell, 251-252
authoritative domains, Edge Transport server, 365-366
certificates, Office Communications Server, 885-887
Content Filter Agent to allow specific recipients, senders, and sending domains, 248-249
content filtering actions, 245-246
content filtering with Exchange Management Shell, 246-247
content filtering policies, 447
DNS, Active Directory, 95
DNS to support Exchange Servers, 150
Edge Transport server DNS settings, 145
EdgeSync on Edge Transport servers, 259-260
exceptions list, Edge Transport servers, 244
Exchange Server 2007, 86-88
Exchange user certificates, with Autoenrollment, 382-384
global catalog servers, 200
Hub Transport servers, 215
IIS 6.0, 207-208
IP Allow List
  with Exchange Management Console, 225-228
  with Exchange Management Shell, 229-230
IP Block List
  with Exchange Management Console, 228
  with Exchange Management Shell, 229-230
IP Block List Providers with Exchange Management Console, 228-229
Office Communications Server, 883-885
puzzle validation, content filtering, 247
quarantine mailbox for captured messages, 241-242
Receive Connectors on Edge Transport server, 362
recipient filtering, 231-233
RMS, 442
Safelist Aggregation for Outlook 2003/2007, 261-263
Send Connectors on Edge Transport server, 362
sender filtering, 230-231
Sender Reputation with Exchange Management Shell, 254
Sender Reputation Agent with Exchange Management Console, 253-254
Sender/IP Reputation, 252-253
SenderID
Edge Transport servers, 234-236
with Exchange Management Shell, 239
SenderID Agent on Edge Transport servers, 238-239
server settings, Office Communications Server, 891
SMTP Rejection Response, 249
spam quarantine, 242
user settings, Office Communications Server, 889
Confirm, EMS syntax, 278
connected directory (CD), 109
connecting to terminal server consoles, remotely, 715-716
connection agreements (CAs), 543-547, 550
Connection Filter reports (Message Hygiene Analysis reports), 706
connection filtering, 224-225
IP Allow List
configuring with Exchange Management Console, 225-228
configuring with Exchange Management Shell, 229-230
IP Block List
configuring with Exchange Management Console, 228
configuring with Exchange Management Shell, 229-230
IP Block List Providers, configuring with Exchange Management Console, 228-229
sender filtering, 230-231
Connection Filtering Agent, 224
connections
ADC, installing, 541-547
environment documentation, 747-749
connections, non-windows client-based, 994
Linux/UNIX support
IMAP 1011
Outlook Express, 997-1001
OWA, 996, 1012
Mac support, 994
client functionality/compatibility table, 996-997
Entourage, 1004-1007
IMAP 1011
Mac OS X Mail, 1001-1003
Outlook Express, 997-1001
OWA, 996, 1012
POP3 functionality, 1011
Remote Desktop for Mac, 995-996
Terminal Server Client for Mac, 1007-1010
Virtual PC, 995-996, 1010
mobile computing support, 1011-1012
connectivity, Unified Messaging monitoring/troubleshooting, 827
connectivity verifiers
ISA Server, 424-426
connector namespace (CS), 109
connector topology, SMTP connectors, 355
connectors
ADC, installing, 541-547
deleting, 508
managing with EMS, 286
migrating, 557-559
Exchange Server 2003, 557-559
PROFS/SNADS, 538
console tree (EMC), 602-603
consolidating
domains (Windows Server 2003 migrations), 481-489, 493-495
exchange servers, NAS/SAN, 1202-1203
Contact Information tab (EMC mail contact properties), 625
contacts
address lists, Outlook Express, 998
customizing, 978
mail contacts, creating, 623-624
mail contacts, managing, 624
managing, OCS, 873
Outlook, sending information on, 926-927
Outlook Express, 1001
OWA, 986-988

How can we make this index more useful? Email us at indexes@samspublishing.com
Contacts, SharePoint list of, 856
Contacts option, OWA, 986-988
content conversion, 1207
Content Filter Agent, configuring to allow specific recipients, senders, and sending domains, 248-249
Content Filter reports (Message Hygiene Analysis reports), 706
content filtering, 239-241
allowed keywords or phrases, 242-244
configuring, 245-247
configuring policies, 447
domain-level content, 248-249
exceptions list, configuring, 244
fine-tuning, 245
quarantine mailbox for captured message, configuring, 241-242
spam quarantine, 242
STMP Rejection Response, 249
Content Filtering Agent, 240
Action tab, 245
content indexing, 1206-1207
context menus, 970
Continuous Replications rules (Mailbox rules), 702
conversion, Native Mode, 508-510
converting
content conversions, 1207
e-mail, MAPI format, 1208
cookie authentication timeouts, OWA security, 989
Copy cmdlets (Unified Messaging shell commands), 843
copying
flat-file copying, 1139
database corruption (disaster recovery), 1339
public folders
Exchange Server 2003 migrations, 529-530
weekly database maintenance, 675
Corporate email policies, establishing, 341-342
corruption
data, mailboxes, 1117-1118
databases (disaster recovery), 1138
backup strategy development, 1090
Database Recovery Management tool, 1139
MOSS integration, 862
security templates, 303-304
SharePoint, 851
sites, 865
SharePoint Server (MOSS), Web Part tool pane, 865
SharePoint Server (MOSS) sites, 865-867
SMTP filters, ISA Server, 417
customizing interfaces, EMS, 606

daily database maintenance, 673-674. See also maintenance
Dashboard (ISA Server), customizing, 421
data backups, 1208
data corruption, mailboxes, 1117-1118
data recovery, Windows Server migrations, 463
data restoration
  backup strategy development, 1090
  backups, 1117
data restores, 1208
data storage. See also NAS, SAN
  SAN/NAS, NAS network connectivity, selecting, 1194
  Unified Messaging, 825
data volume failures (disaster recovery), 1128
database corruption (disaster recovery), 1138
  Database Recovery Management tool, 1139
  ESEUTIL utility, 1142-1143
  flat-file copying, 1139
  ISINTEG utility, 1142-1143
  moving mailboxes to other onsite servers, 1141
database maintenance, 1207
  best practices, 667
    automatic maintenance, 668-669
    daily maintenance, 673-674
    mailbox moves, 672
    monthly maintenance, 677-678
    offline maintenance, 669-671
    quarterly maintenance, 678
    weekly maintenance, 675-676
  offline maintenance, quarterly database maintenance, 678
database maintenance utility (eseutil), 655-656
database recovery, Windows Server migrations, 463
databases
corruption, backup strategy development, 1090
creating EMC, 631
deletion settings (EMC), 633
design, 102
document file sizes, weekly database maintenance, 675
ESE, 535
free space analysis, monthly database maintenance, 677
Global Catalog
demoting, 163
deploying domain controllers, 163-164
server relationships, 159
structure, 160
universal group caching, 164-165
verifying, 162
integrity, 655. See also maintenance
Issue Warning At (KB) option (EMC), 632
maintenance
  best practices, 670-671
  postmaintenance procedures, 679
  scheduling best practices, 673-677
multiple, 87-88
optimizing, 1179-1180
Prohibit Post At (KB) option (EMC), 632
Prohibit Send and Receive At (KB) option (EMC), 632
sizing, 1179-1180
storage limits, 632
testing, 655
warning message intervals, 632
Date & Time Formats, configuring, 977
decommissioning versions

decommissioning versions, 66
default signatures, configuring, 974
defense in depth, 332
defragmentation utility (ntdsutil), 653-654
delegate access, effects on Cached Exchange mode (Outlook), 934
deleting
  Active Directory Connectors, Exchange Server migrations, 509
  ADC, 509
  Directory Replication Connectors, 508
    Native Mode (Exchange Server migrations), 508-509
  email, 961
  mailbox contents, disaster recovery, 1116-1117
  servers, 508
  Site Replication Services, Exchange Server migrations, 509
  SRSs, 509
deleting email, OWA, 961
deletion settings (EMC), databases, 633
delivery, limiting messages, 364
  Delivery Options tab (mail flow settings properties), 614
delivery services (Hub Transport servers), 579
demotion, Global Catalog, 163
Department of Health and Human Services (DHHS), 433
dependencies (cluster resources), 1047
deploying
  Cached Exchange mode (Outlook), 931-932
  domain controllers, using Install from Media Option, 163-164
  Exchange Server, Finalize Deployment page, 603
  Office Communications Server, 881, 883
  Outlook. See Outlook, deploying
  prototype labs, Exchange Server migrations, 510-513
  services to limited number of users (Pilot phase), 63-65
deployment, 329
  domain controllers, Media option, 163-164
  Entourage X, 1005-1007
  migration
    move mailbox upgrade method, 529, 533
    prototype labs, 510-512
    restoring prototype labs, 513
    validating documents, 513
  MIIS, Novell eDirectory, 114-115
  placement, 82-85
  Terminal Services Client, 1009-1010
deployment phase (SAN/NAS implementation), 1192
design
  Active Directory, 93-95
  components, 73
    coexistence, 77
    functionality, 73-76
    scaling, 77
    third-party functionality, 78
  DNS, Active Directory, 81
  Documents, validating migration, 513
  Exchange 5.5, limitations of, 535
  infrastructure, 102-104
  MOM, 89
  placement, 82-85
design and planning document, 737-738
design concepts for Active Directory, 78-81
Design document, 37
  Planning phase, 51-55
Design phase (Windows Server migration), 460
designing server number and placement, 96
development phase (SAN/NAS implementation), 1192-1193
DHHS (Department of Health and Human Services), 433
diagnostic tasks, 272
diagrams, topologies, 749
dial plan objects, Unified Messaging, 800-801
dial plans, Unified Messaging
  associating auto attendants with, 819-820
  associating servers with, 819
  associating subscriber access numbers to, 816
  creating in, 816
linking IP gateways to, 817-818
removing servers from, 840
digital signatures, 388
Cached Exchange mode (Outlook), effects on, 934
Outlook security, 909
S/MIME, 388-389
sending, digitally signed email, 389-390, 392
signing process, 388
directories
Active Directory. See Active Directory
integrating with MSDSS, 115-116
MIIS, 108-110
account provisioning, 110
group management, 112
installing, 112
role of MAs, 111-112
Novell eDirectory, 113-114
applying MSDSS, 115-120
deploying MIIS, 114-115
site directories, SharePoint Server (MOSS), 864
directory information, synchronizing with
MIIS 2003, 108
Directory Replication Connectors, deleting, 508-509
Directory servers, backups, 1097
Directory Service Access rules (Common Components rules), 694-695
directory synchronization, limitations on with MSDSS, 118-119
disable mappings, Remote Desktop for Administration, 722
disabling
mailboxes with EMS, 284
message tracking, 664
web beacons, OWA, 323-324
disaster recovery
Active Directory. See Active Directory
backup process documentation, 1122
boot failures, 1128-1129
Cluster Service, 1147
complete server failures, 1129
ASR (Automated System Recovery) restores, 1134-1135
boot loader file restores, 1135
manual recovery, 1130-1131
restoring versus rebuilding, 1130
System State restores, 1131-1133
data corruption, 1117-1118
database corruption, 1138
Database Recovery Management tool, 1139
ESEUTIL utility, 1142-1143
flat-file copying, 1139
ISINTEG utility, 1142-1143
moving mailboxes to other onsite servers, 1141
Database Recovery Management utility, 652
Database Troubleshooter, 651
deleted mailbox content, 1116-1117
determining extant of problem, 1115-1116
disk failures, 1127-1128
documentation, 754-755
benefits of, 734-736
domain controllers (Windows 2003), 1147
Edge Transport server, 1119
Exchange database file restores, 1136-1138
Exchange environment documentation, 1121
Exchange Server, 1118
Ntbackup.exe (Windows backup utility), 1135-1136
full server recovery process, backups, 1119-1120
Hub Transport server, 1118
IIS (Internet Information Services), 1146-1147
lost data, restoring from backup, 1117
Recovery Console, 1129
recovery process documentation, 1122
recovery storage groups, 1144-1146
server failures, 1117
site failures, 1123-1126
testing, 62, 1123
upgrading, 52
disaster recovery documentation, 752-755
disaster recovery options, Design document (Planning phase), 52-53
disaster recovery plans, 754
disaster recovery testing, Prototype phase, 62
disclaimers, 428
  email disclaimers, 445-446
  administrative policies, 344-346
  Hub Transport servers, 582-584
disconnected mailboxes, EMC, 625-626
Discovery phase (Windows Server migration), 460
discovery, planning phase of upgrades, 49-51
discussions, SharePoint, 857-858
disk configuration, backups, 1108
disk failures (disaster recovery), 1127-1128
disk mirroring, optimizing disk subsystems, 1178
disk options, configuring for performance, 86-87
disk space, free disk space, checking, 674
disk striping, optimizing disk subsystems, 1178
disk subsystems
  optimizing, 1177-1179
  performance monitoring, 1175-1176
disks, options, 86
distributed server strategies (Exchange Server migrations), 501
Distributed Transaction Coordinators, 1062
distributing
  cmdlets, 282
  group policies, with user certificates, 384-385
groups, 170
distribution groups, 170
  creating, 617-619
  delegating management of, 621
distribution list mail flow settings, 622-623
dynamic distribution groups, creating, 620-621
distribution lists, OWA contacts, creating in, 988
DNS (Domain Name Service)
  Active Directory, infrastructure components, 81
  components, 135
  multihomed DNS servers, 142-143
  queries, 137-138
  replication, 138
  resource records, 138-143
  zone transfers, 138
  zones, 135-137
  configuring, 95
  configuring to support Exchange Servers, 150
  defined, 132
  design, Active Directory, 81
  namespaces, 81
  need for, 133
  requirements for Exchange Server 2007, 144-149
  role for internal and external message routing, 30
  role in Exchange Server 2007, 131-132
  security, 147-148
  servers, 134
    configuring, 150-153
types of, 134
  SMTP and, RFC standards, 145
  SMTP mail routing, 143-144
troubleshooting, 150
dnscmd, 154
DNSLINT, 153
  Event Viewer, 151
  ipconfig utility, 151-152
  nslookup, 152-153
  Performance Monitor, 152
  using, 132-133
  who needs to use DNS, 133-134

DNS namespace, role in Exchange Server design, 185
dnscmd, troubleshooting DNS, 154
DNSLINT, 153
DNS zones, moving to application partitions, 475
Do not configure Cached Exchange mode (OCT), 919
Do Not Permanently Delete Mailboxes... option (EMC), databases, 633
document databases, file sizes, 675
document libraries, 853-855
document workspaces, MOSS, 853
documentation, 37, 733. See also project documentation
  administration and maintenance documents,
  backups, 1084-1086
  baselining records for documentation comparisons, 736
  benefits of, 734-736
disaster recovery, 754-755
disaster recovery documentation, 752-755
environment documentation. See environment documentation
environments, 747-749
performance, 755-756
placement of, 735
project documentation. See project documentation
Prototype phase, 62-63
security, 756-757
training, 757-758
end users, 758
for troubleshooting purposes, 736
upgrades, 37
migration, 55-60, 63
pilot phase, 63-65
planning phase, 49-54
prototype phase, 61-63
statement of work, 44-49
documents
backup process documentation (disaster recovery), 1122
Exchange environment documentation (disaster recovery), 1121
management, MOSS, 859-860
managing SharePoint, 860
migration, validating, 513
recovery process documentation (disaster recovery), 1122
domain controller placement, 154-158
domain controllers
Active Directory, 157-158
authentication, 157
design, 95
determining placement, 158
authentication, 511
deploying, 163-164
installing first domain controllers for a new domain, 194-197
migrating, AD forest upgrades (Windows Server 2003 migrations), 466
placement of, 95
promoting, to global catalog, 161-162
prototype lab deployments (Exchange Server migrations), 511
replacing, AD forest upgrades (Windows Server 2003 migrations), 469-470
retiring, AD forest upgrades (Windows Server 2003 migrations), 472
upgrades, AD forest upgrades (Windows Server 2003 migrations), 469
Windows 2003, disaster recovery, 1147
domain functional levels, AD forest upgrades (Windows Server 2003 migrations), 472-475
domain local groups, 170
Domain Name System. See DNS
domain structure
Active Directory, 94-95
Active Directory design concepts, 80-81
domain-level content, 248-249
domains
Active Directory, 80, 155
design, 94
Exchange Server migrations, 541
Active Directory requirements for Exchange Server 2007, 181-182
consolidating (Windows Server migrations), 481-489, 493-495
local groups, 170
migrating, 540-541
Windows Server migrations, 481-489, 493-495
role in Exchange Server design, Active Directory, 184-185
DSAccess, 166-168
DSProxy, 168
DTC (Distributed Transaction Coordinators), creating for SCC, 1062
dynamic distribution groups, creating, 620-621

E
E-mail Address Policies tab (EMC results pane), 616
EAS (Exchange ActiveSync), 85
EDB databases, Exchange Server migrations, 502
Edge Rule Agents, 447

How can we make this index more useful? Email us at indexes@samspublishing.com
1230 Edge server role

