

# Index

## A

- 
- Accelerators, BizTalk, 390–391
  - Access control lists (ACLs), 194
  - Accessibility
    - disability options, 301
    - portal features for, 21
  - Accounts
    - creating user, 27–28
    - creating user profiles when opening, 220–224
    - Network Service user, 197
    - registration methods. *see* Registration methods
  - ACLs (access control lists), 194
  - ACT (Application Center Test), 496
  - Actional adapters, 376
  - Actions, BizTalk, 389
  - Active Directory
    - importing user profiles from, 236
    - .NET portal integration with, 65
    - scalability, 481
    - username restrictions, 230
  - Adapters
    - BizTalk, 380–381
    - SharePoint integration, 376
  - Administrators
    - ASP.NET benefits, 111
    - creating areas in SharePoint, 353
    - document library configuration, 412–414
    - self-service site configuration, 426
    - SharePoint Central Administration, 408
    - user profiles and, 232–233
  - Advancement of Structured Information Standards (OASIS), 83
  - Advertising, 273–278
  - Air Force portal, 32–33
  - Alerts
    - discussion board, 404
    - document library, 415–416
    - enterprise portal, 16
    - generated by subscriptions, 262–265
    - SharePoint, 265–268
    - SQL Server Notification Services, 268–272
    - WSS (Windows SharePoint Services), 401, 402
  - Amazon.com, 30–31
  - America Online (AOL), 6
  - Analysis tools, user profiles, 244–250
  - Anonymous access
    - enabling on public websites, 315–316
    - security, 27
    - tracking users, 233–235
  - Anonymous authentication, IIS, 169
  - AOL (America Online), 6
  - APIs (application programming interfaces), 269, 289
  - Application Center Test (ACT), 496
  - Application domains, .NET Framework, 108–109
  - Application programming interfaces (APIs), 269, 289
  - Application servers, scalability, 481–484
  - Applications
    - distributed, 361–362
    - infrastructure planning, 34–36
    - line-of-business. *see* LOB (line-of-business applications) integration
    - portal features, 21
    - security design for, 193
  - Architecture
    - Content Management Server, 288–290
    - scalability, 473, 478–479

## 500 Index

---

### Architecture (*Continued*)

- search engine, 437–438
- SharePoint, 399–400
- SharePoint search, 464–465, 485
- SQL Notification Services, 269–270
- user profile, 216

Architecture, portal, 113–117

- achieving high availability, 471
- attributes of, 20–21
- business services layer, 116
- data services layer, 117
- database, 117
- n-tiered, 113
- presentation services layer, 114–116

Area table, .NET, 125

Areas

- adding person to, 357–359
- categorizing content, 444–445
- creating in SharePoint, 351–356
- SharePoint architecture, 400

Arrays, 106

ASCII file format, 71

ASP (Active Server Pages), 110–111

ASP.NET

- authentication, 175–180
- optimization, 494–495
- overview of, 110–111
- personalization with CMS, 260–261
- presentation services layer, 114
- process identity, 183–184
- templates stored in, 298
- workflow email notification, 314–315

Assemblies, .NET Framework, 99–100, 186

Asynchronous communications, 380, 427

Attributes, taxonomy, 341–342

Audiences, SharePoint

- managing, 240–242
- personalization and, 267–268
- SharePoint architecture, 400

Authentication. *see also* IIS (Internet Information Services)

- application integration, 35
- authorization process, 166
- digital certificates. *see* Digital certificates
- extranets, 316–319
- forms-based, 179–181, 317–318
- intranets, 316

- none, 180

- overview of, 164, 175
- for Passport, 177–179
- portal framework, 119
- portal user security, 27
- selecting implementation for, 193–194
- Windows, 176

Author, content management, 310–311

Authoring Connector, MCMS, 289

### Authorization

- authentication process, 166
- overview of, 164–165
- security design and, 194
- URL, 197

Automated business processes, 365

Automated taxonomy, 347–348, 349

Availability, 471

## B

---

B2B (business-to-business) systems, 363, 364

B2G (business-to-government) systems, 363

Base Class Library (BCL), .NET Framework, 97, 100–101

Base control object, 139–141

Base page object, 138–139

Basic authentication, IIS, 169–170

Basic Meeting Workspace site, 420

BCL (Base Class Library), .NET Framework, 97, 100–101

BeBi (business-to-business integration), 70

### Best bets

- defined, 440

- keyword, 458–462

- stages in approval process, 459

Binomial nomenclature, 332–333

Bitpipe Website, 220

BizTalk, 379–390

- adapters, 380–381

- BizTalk Editor, 386–387

- BizTalk Mapper, 387–388

- BizTalk Orchestration Designer, 388–389

- channels, 382–383, 386

- defined, 62

- document tracking, 390

- hybrid scalability in, 479

- interfaces with custom code vs., 377
    - messaging ports, 382–384
    - overview of, 379–380
    - scaling up search solution in, 485–489
    - server administration, 70, 389–390
    - SPS integration with, 374–376, 402
    - workflow, 384–386
  - BizTalk Editor, 386–387
  - BizTalk Mapper, 387–388
  - BizTalk Messaging Management database, 487–488
  - BizTalk Orchestration Designer, 388–389
  - Blank Meeting Workspace site, 420
  - Blank site, 420
  - BLL (business services layer), .NET architecture, 116
  - Boilerplate text, 271
  - Boxing, 107–108
  - Breadcrumb trails, 34, 147–151
  - Breadth, taxonomy, 345–346
  - BroadVision, 3
  - Browsers, 50–51
  - Business, 64, 217–219, 359
  - Business Desk, Commerce Server, 245–249, 273–278
  - business services layer (BLL), .NET architecture, 116
  - Business-to-business (B2B) systems, 363, 364
  - Business-to-government (B2G) systems, 363
- C**
- 
- C++ developers, 103–104
  - Caching
    - ASP.NET optimization, 494
    - ISA Server 2000 and, 191
    - personalization with CMS, 260–261
  - Calendars, 403
  - Campaign Manager, Commerce Server, 274
  - CAS (code access security)
    - code evidence, 186
    - code permissions, 186–188
    - overview of, 184–186
  - Catalogs
    - catalog expressions, 275–276
    - creating, 350–351
    - infrastructure planning, 38
  - Categories
    - attributes/properties associated with, 341–342
    - automated tools for creating, 347–349
    - in CMS, 349
    - in Commerce Server, 350–351
    - context specificity in, 344
    - human analysts creating, 348–349
    - overview of, 341
    - rules for, 342–343
  - Certificates
    - authentication with, 171–173
    - extranet security, 319
  - Channel Manager program, 313–315
  - Channels
    - adding approvals to, 312–313
    - BizTalk, 382–383, 386
    - CMS categories and, 349
    - defining, 302–305
    - overview of, 291–293
  - Class inheritance, 116
  - Class library, .NET Framework, 100–101
  - Classes, .NET Common Type System, 106
  - Classification systems. *see* Taxonomy
  - CLR (Common Language Runtime), 98–99
  - Cluster Service, 490
  - Clustering
    - online information on, 483
    - overview of, 477–478
    - SQL Server, 489–490
  - CMS (Content Management Server). *see also* MCMS (Microsoft Content Management Server) 2002
    - categories in, 349
    - integrating SPS with, 432–434
    - as key element of .NET portal, 62
    - personalization with, 260–261
  - Code
    - .NET Framework managed, 101–102
    - creating minimal portal framework, 134–137
  - Code access security. *see* CAS (code access security)
  - COFF (Common Object File Format), 101
  - Collaboration, 393–434
    - additional resources, 434
    - authoring tools, 394
    - defined, 394

**502**     **Index**

- Collaboration (*Continued*)  
discussion boards, 404–406  
document management. *see* Document management  
features checklist, 395–396  
human side of, 397–398  
online conferencing, 426–431  
overview of, 393–394  
project teams, 417–425  
self-service sites, 425–426d  
SharePoint version 2 paradigm, 398–400  
sites for, 402–404  
SPS and WSS, 401–402  
SPS integration with CMS, 432–434  
tools, 40–41, 53  
web parts and, 431–432
- COM (Component Object Model)  
ASP and, 110  
ASP.NET optimization, 495  
data exchange with, 72–73  
garbage collection and, 103
- Commerce Server 2002  
advertising based on user profiles, 273–278  
analysis tools, 244–249  
categories in, 350–351  
extending basic profile, 230–231  
hybrid scalability, 479  
infrastructure planning, 38–39  
MCMS and, 290  
profile information, 226–230  
scalability, 482–483  
self-registration with, 224–226  
tracking anonymous/authenticated users, 233–235
- Common Language Runtime (CLR), 98–99  
Common Object File Format (COFF), 101  
Common Object Request Broker Architecture (CORBA), 72–73  
Common Type System (CTS), .NET Framework, 104–108  
Communication, data transmission, 71–72  
Component Object Model. *see* COM (Component Object Model)  
Componentization, 65
- Conferencing, online, 426–431  
Live Communications Server 2003, 428–430  
Office Live Meeting, 430–431  
overview of, 426–427  
Windows Messenger and, 427–428
- Configure Search and Indexing page, SPS, 443–444
- Consistency, taxonomy, 345
- Construction phase, MSF, 284, 285
- Consumer portals, 6–9
- Content  
categorizing with Topic Assistant, 444–445  
framework, 287  
indexes, 439  
properties of crawled, 445–447
- Content Connector, MCMS, 289
- Content management, 279–330. *see also* CMS (Content Management Server); MCMS (Microsoft Content Management Server) 2002  
approval process, 299–302  
channels, 302–305  
content creation and migration, 287  
creating, 299–302  
customizing, 281, 329–330  
Microsoft Solutions Framework, 282–285  
multilingual sites, 305–306  
.NET integration, 320–322  
Office group, 53  
options, 280–282  
overview of, 25–26  
portal features, 21  
relational database containing, 36  
return on investment for, 280  
security, 287  
in SharePoint, 323–329  
site testing, 287–288  
site vision, 285–286  
taxonomy and container hierarchies, 286  
templates, 287, 297–299  
web services integration, 322–323