**Edge server role, establishing perimeter security**, 215
**Edge Transport role**, 99-100
**Edge Transport rules (Management Pack)**, 700
**Edge Transport server**, 83
  - configuring DNS settings, 145
  - disaster recovery, 1119
**Edge Transport server connectors**, 361
  - authoritative domains, configuring, 365-366
  - message delivery limits, 364-365
**Receive Connectors**, configuring, 362
**Send Connectors**, 362-363
**Edge Transport server roles**, 18, 26, 648
  - securing Windows, 366-367
  - administrator permissions, 370-371
  - creating new security policies, 368-370
  - implementing network security, 367
  - SCW template, 367-368
**Transport agents**, 446-448
**Edge Transport server settings, exporting and importing**, 263-266
**Edge Transport servers**
  - allow keyword or phrases list, configuring, 242-244
  - backups, 1095
**EdgeSync**, configuring on Edge Transport servers, 259-260
**Sender Policy Framework record**, creating, 236-238
**SenderID**, 233-236
**SenderID Agent**, configuring, 238-239
**sizing**, 1183
**SLA (Service Level Agreements)**, 1083
**using EdgeSync to synchronize Active Directory info to Edge Transport servers**, 257
**viewing antispam reports, with PowerShell scripts**, 266-267
**Edge Transport Services, installing**, 219-221
**EdgeSync**
  - configuring on Edge Transport servers, 259-260
  - creating new subscription files, 260
  - maintaining schedule of replication, 258
  - starting synchronization, 261
  - subscribing to Exchange Server 2007 organization, 258
  - subscriptions, removing, 261
  - synchronizing Active Directory information to Edge Transport servers, 257
**EdgeSync service**, 446
**eDirectory, synchronizing with Active Directory using services for NetWare**, 116-118
**editing**
  - email, Spell Check feature, 968
  - SharePoint lists, 863
  - Spell Check, customizing, 976
**EFS (Encrypting File System)**, 377
**email**
  - addressing, 956
  - attachments, 958-960
  - categorizing, OWA, 970
  - contexts
    - creating, 623-624
    - managing, EMC, 624
  - context menus, OWA, 970
  - deleting, 961
  - distribution list mail flow settings, 622-623
  - encrypting, transport-level security, 352-353
  - Entourage, 1004
  - establishing corporate email policy, 341-342
  - folders
    - adding, 953
    - moving messages to, 964
  - forwarding, 960-961
  - implementing secured email communications, 382
  - junk mail, filtering, 318-319
  - OWA, 976
  - Mac OS X Mail, 1001-1003
mail flow tools, 652
mail notification pop-up (OWA), 949
mailboxes, migrating, 552, 554-556
MAPI conversions, 1208
Message Tracking tool, 641
name resolution, OWA, 978
options, configuring, 962
outbound routing, 150
Outlook
  multiple account management, 906
  sending and receiving digitally signed and encrypted emails, 387-388
Outlook 2003, 312-314
Outlook Email Postmark, 320
Outlook Express, 997
Outlook security
  Blocked Senders List, 913
  encryption, 909
  International List, 913
  junk email filters, 911-914
  Safe Recipients List, 913
  Safe Senders List, 913
  security labels, 911
  targeting specific messages, 909
  web beaconing, 914
OWA. See OWA
passwords, modifying, 978
privacy, 976
Queue Viewer, 642
read receipts, blocking, 320
reading, 959
  marking read/unread, 965
replying, 960-961
restoring, backup strategy development, 1090
routing, 143
searching, 971
security, 147-148
sending, 958
  Edge Transport server failures, 1119
  Hub Transport server failures, 1118
  sending “on behalf of” other users (Outlook collaboration), 922-923
sending digitally signed email, 389-390, 392
sending encrypted email messages, 392-393
signatures, setting default signatures in OWA, 974-975
spam
  filtering junk mail, 318-319
  tools, 315
  Web beaconing, 316-317
spell checking, OWA, 968-969, 976
text
  modifying, 964
  Spell Check feature, 968
tracking, 963
unified messaging, 614
Unified Messaging Server Role, 649
email addresses, managing, 616
email disclaimers, 445-446
  administrative policies, 344-346
Email Postmark validation, 247
Email Postmarks, 373
EMC (Exchange Management Console), 15-16, 601, 649-650
  action pane, 603
  Anti-Spam tab, 223
  components of, 601
  console tree, 602-603
  databases, 632-633
  databases, creating, 631
  disaster recovery tools, 651-652
  disconnected mailboxes, 625-626
  distribution groups
    creating, 617-619
    delegating management of, 621
    distribution list mail flow settings, 622-623
    dynamic distribution groups, 620-621
  email addresses, managing, 616
  email contacts, 623-624
  EMS (Exchange Management Shell) versus, 610
  ExBPA (Exchange Best Practices Analyzer), 651, 677
  Finalize Deployment page, 603
improvements to, 601
IP Allow List, configuring, 225-228
IP Block List, configuring, 228
IP Block List Providers, configuring, 228-229
journaling, rules, 636-637
mail contact properties, 624-625
mail flow settings properties, 614
mail flow tools, 652
mailbox features properties, 614
mailbox settings properties, 613
mailboxes, creating, 610-612
moving mailboxes, 626-629
New Database Wizard, 631
New Distribution Group Wizard, 619
New Dynamic Distribution Group Wizard, 620-621
New Mail Contact Wizard, 623-624
New Mailbox Wizard, 611-612
New Storage Group Wizard, 630
Outlook Anywhere, enabling, 311-312
performance tools, 652
Receive Connectors tab, 223
results pane, 603
E-mail Address Policies tab, 616
filtering data, 604
security, 598
Send Connectors tab, 223
Sender Reputation Agent, configuring, 253-254
settings for ActiveSync, 763-764
storage groups, creating, 629-630
Toolbox, 602, 638
Database Recovery tools, 640
disaster recovery tools, 651-652
ExBPA (Exchange Best Practices Analyzer), 639-640, 651, 677
Mail Flow tools, 640-642, 652
Performance tools, 642-643, 652
Queue Viewer, 652
Transport Rules tab, 224
EMS (Exchange Management Shell), 23-25, 178, 273, 604, 650
adding
blocked recipients, 233
blocked senders, 231
administrative functions, 274
administrative server tasks, 284-286
attachment filtering, 251-252
cmd.exe command, 606
cmdlets, 273-274
combining functions to create a library, 280-281
creating your own, 279-280
distributing, 282
managing, 281
modifying, 281
naming, 282
command-line interface, 605
content filtering, 246-247
e-mail contacts, creating, 624
EMC versus, 610
enabling logging, 282
help, 277
installing, 207
Exchange Server migrations, 521
interface customization, 606
IP Allow List Providers, 229-230
IP Block List Providers, 229-230
journaling, rules, 637
mailboxes, 282-284
creating, 613
object-oriented data handling, 606
Outlook Anywhere, enabling, 312
piping data between commands, 605
versus PowerShell, 275-276
reporting, 275, 287
event logs, 292
generating largest mail user reports, 287-288
generating user distribution reports, 288-289
rebalancing mailbox distribution, 289-292
resources on the Web, 292
scripting, 606
security, 598
Sender Reputation, 254
SenderID, configuring, 239
syntax
cmdlets, 276
pipelining, 277-278
verb-noun constructs, 276
WhatIf and Confirm parameters, 278
Tip of the Day feature, 607
XML support, 606
Enable/Disable cmdlets (Unified Messaging shell commands), 842
encrypted email messages, sending, 392-393
electronic communications, between Outlook and Exchange, 313
electronic communications, transport-level security, 352-353
Encrypting File System (EFS), certificate templates, 377
encryption
asymmetrical encryption, 376
basic encrypted communications, using Outlook, 378-380
fundamentals of, 388-389
HTTP, 400
Internet, Outlook 2003, 313
Outlook security, 909
S/MIME, 388-389
symmetrical encryption, 376
encryption layer, Remote Desktop for Administration, 722
encryption level, Remote Desktop for Administration, 721
end users, training documentation, 758
end-user training documentation, 758
enterprise root CA, 771
Enterprise policies, Exchange Server 2003 migrations, 529
Enterprise Policy Management, 428
enterprise root CA, 374
Enterprise Server 2003, 76
enterprise subordinate CA, 375, 771
Entourage, 1004-106
Entourage X, Macintosh, 1004
deploying, 1005-1007
functionality, 1004
environment documentation, 747
configuration document, 748-749
network diagrams, 747
server build procedures, 747-748
server builds, 747
topology diagrams, 749
environments
auditing, 658
documentation, 747-749
sizing, 84
equipment, upgrade prototype phase, 61
error codes, Kerberos failure codes, 659
escalation paths, backups, 1088
ESE (Extensible Storage Environment), 535
ESE Log Generation Checkpoint Depth performance counter, Hub Transport rules, 701
esentutl.exe (compact database utility), 654
eseutil (database maintenance utility), 655-656
ESEUTIL utility, database corruption (disaster recovery), 1142-1143
ESM (Exchange System Manager), 723
SMTP 364
event auditing, 657
event codes, security, 658
event logs
EMS, 292
reviewing, 212
Unified Messaging monitoring/troubleshooting, 839-840
event monitoring, Management Pack, 684
Event rules (Management Pack), 706
event triggering, agents, 1208
Event Viewer
DNS, troubleshooting, 151
logs, checking, 674
security logs, viewing, 658-660
troubleshooting, DNS, 151
events
security, auditing, 333
SharePoint list of, 856

How can we make this index more useful? Email us at indexes@samspublishing.com
1234 ExBPA (Exchange Best Practices Analyzer)

ExBPA (Exchange Best Practices Analyzer), 639-640, 651, 677
monthly database maintenance, 677
performance analysis, 1162-1163
exceptions list, configuring, 244
Exchange 200 Server, retiring, 533
Exchange 5.5
Exchange Server 2003, installing, 547-551
migrating, 535
Active Directory forests/domains, 540-541
ADC, 541-547
optimizing, 538-540
preparing, 536-538
Exchange ActiveSync tab (mailbox features properties), 614
Exchange ActiveSync, 85
Exchange Best Practices Analyzer. See ExBPA (Exchange Best Practices Analyzer)
Exchange databases, determining layout, 102
Exchange environment documentation (disaster recovery), 1121
Exchange groups, AD functionality modes, 169
distribution groups, 170
functional levels in Windows Server 2003 AD, 171-173
group scope, 170-171
mail-enabled groups, 170
security groups, 169
Windows Group types, 169
Exchange logs, optimizing, 1180
Exchange Management Console. See EMC (Exchange Management Console)
Exchange Management Shell. See EMS (Exchange Management Shell)
Exchange Organization Administrators Role, granting permissions, 599
Exchange Recipient Administrators Role, granting permissions, 599
Exchange Schema Administrators group, required administrator roles for Exchange Server installation, 600
Exchange Search rules (Mailbox rules), 703

Exchange Security Groups, 598
Exchange View-Only Administrators Role, 600

Exchange Server
deploying Finalize Deployment page, 603
disaster recovery, 1118
database file restores, 1136-1138
Ntbaskup.exe (Windows backup utility), 1135-1136
installing on SCC active node, 1062, 1065-1066
migrating. See migration
non-Windows client access, 994
client functionality/compatibility table, 996-997
Entourage, 1004-1007
IMAP 1011
Mac OS X Mail, 1001-1003
Mac support, 994
mobile computing support, 1011-1012
Outlook Express, 997, 999-1001
OWA, 996, 1012
POP3 functionality, 1011
Remote Desktop for Mac, 995-996
Terminal Server Client for Mac, 1007-1010
Virtual PC, 995-996, 1010
optimizing, via ongoing maintenance, 1185-1186
performance monitoring, MOM, 1186
security. See ISA (Internet Security and Acceleration) Server
sizing, 1177
database sizing/optimization, 1179-1180
memory requirements, 1180-1181
optimizing disk subsystems, 1177-1179
optimizing Exchange logs, 1180
serve role-based sizing, 1181-1184

Exchange Server 2000, 10
Exchange Server 2007 migrations, 514
backups, 518
Edge Transport Servers, 529
Enterprise policies, 529
extending AD (Active Directory) schemas, 519
installation prerequisites, 519-521
moving mailboxes, 525-527
permissions, 518-519
planning, 514-516
postmigration cleanup, 531-534
replicating public folders, 529-530
server system installations, 521-525
testing, 517-518
Unified Messaging Servers, 529
unsupported components, 505-506
Windows Server 2003 preparations, 518

Exchange Server 2003, 10
connectors, migrating, 557-559
deleting, 508
Exchange Server 2007 migrations, 514
backups, 518
Edge Transport Servers, 529
Enterprise policies, 529
Exchange Server 5.5 connectors/services migration, 557
Exchange Server 5.5 foreign mail connector migration, 558-559
Exchange Server 5.5 IMS migration, 558
Exchange Server 5.5 public folder migration, 556
Exchange Server 5.5 site connector migration, 558
Exchange Server 5.5 unsupported connector migration, 559
Exchange Server 5.5 versus, 535
extending AD (Active Directory) schemas, 519
installation prerequisites, 519-521
leapfrogging server migrations, 554
moving mailboxes, 525-527, 552-555
Native mode, 559
permissions, 518-519
planning, 514, 516
postmigration cleanup, 531-534
replicating public folders, 529-530
server system installations, 521, 523, 525
testing, 517-518
Unified Messaging Servers, 529
unsupported components, 506-507
Windows Server 2003 preparations, 518

installing, 547-551
Exchange Server 5.5 migrations, 548-550
mailboxes, migrating, 552, 554-556
migration
deploying prototype labs, 510-512
finalizing, 508-510
move mailbox upgrade method, 529, 533
restoring prototype labs, 513
validating documents, 513
public folders, migrating, 556-557
services, migrating, 557-559
transport-level security. See transport-level security
versions
Enterprise Edition, 12, 515
Standard Edition, 11, 515

Exchange Server 2003 Service Pack 2, 11

Exchange Server 2007, 7-8
Enterprise CAL versus Standard CAL, 12
Enterprise Edition, 12
evolution of, 8-11
features that have been removed, 14-15
installing, 208-212
new features, 13-14
Standard Edition, 11
versions and licensing, 11

Exchange Server 4.0, 8-9

Exchange Server 5.0, 9

Exchange Server 5.5, 9
Exchange Server 2003 migration, 556-559
Exchange Server 2007 migrations, 500, 534, 548-549
CCA, 550
Exchange Server 2003 versus, 535
GUI, 550
multiorganization migrations, 539
multiserver migrations, 539
Native mode, 508
preparing for, 536-538
prerequisites, 535
RUS, 551

How can we make this index more useful? Email us at indexes@samspublishing.com
service accounts, 551
single server migrations, 539
SRS, 550-551
Exchange Server Administrators Role, granting permissions, 600
Exchange Server Performance Monitor, 642, 652
Exchange system failover documentation, 756
Exchange System Manager. See EMC (Exchange Management Console)
Exchange Task Model, 271-272
Exchange version requirements, 76-77
Exchange versions, determining, 102
Exchange View-Only Administrators Role, 600
Exchange virtual server, 1046
Exchange-specific functionality, 80. See also functionality
Execute Diagnostic Cmdlet script (Management Pack), 691
Execute test-System Health diagnostic cmdlet rule (Best Practice Analyzer rules), 694
Executive Summary
design documents, 54
Migration document, 58
existing environments, discovery phase of upgrades, 49
ExMerge, 554-556
moving mailboxes, Exchange Server migrations, 554-555
Explicit Active Directory Connector, 357
Explicit ADAM Connector, 357
exporting
address books, Outlook Express, 1001
Edge Transport server settings, 263-265
Exres.dll (Resource DLL), 1046
Extensible Storage Engine rules (Common Components rules), 695
Extensible Storage Environment (ESE), 535
external DNS servers, Internet, 150
failover sites, creating (disaster recovery), 1124-1125
failovers
clustering, 1046
documentation, 755. See also documentation
failure notifications (backups), 1088
failures
boot failures (disaster recovery), 1128-1129
complete server failures (disaster recovery), 1129
ASR restores, 1134-1135
boot loader file restores, 1135
manual recovery, 1130-1131
restoring versus rebuilding, 1130
System State restores, 1131-1133
disk failures (disaster recovery), 1127-1128
site failures (disaster recovery), 1123
alternate client connectivity methods, 1126
failing back after site recovery, 1125
failing over between sites, 1125
redundant/failover sites, creating, 1124-1125
system failures, backup strategy development, 1089-1090
fault tolerance, SAN/NAS, 1200-1201
faxes, Unified Messaging, 796
Federal Information Processing Standards (FIPS), 721
Fibre Channel disks, 1198
file recovery, certificate templates, 378
file witness shares, CCR (mailbox clusters), 1049
files
locking down, 336
uploading, SharePoint, 864
filtering
application-layer filtering, 398-399
block/safe lists, 319
content filtering. See content filtering
content in message attachments, 249-252
email
junk email filters (Outlook), 911-914
web beaconing, 914
ISA Server logs, customizing filtering of, 420
junk email, 318-319
Entourage, 1004
Outlook security, 914
OWA, 976
MAPI filtering, 412-413
recipient filtering, configuring, 231-233
with Save Senders and Blocked Senders, 319-320
sender filtering. See sender filtering
Sender/IP Reputation. See Sender/IP Reputation
SMTP filters, ISA Server, 417
filtering data, results pane (EMC), 604
filters, connection filtering. See connection filtering
Finalize Deployment page, 603
finalizing migration, 508-510
financial benefits of documentation, 735
Find Names dialog box, 957
FIPS (Federal Information Processing), 721
firewalls
configuration documents (backups), 1086
importance of, 397-398
Windows, 300
flags, email, 970
flat-file copying, database corruption (disaster recovery), 1139
flexible single master operations roles, Active Directory requirements for Exchange Server 2007, 182-183
Flexible Single Master Operations. See FSMO (Flexible Single Master Operations)
Folder list (OWA), 949
folders
custom managed folders, creating in MRM, 448
email
modifying viewing order, 952
moving messages to, 964
OWA, creating, 953
public
connection agreements, 545
migrating, 556-557
replicating, 529
verifying replication, 675
fonts, email, 964
ForeFront security, 351
foreign mail connectors, migrating, 558-559
forest functional level requirements, Exchange Server migrations, 459
forest functional levels, upgrades (Windows Server 2003 migrations), 472-475
forests, 76
Active Directory, 94-95, 155
design, 78-80, 94
domain controller placement, 155-156
domain structures, 80
impact on Exchange Server design, 184
migrating, 540-541
requirements for Exchange Server 2007, 181-182
Windows Server 2003 functionality, 465-466
MMS, 82
multiple, 79
formatting
Active Directory, 78-79
domain structures, 80
infrastructure components, 81-82
MMS, 82
components, 73
coeexistence, 77
functionality, 73-76
scaling, 77
third-party functionality, 78
e-mail text, customizing in OWA, 964
folders, OWA, 953
Migration documents, 56-60
reading pane (OWA), 953
forward lookup zones, 135
forwarding
email
attachments, 960-961
OWA, 960-961
meeting requests, OWA (calendars), 984
fragmentation, 86
free disk space, checking, 674

How can we make this index more useful? Email us at indexes@samspublishing.com
free space, analyzing databases, 677
free/busy time (Outlook collaboration)
  configuring for Internet display, 923-925
  viewing via Internet, 925-926
From tab (ISA Server), 410
FrontPage 2003, SharePoint integration, 867-868
FSMO (Flexible Single Master Operations), Windows Server 2003, 458
FSMO (Flexible Single Master Operations) roles, prototype lab deployments, 511-512
functional levels in Windows Server 2003 AD, 171-173
functionality, 73, 75-76
  Active Directory, 169-172
  email, 955-956, 960-964
  Entourage X, 1004
  Macintosh, 995
  multiple forests, 79
  OWA, 996-997
  Terminal Services Client, 1008-1010
  third-party, 78