- Content Management Server. *see* CMS (Content Management Server)
  - Content Repository, MCMS, 289
  - Content sources
    - adding, 452–455
    - defined, 439
    - managing, 449–453
    - scheduling updates of, 456
  - Content, personalizing
    - in Content Management Server, 260–261
    - creating, 252–253
    - notification planning, 270–271
    - SharePoint “publicization” of data, 260
    - SharePoint personal pages, 254–259
    - within SharePoint web part, 259–260
  - ContentSelector objects, 277
  - Context specificity, taxonomy, 343–345
  - Control property table, .NET, 130
  - Control table, .NET, 128–129
  - Controls
    - adding definitions/content to database, 155–159
    - breadcrumb trail, 147–151
    - dynamically loading user, 151–155
    - enterprise portal, 16
    - menu, 141–146
  - Cookies, 233–235
  - CORBA (Common Object Request Broker Architecture), 72–73
  - Corporate portals, 14
  - Costs
    - Electronic Data Interface, 72
    - enterprise application integration, 391–392
    - Microsoft’s competitive pricing policy, 113
    - portal projects and, 66–67
    - scaling out BizTalk server, 488
    - SharePoint Portal Server, 56
  - Crawlers, search engine, 438–441, 445–447
  - CRM (customer relationship management), 51, 376
  - Cross-platform integration, 36
  - CTS (Common Type System), .NET Framework, 104–108
  - Custom authentication, 319
  - Custom code, 376–379
  - Customer relationship management (CRM), 51, 376
  - Cycle, personalization, 251–252
- ## D
- Data
    - formatting, 70–71
    - portal features, 20–21
    - relational database containing, 36
    - standards, 36
    - structured, 336–337
    - transmission, 71–72
    - unstructured, 337–338
  - Data model, portal framework, 122–131
  - Data services layer, .NET architecture, 117
  - Databases
    - adding template/page information to, 155
    - infrastructure planning, 36–37
    - .NET portal architecture, 117
    - SQL Notification Services, 269–271
    - storing/reading connection information, 137–138
    - structured data, 336–337
  - DCOM (Distributed Component Object Model)
    - data exchange with, 72–73
    - drawbacks of, 77–78
    - SOAP vs., 74–75
  - Debugging, BizTalk, 389
  - Decision Meeting Workspace site, 420
  - Decision support systems (DSS), 14–15
  - Delegates, 106
  - Deployment
    - .NET Framework, 98
    - web services, 84
  - Depth, taxonomy, 345
  - Developer productivity, 98
  - DHTML (dynamic HTML), 276
  - Digest authentication, IIS, 170–171, 197
  - Digital certificates
    - authentication, 171–173

## 504 Index

- Digital certificates (*Continued*)  
 extranet security, 319
- Disabilities Act, 301
- DISCO (Discovery Protocol), 81–82
- Discussion boards, 404–406
- Discussion groups, alerts, 267–268
- Discussions  
 inline, 401  
 managing in collaboration, 415–417  
 threaded, 394, 401  
 Windows SharePoint Services, 401
- Disk configuration, SQL Server, 491
- Distributed applications, 361–362
- Distributed Component Object Model. *see*  
 DCOM (Distributed Component Object  
 Model)
- Distributed transactions, 36
- Distributors, SQL Notification Services, 270
- Document cards, 343, 344
- Document discussions, 415–417
- Document library, 403, 410–415
- Document management, 406–417  
 overview of, 406–407  
 process, 410–415  
 user roles, 407–408  
 users, 408–410  
 Windows SharePoint Services and, 401
- Document metadata, 343
- Document Object Model (DOM), 366
- Document Workspace site, 420
- Documents, BizTalk tracking, 390
- DOM (Document Object Model), 366
- Domain Name restrictions, IIS, 173–174
- Domain names, restrictions, 173–174
- Dot syntax convention, 100
- DSS (decision support systems), 14–15
- Dynamic HTML (DHMTL), 276
- E**
- 
- EAI (enterprise application integration)  
 accelerators and third-party tools,  
 390–391  
 benefits of, 391–392  
 BizTalk. *see* BizTalk  
 concepts of, 364–367  
 custom code approach, 376–378  
 defined, 361  
 InfoPath forms, 371–374  
 Office forms, 368–371  
 overview of, 362–363  
 SharePoint server and, 374–376  
 SPS vs. WSS, 402  
 web forms, 367–368
- Easley, Michael, 13–14
- eBay, 9
- EDI (Electronic Data Interface)  
 data exchange with, 72  
 integration and, 365  
 limitations of, 363
- Editing, crawled content, 445–447
- Editors, content management, 311–312
- Elaboration phase, 283–285
- Electronic Data Interface. *see* EDI  
 (Electronic Data Interface)
- Email  
 online conferencing vs., 427  
 online registration, 220–224  
 workflow notification by, 313–315
- Enterprise application integration. *see* EAI  
 (enterprise application integration)
- Enterprise portals  
 “publicization” of personal data, 260  
 advertising on, 274  
 collaboration in. *see* Collaboration  
 overview of, 14–18  
 self-services of, 18–19
- Enterprise Resource Planning (ERP),  
 362–363, 376
- Enterprise software group, 57–58
- E-permitting offers, 12–13
- ERP (Enterprise Resource Planning),  
 362–363, 376
- Errors, 379
- Event registration, 18–19
- Event viewer, 389
- Events  
 defined, 261  
 notifications triggered by, 263–264  
 SQL Notification Services, 269–272
- Evidence, code, 186
- Excel, 368–369
- Exceptions, 495
- Exchange 2000 Server, 467–468
- Expression Builder, 276

Expression-based targeting, 275–277  
Extensibility, 118  
Extensible markup language. *see* XML  
(extensible markup language)  
Extranets  
    enabling security, 316–319  
    registration methods, 219

## F

FAQ (frequently asked questions), 404  
Federation, 493  
File types, managing, 447–449  
Filters  
    IFilters, 441  
    search, 440  
Finalize method, 104  
Financial transactions, infrastructure, 38–39  
Firewalls, 73  
Folders, channel storage, 291  
Format files, 71  
Formatting, content, 301  
Forms  
    authentication, 179–181, 317–318  
    InfoPath, 371–374  
    Office, 368–371  
    web, 367–368  
Framework  
    content management sites. *see* Site  
    framework, content management  
    defining, 96–98  
    MCMS sites, 291–295  
    portal framework. *see* Portal framework,  
    .NET  
Frequently asked questions (FAQs), 404  
FTP (File Transfer Protocol), 71–72

## G

G2G (government-to-government) system,  
363  
GAC (global assembly cache), 100  
Gadgets, 16–18, 54  
Garbage collector (GC), 97, 102–104  
Gatherer, search engine, 439–441  
GC (garbage collector), 97, 102–104

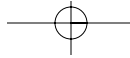
Generator, SQL Notification Services, 270  
Gizmos, 16  
Global assembly cache (GAC), 100  
Global variables, 234–235  
Government portals, 11–14, 273–274  
Government-to-government (G2G) systems,  
363  
Groups  
    demo site security, 200–202  
    identifying key user, 217–219  
    IsInRole function failure, 212

## H

Hardware  
    distributed applications, 362  
    scaling out BizTalk server, 488  
    scaling up BizTalk server, 486–487  
Header files, 71  
Horizontal scaling. *see* Scalability, scaling out  
Host Integration Server, 377  
Hosting, for scalability, 496–497  
HTML (HyperText Markup Language), 110  
HTTP (Transport) security  
    BizTalk messaging ports with, 382, 384  
    delivering notifications with, 272  
    Web services authentication, 182  
Human taxonomy, 348, 349  
Hybrid scalability, 478–489  
HyperText Markup Language (HTML), 110

## I

IBM WebSphere, 111–113  
IDE (integrated development environment),  
64  
IDeliveryProtocol interface, 272  
Identities, 194  
IDisposable interface, 104  
IEC (International Electrochemical Commis-  
sion), 429–430  
IFilters, 441, 447–449  
IHTTPProtocolProvider interface, 272  
IIS (Internet Information Services), 167–174  
    Anonymous authentication, 169  
    Basic authentication, 169–170



## 506 Index

---

IIS (Internet Information Services) (*Continued*)  
 certificates, 171–173  
 Digest authentication, 170–171  
 Integrated Windows authentication, 171  
 IP Address and Domain Name Restrictions, 173–174  
 overview of, 167–169  
 Windows enhancements to, 197

Impersonation, 165, 194

Inception phase, 282–283, 285

Index Server, 42

Indexing  
 business rules for, 449–550  
 engines, 441  
 extending search functionality, 465–467  
 file types management, 447–449  
 scaling up search solution, 463–465, 484–485  
 updating indexes, 440  
 viewing general status of, 443

Indexing Service, 442–443, 467–468

InfoPath forms, 371–374

Information portals, 14

Information targeting, 402

Inheritance, 116, 121

Inline discussions, 401

Integrated development environment (IDE), 64

Integrated voice response (IVR), 42

Integrated Windows authentication, IIS, 171, 316

Integration  
 Jupiter project, 64  
 line-of-business. *see* LOB (line-of-business applications) integration  
 .NET, 320–322  
 SPS with BizTalk Server, 402  
 SPS with CMS, 432–434  
 web services benefits, 92  
 Windows SharePoint Services and Office, 401

Interfaces  
 CLS supported, 106  
 controlling modules on portal page through, 121  
 Office group, 53  
 user. *see* UI (user interface)

International Electrochemical Commission (IEC), 429–430

Internet  
 enabling security on, 315–316  
 influence on cooperation, 69–70

Internet Information Services. *see* IIS (Internet Information Services)