G
Gantt chart, Migration document, 55-56
gateway scanning, 351
gateways, applications, 147
gauging success of Pilot phase, 65
GC
  caching, Active Directory, 82
  placement, 95
General tab
  EMC mail contact properties, 624
  ISA Server, 409
generating
  largest mail user reports, 287-288
  user distribution reports, 288-289
geographic distribution of resources, 50
  Planning phase, 50-51
geographic mirroring, SAN/NAS fault tolerance, 1200
Get Mailbox Count script (Management Pack), 691
Get Site Name script (Management Pack), 691
Get-UMActiveCalls cmdlets, United Messaging, 827
Get/Set cmdlets (Unified Messaging shell commands), 841
"ghost" domain controllers, retiring, 472
GLBA (Gramm-Leach-Bliley Act), 436-438
global catalog, 154, 159
  Active Directory
    demoting, 163
    deploying domain controllers, 163-164
    infrastructure components, 82
    server relationships, 159
    structure, 160
    universal group caching, 164-165
    verifying, 162
    best practices for placement, 160
demotion, 163
deploying domain controllers, using Install from Media Option, 163-164
placement strategy, planning Active Directory infrastructure, 188
promoting domain controllers to, 161-162
relationship between Exchange Server 2007 and Active Directory global catalog, 159
structure of, 160
universal group caching for AD sites, 164-165
verifying creation of, 162
global catalog servers
  Active Directory
    disaster recovery, 1152
    requirements for Exchange Server 2007, 181
    configuring, 200
global data, managing in Exchange Security Groups, 598
global groups, 171
goals
  business unit or departmental messaging goals, 42-44
  Design documents, 54
  high-level business goals, 41
  high-level messaging goals, 41-42
  identifying, in Initiation phase, 40-44
  Migration document, 58
Summarizing, in Statement of Work (Initiation phase), 45-46
upgrading, 38-44. See also upgrading
government regulations, security standards, 429
GLBA, 436-438
HIPAA, 431-436
ISO/IEC 17799, 429-430
Sarbanes-Oxley, 438
GPOs (Group Policy Objects), 335
creating, 1034
Gramm-Leach-Bliley Act (GLBA), 436-438
group accounts, migrating (Windows Server migrations), 486-488
group management, MiIS 2003, 112
group policies, 335, 1034
creating to distribute user certificates, 384-385
Outlook client configuration, 1019
Outlook deployments, managing, 1022
Windows Server, Outlook deployments
(update/patch management), 1035-1038
Windows 2003, deploying Outlook, 1017
group schedules (Outlook), 928-929
group scope, 170-171
groups
Active Directory, functionality, 169-172
distribution, 170
domain local, 170
global, 171
machine local, 170
mail-enabled, 170
MiIS, 112
scope, 170
securing, administrative policies, 343-344
security, 169, 343-344
storage, 87-88
design, 102
universal, 171
universal group caching, 164-165
upgrade pilot phase, 64-65
Windows, 169
GroupWise (Novell), Exchange Server 2007
migrations, 500
growth, planning for (performance analysis), 1164
GUI (graphical user interface), cluster management, 1069, 1072
handheld devices, Entourage support, 1005
hard disks, checking free disk space, 674
hard/soft zoning, 1196
hardening Windows Server 2003, 334-337, 343-344
hardware
components, selecting, 96
Entourage X, 1006
requirements, 75
Terminal Services Client, 1008
hardware inventory documents (backups), 1085
hardware requirements, 75
for Exchange Server 2007, 179
Health Insurance Portability and Accountability Act (HIPAA), 431-436, 634
heartbeats
CCR, 1056
clusters, 1046
help
EMS, 277
OWA, 954
highlighting in Outlook
appointments, categorizing via color, 904
quick flags, 902-903
HIPAA (Health Insurance Portability and Accountability Act), 431-436, 634
HIPAA Privacy Rule, 433
history of Exchange Server 2007, 8-11
honeypots, 220
host records, 139
hot standby drives, SAN/NAS fault tolerance, 1201
hotfixes
MSA, 336-337
servers, 340
HTML (Hypertext Markup Language)
access, 1012
mobile computing support, 1012

How can we make this index more useful? Email us at indexes@samspublishing.com
Remote Administration. See Remote Administration (HTML)

HTTP (Hypertext Transfer Protocol), security concerns, 399-400

Hub Transport and Edge Transport rules (Common Components rules), 696

Hub Transport role, 100
  Transport agents, 440
    email disclaimers, 445-446
    journaling and mail retention policies, 442-445
    RMS, 442
    Transport rules agents, 441-442

Hub Transport rules (Management Pack), 701

Hub Transport server, 18, 83
  disaster recovery, 1118
  email, MAPI conversions, 1208

Hub Transport server connectors, 358-360

Hub Transport server role, 27, 648-649

Hub Transport servers, 577
  ADRMS Prelicensing agent, 587-588
  agent prioritization, 588
  backups, 1094-1095
  categorizer, 578
    submission queues, 590
    configuring, 215
  delivery services, 579
  disclaimers, 582-584
  installing, 591-592
  journaling agent, 584-586
  mail flow services, 578
  message classification, 586-587
  optimizing, 1167
  policy compliance, 579-580
  rights management, 587-588
  routing services, 578-579
  sizing, 1182-1183
  SLA, 1084
  SMTP Receive Connector, 590-591
  SMTP send connector configuration, 592-593
  transport dump feature, CCR, 1056
  transport pipelines, 589
  transport rules agent, 580
    rules, creating, 580-581
  hunt group objects, Unified Messaging, 802
  hunt groups
    telephony, 814
    Unified Messaging, creating in, 820-822
  hyperspace, 1172

identifying
  client access points, 84-85
  goals, Initiation phase, 40-44
  limitations on directory synchronization with MSDSS, 118-119
  server roles, 25-28
  third-party product functionality, 78

identities
  MIIS, 108-110
    account provisioning, 110
    group management, 112
    installing, 112
    role of MAs, 111-112
  identity information, managing between LDAP directories and Exchange Server 2007, 120
  identity management, deploying MIIS 2003 with eDirectory, 114-115
  IDMU, synchronizing passwords, 128
  IIS (Internet Information Services) 6.0
    configuring, 207-208
    prerequisites for Exchange Server 2007, 178
  IIS (Internet Information Services)
    backups, 1110-1111
    disaster recovery, 1146-1147
    Office Communications Server, configuring in, 880-881
    RPC over HTTPS in Outlook, 915
  IM (instant messaging)
    Communicator client, 874
    installing, 892
    OCS, IM federation, 873
| **Office Communications Server**, instant messenger filter, 891 |
| **imaging technologies**, deploying Outlook, 1017 |
| IMAP (Internet Message Access Protocol), 105 |
| CAS, 575 |
| ISA Server, configuring publishing rules, 414-415 |
| Linux support, 1011 |
| Mac support, 1011 |
| non-Windows client access, 1011 |
| IMAP4 rules (Client Access rules), 698 |
| IMF (Intelligent Message Filter), 447 |
| implementation, 36 |
| DNS components, 135-138 |
| configuring servers, 150-153 |
| need for, 133 |
| requirements, 144, 147-149 |
| resource records, 138-143 |
| servers, 134 |
| SMTP, 143-144 |
| troubleshooting, 150 |
| maintenance, 89-90 |
| security, 89-90 |
| **Implementation phase**, 37 |
| implementing |
| Active Directory from scratch, 190 |
| configuring Active Directory sites and services, 197-199 |
| configuring global catalog servers, 200 |
| installing first domain controller for a new domain, 194-197 |
| installing Windows Server 2003, 190-192 |
| installing Windows Server 2003 Service Pack 1, 192-194 |
| updating and patching operating systems, 194 |
| industry standards and guidelines, 336-337 |
| maintenance schedules, 90 |
| MSDSS, 118 |
| secured email communications, 382 |
| Implicit connectors, 357 |
| implementation, LDAP, 121-122 |
| **importance options (email)**, OWA, 962 |
| importing |
| Edge Transport server settings, 263-266 |
| Management Pack, MOM, 688 |
| improvements to Exchange Server 2007, relative to security and compliance, 17-18 |
| IMS (Internet Mail Service), migrating (Exchange Server 2003), 558 |
| in-place upgrades versus new hardware migrations (Windows Server migrations), 461 |
| **Inbox** |
| Unified Messaging, 795 |
| viewing, modifying viewing order, 952 |
| **indexing**, content indexing, 1206-1207 |
| Infobar (OWA), 950 |
| Log Off button, 955 |
| Information Rights Management (IRM), 321, 374 |
| information store, validating backups, 678 |
| Information Store Integrity Checker (istinteg.exe), 654-655 |
| Information Store rules (Mailbox rules), 703 |
| Information Worker rules |
| Client Access rules, 698 |
| Mailbox rules, 703 |
| **Infrastructure** |
| Active Directory, components, 81-82 |
| antispam, 103 |
| antivirus, 103 |
| coexistence, 77 |
| databases, 102 |
| design, 102 |
| environment documentation, 747-749 |
| monitoring, 104 |
| recovery, 103 |
| **initiation**, 36 |
| upgrade phase, 38 |
| goals, 39-44 |
| statement of work, 44-49 |
| **Initiation phase**, 37-38 |
| creating Statement of Work, 44-49 |
| identifying goals, 40-44 |
| scope of project, 38-40 |

How can we make this index more useful? Email us at indexes@samspublishing.com
Install (Media Option), deploying domain controllers, 163-164

installation
ADC, 541-547
Entourage X, 1005-1007
Exchange Server 2003, 547-548, 550-551
Outlook Express, 999-1001
Terminal Services Client, 1009-1010
versions, 102
installation logs, reviewing, 212
installation points, creating for Outlook deployments, 1024-1025
installing
ADC, Exchange Server migrations, 542
admin tools, Office Communications Server, 888
CAS (Client Access Server), 576
Certificate Services, 380-382
Client Access server roles, 215
Communicator client, 892
Edge Transport Services, 219-221
EMS, 207
Exchange Server migrations, 521
Entourage support, requirements, 1005-1006
Exchange Server
- on mailbox cluster CCR active nodes, 1053-1054
- on mailbox cluster CCR passive nodes, 1054-1055
- on SCC active node, 1062, 1065-1066
Exchange Server 2003
Exchange Server 5.5 migrations, 548-550
migration prerequisites, 519-521
server system installations, 521-525
Exchange Server 2007, 31, 208-211
completing installation, 211-212
performing scripted installations, 213-214
preinstallation checks, 203-205
preparations for, 200-201
Exchange Server: required administrator roles, 600
first domain controller for a new domain, 194, 196-197
Hub Transport servers, 591-592
Mailbox server role, 216
Management Pack, MOM, 687
MISS, 112
MIS 2003, with SQL 2000/2005, 112
MMC 3.0, Exchange Server migrations, 520
MSDSS, 116-118
.NET Framework 2.0, 206
.NET Framework 2.0, Exchange Server migrations, 520
Office Communications Server, 875
configuring IIS, 880-881
delegating setup/administrative privileges, 878-880
extending AD (Active Directory) schema, 875-876
prepping AD (Active Directory) domains, 878
prepping AD (Active Directory) forests, 876
Outlook clients, Outlook deployments, 1028-1030
Outlook Express, 999
Remote Administration (HTML), 725-727
root certificates, on Windows Mobile devices, 774-777
RPC over HTTPS in Outlook, 9115-917
Security Configuration Wizard, 338
services, for UNIX R2, 125-128
Terminal Server Client for Mac, 1009-1010
Terminal Services, for remote administration, 713-714
third-party CA on CAS, 767-770
Unified Messaging server roles, 215
Unified Messaging, 813-815
Windows certificate of authority server, 380
Windows Mobile 5.0 Device Emulator, 789-790
Windows Server 2003, 190-192
Windows Server 2003 Service Pack 1, 192-194
instant messaging (IM). See IM (instant messaging)
instant messenger filter, Office Communications Server, 891
integrating
client access into Exchange Server 2007, 104-105
directories, with MSDSS, 115-116
UNIX systems, with Active Directory/Exchange Server 2007, 122-123
integration
client access, 104-105
LDAP, 120-122
MiIS, 108-110
account provisioning, 110
group management, 112
installing, 112
MAs, 111-112
Novell eDirectory, 113-114
applying MSDSS, 115-120
deploying MiIS, 114-115
zones, Active Directory, 136
integrity checks, isinteg.exe (Information Store Integrity Checker), 654-655
Intelligent Message Filter (IMF), 447
interface customization, EMS, 606
interfaces
OWA clients, navigating, 948-953
SharePoint, 859
internal CA for OWA certificates, 770-774
internal DNS servers for outbound mail routing, 150
International List (Outlook), 913
Internet
classification, 996
external DNS servers, 150
free/busy time, Outlook collaboration
how messages get to Exchange, 28-29
Outlook 2003, 312-314
Internet Information Services. See IIS (Internet Information Services)
Internet Information Services (IIS) 6.0, prerequisites for Exchange Server 2007, 178
Internet Mail Service, migrating, 558
Internet Message Access Protocol. See IMAP
Internet Security and Acceleration Server 2006. See ISA (Internet Security and Acceleration) Server
interoperability, with older versions of Exchange (DNS), 146
interprocess communications (IPC), 313
inventory documents (backups), hardware, 1085
invitations, launching in separate windows (OWA), 984
IP Allow List, 224
configuring
with Exchange Management Console, 225-228
with Exchange Management Shell, 229-230
IP Block List, configuring
with Exchange Management Console, 228
with Exchange Management Shell, 229-230
IP Block List Providers, configuring with Exchange Management Console, 228-229
IP Reputation Service, 348
IP/ PBX (Internet Protocol/Private Branch Exchange), telephony, 810
IP/ VoIP gateways
telephony, 810, 814
Unified Messaging, 809
IP (interprocess communications), 313
Ipconfig utility, troubleshooting DNS, 151-152
IP gateways, Unified Messaging, 817-818
IRM (Information Rights Management), 321
ISA (Internet Security and Acceleration) Server, 395-396
Action tab, 409
Alerts tab, 422-424
Application Settings tab, 411
Authentication Delegation tab, 411
connectivity verifiers, 424-426
Dashboard, customizing, 420
logs, 418-419
From tab, 410
General tab, 409
HTTP traffic, security concerns, 399-400
IMAP configuring publishing rules, 414-415
Link Translation tab, 411
Listener tab, 410
logs, 418-419
MAPI (Messaging Application Programming Interface), 411
configuring RPCFiltering rules, 412
deploying filtering across segments, 413

How can we make this index more useful? Email us at indexes@samspublishing.com
ISA (Internet Security and Acceleration) Server

messaging security, 401
need for, outlining, 396-399
OWA, 401
  Bridging tab, 411
  importing/exporting certificates, 402-405
  publishing rules, creating, 405-411
  Schedule tab, 411
Paths tab, 411
POP3, configuring publishing rules, 413-414
Public Name tab, 411
Sessions tab, 424
SMTP (Simple Mail Transfer Protocol), 416-417
To tab, 410
Traffic tab, 410
Users tab, 411
isinteg.exe (Information Store Integrity Checker), 654-655
ISINTEG utility, database corruption (disaster recovery), 1142-1143
ISO/IEC 17799, 429-430
Issue Warning AT(KB) option (EMC), databases, 632
issues lists (SharePoint), 856
items per page, configuring, 973
iterative queries, 138

J
JET database, storing NAS/SAN, 1205
journaling, 428
  defining, 633
mailboxes, 636
policies, 442-445
rules, 444, 635-637
U.S. regulations, 634
journaling agent (Hub Transport servers), 584-586
junk email filtering, 318-319
  Entourage, 1004
  Outlook, 911-914
junk email prevention, 976. See also email

K
Karl Prosser's PowerShell Analyzer, 293
Keep Deleted Items For (Days) option (EMC), databases, 633
Keep Deleted Mailboxes For (Days) option (EMC), databases, 633
Kerberos, failure codes, 659
keyboard shortcuts
  OWA, 971
  Remote Desktop for Administration, 720
keywords, configuring allowed keywords (Edge Transport servers), 242-244
knowledge management, 735
knowledge sharing, 735

L
labels (security), Outlook, 911
languages, OWA (Outlook Web Access) regional settings, 944
layers, security, 334
LCR (Local Continuous Replication), 22, 1076-1077, 1098
LDAP (Lightweight Directory Access Protocol), 120-121, 132
differences between LDAP2 and LDAP3, 122
Entourage, 1005
managing identity information between LDAP directories and Exchange Server 2007, 120
Outlook Express, 998
leapfrogging migrations, 554
legacy Exchange 2000 Server, retiring, 533
levels, upgrading service packs, 538
libraries
  cmdlets, combining functions to create, 280-281
document libraries, 853-855
  picture libraries
    MOSS, 855, 863
    SharePoint, 855
licenses, Terminal Services, 713
licensing Exchange Server 2007, 11
Light Client mode (OWA), 947

How can we make this index more useful? Email us at indexes@samspublishing.com
Mac desktops, Exchange Server support for

- POP3 functionality, 1011
- Remote Desktop for Mac, 995-996
- Terminal Server Client for Mac, 1007-1010
- Virtual PC, 995-996, 1010
- Mac OS X Mail, 1001-1003
- mac local groups, 170

Macintosh
- client support, 994-995
- compatibility, 996-997
- Entourage X, 1004
  - deploying, 1005-1007
  - functionality, 1004
- Outlook Express, configuring, 999-1001
- Terminal Services Client, 1007-1008
  - functionality, 1008-1010
- Mail
  - outbound routing, 150
  - security, 147-148
- mail contact properties (EMC), 624-625
- mail contacts, 623-624
- mail exchange (MX) record, 139-141
- mail flow services (Hub Transport servers), 578
- mail flow settings properties (EMC), 614
- Mail Flow Settings tab (EMC mail contact properties), 625
- mail flow tools, 652
- Mail Flow Tools (EMC Toolbox)
  - Mail Flow Troubleshooter, 640
  - Message Tracking tool, 641
  - Queue Viewer, 642
- Mail Flow Troubleshooter, 640, 652
- mail notification pop-up (OWA), 949
- mail retention, policies, 442-445
- mail-enabled groups, 170
- mailbox clusters
  - CCR, 1048
    - adding second nodes to, 1051
    - advantages of, 1057
    - configuring MNS quorums, 1052-1053
    - creating, 1050-1051
- Exchange Server installation on active node, 1053-1054
- Exchange Server installation on passive node, 1054-1055
- file witness shares, creating, 1049
- operating system preparations, 1048-1049
- requirements for, 1048
- optimizing, 1166
- Mailbox Count reports (Metric reports), 707
- mailbox delivery queues (SMTP Receive Connector), 591
- mailbox features properties (EMC), 614
- Mailbox Information page (New Mailbox Wizard), 611-612
- mailbox journaling, enabling, 443
- mailbox policies for ActiveSync, 783-784
- mailbox policy objects, Unified Messaging, 803
- Mailbox rules (Management Pack), 702-703
- mailbox scanning, 351-352
- Mailbox server, 83
- Mailbox server role, 28, 98, 649
  - installing, 216
- mailbox servers
  - backups, 1092-1094
  - optimizing, 1165-1166
  - sizing, 1181-1182
  - SLA (Service Level Agreements), 1083
- Mailbox Service Availability Summary reports, 708
- Mailbox Settings page (New Mailbox Wizard), 612
- mailbox settings properties (EMC), 613
- mailbox stores, managing with EMS, 285-286
- mailboxes
  - associating subscriber access numbers to dial plans (Unified Messaging), 816
  - creating, with EMS, 282-283
  - database maintenance, 672
  - database restoration, 615
  - decreasing user interruptions, 615
  - deleted contents, disaster recovery, 1116-1117
  - delivery options, 614
  - disabling, with EMS, 284
  - disaster recovery, 1117-1118
disconnected mailboxes, 625-626

distribution groups
creating, 617-619
distribution list mail flow settings, 622-623
dynamic distribution groups, creating, 620-621
Do Not Permanently Delete Mailboxes... option (EMC), 633

disabled email contacts, 623-624
EMC, creating via, 610-612
EMS, creating via, 613
Exchange ActiveSync, 614
folders, creating in OWA, 953
Get Mailbox Count script (Management Pack), 691
Get Mailbox Count script (Management Pack), 691
integrity checks, isinteg.exe (Information Store Integrity Checker), 654-655
journaling, 636
Keep Deleted Mailboxes For (Days) option (EMC), 633
Mailbox Server Role, 649
managing locations of, 615
MAPI, 614
message size restrictions, 614
messaging records management, 613
migration, 537. See also migration modifying, with EMS, 283
moving
EMC, 626-629
with EMS, 283-284
Exchange Server 2003 migrations, 525-527
Exchange Server migrations, 552-555
moving to other onsite servers, database corruption (disaster recovery), 1141
multiple account management (Outlook), 906
opening another user’s mailbox, OWA, 944
Outlook security, encryption, 909-910
OWA, 614
restoring, backup strategy development, 1090
storage groups, 615
storage quotas, 613

unified messaging, 614
enabling in, 822
Unified Messaging Server Role, 649

mailed-enabled groups, 170

maintaining
Exchange Server 2007 implementation, 89-90
schedule of replication, EdgeSync, 258

maintenance
best practices, 670-671
scheduling, 673-677
database, 1207
documentation, benefits of, 734-736
Exchange Server optimization, 1185-1186
implementing, 89-90
managing, 679-680
postmaintenance procedures, 679
tasks, verifying, 675
tools
backup, 652
eseutil utility, 655
ntdsutil utility, 653
Queue Viewer, 652

maintenance (database), best practices, 667
automatic maintenance, 668-669
daily maintenance, 673-674
mailbox moves, 672
monthly maintenance, 677-678
offline maintenance, 669-671
quarterly maintenance, 678
weekly maintenance, 675-676

maintenance plan, 751-752

maintenance schedules, implementing, 90

maintenance tools
EMC, 649-650
disaster recovery tools, 651-652
ExBPA, 651, 677
mail flow tools, 652
performance tools, 652
Queue Viewer, 652
EMS, 650
esentutl.exe (compact database utility), 654