Internet Security and Acceleration (ISA) Server 2000, 190–192

Internet Server API (ISAPI), 289

Interoperability  
 CLR supporting, 99  
 Jupiter project, 64  
 .NET Framework, 98

Intranets  
 defined, 5  
 enabling security on, 316  
 Microsoft, 59–60  
 registration methods, 219

IP Addresses, IIS restrictions, 173–174

IPlacement interface, 121

ISA (Internet Security and Acceleration) Server 2000, 190–192

ISAPI (Internet Server API), 289

IsInRole function, 212

ITheme interface, 121

IUnknown interface, 103

IUSR\_<MACHINE NAME> account, 169

IVR (integrated voice response), 42

## J

---

J2EE, 111–113  
 Java, 111–113  
 Jupiter project, 64–65

## K

---

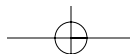
Kerberos, 171

Keywords, 458–463  
 adding best bets, 460–462  
 creating, editing, deleting, 462–463  
 managing, 459–460  
 overview of, 458  
 stages in approval process, 459  
 Topic Assistant and, 444–445

Knowledge management, 15–16

Knowledge portals, 14

Knowledge representation, 339–340





**L**

Languages, multilingual sites, 305–306  
LDAP (Lightweight Direct Access Protocol), 231  
Licenses  
    InfoPath forms, 372  
    Office forms, 371  
    SharePoint Team Services and, 56  
Lifetime, channel, 305  
Line-of-business applications. *see* LOB (line-of-business applications) integration  
Linguistic analysis, 347  
Links, 451  
Linnaeus, Carolus, 332  
Live Communications Server 2003, 428–430  
Load balancing, 477  
LOB (line-of-business applications) integration, 361–392  
    accelerators and third-party tools, 390–391  
    BizTalk concepts and workflow. *see* BizTalk  
    concepts, 364–367  
    custom code, 376–379  
    InfoPath forms, 371–374  
    Office forms, 368–371  
    overview of, 361–364  
    SPS and EAI, 374–376  
    web forms, 367–368  
Localization, 31  
Login. *see* Registration methods  
Logs, Live Communications Server, 429

**M**

Maintenance procedures, 471–472  
Management  
    content. *see* Content management  
    document. *see* Document management  
    memory, 97, 102–104, 486  
    project, 394, 404  
    SPS vs. WSS, 402  
Mapping, BizTalk Mapper, 387–388  
MCMS (Microsoft Content Management Server) 2002, 307–315  
    authors, 310–311  
    channels, 291–293, 302–305  
    defined, 281–282  
    editors and moderators, 311–312  
    email notification, 313–315  
    features, 26  
    multilingual sites, 305–306  
    .NET integration, 320–322  
    overview, 288–290  
    portal site, 295–297  
    resource galleries, 294–295  
    scalability, 481–482  
    scalability, 479  
    security, 315–319  
    SharePoint integration with, 329  
    site framework, 291–295  
    subscribers, 312–313  
    template designers, 308–310  
    template galleries, 293–294  
    templates, 297–299  
    web services integration, 322–323  
    workflow, 307–308  
Memory management  
    BizTalk scalability, 486  
    defined, 97  
    overview of, 102–104  
Menu controls, 141–146  
Message-oriented middleware (MOM), 365  
Messaging ports, BizTalk, 382–384  
Messaging, Office group, 53  
Metadata  
    areas in SharePoint, 352  
    crawled content properties, 445–447  
    document, 343  
    relational database containing, 36  
    searching unstructured data with, 338  
Microsoft  
    Application Center Test, 496  
    collaboration platform, 396  
    Commerce Server 2002. *see* Commerce Server 2002  
    Component Object Model. *see* COM (Component Object Model)  
    Distributed Component Object Model. *see* DCOM (Distributed Component Object Model)  
    Enterprise software group, 57–58  
    Excel, 368–369  
    Exchange 2000 Server, 467–468

**508 Index**Microsoft (*Continued*)

Host Integration Server, 377  
 Indexing Service, 442–443  
 Live Communications Server 2003, 428–430  
 Office. *see* Office  
 Outlook. *see* Outlook  
 Passport, 177–179  
 portal strategy. *see* Portals, Microsoft  
 SDK (Software Development Kit), 178  
 search technology, 438, 467–468  
 SharePoint Team Services. *see* STS (SharePoint Team Services)  
 Solution for Intranets, 52  
 Topic Assistant, 444–445  
 user accounts and, 27–28  
 Windows authentication. *see* Windows authentication  
 Windows Messenger, 427–428  
 Windows servers. *see* Windows servers  
 Windows SharePoint Services (WSS), 56–57, 399  
 Windows XP. *see* Windows XP  
 Word. *see* Word

Microsoft Content Management Server. *see* MCMS (Microsoft Content Management Server) 2002

Microsoft Intermediate Language. *see* MSIL (Microsoft Intermediate Language)

Microsoft Management Console (MMC), 187–188

Microsoft Network. *see* MSN (Microsoft Network)

Microsoft Solution for Internet Business (MSIB), 60

Microsoft Solutions Framework (MSF), 282–285

microsoft.com, 59

Microsoft.NET alerts, 265

Migration, 178, 473

MIME (Multipurpose Internet Mail Extensions), 366

Mixed authenticationmode  
   SQL Server security, 190  
   Windows authentication mode vs., 189

MMC (Microsoft Management Console), 187–188

Moderators, 311–312

ModuleControl class, 120–122

MOM (message-oriented middleware), 365

MS Expense, 60

MSF (Microsoft Solutions Framework), 282–285

MSIB (Microsoft Solution for Internet Business), 60

MSIL (Microsoft Intermediate Language)  
   Common Language Runtime and, 99  
   forming assemblies with, 100  
   running managed code, 101

MSN (Microsoft Network)  
   Messenger, 428  
   overview of, 60  
   web-searching portal, 6, 8

Multichannel support, 41–42

Multilingual sites, 305–306

Multipage Meeting Workspace site, 421

Multipurpose Internet Mail Extensions (MIME), 366

My Page personalization, 259–260

My Site, SPS  
   adding web parts to, 257–259  
   defined, 421  
   modifying web parts, 255–257  
   SPS vs. WSS, 402  
   toggling views in, 260  
   web parts and, 254–255

**N**

Namespaces, .NET Framework, 100–101

Naming conventions, channels, 303

Navigation  
   breadcrumbs, 147–151  
   channels, 291–293  
   menu controls, 141–146  
   taxonomy creating, 31–34

.NET  
   ASP vs., 110–111  
   defining framework, 96–98  
   integration, 35, 320–322  
   Java vs., 111–113  
   Microsoft's portal strategy, 66, 67  
   operating system requirements, 62  
   overview of, 96  
   Passport passwords, 27–28

.NET Framework, 98–109  
 application domains, 108–109  
 assemblies, 99–100  
 Base Class Library, 100–101  
 benefits of, 97–98  
 Common Language Runtime, 98–99  
 Common Type System, 104–108  
 defined, 97  
 garbage collection/memory management, 102–104  
 portal framework. *see* Portal framework, .NET  
 running managed code, 101–102  
 runtime hosts, 109

Network Service user accounts, 197

Noise files, editing, 465–466

Notification  
 defined, 261  
 generated by subscriptions, 263–265  
 SQL Notification Services, 268–272  
 workflow email, 313–315

NS (Notification Services), SQL, 268–272

NTFS (NT file system), 476

n-tiered architecture, 113, 379

NTLM authentication, 171

## O

OASIS (Advancement of Structured Information Standards), 83

Office  
 forms, 368–371  
 group, 52–57  
 InfoPath forms, 371–374  
 Live Meeting, 430–431  
 product group, 52–57  
 SharePoint added to, 67  
 Windows SharePoint Services integration with, 401  
 XP, 467–468

Offline work  
 InfoPath forms, 372  
 Office forms, 368  
 web forms not supporting, 369

OLTP (online transaction processing) database, 379

Online conferencing. *see* Conferencing, online

Online information  
 accelerators, 391  
 Application Center Test, 496  
 ASP.NET vs. ASP, 111  
 BizTalk adapters, 381  
 BizTalk scalability, 486  
 Cluster Service, 490  
 collaboration, 434  
 Commerce Server 2002, 228, 482  
 government accessibility guidelines, 301  
 Indexing Service, 443  
 Microsoft Passport, 178  
 Microsoft Solutions Framework, 282  
 MSIB, 60  
 Office Live Meeting, 430  
 portal definitions, 2–5  
 scalability, 474, 497  
 scaling out with SQL Server, 494  
 search technology, 438  
 SPS and WSS, 402  
 UDDI, 83  
 Windows Messenger download, 427  
 WSDL, 81  
 XML/XSL with SQL Server/.NET Framework, 141

Online transaction processing (OLTP) database, 379

Ontology, 339–340

OOD (object-oriented design), 77

OOP (object-oriented programming), 97

Operating systems  
 Microsoft strategy, 52, 62  
 scalability, 480–481

Optimization, 479–480

Oracle, 4

Outlook  
 Office Live Meeting and, 430  
 personalized web parts in, 260  
 sequential searches, 437  
 Today, 55