How can we make this index more useful? Email us at indexes@samspublishing.com
maintenance tools

esetutil (database maintenance utility), 655-656
isetint.exe (Information Store Integrity Checker), 654-655
MOM, 680
ntbackup.exe (backup utility), 652
ntdsutil (defragmentation utility), 653-654

majority node clusters, 1047

Managed Folder Assistant, scheduling, 452
management
agents, account provisioning, 110
backup, 652
esetutil utility, 655
knowledge, 735
LDAP 120-122
maintenance, 679
MOM, 680
ntdsutil utility, 653
Queue Viewer, 652
security, Active Directory, 157

management agents (MAs), 109
role of, 111-112

Management Pack
AKM files, 688
alert notifications, 686
computer groups, 689-690
event monitoring, 684
importing, MOM, 688
installing, 687
notification groups, 692
online catalog website, 687
performance monitoring, 684
reports
Message Hygiene Analysis, 706
Metrics, 707
Service Availability reports, 708-709
rules, 690, 693
ActiveSync Connectivity rules, 699
Client Access rules, 698-699
Common Components rules, 693-698
Edge Transport rules, 700
Event rules, 706

Hub Transport rules, 701
Mailbox rules, 702-703
Performance Collection rules, 705-706
scenarios, 706
Unified Messaging rules, 704
scripts, 691
state monitoring, 685
trend analysis, 686
XML files, 688

management-level reporting, 755-756. See also documentation

managing
clusters
via command line, 1068-1069
via GUI, 1069, 1072
cmdlets, 281
coexisting Exchange Server environments, 504-505
connectors, with EMS, 286
contacts, OCS, 873
documents, SharePoint, 860
Exchange Server 2007, 32
MOM, 32
identity information between LDAP directories and Exchange Server 2007, 120
mailbox stores, with EMS, 285-286
mobile devices, OWA, 940-941
via server roles, 648-649
SharePoint discussions, 857

managing tools
EMC, 649-650
disaster recovery tools, 651-652
ExBPA, 651, 677
mail flow tools, 652
performance tools, 652
Queue Viewer, 652
EMS, 650
esetutil.exe (compact database utility), 654
esetutil (database maintenance utility), 655-656
isetint.exe (Information Store Integrity Checker), 654-655
MOM, 680
ntbackup.exe (backup utility), 652
ntdsutil (defragmentation utility), 653-654
manual creation of Send Connectors on Edge Transport server, 363
MAPI (Messaging Application Programming Interface), 77, 564
  compression, 84
  email conversions, 1208
  ISA Server, 411
  configuring RPC Filtering rules, 412
  deploying filtering across segments, 413
MAPI tab (mailbox features properties), 614
MAPI Connectivity rules (Mailbox rules), 703
mapping contact addresses, OWA, 986
marking email messages read/unread, 965
MAs (management agents), 109
  role of, 111-112
master-slave replication, 138
MBSA (Microsoft Baseline Security Analyzer), 336-337
MDSDSS (Microsoft Directory Synchronization Services), integrating directories, 115-116
media, backups, 1111-1112
Media option, deploying domain controllers, 163-164
media pools, 1111-1112
meeting invitations, OWA, 984-985
meeting workspaces, 860-861
meetings
  OWA calendars, 981-984
  scheduling, Scheduling Assistant (OWA), 939
  time zones, creating by (Outlook), 904
memory
  Exchange Server sizing, requirements for, 1180-1181
  servers, 97
  subsystems, optimizing, 1172-1173
  virtual memory, 1172
    optimizing, 1174
    VM, avoiding fragmentation, 86
menus
  context, viewing, 970
  pull-down menus, OWA, 950
merging, ExMerge, 554-556
message classification
  Hub Transport servers, 586-587
  OWA (Outlook Web Access) security, 988
message delivery limits, Edge Transport server, 364-365
Message Delivery Restrictions tab (mail flow settings properties), 614
Message Hygiene Analysis reports (Management Pack), 706-707
message list (OWA), 949
message logs
  changing location of, 665
  sizing, 666-667
message queues, daily database maintenance, 674
Message Size Restrictions tab (mail flow settings properties), 614
message tracking, 664
  changing log location, 665
  enabling/disabling, 664
  sizing message logs, 666-667
message tracking logs, 1208
Message Tracking tool, 641
Message Tracking utility, 652
messages
  delivery limitations, 364
  folders
    adding, 953
    moving to, 964
how they get to Exchange from the Internet, 28-29
how they route within an internal Exchange environment, 29
options, configuring, 962
OWA, 955, 960-964. See also email
  customizing, 964-971
  modifying viewing order, 952
  navigating, 951
queues, reviewing, 674
reading, marking read/unread, 965
role of DNS for internal and external message routing, 30

How can we make this index more useful? Email us at indexes@samspublishing.com
messages

searching, 971
text
modifying, 964
Spell Check feature, 968
Messaging Application Programming Interface. See MAPI (Messaging Application Programming Interface)
messaging records management tab (mailbox settings properties), 613
Messaging Records Management. See MRM (Messaging Records Management)
metadirectories, 109
metaverse namespace (MV), 109
Metric reports (Management Pack), 707
Microsoft Baseline Security Analyzer (MBSA), 336
Microsoft Directory Synchronization Services, 115-116
Microsoft Exchange ActiveSync. See ActiveSync
Microsoft Exchange Server TechCenter, 219
Microsoft Exchange Team Blog, 219
Microsoft Identity Integration Services (MIIS) 2003, 108-110
account provisioning, 110
deploying, 114-115
group management, 112
installing, 112
role of MAs, 111-112
Microsoft Management Console. See MMC (Microsoft Management Console)
Microsoft Office 2003, 861-862
Microsoft Operations Manager. See MOM (Microsoft Operations Manager)
Microsoft Sender ID Framework SPF Record Wizard, 236
Microsoft Update, 305
middle pane (OWA), 949
migration. See also updates
ADC, installing, 541-547
address books, Outlook Express, 1001
computer accounts (Windows Server 2003 migrations), 493-494
connectors, 557-559
Exchange Server 2003, 557-559
decommissioning the old Exchange environment, 66
documents, planning phase of upgrades, 55-60
domain controllers, AD forest upgrades (Windows Server 2003 migrations), 466
domains (Windows Server 2003 migrations), 481-489, 493-495
Exchange Server, 514, 534
AD forests, 540-541
ADC, 541-547
administrative groups, 503
backups, 518
deploying prototype labs, 510-513
distributed server strategies, 501
domains, 541
EDB databases, 502
Edge Transport Servers, 529
Enterprise policies, 529
Exchange Server 2003 installations, 548-559
Exchange Server 2003 versus Exchange Server 5.5, 535
Exchange Server 5.5, 500
extending AD (Active Directory) schemas, 519
forest functional level requirements, 459
FSMO roles, 458
installation prerequisites, 519-521
limited number of servers, 501
link state updates, 503
Lotus Notes, 500
managing coexisting environments, 504-505
moving mailboxes, 525-527
multiorganization migrations, 539
multiserver migrations, 539
Native mode, 507-510
new Exchange Server 2007 environments, 513
new Exchange Server organizations, 499-500
Novell GroupWise, 500
OS requirements, 458-459
permissions, 518-519
planning, 514-516
postmigration cleanup, 531-534
preparing for, 536-538
prerequisites, 535
replicating public folders, 529-530
restructuring Exchange Server, 498-499
routing groups, 502
RUS (Recipient Update Services), 504
Sendmail, 500
server system installations, 521-525
simple migrations, 498
single server migrations, 539
testing, 517-518
Unified Messaging Servers, 529
unsupported Exchange Server 2000 components, 505-506
unsupported Exchange Server 2003 components, 506-507
Windows Server 2000 native functional level domains, 458
Windows Server 2003 preparations, 518
x64-bit hardware, 501
Exchange 5.5, 535
Active Directory forests/domains, 540-541
optimizing, 538-540
preparing, 536-538
Exchange Server 2003,
IMS, 558
installing, 547-548, 550-551
public folders, 556
finalizing, 508-510
group accounts (Windows Server 2003 migrations), 486-488
leapfrogging, 554
mailboxes, 552, 554-556
personal address books, 1001
planning
deploying prototype labs, 510-512
move mailbox upgrade method, 529, 533
restoring prototype labs, 513
validating documents, 513
postmigration cleanup, 510

production migration/upgrade, 65-66
public folders, 556-557
services, 557-559
Exchange Server 2003, 557
simulating, 511
SRS, 550-551
supporting new environment, 66
upgrades, validating documents, 63
user accounts (Windows Server 2003 migrations), 489, 493
Windows Server 2000 to Windows Server 2003
AD forest upgrades, 465-470, 472-475
“Big Bang” versus Slow Transition strategies, 461-462
combining AD forests, 476-481
consolidating/migrating domains, 481-489, 493-495
in-place upgrades versus new hardware migrations, 461
migration options, 462
migration requirements, 457-459
phases of, 460
single member servers, 462-465

Migration document
Planning phase, 55
project schedule, 55-60
validation for, 63
migration plan document, 739-742
migration process, Migration document, 59-60
MIIS (Microsoft Identity Integration Server) 2003, 108-110
account provisioning, 108-110
deploying for identity management with eDirectory, 114-115
group management, 112
installing, 112
MAs, 111-112
Novell eDirectory, deploying, 114-115
role of MAs, 111-112
synchronizing directory information, 108

How can we make this index more useful? Email us at indexes@sams publishing.com
milestones
  Migration document, 59
  summarizing, in Statement of Work (Initiation phase), 46
  upgrades, 46
mirroring, 1200
MIS (Mobile Information Server), 762
misconfiguration, MBSA, 336-337
Mixed-Mode Domain Redirect, combining AD forests (Windows Server 2003 migrations), 476-481
MMC (Microsoft Management Console), 178, 607
  installing Exchange Server migrations, 520
  verifying, 206
MMS (Microsoft Metadirectory Services), 82
MNS quorums, mailbox cluster CCR, 1052-1053
mobile access, 19-20
mobile computing
  Exchange Server support for
    HTML (Hypertext Markup Language), 1012
    Pocket PC, 1011
    Windows Mobile, 1011
  Outlook deployment considerations, 1021
mobile devices
  managing, OWA, 940-941
  Terminal Services, 727
  securing, 727-729
Mobile Information Server, 762
mobility enhancements, 762
modes, users, 947
modification, replication, 156. See also replication
Modify profile setting (OCT), 919
modifying
  cmdlets, 281
  email viewing order (OWA), 952
  mailboxes, with EMS, 283
  passwords, email, 978
  reading pane (OWA), 953
  text, email, 964
MOM (Microsoft Operations Manager), 32, 89, 680, 683
  Administrator Console, 688
    identifying computer attributes, 689
    identifying computer groups, 689-690
    identifying notification groups, 692
    identifying rules, 690
    identifying scripts, 691
  customizing, 687
Exchange Server, performance monitoring, 1186
Management Pack
  AKM files, 688
  alert notifications, 686
  computer groups, 689-690
  event monitoring, 684
  importing, 688
  installing, 687
  notification groups, 692
  online catalog website, 687
  performance monitoring, 684
  reports, 706-709
  rules, 690, 693-706
  scripts, 691
  state monitoring, 685
  trend analysis, 686
  XML files, 688
  Operator Console, 692
  SDK website, 687
MOMSDK (Microsoft Operations Manager Software Development Kit) website, 687
monitoring
  design, 104
  Exchange, 104
ISA Server
  alerts, 422-424
  customizing Dashboard, 421
  session/service activity, 424
MOM, 89
performance
  disk subsystems, 1175-1176
  documenting, 755
  Exchange Server, 1186
  memory subsystems, 1172-1173
  Network Monitor, 1170
  network subsystems, 1176
  Performance Monitor Console, 1169, 1173
processor usage, 1175
Task Manager, 1171
Unified Messaging
active calls, 827
connectivity, 827
event logs, 836-840
performance monitors, 828-836
monthly database maintenance, 677-678
monthly maintenance, 677. See also maintenance
MOSS (Microsoft Office SharePoint Server)
alerts, 864
customizing, 851, 862
development of, 848-849
document libraries, 853, 855
document management, 859-860
document workspace, 863
lists, 863
meeting workspaces, 860-861
new features, 850, 864
Office 2007 integration, 861-862
picture libraries, 855, 863
Shared Document pages, 853-855
shared workspaces, creating, 852
SharePoint Designer, editing via, 867
SharePoint discussions, 857-858
SharePoint lists, 856-857
site directories, 864
sites, customizing, 865-867
surveys, 859
team collaboration, enabling, 851
Web Part tool pane, 865, 868
move mailbox upgrade method, 529, 533
moving
DNS zones to application partitions,
AD forest upgrades (Windows Server 2003 migrations), 475
e-mail, 964
ExMerge, 554-556
mailbox, 552, 554-556
database corruption, 1141
EMC, 626-629
with EMS, 283-284
Exchange Server 2003 migrations, 525-527
Exchange Server migrations, 552-555
operation master roles, AD forest upgrades (Windows Server 2003 migrations), 470-472
public folders, 556-557
MRM (Messaging Records Management), 428
custom managed folders, creating, 448
managed content settings, creating, 449-450
managed folder mailbox policies, 450-451
policies, creating, 448
scheduling Managed Folder Assistant, 452
MSDSS (Microsoft Directory Synchronization Service), 115-120
backing up and restoring information, 119-120
identifying limitations on directory synchronization, 118-119
implementing, 118
installing, 116
mstsc.exe, 718-719
multihomed DNS servers, 142-143
multigorganization Exchange 5.5 migration, 539. See also migration, 539
multiple databases, 87-88
multiple forests, 76, 79
MMS, 82
multiple panes, OWA, 949
multisite Exchange 5.5 migration, 539. See also migration
MV (metaverse namespace), 109
MX (mail exchange record), 139-141

N
name resolution (email), OWA, 978
name server (NS) records, 139
name server records, 139
names, addressing email, 956
namespaces, DNS, 81
naming
cmdlets, 282
DNS
components, 135-138
configuring servers, 150-153

How can we make this index more useful? Email us at indexes@samspublishing.com
need for, 133
requirements, 144, 147-149
resource records, 138-143
servers, 134
SMTP 143-144
troubleshooting, 150
servers, 102

NAS (network attached storage), 1189-1190
agents, event triggering, 1208
content conversion, 1207
content indexing, 1206-1207
data backups, 1208
data restores, 1208
database maintenance, 1207
defining, 1191
disk type, choosing, 1196-1198
definition, 1196
email conversions, MAPI, 1208
exchange servers, consolidating, 1202-1203
fault tolerance, 1200-1201
implementing, 1192-1193
JET database (.edb files), storing, 1205
message tracking, 1208
network connectivity, selecting, 1194-1195
protocol logging, 1208
solution recommendations, 1201-1202
transaction log files (.Log), storing, 1203
volume disks, resizing, 1198

National Association of Securities Dealers 3010 & 3110 (NASD 3010 & 3110), journaling, 634
National Institute of Standards and Technologies (NIST), 308
National Security Agency (NSA), 308
Native Mode
converting, 508-510
Exchange Server 2003 migration, 559
Exchange Server 2007 migrations
converting to, 507-508
deleting directory replication connectors, 508-510
postmigration cleanup, 510
navigation, OWA clients, 948-949, 951, 953
NDS, synchronizing with Active Directory (using services for NetWare), 116-118
.NET Framework 2.0, 177-178
installing, 206, 520
NetWare, synchronizing eDirectory/NDS with Active Directory, 116-118
network configuration documents (backups), 1086
network devices, backup strategy development, 1091
network diagrams, 747
Network Load Balancing (NLB), 149, 1073-1075. See also load balancing
Network Monitor, 1170
network security, implementing on Edge Transport server roles, 367
networks
bandwidth, Outlook deployment considerations, 1020
circuit-switched, telephony, 810
coeexistence, 77
domain-switched networks, telephony, 811
PSTN, telephony, 811
subsystems, performance monitoring, 1176
New cmdlets (Unified Messaging shell commands), 843
New Database Wizard (EMC), 631
New Distribution Group Wizard (EMC), 619
New Dynamic Distribution Group Wizard (EMC), 620-621
New Mail Contact Wizard (EMC), 623-624
New Mailbox Wizard (EMC), 611-612
New profile setting (OCT), 919
New Storage Group Wizard (EMC), 630
NIC (Network Interface Cards), NLB configurations, 1073
NIS users, adding to Active Directory, 129
NIST (National Institute of Standards and Technologies), 308

NLB (Network Load Balancing), 149, 1073-1075
No Service Account (Exchange Server 2003), 551
non-paged pools, 1173
non-Windows client access, 994