## P

Page control property table, .NET, 130–131

Page control table, .NET, 129

Page hierarchy table, .NET, 128

## 510 Index

- Page load event
  - breadcrumbs, 148–150
  - menu controls, 143–145
- Page relation table, .NET, 128
- Page table, .NET, 126–127
- Page type table, .NET, 127
- Pages
  - adding definitions to database, 155
  - SharePoint architecture, 400
- Panes, portal page, 120
- Partitioned data, 493
- Partner Services, 232
- Passport, Microsoft, 177–179
- Passwords
  - handling forgotten, 223–224
  - user accounts and, 27–28
  - user profiles, 220
- PCs (personal computers), 41–42
- PDA's (personal digital assistants), 41–42
- Pending keyword best bets, 459
- Performance
  - IIS, 197
  - .NET Framework, 98
  - portal framework, 119
  - scalability planning and, 473
  - scaling out and, 477–478
  - scaling up and, 476
  - SQL Server, 489
  - testing, 495–496
- Permissions
  - code, 186–188
  - Windows Server 2003 enhancements, 198
- Personal computers (PCs), 41–42
- Personal digital assistants (PDAs), 41–42
- Personalization, 251–278
  - advertising based on profiles, 273–278
  - Alerts. *see* Alerts
  - content, 252–253
  - with Content Management Server, 260–261
  - cycle, 251–252
  - defining, 251
  - infrastructure planning for, 30–31
  - notifications. *see* Notification
  - portal features for, 21
  - SharePoint “publicization” of data, 260
  - SharePoint personal pages, 254–259
  - SharePoint web part, 259–260
  - subscriptions. *see* Subscriptions
- Persons, adding to areas, 357–359
- Placeholders, MCMS, 298–299, 310
- Placeware, 427
- Platform independence, 92
- Plumtree
  - overview of, 54–55
  - portal definition, 3
  - sample gadgets in, 16–18
- Pocket PCs. *see* PCs (personal computers)
- Portal framework, .NET
  - base control, 139–141
  - base page, 138–139
  - breadcrumbs, 147–151
  - content control, 155–158
  - creating code, 134–137
  - creating SQL Server stored procedures, 131–134
  - data model, 122–131
  - database connection information, 137–138
  - database template/page information, 151–155
  - defining goals, 118–119
  - defining modules, 120–122
  - further implementations for, 159–160
  - identifying benefits, 119–120
  - loading user controls dynamically, 151–155
  - menu controls, 141–146
  - overview of, 117–118
  - running, 158
- Portals
  - achieving high availability, 471
  - application integration, 34–36
  - attributes of, 20–21
  - benefits of, 19–20
  - business services layer, 116
  - collaboration tools, 40–41
  - consumer, 6–9
  - data services layer, 117
  - database, 117
  - database and other repositories, 36–37
  - definitions of, 2–5
  - enterprise, 14–19
  - fitting web services into, 85–86
  - government, 11–13

- look-and-feel of, 24–26
  - Microsoft, 60–63
  - multichannel support, 41–42
  - n-tiered, 113
  - personalization, 30–31
  - presentation services layer, 114–116
  - prioritizing, 46–48
  - profile data, 226–230
  - rise of, 1–2
  - search engine, 42–43
  - security, 27–28
  - solution requirements table, 43–46
  - taxonomy, 31–34
  - transaction support, 37–39
  - user profiles, 28–29
  - vertical, 9–11
  - web-searching, 6
  - Portals, Microsoft, 49–68
    - approach of, 66–67
    - Enterprise software group, 57–58
    - Jupiter project, 64–65
    - migration, 66
    - Office group, 52–57
    - perspective of, 50–52
    - portal elements, 60–63
    - top sites, 59–60
  - Portlets, 16
  - Ports
    - BizTalk messaging, 384–386
    - DCOM and CORBA security risks, 73
  - Presence awareness
    - defined, 394, 429
    - online conferencing and, 427
    - Windows SharePoint Services, 401
  - Presentation services layer, .NET architecture, 114–116
  - Principals, .NET, 165
  - Print quality
    - Office forms, 369, 370–371
    - web forms, 368
  - Prioritizing, portal elements, 46–48
  - Process identity, ASP.NET, 183–184
  - Processors, BizTalk scalability, 486
  - Production Manager, MCMS, 311–312
  - Profiles, user. *see* User profiles
  - Project management, 394, 404
  - Project teams, 417–425
    - creating site, 417–418
    - features of SharePoint sites, 421–422
    - surveys and, 422–425
    - types of SharePoint sites, 418–421
  - Properties
    - adding to profiles, 228–229, 236, 238–239
    - crawled content, 445–447
    - taxonomy and, 341–342
  - Properties, MCMS
    - authors specifying page, 311
    - channels, 303–304
    - page, 301–302
    - placeholders, 298–299
  - Protocol handlers, 439
  - Proxy server. *see* ISA (Internet Security and Acceleration) Server 2000
  - Publishing APIs, 289, 322
  - Publishing, InfoPath forms, 373
- ## R
- 
- RAID (redundant array of independent disks)
    - controller, 491
  - Ranking, 441
  - Real-time collaboration, 394
  - Redundant array of independent disks (RAID) controller, 491
  - Reference types, CTS, 105–107
  - RegisteredUserTable, 230
  - Registration methods
    - adding elements to profiles, 226–230
    - overview of, 219–220
    - self-registration for user profiles, 220–224
    - self-registration with Commerce Server 2002, 224–226
  - Relational database, 36–37
  - Reports, Commerce Server 2002, 245–249
  - Research technology, Microsoft, 438
  - Resolution, 288
  - Resource galleries, MCMS, 294–295
  - Resources, security design, 194
  - Return on investment, 280
  - Roles
    - document management and user, 407–408
    - personalization with CMS, 260–261