Linux/UNIX support
IMAP, 1011
Outlook Express, 997-1001
OWA, 996, 1012
Mac support, 994
client functionality/compatibility table, 996-997
Entourage, 1004-1007
IMAP 1011
Mac OS X Mail, 1001-1003
Outlook Express, 997, 999-1001
OWA, 996, 1012
POP3 functionality, 1011
Remote Desktop for Mac, 995-996
Terminal Server Client for Mac, 1007-1010
Virtual PC, 995-996, 1010
mobile computing support, 1011-1012
non-Windows client access methods, 1010-1012
non-Windows environments, integration
account provisioning (MIIS), 110
applying MSDSS (Novell eDirectory), 115-120
deploying MIIS (Novell eDirectory), 114-115
group management (MIIS), 112
installing, 112
LDAP 120-122
MIIS, 108-110
Novell eDirectory, 113-114
role of MAs (MIIS), 111-112
nonpublic personal information (NPI), 436
notice of proposed rulemaking (NPRM), 434
notification groups, Management Pack, 692
Novell eDirectory, 113-114
deploying MIIS 2003 for identity management with, 114-115
MIIS, deploying, 114-115
MSDSS, applying, 115-120
synchronizing with Exchange Server 2007, 113
Novell GroupWise, Exchange Server 2007 migrations, 500
NPI (nonpublic personal information), 436
NPRM (Notice of Proposed Rulemaking), 434
NS (name server) records, 139
NSA (National Security Agency), 308
Nslookup, troubleshooting DNS, 152-153
ntbackup.exe (backup utility), 652, 1100
Advanced mode, 1100-1102
Exchange server restores (disaster recovery), 1135-1136
Wizard mode, 1100
ntdsutil (defragmentation utility), 511, 653-654
0
OAB (Outlook Address Book), 676
Cached Exchange mode (Outlook), 934
OAL (Offline Address List), 676
object-oriented data handling, EMS (Exchange Management Shell), 606
objectives
Design documents, 54
Migration document, 58
objects, MMS, 82
OCR (Office for Civil Rights), 434
OCS (Office Communications Server), 871-873
OCT (Office Customization Tool)
Apply PRF setting, 919
Configure Cached Exchange mode, 919
Do not configure Cached Exchange mode, 919
Modify profile setting, 919
New profile setting, 919
Office deployments, creating transforms, 1026-1027
Outlook client configuration, 1019
Outlook deployments, 918
Use existing profile setting, 919
Office, transforms (Outlook client configuration), 1020
Office 2003, SharePoint integration, 861-862
Office 2007, MOSS integration, 861-862
Office Communications Server
adding users to, 889
administration, 889
configuring, 883-885
certificates, 885-887
server settings, 891
user settings, 889
How can we make this index more useful? Email us at indexes@samspublishing.com
Office Communications Server

deploying, 881-883
installing, 875
  configuring IIS, 880-881
delegating setup/administrative privileges, 878-880
extending AD schema, 875-876
prepping AD domains, 878
prepping AD forests, 876
installing admin tools, 888
Instant Messenger Filter, 891
starting, 887
validating functionality, 887
Office Customization Tool. See OCT (Office Customization Tool)
Office for Civil Rights (OCR), 434
Office Live Meeting, 871, 874
  development of, 872
installing, 893
  web conferencing, 894
Offline Address Book (OAB), 676
Offline Address List (OAL), 676
offline database maintenance, 669-671
  quarterly database maintenance, 678
offline maintenance, 678. See also maintenance, 678
offline synchronization, Entourage, 1005
OM (Operations Master), seizing, 511
"on behalf of" feature, sending email using (Outlook collaboration), 922-923
one way synchronization, 545
online database maintenance, verifying, 675
opening multiple panes (OWA), 949
operating systems
  optimizing, 86
  patching, 90, 194
    with Windows Software Update Services, 90
  requirements, 75
Windows
  lockdown guidelines, 307
  optimizing Windows Server 2003, 299
  patches/updates, 304
  security templates, 301-303
operation master roles, moving, 470-472

Operations Master (OP), seizing, 511
Operator Console (MOM), 692
optimization, 85
  clustering, 88-89
disk options, 86
documentation, 755-756
  Exchange 5.5 migration, 538-540
  Global Catalog, demoting, 163
migration
  deploying prototype labs, 510-512
  move mailbox upgrade method, 529, 533
  restoring prototype labs, 513
validating documents, 513
MOM, 89
multiple databases, 87-88
operating systems, 86
OWA, slow access, 989
performance
  Active Directory, 1169
  CAS, 1167
databases, 1179-1180
disk subsystems, 1177-1179
Edge Transport servers, 1168
Exchange logs, 1180
Exchange Server, via ongoing maintenance, 1185-1186
general optimizations, 1168
Hub Transport servers, 1167
mailbox clusters, 1166
mailbox servers, 1165-1166
memory subsystems, 1172-1173
Unified Messaging servers, 1168
virtual memory, 1174
providing for server redundancy and, 96-97
servers, 96
VM, avoiding fragmentation, 86
Windows Server 2003, 299
options
  disaster recovery, 52
disks, 86
  email, configuring, 962
Media, deploying domain controllers, 163-164
migration
deploying prototype labs, 510-512
move mailbox upgrade method, 529, 533
restoring prototype labs, 513
validating documents, 513

OWA
calendar, 979-982
Contacts, 986-988
customizing, 972-978
meeting invitations, 984-985
optimizing slow access, 989
security, 988
Task, 985

Reading Pane, 975
recovery, 103
redundancy, 97
Spell Check, 976

Windows
lockdown guidelines, 307
optimizing Windows Server 2003, 299
patches/updates, 304
security templates, 301-303
Windows-based mail clients, 994
Macintosh support, 994-995
OWA functionality, 996-997

Organization Configuration section, EMC, 602
organization names, 102
Organization tab (EMC mail contact properties), 625
OrgPrepCheck tool, 541
OrgPrepCheck utility, 541
OST files, Cached Exchange mode (Outlook), 933
Out of Office assistant, OWA, 972-973
Out of Office rules, OWA, 944
outbound mail routing, internal DNS servers, 150
outlining
built-in Transport agents, 440
changes in Exchange Server 2007, 74-75

Outlook
add-ins, effects on Cached Exchange mode, 935
appointments, categorizing via color, 904
auto account setup, 1015-1016
Autodiscover service, 1015-1016
basic encrypted communications, 378-380
basic features of, 900
Cached Exchange mode, 930-935
Calendars, effects on Cached Exchange mode, 934
certificates, acknowledging, 389
collaboration, 901
calendar sharing, enabling, 921
calendar sharing, internal DNS servers, 150
calendar sharing, Internet display, 925
configuring free/busy time for Internet display, 923-925
group schedules, 928-929
sending contact information, 926-927
sending email “on behalf of” other users, 922-923
sharing information outside company, 923, 925-927
sharing information via public folders, 928
sharing personal information, 921
viewing free/busy time via Internet, 925-926
viewing shared calendars in multiple panes, 920
delgate access, effects on Cached Exchange mode, 934
deploying
administrative installation points, creating, 1024-1025
administrative options, 1033
Administrative templates, 1031, 1033
automating profile settings, 1025
best practices, 1021
client installations, 1028-1030
defining client options, 1019
Exchange Client Policy options, 1031
GPO (Group Policy Objects), creating, 1034
management of, 1022
managing postdeployment tasks, 1040-1041
methods of, 1017
network topology bandwidth considerations, 1020

How can we make this index more useful? Email us at indexes@samspublishing.com
Outlook

OCT, 918
predefined configuration options, 1023-1024
profile generation, 1018-1019
profiles, creating, 1028
remote/mobile client systems, 1021
SMS (Systems Management Server), 1022, 1039-1040
system requirements, 1022-1023
testing, 1035
transforms, creating, 1026-1027
update/patch, management via Group Policies, 1035-1038
email, multiple account management, 906. See also email
Entourage support, 1005
folders, adding, 953
interface, changes to, 901-902
Macintosh support, 994-995
meetings, creating by time zone, 904
OAB, Cached Exchange mode, 934
OCS integration, 873
OCT, 919
OWA
comparisons, 938
similarities to, 902
quick flags, 902-903
RPC over HTTPS, 915
Cached Exchange mode, 933
IIS configurations, 915
Outlook installations, 916-917
server side installations, 915
Windows component installations, 915
RSS feed subscriptions, 907
searches, 905
searching, 971
security, 901
Blocked Senders List, 913
digital signatures, 909, 934
encryption, 909
International List, 913
junk email filters, 911-914
mailboxes, 909-910
S/MIME support, 908
Safe Recipients List, 913
Safe Senders List, 913
security labels, 911
targeting specific messages, 909
web beaconing, 914
sending and receiving digitally signed and encrypted emails, 387-388
Trust Center, 906
version comparisons, 900

Outlook 2003
Safelist Aggregation, 261-263
security, 309
authenticating, 313
blocking attachments, 314
encrypting, 313
Internet access, 312
spam
filtering junk mail, 318-319
tools, 315
web beaconing, 316-317

Outlook 2007
outlining MAPI client access, 84
Safelist Aggregation, 261-263
security, 309
authenticating users, 313
blocking attachments, 314-315
encrypting communications between Outlook and Exchange, 313
Outlook Anywhere, 309-312
user identification, 314

Outlook Anywhere, 85, 105, 309-312
CAS, 571-572

Outlook Email Postmark, 320

Outlook Express
address books, 998
backing up contacts, 1001
migrating, 1001
contact address lists, 998
contacts, backing up in address books, 1001
email, 997
installing, 999
LDAP (Lightweight Directory Access Protocol), 998
Linux/UNIX support, 997-1001
Mac support, 997-1001
Macintosh, configuring, 999-1001
non-Windows client support, 997-1001
passwords, 999
POP, 998
  configuring access, 1000-1001
security, 999
Outlook MAPI, 104
Outlook Web Access. See OWA (Outlook Web Access)
outsourcing, antivirus outsourcing, 352
OWA (Outlook Web Access), 19, 99, 104
access, 1012
accessing Exchange, 85
Active Directory, changing passwords, 978
address books, 943, 964-965
  creating contacts, 986
  deleting contacts, 987
  editing contacts, 986
calendars
  appointments, creating, 980-981
  configuring, 977
  forwarding meeting requests, 984
  meeting requests, creating, 981-982
  recurring appointments/meetings, 982
  replying to meeting requests, 984
views, 979
CAS, 566, 570
clients, 85
calendar, 979-982
Contacts option, 986-988
customizing email features, 964-971
e-mail features, 955, 960-964. See also e-mail
meeting invitations, 984-985
navigating, 948-953
optimizing slow access, 989
options, 972-978
security, 988
Tasks option, 985
user modes, 947
color scheme, customizing, 977
contact views, 986
contacts, 986-988
context menus, 970
date/time formats, 977
development of, 938
email, 951-952
  adding attachments, 958
  addressing, 956-957
  blocking attachments, 988
  categorizing, 970
  creating, 955
  customizing text, 964
  deleting, 961
  forwarding, 960-961
  importance options, 962
  junk email filters, 976
  marking as read/unread, 965
  message classification, 988
  moving to folders, 964
  name resolution, 978
  privacy settings, 976
  reading, 959
  reading attachments, 960
  removing users from To/CC/BCC fields, 957
  replying to, 960-961
  sending, 958
  sending from contacts in, 988
  sensitivity options, 962
  signatures, 974-975
  spam beacon blocking, 988
  spell checking, 968-969, 976
  tracking options, 962
Folder list, 949
functionality, 996-997
Help, 954
Infobar, 950
Log Off button, 955

How can we make this index more useful? Email us at indexes@samspublishing.com
invitations, launching in separate windows, 984
ISA Server, 401
  importing/exporting certificates, 402-405
  publishing rules, creating, 405-411
items per page, configuring, 973
keyboard shortcuts, 971
Linux/UNIX support, 996, 1012
logging off, 955
logins, 955
Mac support, 996, 1012
mail notification pop-up, 949
mailboxes
  folders, creating, 953
  opening another user’s mailbox, 944
message list, 949
middle pane, 949
mobile device management, 940-941
navigating, 950-951
non-Windows client support, 996, 1012
Out of Office assistant, configuring, 972-973
Out of Office rules, 944
Outlook comparisons, 938
property sheets, 967-968
pull-down menus, 950
reading pane, 950, 953
  options, setting, 975
  viewing attachments, 953
regional settings, 944
reminders
  configuring, 977
  dismissing, 985
  preferred reminder times, changing, 984
  receiving, 985
  snooze feature, 985
Rules Editor, 970
Scheduling Assistant, 939
searches, 971
  improvements to, 942
security, 321-324, 988-989
  settings, 948
SharePoint comparisons, 938
SharePoint integration, 940
shortcut bar, 949
sizing panes, 950
slow connection users, tips for, 989-990
task views, 986
tasks, creating, 985
UI, navigating, 948
user modes, 945
  Light Client mode, 947
  Standard Authentication mode, 946-947
XML, 939
OWA certificates, internal CA, 770-774
OWA (Outlook Web Access) rules (Client Access rules), 699
OWA (Outlook Web Access) tab (mailbox features properties), 614
P
packet-switched networks, telephony, 811
paged pools, 1173
pages, Shared Document (actions), 854-855
Palm devices, Entourage support, 1005
panes. See also interfaces
  OWA, sizing, 950
  reading
    options, 975
    OWA, 953
passwords
  Active Directory, changing via OWA (Outlook Web Access), 978
  Active Directory Restore mode password (Windows Server 2003), 1106
  email, modifying, 978
  Outlook Express, 999
  Remote Desktop for Administration, 722
  synchronizing with IDMU, 128
patches, 304-305
  Outlook deployments, Group Policies, 1035-1038
  secure messaging environments, 340
security, 304
servers, 340
patching operating systems, 90, 194
Paths tab (ISA Server), 411
Patriot Act, journaling, 634
PBX (Private Branch Exchanges), telephony, 811, 814
PDCs (Primary Domain Controllers), 156
per-user settings, ActiveSync, 765-766
performance, 85
analyzing, 1161-1164
clustering, 88-89
configuring disk options for, 86-87
disk, predicting, 1199-1200
disk options, 86
documentation, 755-756
improvements to, 1160-1161
MOM, 89
monitoring
disk subsystems, 1175-1176
Exchange Server, 1186
Network Monitor, 1170
network subsystems, 1176
Performance Monitor Console, 1169, 1173
processor usage, 1175
Task Manager, 1171
multiple databases, 87-88
operating systems, 86
optimizing, 1198
Active Directory, 1169
CAS, 1167
databases, 1179-1180
disk subsystems, 1177-1179
Edge Transport servers, 1168
Exchange logs, 1180
general optimizations, 1168
Hub Transport servers, 1167
LUN, 1198-1199
mailbox clusters, 1166
mailbox servers, 1165-1166
memory subsystems, 1172-1173
Unified Messaging servers, 1168
virtual memory, 1174
Unified Messaging monitoring/troubleshooting, 828-836
VM, avoiding fragmentation, 86
Performance Collection rules (Management Pack), 705-706
performance documentation, 755-756
Performance Monitor, troubleshooting DNS, 152
Performance Monitor Console, 1169
memory, 1173
performance monitoring, Management Pack, 684
Performance Reporting rules (Unified Messaging rules), 704
performance tools
EMC toolbox, 642-643
Exchange Server Performance Monitor, 652
Performance Troubleshooter, 652
Performance Troubleshooter, 643, 652
performing scripted installation of Exchange Server 2007, 213-214
perimeter security, establishing with Edge server role, 215
permissions
Active Directory requirements for Exchange Server 2007, 183-184
administrator permissions, Edge Transport server, 370-371
Exchange Organization Administrators Role, 599
Exchange Recipient Administrators Role, 599
Exchange Server Administrators Role, 600
Remote Desktop for Administration, 723
personal address books, migrating, 1001
personalizing
MOSS integration, 862
SharePoint, 862-863
pfmigrate tool, 556-557
PGP (Pretty Good Privacy), 378
phases, upgrades, 36
documentation, 37
initiation, 38-49
pilot, 63-65

How can we make this index more useful? Email us at indexes@samspublishing.com
phases, upgrades

planning, 49-60
prototype, 61-63
phishing, assessing risks, 330
picture libraries
Moss, 855, 863
SharePoint, 855
pilot group, choosing, 64-65
Pilot phase
deploying services to limited number of users, 63-65
upgrades, 63-65
Windows Server migration, 460
pilot test document, 746
piloting phase (SAN/NAS implementation), 1192
Pipeline tracing, troubleshooting Transport agents, 439-440
Pipelining, EMS syntax, 277-278
piping data between commands, EMS, 605
PKI (Public Key Infrastructure), 353, 374
asymmetrical encryption, 376
basic encrypted communications using Outlook, 378-380
CA, 374-375
Certificate Services, 374-375
certificate templates, 377-378
certificates, 377
planning, 375-376
private/public keys, 376
symmetrical encryption, 376
transport-level security, 353
placeholder domain structure, 80
placement, 82
client access points, 84-85
of documentation, 735
of domain catalogs, 95
of domain controllers, 95
environment sizing, 84
GC, 95
GC/DC, 82
of servers, designing, 96

planning, 36
Active Directory infrastructure, 184-188
attachment filtering processing, 250-251
disaster recovery, 754-755
Exchange 5.5 migration, 536-538
for Exchange Server 2007, 73-74
implementation, of Edge Transport servers, 218
for message processing order of Edge services, 218-219
migration
deploying prototype labs, 510-512
move mailbox upgrade method, 529, 533
restoring prototype labs, 513
validating documents, 513
PKI, 375-376
for Remote Desktop for Administration, 717
for Terminal Services, 712
upgrade phase, 49-51
Design documents, 51-54
migration documents, 55-60
pilot, 63-65
prototype, 61-63
Planning phase, 37
Design document, 51
agreeing on design, 55
collaboration sessions, 52
disaster recovery options, 52-53
structure, 53-54
discovery, 49-51
Migration document, 55
project schedule, 55-60
SAN/NAS implementation, 1192-1193
Play on Phone feature (Unified Messaging), 798
Pocket PC access, 1012
Pocket PC, Exchange Server support for, 1011
policies
ActiveSync. See ActiveSync, policies
administrative policies. See administrative policies
auditing, 334-335
audits, 334
creating new security policies for Edge Transport servers, 368-370
security, documentation, 756-757
policy management, Transport agents, 439
political limitations, multiple forests, 79
POP (Post Office Protocol), 1011
access, Outlook Express (Mac), 999-1000
CAS, 575
Outlook Express, 998
configuring access in, 1000-1001
POP3 (Post Office Protocol 3), 105
ISA Server, configuring publishing rules, 413-414
non-Windows client access, 1011
POP3 rules (Client Access rules), 699
populating Active Directory, 508-510
port zoning, 1196
Portal Server (SharePoint), 848-849
ports
NLB configuration, 1073
Unified Messaging assignments, 812
Post Office Protocol 3. See POP3
postmaintenance procedures, 679
postmigration cleanup, 510
postmarks, Outlook Email Postmarks, 320
POTS (Plain Old Telephone System), telephony, 811
power supplies, UPS, 677
power systems, redundancy (SAN/NAS fault tolerance), 1201
PowerShell, 270-271
versus EMS, 275-276
viewing antispam reports, 266-267
PowerShellIDE, 293
PRA (Purported Responsible Address), 237
preferences, Windows-based mail clients, 994
Macintosh support, 994-995
OWA functionality, 996-997
preferred reminder times, changing in OWA (Outlook Web Access), 984
preinstallation checks, 203-205
preparing to install Exchange Server 2007, 200-201
choosing to install a test or production environment, 201
prototyping installation, 201-203
prerequisites for Exchange Server 2007
64-bit architecture, 179-180
EMS, 178
IIS 6.0, 178
MMC, 178
.NET Framework 2.0, 177-178
Windows Server 2003, 178
presence menus, SharePoint, 865
Pretty Good Privacy (PGP), 378
PRF files
Outlook deployments, 1028-1029
Outlook profile generation, 1018-1019
PrimalScript, 293
Primary Domain Controllers (PDCs), 156
primary zones, 136-137
primary-secondary replication, 138
primary-secondary zone transfers, 138
prioritizing
maintenance, 673-677
Transport agents, 439
privacy, email, 976
private keys, 376
Private mode (OWA security settings), 948
procedural documents, 751
procedures. See also documentation
security documentation, 757
processor recommendations, 97
processors, performance monitoring, 1175
production migration/upgrade, 65-66
Windows Server migration, 460
PROFS/SNADS connectors, 538
Prohibit Post At (KB) option (EMC), databases, 632
Prohibit Send and Receive At (KB) option (EMC), databases, 632
project documentation, 736. See also documentation
communication plan document, 739
design and planning document, 737-738
migration plan document, 739-742
pilot test document, 746
prototype lab document, 743-746

How can we make this index more useful? Email us at indexes@samspublishing.com
project documentation

support and project completion document, 746
training plan document, 742-743
project schedule, Migration document (Planning phase), 55-60
Project Schedule and Migration documents, 37
projects, Initiation phase
identifying goals, 40-44
scope of project, 38-40
promoting domain controllers to global catalog, 161-162
property sheets, OWA (Outlook Web Access), 967-968
property sheets, viewing, 968
protecting against spam, 315
blocking read receipts, 320
Exchange Server 2007 antispam features, 315-316
filtering junk mail, 318-319
filtering with Safe Senders and Block Senders, 319-320
Information Rights Management, 321
Outlook Email Postmark, 320
web beaconing, 316-317
Protocol Analysis reports (Message Hygiene Analysis reports), 707
protocol logging, 1208
protocol logs (SMTP logging)
changing paths, 662
configuring maximum age for, 663-664
sizing, 662-663
protocols
logging, 658
SMTP locking down, 364
WEP 729
prototype lab document, 743-746
prototype labs
Exchange Server 2003, 510-513
Exchange Server 2007 migrations, 510
FSOM roles, 511-512
restoring exchange environments, 513
temporary domain controllers, 511
validating/documenting design decisions/procedures, 513
Prototype phase, 37, 61-63
Windows Server migration, 460
prototype phase, upgrades, 61-63
provisioning
accounts, 110
storage groups, with EMS, 285
proxies, DNS, 147-148
presence information, OCS, 873
PST Import tool, Entourage, 1005
PSTN (Public Switched Telephone Networks), telephony, 811
PTE (Page Table Entries), 1173
public folder connection agreements, Exchange Server migrations, 545
Public Folder database, Do Not Permanently Delete Mailboxes... option (EMC), 633
public folders
Cached Exchange mode (Outlook), effects on, 935
connection agreements, 545
integrity checks, isinteg.exe, 654-655
migrating, 556-557
replication, 529-530
verifying, 675
sharing information via (Outlook collaboration), 928
Public Key Infrastructure. See PKI
public keys, 376
Public mode (OWA security settings), 948
Public Name tab (ISA Server), 411
publishing rules, ISA Server
IMAP, 414-415
OWA, 405-407, 409-411
POP3, 413-414
SMTP 416
pull-down menus, OWA, 950
Purported Responsible Address (PRA), 237
puzzle validation, configuring content filtering, 247
Q
quarantined mailbox for captured messages, configuring, 241-242
quarterly maintenance, 678. See also maintenance
recovery (disaster)

Active Directory, 1148
authoritative restores, 1149-1150
global catalog servers, 1152
nonauthoritative restores, 1148-1149
partial authoritative restores, 1150-1152
SYSVOL folder restores, 1152-1153
backup process documentation, 1122
boot failures, 1128-1129
Cluster Service, 1147
complete server failures, 1129
ASR (Automated System Recovery) restores, 1134-1135
boot loader file restores, 1135
manual recovery, 1130-1131
restoring versus rebuilding, 1130
System State restores, 1131-1133
data corruption, 1117-1118
database corruption, 1138
Database Recovery Management tool, 1139
ESEUTIL utility, 1142-1143
flat-file copying, 1139
ISINTEG utility, 1142-1143
moving mailboxes to other onsite servers, 1141
deleted mailbox content, 1116-1117
determining extent of problem, 1115-1116
disk failures, 1127-1128
domain controllers (Windows 2003), 1147
Edge Transport server, 1119
Exchange database file restores, 1136-1138
Exchange environment documentation, 1121
Exchange Server, 1118
Ntbackup.exe (Windows backup utility), 1135-1136
full server recovery process, backups, 1119-1120
Hub Transport server, 1118
IIS (Internet Information Services), 1146-1147
lost data, restoring from backup, 1117
Recovery Console, 1129
recovery process documentation, 1122
recovery storage groups, 1144-1146
server failures, 1117
site failures, 1123
alternate client connectivity methods, 1126
failing back after site recovery, 1125
failing over between sites, 1125
redundant/failover sites, creating, 1124-1125
testing, 1123
Recovery Console (disaster recovery), 1129
recovery options, outlining in Exchange, 103
recovery process documentation (disaster recovery), 1122
recovery storage groups, disaster recovery, 1144-1146
recurring appointments/meetings, OWA calendars, 982
recursive queries, 138
redundancy, 535
designing for, 97
options, 97
servers, 96
redundant backplanes, SAN/NAS fault tolerance, 1201
redundant power systems, SAN/NAS fault tolerance, 1201
redundant sites, creating (disaster recovery), 1124-1125
redundancy, providing for server redundancy, 96-97
regional OWA settings, 944
relationships, servers (AD Global Catalogs), 159
reliability, 22-23, 85
clustering, 88-89
disk options, 86
MOM, 89
multiple databases, 87-88
operating systems, 86
reminders
customizing, 977
e-mail, enabling quick flags, 970
OWA
configuring in, 977
discharging, 985
preferred reminder times, changing, 984
receiving, 985
snooze feature, 985
quick flags as, 903
remote access, 19-20
remote administration, installing (Terminal Services for), 713-714
Remote Administration (HTML), 723-727
installing and enabling, 725-727
remote computing, Outlook deployment considerations, 1021
remote control, Remote Desktop for Administration, 721
remote delivery queues (SMTP Receive Connector), 591
Remote Desktop, 715
Remote Desktop Client, command-line options, 718-719
Remote Desktop for Administration, 607, 716
enabling, 717
enabling remotely, 718
keyboard shortcuts, 720
planning for, 717
security, 720-723
tips for using, 719-720
Remote Desktop for Mac, 995-996
Remote Desktop Protocol (RDP), 716
Remote Desktop tool, 729-730
remote management
MMC, 607
Remote Desktop for Administration, 607
Telnet, 607
Remote Wipe function (ActiveSync), CAS, 570
remotes, scans (MBSA), 336-337
Removable Storage service, media backups, 1111-1112
removing EdgeSync subscriptions, 261
records, mail exchange records, 139-141
replicating public folders
Exchange Server 2003 migrations, 529-530
weekly database maintenance, 675
replication
Active Directory, 156
design, 95
Cluster Continuous Replication, 23
deleting, 508
DNS, 138
Local Continuous Replication, 22
MMS, 82
public folders, 529
verifying, 675
SRS, 550-551
replication topology layout, Active Directory, 95
replying, email (attachments), 960-961
reporting
EMS, 287
event logs, 292
generating largest mail user reports, 287-288
generating user distribution reports, 288-289
rebalancing mailbox distribution, 289-292
spammers, 349
reporting functions, EMS, 275
reporting spammers, antispam measures, 349
reports
Management Pack, 706-709
performance, 755
requirements
Active Directory requirements, 76
for Exchange Server 2007, 180-184
DNS, 144, 147-149
DNS requirements for Exchange Server 2007, 144-146
Exchange version requirements, 76-77
hardware, 75
hardware requirements, 75
for Exchange Server 2007, 179
operating system requirements, 75
Unified Messaging, 808
Reset Connectivity Credentials rules
(Mailbox rules), 703
resetting ActiveSync devices, 785-786

How can we make this index more useful? Email us at indexes@samspublishing.com
Resource DLL (Exres.dll), 1046
resource forests, 76
resource groups, clustering, 1047
Resource Mailbox Wizard, 543
resource records (RRs), 138-1442
resource utilization analysis, weekly database maintenance, 676
resources
for EMS, on the Web, 292
geographic distribution of, 50-51
upgrades, 47
resources required, summarizing in Statement of Work (Initiation phase), 47
response codes, SIP, 844
responsibilities, Migration document, 58
restoring
backup, 652
data, 1208
from backup, 1117
backup strategy development, 1090
Exchange Server 2003, prototype labs, 513
MSDSS, 119-120
restricting logon access, 333
results pane (EMC), 603
E-mail Address Policies tab, 616
filtering data, 604
retirement, legacy Exchange 2000 Servers, 533
retiring domain controllers, AD forest upgrades, 472
Retry Remote Delivery Queue Length performance counter, 700-701
reverse lookup zones, 135
reviewing
event logs, 212
installation logs, 212
message queues, 674
revisions
email, Spell Check feature, 968
Spelling Check, customizing, 976
RFC standards, DNS and SMTP, 145
rights management, Hub Transport servers, 587-588
Rights Management Services (RMS), configuring, 442
risks
assessing, 329-330
Migration document, 58
summarizing, in Statement of Work (Initiation phase), 48
upgrades, 48
RMS (Rights Management Services), configuring, 442
roles
of MAs, 111-112
Migration document, 58-59
OP, 511
of servers. See server roles
of sites, 30
SMTP Categorizer, 169
root certificates, installing on Windows Mobile devices, 774-777
routers, configuration documents (backups), 1086
routine reporting, 755
routing
email, 143
outbound, 150
routing groups, Exchange Server migrations, 502
routing services (Hub Transport servers), 578-579
RPC and Database Performance reports (Metric reports), 707
RPC over HTTPS, Outlook, 915
Cached Exchange mode, 933
IIS configurations, 915
Outlook installations, 916-917
server side installations, 915
Windows component installations, 915
RRs (resource records), DNS components, 138-142
RSS feeds, Outlook subscriptions, 907
RTC (Real-Time Communications)
Communicator client, 874
installing, 892
OCS, 871-873
Office Communications Server
adding users to, 889
administration, 889
configuring, 883-887
configuring server settings, 891
configuring user settings, 889
deploying, 881, 883
installing, 875-876, 878, 880-881
installing admin tools, 888
instant messenger filter, 891
starting, 887
validating functionality, 887
Office Live Meeting, 871, 874
development of, 872
installing, 893
web conferencing, 894
RTP (Real-Time Transport Protocol), telephony, 812
rules, Management Pack, 690, 693
   ActiveSync Connectivity rules, 699
   Client Access rules, 698-699
   Common Components rules, 693-698
   Edge Transport rules, 700
   Event rules, 706
   Hub Transport rules, 701
   Mailbox rules, 702-703
   Performance Collection rules, 705-706
   scenarios, 706
   Unified Messaging rules, 704
Rules Editor (OWA), 970
RUS (Recipient Update Services)
   Exchange Server migrations, 504, 551
S
S/MIME (Secure/Multipurpose Internet Mail Extensions), 387-389
   encryption process, 389
   Outlook support for, 908
   signing process, 388
   transport-level security, 354
safe lists, 319
   OWA, 324
Safe Recipients List (Outlook), 913
Safe Senders, filtering, 319-320
Safe Senders List (Outlook), 913
Safelist Aggregation, implementing for Outlook 2003/2007, 261-263
SAN (storage area networks), 1189-1190
   agents, event triggering, 1208
   content conversion, 1207
   content indexing, 1206-1207
   data backups, 1208
   data restores, 1208
   database maintenance, 1207
   defining, 1190-1191
   disk type, choosing, 1196-1198
   email conversions, MAPI, 1208
   exchange servers, consolidating, 1202-1203
   fault tolerance, 1200-1201
   implementing, 1192-1193
   JET database (.edb files), storing, 1205
   message tracking, 1208
   network connectivity, selecting, 1195-1196
   protocol logging, 1208
   solution recommendations, 1201-1202
   transaction log files (.Log), storing, 1203
   volume disks, resizing, 1198
   zoning, 1196
SAPIEN, 293
Sarbanes-Oxley Act of 2002 (SOX), 438
   journaling, 634
SATA disks, 1197
saving Outlook searches, 905
scalability, 535
   SMTP 149-150
   scaling, 77
   Exchange Server 2007, 77
scans
   antivirus applications, 351
   MBSA, 336-337
SCC (Single Copy Clusters), 1057
   adding second nodes, 1061
   CCR (Cluster Continuous Replication) versus, 1067
   configuring shared storage, 1059
   creating, 1059-1061

How can we make this index more useful? Email us at indexes@samspublishing.com
SCC (Single Copy Clusters)

DTC, creating, 1062
Exchange Server
  advantages of, 1066-1067
  installing on active node, 1062, 1065-1066
  storage configurations, 1066
  operating system preparation, 1058-1059
  requirements for, 1057
scenarios (rules), configuring Management Pack, 706
Schedule tab (ISA Server), 411
schedules, migration, 55-56
scheduling
  automatic database maintenance, 668-669
  mailbox moves, EMC, 628-629
  maintenance, 90, 673-677
Scheduling Assistant (OWA), 939
SCL (Spam Confidence Level), 221
scope
  groups, 170
  journaling rules, 635
  upgrading, 38-43
  upgrading, 44. See also upgrading
scope of projects, Initiation phase, 38-40
scope of work, summarizing in Statement of Work (Initiation phase), 45
scripted installation of Exchange Server 2007, performing, 213-214
scripting, EMS, 606
ScriptInternals, 293
scripts, Management Pack, 691
SCSI disks, 1197
SCW (Security Configuration Wizard), 337-339
SCW template, Edge Transport server roles, 367-368
SDL (Security Development Lifecycle), 328
Search rules (Mailbox rules), 703
searches
  contacts, OWA (Outlook Web Access), 987
  Outlook, 905
  OWA (Outlook Web Access), 971
  improvements to, 942
searching
  Address Book, OWA, 964
  email, 971
secondary zones, 137
  DNS, 136-137
secure email, certificate templates, 377
secure messaging environments, 332
  Windows Server 2003, 332-341
Secure Sockets Layer. See SSL
Secure/Multipurpose Internet Mail Extensions (S/MIME). See S/MIME
secured email communications, implementing, 382
securing
  Outlook 2007, 309
  authenticating users, 313
  blocking attachments, 314-315
  encrypting communications between Outlook and Exchange, 313
  Outlook Anywhere, 309-312
  user identification, 314
  OWA, 321-324
servers
  with security patches and updates, 340
  with security templates, 339
Windows environments, 298-299
  client-based virus protection, 307
  lockdown guidelines, 308
  security patches and updates, 304-307
  security templates, 301-304
  Windows Server 2003 security improvements, 299
  Windows Vista security improvements, 300
Windows for Edge Transport server roles, 366-367
  implementing network security, 367
security
  access to ActiveSync with SSL, 766-767
  forcing SSL encryption for ActiveSync traffic, 774
  installing root certificates on Windows Mobile devices, 774, 776-777
  installing third-party CA on CAS, 767-770
  internal CA for OWA certificates, 770-771, 773-774
Active Directory authentication, 157
changing passwords via OWA, 978
ActiveSync with ISA Server 2006, 778-783
administrative roles, 330-331
application-layer filtering, 398-399
assessing risks, 329-330
audit logging, 656-660
breaches, cost of, 397
client-based virus protection, 307
client-level security, 308-309
clients
  lockdown guidelines, 307
  new features, 308-309
  optimizing Windows Server 2003, 299
  patches/updates, 304
  templates, 301-303
documentation, 756-757
Edge Transport, 148
e-mail, modifying passwords, 978
event codes, 658
events, auditing, 333
Exchange Server 2007 implementation, 89-90
Exchange Server 2007 through administrative policies. See administrative policies
firewalls, importance of, 397-398
groups, 169, 343-344
  administrative policies, 343-344
HTTP traffic, 399-400
implementing, 89-90
importance of in Exchange Server 2007, 327-328
ISA Server, 396
  Action tab, 409
  Alerts tab, 422, 424
  Application Settings tab, 411
  Authentication Delegation tab, 411
  Bridging tab, 411
  connectivity verifiers, 424, 426
  customizing Dashboard, 421
  From tab, 410
General tab, 409
HTTP traffic security concerns, 399-400
IMAP, 414-415
Link Translation tab, 411
Listener tab, 410
logs, 418-420
MAPI, 411-413
messaging security, 401
outlining the need for, 396-399
OWA (Outlook Web Access), 401-411
Paths tab, 411
POP3, 413-414
Public Name tab, 411
Schedule tab, 411
Services tab, 424
Sessions tab, 424
SMTP (Simple Mail Transfer Protocol), 416-417
To tab, 410
Traffic tab, 410
Users tab, 411
Kerberos failure codes, 659
layers, 334
message tracking, 664-667
mobile devices Terminal Services, 727-729
multiple forests, 79
NT Status codes, 660
Outlook. See Outlook, security
Outlook 2003. See Outlook 2003, security
Outlook Express, 999
OWA, 321, 948, 988-989
patches and updates, 304-307
proxies, 147-148
Remote Desktop for Administration, 720-723
secure messaging environments, 332
Windows Server 2003, 332-341
server-level security. See server-level security servers
  antivirus applications, 351
  hardening, 334-337, 343-344
  patches/updates, 340

How can we make this index more useful? Email us at indexes@samspublishing.com
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>spam</td>
<td>347-349</td>
</tr>
<tr>
<td>templates</td>
<td>339</td>
</tr>
<tr>
<td>services</td>
<td>336</td>
</tr>
<tr>
<td>SMTP 147-148</td>
<td></td>
</tr>
<tr>
<td>SMTP logging</td>
<td>661</td>
</tr>
<tr>
<td>EMC, 661-664</td>
<td></td>
</tr>
<tr>
<td>SMTP mail security, 147-148</td>
<td></td>
</tr>
<tr>
<td>Terminal Services, 712-713</td>
<td></td>
</tr>
<tr>
<td>transport-level</td>
<td></td>
</tr>
<tr>
<td>CA, 374-375</td>
<td></td>
</tr>
<tr>
<td>certificates, 377</td>
<td></td>
</tr>
<tr>
<td>locking down SMTP 364</td>
<td></td>
</tr>
<tr>
<td>PKI, 353, 374</td>
<td></td>
</tr>
<tr>
<td>planning PKI, 375-376</td>
<td></td>
</tr>
<tr>
<td>private/public keys, 376</td>
<td></td>
</tr>
<tr>
<td>transport-level security. See transport-level security</td>
<td></td>
</tr>
<tr>
<td>Trustworthy Computing, 328-329</td>
<td></td>
</tr>
<tr>
<td>virus checking, 147-148</td>
<td></td>
</tr>
<tr>
<td>Windows lockdown guidelines, 308</td>
<td></td>
</tr>
<tr>
<td>Windows Server 2003, 299</td>
<td></td>
</tr>
<tr>
<td>Windows Vista, 300</td>
<td></td>
</tr>
<tr>
<td>Security Configuration and Analysis tool, 301</td>
<td></td>
</tr>
<tr>
<td>Security Configuration Wizard (SCW), 337-339</td>
<td></td>
</tr>
<tr>
<td>Security Development Lifecycle (SDL), 328</td>
<td></td>
</tr>
<tr>
<td>security documentation, 756-757</td>
<td></td>
</tr>
<tr>
<td>security events, auditing, 333</td>
<td></td>
</tr>
<tr>
<td>security groups, 169</td>
<td></td>
</tr>
<tr>
<td>security logs, viewing, 658-660</td>
<td></td>
</tr>
<tr>
<td>security standards, 429</td>
<td></td>
</tr>
<tr>
<td>GLBA, 436-438</td>
<td></td>
</tr>
<tr>
<td>HIPAA, 431-436</td>
<td></td>
</tr>
<tr>
<td>ISO/IEC 17799, 429-430</td>
<td></td>
</tr>
<tr>
<td>Sarbanes-Oxley, 438</td>
<td></td>
</tr>
<tr>
<td>security templates, 301-302</td>
<td></td>
</tr>
<tr>
<td>customizing, 303-304</td>
<td></td>
</tr>
<tr>
<td>securing servers, 339</td>
<td></td>
</tr>
<tr>
<td>seizing OM, 511</td>
<td></td>
</tr>
<tr>
<td>selection, components, 96</td>
<td></td>
</tr>
<tr>
<td>Send Connectors (on Edge Transport server), 362-363</td>
<td></td>
</tr>
<tr>
<td>automatic creation of, 359-360</td>
<td></td>
</tr>
<tr>
<td>configuring, 362</td>
<td></td>
</tr>
<tr>
<td>manual creation of, 360</td>
<td></td>
</tr>
<tr>
<td>SMTP connectors, 356-357</td>
<td></td>
</tr>
<tr>
<td>Send Connectors tab, Exchange Management Console, 223</td>
<td></td>
</tr>
<tr>
<td>Send/Receive button (Outlook Cached Exchange mode), 933</td>
<td></td>
</tr>
<tr>
<td>Sender Filter reports (Message Hygiene Analysis reports), 707</td>
<td></td>
</tr>
<tr>
<td>sender filtering, 230-231</td>
<td></td>
</tr>
<tr>
<td>Sender Filtering Agent, 230</td>
<td></td>
</tr>
<tr>
<td>sender filtering policies, 447</td>
<td></td>
</tr>
<tr>
<td>Sender Policy Framework (SPF), 447</td>
<td></td>
</tr>
<tr>
<td>Sender Policy Framework record, creating, 236-238</td>
<td></td>
</tr>
<tr>
<td>sender reputation, 348</td>
<td></td>
</tr>
<tr>
<td>configuring with Exchange Management Shell, 254</td>
<td></td>
</tr>
<tr>
<td>Sender Reputation Agent, 252</td>
<td></td>
</tr>
<tr>
<td>Configuring with Exchange Management Console, 253-254</td>
<td></td>
</tr>
<tr>
<td>Sender/IP Reputation, 252</td>
<td></td>
</tr>
<tr>
<td>configuring, 252-253</td>
<td></td>
</tr>
<tr>
<td>SenderID, 348, 447-448</td>
<td></td>
</tr>
<tr>
<td>configuring with EMS, 239</td>
<td></td>
</tr>
<tr>
<td>Edge Transport servers, 233</td>
<td></td>
</tr>
<tr>
<td>configuring, 234-236</td>
<td></td>
</tr>
<tr>
<td>SenderID Agent, configuring on Edge Transport servers, 238-239</td>
<td></td>
</tr>
<tr>
<td>SenderID Filter reports (Message Hygiene Analysis reports), 707</td>
<td></td>
</tr>
<tr>
<td>sending</td>
<td></td>
</tr>
<tr>
<td>digitally signed and encrypted emails, Outlook, 387-388</td>
<td></td>
</tr>
<tr>
<td>digitally signed email, 389-392</td>
<td></td>
</tr>
<tr>
<td>email, 958</td>
<td></td>
</tr>
<tr>
<td>adding attachments, 958</td>
<td></td>
</tr>
<tr>
<td>configuring options, 962</td>
<td></td>
</tr>
<tr>
<td>deleting, 961</td>
<td></td>
</tr>
<tr>
<td>forwarding, 960-961</td>
<td></td>
</tr>
</tbody>
</table>
modifying text, 964
reading attachments, 959-960
replying, 960-961
encrypted email messages, 392-393
Sendmail, Exchange Server 2007 migrations, 500
sensitivity options (email), OWA, 962
sensitivity, configuring email options, 962
server authentication, certificate templates, 377
Server Build documents, 37
backups, 1085
server build procedure documentation, 747
server builds, 747
standardizing, administrative policies, 346
server configuration documents (backups), 1085
Server Configuration section, EMC, 602
server data, managing in Exchange Security Groups, 598
server failures (disaster recovery), 1117
complete server failures, 1129
ASR (Automated System Recovery) restores, 1134-1135
boot loader file restores, 1135
manual recovery, 1130-1131
restoring versus rebuilding, 1130
System State restores, 1131-1133
server management tasks, 272
server operating systems, considerations for, 97
server roles, 83
CAS, 83
Client Access Server Role, 649
Edge Transport server, 83
Edge Transport Server Role, 648
in Exchange environments, 98-102
Hub Transport server, 83
Hub Transport Server Role, 648-649
identifying, 25-28
Mailbox server, 83
Mailbox Server Role, 649
OCS, 873
Unified Messaging server, 83
Unified Messaging Server role, 649
verifying installation of, 212
Server rules (Common Components rules), 696-697
server-level security, 346
antispam measures, 347-349
protection from viruses, 350-352
servers
antivirus applications, 351
auditing, logging, 658
configuring settings, Office Communications Server, 891
connectors, migrating, 557-559
deleting, 508
designing number and placement, 96
DNS
configuring, 150-153
multihomed, 142
need for, 133
third-party DNS, 134
troubleshooting, 150
types of, 134
UNIX BIND DNS, 134
Global Catalog, 162-164
hardening, 334-337, 343-344
installing, 547-551
mailboxes, migrating, 552, 554-556
management
backup, 652
eseutil utility, 655
ntdsutil utility, 653
Queue Viewer, 652
memory, 97
migration
deploying prototype labs, 510-512
finalizing, 508-510
move mailbox upgrade method, 529, 533
restoring prototype labs, 513
validating documents, 513
multihomed DNS servers, 142-143
naming, 102
optimizing, 96

How can we make this index more useful? Email us at indexes@samspublishing.com
servers

placement, 82, 96
client access points, 84-85
environment sizing, 84
primary-secondary replication, 138
public folders, migrating, 556-557
redundancy, 96
relationships, AD Global Catalog, 159
securing, with security templates, 339
security
patches/updates, 340
templates, 339
server operating system considerations, 97
services, migrating, 557-559
SharePoint Portal, 848-849
spam, 347-349
transport-level security. See transport-level security
upgrade pilot phase, 64
upgrading
Active Directory forests/domains, 540-541
migrating Exchange 5.5, 535
optimizing Exchange 5.5 migration, 538-540
preparing Exchange 5.5 migration, 536-538
Windows Server 2003, optimizing, 299
service (SRV) records, 141
service accounts, Exchange Server migrations, 551
Service Availability reports (Management Pack), 708-709
Service Availability Summary reports (Service Availability reports), 708
Service Level Agreements (Service Level Agreements), 43, 1082-1084
Service Monitoring rules
Client Access rules, 699
Common Components rules, 698
Edge Transport rules, 700
Hub Transport rules, 701
Mailbox rules, 703
Unified Messaging rules, 704
service packs (SPs)
servers, 340
upgrading, 538
services
migrating, 557-559
Exchange Server 2003, 557
security, 336
SharePoint. See SharePoint SRS, 550-551
Services tab (ISA Server), 424
session disconnect, Remote Desktop for Administration, 722-723
sessions, upgrading collaboration, 52
Sessions tab (ISA Server), 424
setup privileges, delegating in Office Communications Server, 878-880
shared calendars (Outlook collaboration), 920-921
Shared Document pages
actions, 854-855
MOSS, 853-855
shared folders, effects on Cached Exchange mode (Outlook), 934
shared workspaces, 852
SharePoint
alerts, 864
customizations, 851
discussions, 857-858
document libraries, 853, 855
document management, 860
document management platform, 851
file uploads, 864
interface, 859
lists
advantages, 863
editing, 863
listing of, 856
viewing, 863
meeting workspaces, 860-861
Office 2003 integration, 861-862
OWA
comparisons, 938
integration, 940
personalizing, 862-863
picture libraries, 855
Portal server, 848-849
presence menus, 865
Site Directory, 864
sites
  customizing, 865
  FrontPage 2003 integration, 867-868
templates, 866
surveys, 864
team collaboration, 851
Team Services, 848-849
technologies, 849
templates, 864
Word Shared Workspaces, 852
SharePoint Designer, SharePoint Server (MOSS), 867
SharePoint discussions, MOSS, 857-858
SharePoint lists, MOSS, 856-857
SharePoint Portal Server (SPS), 848-849
SharePoint Server (MOSS)
  alerts, 864
  customizing, 851, 862
development of, 848-849
document libraries, 853, 855
document management, 859-860
document workspace, 853
lists, 863
meeting workspaces, 860-861
new features, 850, 864
Office 2007 integration, 861-862
picture libraries, 855, 863
Shared Document pages, 853, 855
shared workspaces, creating, 852
SharePoint Designer, editing via, 867
SharePoint discussions, 857-858
SharePoint lists, 856-857
site directories, 864
sites, customizing, 865-867
surveys, 859
team collaboration, enabling, 851
Web Part tool pane, 865, 868
SharePoint Team Services, 848-849
sharing
  information outside company (Outlook collaboration), 923-927
  information via public folders (Outlook collaboration), 928
  knowledge, 735
shell commands, Unified Messaging, 840-842
short message service. See SMS
shortcut bar (OWA), 949
shortcuts (keyboard), OWA, 971
signatures
  email, setting default signatures in OWA, 974-975
  S/MIME, 388-389
signatures, configuring, 974
SilentDelete, 251
Simple Mail Transfer Protocol. See SMTP (Simple Mail Transfer Protocol)
simulation, migration, 511
Single Copy Clusters. See SCC (Single Copy Clusters), 1061
single forests, 76
single member server migrations (Windows Server 2003 migrations), 462-465
single site Exchange 5.5 migration, 539. See also migration
SIP (Session Initiation Protocol)
  basic call example, 845
  methods, 844
  response codes, 844
telephony, 811
  terminology, 843
site connectors, 558
site directories, MOSS, 864
site failures (disaster recovery), 1123
  alternate client connectivity methods, 1126
  failing back after site recovery, 1125
  failing over between sites, 1125
  redundant/failover sites, creating, 1124-1125
site links, planning Active Directory Infrastructure, 187
site membership, planning Active Directory infrastructure, 187

How can we make this index more useful? Email us at indexes@samspublishing.com
Site Replication Service (SRS), 550-551

deleting, Exchange Server migrations, 509

sites
Moss sites, customizing, 865-867
role of, 30
SharePoint
  customizing, 865
  FrontPage 2003 integration, 867-868

size restrictions, email messages, 614

sizing
CAS, 1182
databases, 1179-1180
Edge Transport servers, 1183
environments, 84
Exchange Server, 1177
database sizing/optimization, 1179-1180
memory requirements, 1180-1181
optimizing disk subsystems, 1177-1179
optimizing Exchange logs, 1180
server role-based sizing, 1181-1184
Hub Transport servers, 1182-1183
interfaces, OWA, 950
mailbox servers, 1181-1182
message logs, 666-667
OWA panes, 950
protocol logs (SMTP logging), 662-663
Unified Messaging servers, 1184

SLA (Service Level Agreements), 43, 1082-1084
slow access, optimizing OWA, 989
Slow Transition strategy (Windows Server migration), 461-462
slow-link connection awareness (Outlook Cached Exchange mode), 933

SMS (short message service), 762
Outlook deployments, 1022, 1039-1040
SMTP (Simple Mail Transport Protocol), 85
  Categorizer, 169
clients, 85
DNS, 143
  clients, 144
  and, RFC standards, 145
  ISA Server, 416-417
  locking down, 364
  scalability, 149
  security, 147-148
  server scalability and load balancing, 149-150
SMTP Categorizer, 169
SMTP connectors, 354-355
  connector topology, 355
  how they are created, 357-358
  Hub Transport server connectors, 358-359
    automatic creation of Send Connectors, 359-360
    manual creation of Send Connectors, 360
  Receive Connectors, 356
  Send Connectors, 356-357
SMTP logging, 661-664
SMTP mail routing, 143-144
SMTP mail security, 147-148
SMTP relays, 350
SMTP Receive Connector (Hub Transport servers), 590-591
SMTP Rejection Response, configuring, 249
SMTP Send Connectors, Hub Transport server configurations, 592-593
Snapshooting, SAN/NAS fault tolerance, 1200
SNMP (Simple Network Management Protocol), 104
snooze feature, OWA reminders, 985
SOA (Start of Authority), 139
SOA (Start of Authority) record, 139
soft/hard zoning, 1196
software, RAID sets, 1108
Software Update Services (SUS), 306
  servers, 340
spam. See also antispam
  assessing risks, 330
  filtering
    Entourage, 1004
    junk mail, 318-319
    Outlook security, 911-914
    OWA, 976
protection against, 315
  blocking read receipts, 320
Exchange Server 2007 antispam features, 315-316
filtering junk mail, 318-319
filtering with Safe Senders and Block Senders, 319-320
Information Rights Management, 321
Outlook Email Postmark, 320
web beaconing, 316-317
reporting, 349
servers, 347-349
tools, 315
Web beaconing, 316-317
spam beacon blocking, OWA, 988
Spam Confidence Level (SCL), 221
spam quarantine, 348
  configuring, 242
Spamhaus Project, 224
Spell Check, email, 968
spell checking email, OWA, 968-969, 976
Spelling Options, 976
SPF (Sender Policy Framework), 447
SPF (Sender Policy Framework) records, 235-238
spreadsheet data, SharePoint list of, 856
SPs (service packs), servers, 340
SPS (SharePoint Portal Server), 848-849
SQL 2000, installing MIIS, 112
SRS (Site Replication Services)
  deleting, 509
  Exchange Server migrations, 550-551
SRV (service) records, 141
SSL (Secure Sockets Layer)
  forcing SSL encryption for ActiveSync traffic, 774
  securing access to ActiveSync, 766-767
Statement of Work document, 37
stability, 535
stand-alone root CA, 375, 771
stand-alone subordinate CA, 375, 771
standalone servers, upgrading (Windows Server 2003 migrations), 464-465
Standard Authentication mode (OWA), 946-947
Standard version, 76
standardizing server builds, administrative policies, 346
standards
  implementing, industry standards and guidelines, 336-337
  security standards, 429
    GLBA, 436-438
    HIPAA, 431-436
    ISO/IEC 17799, 429-430
    Sarbanes-Oxley, 438
Start of Authority (SOA), 139
Start of Authority (SOA) record, 139
starting EdgeSync synchronization, 261
state monitoring, Management Pack, 685
Statement of Work, creating in Initiation phase, 44-49
STM databases, 502
storage
  Active Directory
    authentication, 157
    domains, 155
    DSAccess, 166
    DSProxy, 168
    forests, 155
    functionality, 169-172
    Global Catalog, 159-160, 162-164
    replication, 156
    SMTP Categorizer, 169
    trees, 155
    universal group caching, 164-165
  data. See NAS, SAN
  LCR storage groups, recovering, 1076-1077
  SCC configurations, 1066
storage groups, 87-88
  creating, EMC, 629-630
  design, 102
  layout, determining, 102
  LCR, 1098
  provisioning with EMS, 285
storage limits, databases, 632
Storage Quotas tab (mailbox settings properties), 613
storing
  JET database (.edb files), NAS/SAN, 1205
  transaction log files (.log), NAS/SAN, 1203
storing data, Unified Messaging, 825
Strip, 251
structure, Design document (Planning phase), 53-54
stub zones, 137
Submission Queue Length performance counter, 700-701
submission queues (SMTP Receive Connector), 590
subnets, associating with sites, 186-187
Subscriber Access feature (Unified Messaging), 796-797
subscriber access numbers, associating to dial plans (Unified Messaging), 816
subscribing
to RSS feeds in Outlook, 907
servers to Exchange Server 2007 organization with EdgeSync, 258
subscription files, creating new EdgeSync subscription files, 260
subscriptions, removing EdgeSync subscriptions, 261
summarizing, Statement of Work (Initiation phase)
budgets, 48
goals, 45-46
resources required, 47
risks and assumptions, 48
scope of work, 45
timelines and milestones, 46
support, upgraded environments, 66
support and project completion document, 746
surveys
  MOSS, 859
  SharePoint, 864
SUS (Software Update Services), 306
  servers, 340
switches, configuration documents (backups), 1086
symmetrical encryption, 376
synchronization
  MIIS, 108-110
  account provisioning, 110
  group management, 112
  installing, 112
  role of MAs, 111-112
  offline, Entourage, 1005
synchronizing
directory information with MIIS 2003, 108
eDirectory/NDS with Active Directory using services for NetWare, 116-118
Exchange Server 2007 with Novell eDirectory, 113
passwords, with IDMU, 128
user information between AD and UNIX, 128-129
syntax, 276
System Attendant rules (Mailbox rules), 703
system caches, 1173
system failover documentation, 755. See also documentation
system failures, backup strategy development, 1089-1090
system PTE (Page Table Entries), 1173
System state
  complete server failures, restoring (disaster recovery), 1131-1133
  Windows Server 2003, backups, 1105
system volume failures (disaster recovery), 1127
system volumes, backups, 1105
Systems Management Server (SMS), 1022
deploying Outlook, 1017
T
T.38 (Real-Time Facsimile Transport Protocol), telephony, 812
task assignments (backup strategy development), 1090-1091
Task Manager, performance monitoring, 1171
Task option, OWA, 985

tasks
diagnostic tasks, 272
maintenance, verifying, 675
organizational management tasks, 272
OWA, 985-986
recipient management tasks, 271
server management tasks, 272
SharePoint list of, 856

TCS (Transactions and Code Sets), 432
TDM (Time-Division Multiplexing), telephony, 811
team designations (backup strategy development), 1090-1091
Team Services (SharePoint), 848-849
technical training documentation, 758
technical reporting, 756. See also documentation
technologies, SharePoint, 849

telephony
circuit-switched networks, 810
circuits, 810
hunt group objects, Unified Messaging, 802
hunt groups, 814
Unified Messaging, creating in, 820-822
IP/PBX (Internet Protocol/Private Branch Exchange), 810
IP/VoIP gateways, 810, 814
packet-switched networks, 811
PBX, 811, 814
POTS, 811
PSTN, 811
RTP, 812
SIP, 811
basic call example, 845
methods, 844
response codes, 844
terminology, 843
T.38, 812
TDM, 811
Unified Messaging, 810-811
installation prerequisites, 813-814

Unified Messaging integration, 794
VoIP, 811

Telnet, 607
templates
adding to certificate servers, 384
security, 301-304
servers, 339
SharePoint, 864
development enhancements, 866
temporary prototype domain controllers, 511
Terminal Server Client for Mac, 1007-1008
installing, 1009-1010

Terminal Services, 711-712
access, Remote Desktop, 715
accessing, with web-based clients, 714-715
accessing 32-bit Windows RDP clients, 714
installing for remote administration, 713-714
licenses, 713
mobile devices, 727
securing, 727-729
planning considerations for, 712
Remote Desktop, 715
remotely connecting to a terminal server console, 715-716
security, 712-713

Terminal Services Client, Macintosh, 1007-1008
functionality, 1008-1010

Test cmdlets (Unified Messaging shell commands), 842
Test-UMConnection cmdlet, United Messaging, monitoring/troubleshooting, 827
testing, 36. See also Prototype phase
backup strategies, 1092
databases, 655
disaster recovery, 62
disaster recovery plans, 1123
Exchange Server migrations, 517-518
free disk space, 674
Outlook deployments, 1035
Unified Messaging, 824-825
UPS (Uninterruptible Power Supply), monthly database maintenance, 677

text, email, 964
third-party antispam products, antispam measures, 349
third-party antivirus products, 351-352
third-party CA, installing on CAS, 767-770
third-party DNS, 134
third-party functionality, 78
third-party product functionality, identifying, 78
time zones, meetings, creating by (Outlook), 904
time/date formats, OWA (configuring in), 977
timed logoffs, OWA security, 989
timelines
  Migration document, 59
  summarizing, in Statement of Work (Initiation phase), 46
  upgrades, 46
Tip of the Day feature (EMS), 607
TLS (Transport Layer Security), 18
  transport-level security, 354
To fields (email), removing users from (OWA), 957
To tab (ISA Server), 410
Toolbox (EMC), 602, 638
  Configuration Management Tools section, ExBPA, 639-640
  Database Recovery Tools section, 640
tools
ADC, 541-547
ADClean, 510
dnscmd utility, troubleshooting DNS, 154
DNSLINT, troubleshooting, 153
EMC
  disaster recovery tools, 651-652
  ExBPA, 651, 677
  mail flow tools, 652
  Mail Flow Tools section, 640-642
  performance tools, 652
  Performance Tools section, 642-643
ExMerge, 554-556
Ipconfig, troubleshooting DNS, 151
maintenance
  backup, 652
  best practices, 670-671
  eseutil utility, 655
  managing, 679-680
  ntdsutil utility, 653
  postmaintenance procedures, 679
  Queue Viewer, 652
  scheduling best practices, 673-677
MBSA, 336-337
ntdsutil, 511
OrgPrepCheck, 541
pfmigrate, 556-557
Security Configuration and Analysis, 301
spam, 315
topologies
  Active Directory, replication, 95
diagrams, 749
topology diagrams, environment documentation, 749
tracking
  backups, 1087
  email, 963
  user access, audit logging, 656-660
tracking logs, messages, 1208
tracking options (email), OWA, 962
Traffic tab (ISA Server), 410
training
  documentation, 757-758
  Migration document, 59
Training and Support phase (Windows Server migration), 481
training documentation, 757-758
training plan, Migration document, 59
training plan document, 742-743
transaction log files (.log), storing, 1203
Transactions and Code Sets (TCS), 432
transfers, DNS zones, 138
transforms
Outlook client configuration, 1020
Outlook deployments
client installations, 1028-1030
creating for, 1026-1027
profiles, creating, 1028

transport agents, 350, 439
Edge Transport server role, 446-448
Hub Transport role, 440
e-mail disclaimers, 445-446
journaling and mail retention policies, 442-445
RMS, 442
Transport rules agents, 441-442
outlining, 440
prioritizing, 439
role in policy management, 439
troubleshooting, with Pipeline tracing, 439-440

transport dump feature (Hub Transport servers), CCR, 1056

Transport Layer Security (TLS), 18
transport-level security, 354

transport pipelines
Exchange Server performance, improvements to, 1161
Hub Transport servers, 589

Transport rules
Edge Transport rules, 700
Hub Transport rules, 701

Transport rules agent, 441-442

transport rules agent (Hub Transport servers), 580
rules, creating, 580-581

Transport Rules tab, Exchange Management Console, 224

transport-level security, 352
encrypting email communications, 352-353
PKI, 353, 374
CA, 374-375
certificates, 377
planning, 375-376
private/public, 376

S/MIME, 354
SMTP locking down, 364
TLS, 354
trees, Active Directory, 155
trend analysis, Management Pack, 686
tripple mirroring, SAN/NAS fault tolerance, 1200

troubleshooting
Database Troubleshooter, 640, 651
disaster recovery, documentation, 754-755
DNS, 150
dnscmd, 154
DNSSLINT, 153
Event Viewer, 151
ipconfig utility, 151-152
nslookup, 152-153
Performance Monitor, 152
documentation, benefits of, 734-736
Mail Flow Troubleshooter, 640, 652
maintenance
best practices, 670-671
scheduling best practices, 673-677
MSDSS, 118-120
OWA, 954
Performance Troubleshooter, 643, 652
postmaintenance procedures, 679
postmigration cleanup, 510
servers
antivirus applications, 351
spam, 347-349
spam, 315
filtering junk mail, 318-319
Web beaconing, 316-317

tools
backup, 652
eseutil utility, 655
ntdsutil utility, 653
Queue Viewer, 652
Transport agents, Pipeline tracing, 439-440
Unified Messaging
active calls, 827
connectivity, 827

How can we make this index more useful? Email us at indexes@samspublishing.com
troubleshooting

event logs, 836-840
performance monitors, 828-836
VM, avoiding fragmentation, 86
Windows Server 2003, 334-337, 343-344
troubleshooting documents, 751
Trust Center (Outlook), 906
trusted scripts, EMS, 606
Trustworthy Computing, 297-298, 328-329
Tsmmc.msc, 715
two way synchronization, 545
two-line view (OWA), 952
types
of groups, Windows, 169
of servers, DNS, 134

UC (unified communications)
Communicator client, 874
installing, 892
development of, 872
OCS, 872-873
Office Communications Server
adding users to, 889
administration, 889
configuring, 883-887
configuring server settings, 891
configuring user settings, 889
deploying, 881, 883
installing, 875-881
installing admin tools, 888
Instant Messenger Filter, 891
starting, 887
validating functionality, 887
Office Live Meeting, 874
installing, 893
web conferencing, 894
UI (user interface), navigating OWA, 948-953
UM Connectivity rules (Unified Messaging rules), 704
UMIP gateway objects, Unified Messaging, 801
Unattended mode, 213-214

Unified Messaging, 21-22
audio codecs, 807
Auto Attendant, 798, 803-804
auto attendants, creating, 819-820
call answering, 795
components of, 799
data storage, 825
dial plan objects, 800-801
dial plans
associating auto attendants with, 819-820
associating servers with, 819
associating subscriber access numbers to, 816
creating, 816
linking IP gateways to, 817-818
removing servers from, 840
faxes, 796
hunt group objects, 802
hunt groups, creating, 820-822
Inbox, 795
installing, 813-815
IP/VoIP gateways, 809
IP gateways, 817-818
mailbox policy objects, 803
mailboxes, enabling, 822
monitoring/troubleshooting
active calls, 827
connectivity, 827
event logs, 836-838, 840
performance monitors, 828-836
operating system requirements, 808
Play on Phone feature, 798
port assignments, 812
shell commands
Add/Remove cmdlets, 840-841
Copy cmdlets, 843
Enable/Disable cmdlets, 842
Get/Set cmdlets, 841
New cmdlets, 843
Test cmdlets, 842
Subscriber Access feature, 796-797

telephony, 810-811
circuit-switched networks, 810
circuits, 810
hunt groups, 814
installation prerequisites, 813-814
IP/BPX (Internet Protocol/Private Branch Exchange), 810
IP/VoIP gateways, 810, 814
packet-switched networks, 811
PBX (Private Branch Exchanges), 811, 814
POTS (Plain Old Telephone System), 811
PSTN (Public Switched Telephone Networks), 811
RTP (Real-Time Transport Protocol), 812
SIP (Session Initiation Protocol), 811, 843-845
T.38 (Real-time Facsimile Transport Protocol), 812
TDM (Time-Division Multiplexing), 811
VoIP (Voice over Internet Protocol), 811

telephony integration, 794
testing, 824-825
UMIP gateway objects, 801
unified messaging server objects, 805
user properties, 806
Web Services, 806

Unified Messaging servers
backups, 1096
Exchange Server 2003 migrations, 529
optimizing, 1168
sizing, 1184
Unified Messaging tab (mailbox features properties), 814
universal group caching, 164-165
universal groups, 171

UNIX
components of services, 124
development of services, 123-124
installing services for UNIX R2, 125-128
prerequisites of services, 124-125
synchronizing user information between Active Directory, 128-129

UNIX BIND DNS, 134

UNIX desktops, Exchange Server support for
Outlook Express, 997-1001
OWA, 996, 1012
UNIX R2, installing services for, 125-128
UNIX systems, integrating with Active Directory and Exchange Server 2007, 122-123
Unreachable Queue Length performance counter, 700-701
unread, marking email messages, 965
unread/read, marking email as (OWA), 965
unsupported connectors, 559
updates. See also migration
backup documentation, 1086
link state updates, Exchange Server migrations, 503
Outlook deployments, Group Policies, 1035-1038
security, 304
security patches and updates, 340
servers, 340
Windows Update, 304, 340
WSUS, 340-341

updating
operating systems, 194
Windows 2003 Server Automatic Updates, 90

How can we make this index more useful? Email us at indexes@samspublishing.com
upgrading, 36, 65-66. See also migration
Active Directory
  forests, separate forests to single forests
  (Windows Server 2003 migrations), 476-481
  schema upgrades (Windows Server 2003
  migrations), 467-468
decommissioning the old Exchange
environment, 66
documentation, 37
domain controllers, AD forest upgrades
  (Windows Server 2003 migrations), 469
domain functional levels, AD forest upgrades
  (Windows Server 2003 migrations), 472-475
Entourage, 1005
Exchange 5.5, 535
  Active Directory forests/domains, 540-541
  optimizing migration, 538-540
  preparing migration, 536-538
from earlier versions of Microsoft Windows,
188-190
forest functional levels, AD forest upgrades
  (Windows Server 2003 migrations), 469
in-place upgrades versus new hardware migra-
tions (Windows Server migrations), 461
initiation phase, 38
goals, 39-44
  statement of work, 44-49
migration, move mailbox upgrade method,
529, 533
pilot phase, 63-65
planning phase
  Design documents, 51-54
  discovery, 49-51
  migration documents, 55-60
production migration/upgrade, 65-66
prototype phase, 61-63
service packs, 538
standalone servers (Windows Server 2003 migra-
tions), 464-465
  supporting the new environment, 66
uploading files, SharePoint, 864
UPN (user principal name), 81
UPS (Uninterruptible Power Supply), testing, 677
Use existing profile setting (OCT), 919
user access, tracking, audit logging, 656
  event auditing, 657
  viewing security logs, 658-660
user accounts, migrating (Windows Server migra-
tions), 489, 493
user certificates, creating to group policies to distrib-
ute, 384-385
user identification, Outlook, 314
user interface (UI), navigating OWA, 948-953
user modes (OWA), 945-947
user principal name (UPN), 81
user properties, Unified Messaging, 806
username mapping, synchronizing between Active
Directory and UNIX, 128
users
  adding to, Office Communications Server, 889
  authenticating, in Outlook, 313
  configuring settings, Office Communications
  Server, 889
  end-user training documentation, 758
MIIS, 108-110
  account provisioning, 110
  group management, 112
  installing, 112
  role of MAs, 111-112
modes, OWA clients, 947
  property sheets, viewing, 968
Users tab (ISA Server), 411
utilities
  ipconfig, troubleshooting DNS, 151-152
  ntdsutil, 511
  Remote Desktop, Terminal Services access, 715
V
validating
  backup strategies, 1092
  backups, 1087
    full server recovery process (disaster recov-
    ery), 1120
  certificates, 385-387
documents, migration, 513
Migration document, 63
Office Communications Server functionality, 887
OrgPrepCheck tool, 541
verification
verifying
Active Directory, Global Catalog, 162
backups, daily database maintenance, 673-674
creation, of global catalog, 162
maintenance tasks, 675
MMC 3.0 is installed, 206
online database maintenance tasks, weekly database maintenance, 675
OrgPrepCheck tool, 541
public folder replication, 675
server roles, 212
VeriSign, 378
versions, 76
decommissioning, 66
doctor, Exchange, determining, 102
Exchange Server 2003
Enterprise Edition, 12, 515
Standard Edition, 11, 515
doctor, Exchange Server 2007, 11-12
installing, 102
LDAP implementing, 121-122
video conferencing, OCS, 873
viewing
antisap reports with PowerShell scripts, 266-267
collection menus, 970
e-mail, modifying viewing order, 952
Event Viewer, logs, 674
Queue Viewer, 652
reading pane (OWA), 953
SharePoint lists, 863
user property sheets, 968
views, calendars, 979
virtual memory, 1172
optimizing, 1174
virtual memory fragmentation issues, avoiding, 86
Virtual PC, 995-996, 1010
virus checking, 147-148
Virus Scanning Application Programming Interface (VSAPI), 103
viruses. See also antivirus
assessing risks, 330
client-based virus protection, 307
server-level security, 350-352
VM (virtual memory), avoiding fragmentation, 86
VoIP (Voice over Internet Protocol), telephony, 811
VPN access, 19
VSAPI (Virus Scanning Application Programming Interface), 103
VSS (Volume Shadow Copy Service), 1104-1107
W
WAN connection documents (backups), 1086
Warning Message Interval option (EMC), 632
Web beaconing, 316-317, 914
protecting against, 316-317
web beaconing, disabling in OWA, 323-324
web conferencing
OCS, 872
Office Live Meeting, 894
Web Part tool pane (MOSS), 868
sites, customizing, 865
Web Services, Unified Messaging, 806
Web Services rules (Client Access rules), 699
web-based clients, accessing Terminal Services, 714-715
weekly database maintenance, 675-676
weekly maintenance, 675. See also maintenance
WEP (Wired Equivalent Protocol), 729
WhatIf, EMS syntax, 278
wildcards, address rewriting, 256
Windows
groups, 169
non-Windows environment integration
account provisioning (MIIS), 110
applying MSDSS (Novell eDirectory), 115-120
deploying MIIS (Novell eDirectory), 114-115
group management (MIIS), 112

How can we make this index more useful? Email us at indexes@samspublishing.com
installing MIIS, 112
LDAP 120-122
MIIS, 108-110
Novell eDirectory, 113-114
role of MAs (MIIS), 111-112
securing for Edge Transport server roles, 366-367
administrator permissions, 370-371
creating new security policies, 367-370
implementing network security, 367
SCW template, 367-368
securing Windows environments, 298-299
client-based virus protection, 307
lockdown guidelines, 308
security patches and updates, 304-307
security templates, 301-304
Windows Server 2003 security improvements, 299
Windows Vista security improvements, 300
security
lockdown guidelines, 307
patches/updates, 304
templates, 301-303
upgrading from earlier versions of, 188-190
Windows 2003, domain controllers, 1147
Windows 2003 Group Policy, deploying Outlook, 1017
Windows backup utility. See ntbackup.exe (backup utility)
Windows certificate of authority, installing, 380
Windows group types, 169
Windows Management Instrumentation, 110
Windows Mobile, 762
Windows Mobile 5.0 Device Emulator, 789-790
Windows Mobile devices, installing root certificates, 774-777
Windows Mobile Pocket PC, 786-788
Windows Mobile Smartphone, 786-789
Windows Mobile, Exchange Server support for, 1011
Windows NT 4.0 domain, upgrading from, 189
Windows Server 2000, migrating to Windows Server 2003
Active Directory forest upgrades, 465-475
“Big Bang” versus Slow Transition strategies, 461-462
combining Active Directory forests, 476-481
consolidating/migrating domains, 481-489, 493-495
Exchange Server 2007 in native functional level domains, 458
in-place upgrades versus new hardware migrations, 461
migration options, 462
migration requirements, 457-459
phases of, 460
single member servers, 462-465
Windows Server 2000 Active Directory, upgrading from, 189-190
Windows Server 2003
antivirus applications, 351
backup, 652
backups
Active Directory Restore mode password, 1106
System State, 1105
VSS (Volume Shadow Copy Service), 1104-1107
Certificate Services, 374-375
Exchange Server migrations, 518
installing, 190-192
migrating to
Active Directory forest upgrades, 465-470, 472-475
“Big Bang” versus Slow Transition strategies, 461-462
combining Active Directory forests, 476-481
consolidating/migrating domains, 481-489, 493-495
Exchange Server forest functional level requirements, 459
FSMO roles, 458
in-place upgrades versus new hardware migrations, 461
migration options, 462
migration requirements, 457-459
phases of, 460
single member servers, 462-465
optimizing, 299
prerequisites for Exchange Server 2007, 178
secure messaging environments, 332
auditing policies, 334-335
auditing security events, 333
implementing industry standards and guidelines, 336-337
keeping services to a minimum, 336
layered approach, 332-333
locking down the file system, 336
MSA, 336
physical security considerations, 333
restricting logon access, 333
securing servers with security templates, 339
Security Configuration Wizard, 337-339
security patches and updates, 340-341
security, 339-340
security improvements, 299
troubleshooting, 334, 336-337, 343-344
Windows Server 2003 Active Directory, 171-173
Windows Server 2003 Automatic Updates, 90
Windows Server 2003 Service Pack 1, installing, 192-194
Windows Server Group Policies, Outlook deployments (update/patch management), 1035-1038
Windows Server Group Policy
Outlook client configuration, 1019
Outlook deployments
Exchange Client Policy options, 1031
managing, 1022
Windows Server Update Services (WSUS), 306-307
Windows Software Update Services, patching operating systems, 90
Windows Update, 304, 340
servers, 340
Windows Vista, security improvements, 300
Windows-based mail clients, 994
Macintosh support, 994-995
OWA functionality, 996-997
wiping ActiveSync devices, 785-786
Wired Equivalent Protocol, 729
Wizard mode (Ntbackup.exe), 1100

wizards
CIW, creating transforms, 1026-1027
Connection Agreement, 544-547, 550
Mailbox Resource Wizard, 543
Microsoft Sender ID Framework SPF Record Wizard, 236
New Database Wizard (EMC), 631
New Distribution Group Wizard (EMC), 619
New Dynamic Distribution Group Wizard (EMC), 620-621
New Mail Contact Wizard (EMC), 623-624
New Mailbox Wizard (EMC), 611-612
New Storage Group Wizard (EMC), 630
Security Configuration Wizard, 337-339
WMI (Windows Management Instrumentation), 110
Word, creating shared workspaces, 852
workspaces
meeting, SharePoint, 860-861
Word Shared Workspaces, 852
WSS (Windows SharePoint Services), 848-850
WSUS (Windows Server Update Services), 306-307, 340-341
WWW (World Wide Name) zoning, 1196
X
X.500 directory services, 120
x64-bit hardware, Exchange Server migration, 501
x64-bit platforms, 16-17
XML (Extensible Markup Language)
EMS (Exchange Management Shell), 606
OWA (Outlook Web Access), 939
XML files, Management Pack, 688
Y
Yahoo!, OCS connectivity, 873
Z
zone transfers, DNS components, 138
zones
Active Directory-integrated zones, 136
DNS, 135-137
transfers, 138

How can we make this index more useful? Email us at indexes@samspublishing.com
zones

DNS components, 135-137
forward lookup zones, 135
primary zones, 136-137
reverse lookup zones, 135
secondary zones, 137
stub zones, 137
zoning, 1196