**512**     **Index**

- Roles (*Continued*)
    - selecting types of, 195–196
  - RTC (real-time communications), 57
  - RTP (Real-time Transport Protocol), 429
  - Rules
    - content, 449–450
    - taxonomies based on, 347
  - Runtime Host, .NET Framework, 109
- 
- S**
- 
- Scalability, 471–498
    - application servers, 481–484
    - ASP.NET optimization, 494–495
    - hosting for, 496–497
    - hybrid approach, 478–489
    - information on, 497
    - .NET portal framework, 119
    - overview of, 471–472
    - performance testing, 495–496
    - planning for, 472–474
    - scaling out, 476–479, 488–489, 493–494
    - scaling up, 463–465, 474–476, 478–479, 484–489
    - search functionality, 463–465
    - server operating system and, 480–481
    - SharePoint Portal Server v1 and, 56
    - SQL Server database repository, 489–494
  - Scaling out
    - BizTalk Server, 488–489
    - hybrid approach, 478–479
    - overview of, 476–478
    - SQL Server, 493–494
  - Scaling up
    - hybrid approach, 478–479
    - overview of, 474–476
    - search solution, 463–465, 484–488
  - Scheduling
    - managing, 456
    - Office group, 53
    - searches, 456
    - subscriptions, 270
  - Scopes, search, 439–440, 456–457
  - SDK (Software Development Kit), 178
  - Search engines, 435–470
    - concepts, 436–442
    - extending search, 465–468
    - Indexing Service, 442–443
    - infrastructure planning, 42–43
    - keywords, 458–463
    - portal features, 20
    - scaling up search solution, 463–465
    - search schedules, 456
    - search scopes, 456–457
    - SPS vs. WSS, 402
  - Search engines, SPS, 443–455
    - content inclusion/exclusion rules, 449–450
    - content sources, 449–455
    - crawled content, 445–447
    - file types, 447–449
    - overview of, 443–444
    - Topic Assistant, 444–445
  - Search scopes, 439–440, 456–457
  - Searches
    - Office group tools, 53
    - scaling up, 484–485
  - Security
    - content management, 287
    - DCOM and CORBA, 73
    - infrastructure planning, 27–28
    - MCMS, 315–319
    - .NET Framework, 98
    - portal features for, 21
    - portal framework, 118–119
    - web services, 92, 322
  - Security services, 163–214
    - ASP.NET authentication, 175–180
    - ASP.NET process identity, 183–184
    - authentication/authorization flow, 166
    - building blocks, 163–165
    - code access security, 184–189
    - designing, 192–196
    - example, 198–212
    - IIS authentication, 167–174
    - ISA Server 2000, 190–192
    - SQL Server, 189–190
    - Web services authentication, 180–183
    - Windows Server 2003, 196–198
  - Self-registration, 220–226
  - Self-Service Site Creation, 425–426
  - Self-service, enterprise portals, 18–19
  - Semantics
    - ontology, 339–340
    - taxonomy, 338–339

- Servers
  - application server scalability, 481–484
  - BizTalk administration, 389–390
  - Microsoft migration to .NET, 66
  - operating system scalability, 480–481
- Session states, 494
- Shared Queue database, 487–488
- SharePoint Central Administration, 408, 426
- SharePoint Portal Server. *see* SPS (SharePoint Portal Server) 2003
- SharePoint Team Services (STS)
  - functionality of, 63
  - overview of, 398
  - strategy of, 56–57
- SIMPLE (SIP Instant Messaging and Presence Language Extensions), 429–430
- Simple Mail Transfer Protocol (SMTP), 272
- Simple Object Access Protocol. *see* SOAP (Simple Object Access Protocol)
- Single sign-on service, SharePoint, 242–244
- SIP (Session Initiation Protocol), 429–430
- SIP Instant Messaging and Presence Language Extensions (SIMPLE), 429–430
- Site framework, content management, 282–288
  - content creation and migration, 287
  - MCMS, 291–295
  - Microsoft Solutions Framework, 282–285
  - security, 287
  - site testing, 287–288
  - site vision, 285–286
  - taxonomy and container hierarchies, 286
  - template creation, 287
- Site groups, 407
- Site Manager, 289, 291
- Site maps, 33–34
- Sites
  - creating basic collaboration, 402–404
  - Self-Service Site Creation feature, 425–426
  - SharePoint architecture, 400
  - team. *see* Team websites
- SMTP (Simple Mail Transfer Protocol), 272
- SOAP (Simple Object Access Protocol)
  - integration and, 74–75, 366
  - overview of, 79–80
  - Web services authentication, 182
- Social Meeting Workspace site, 420
- Software, 362
- Software Development Kit (SDK), 178
- Solution for Internet Business, 60
- Solution requirements table, 43–46
- SpFetchBreadCrumbTrail.sql, 147–151
- SpFetchMenu, 142–143
- SPS (SharePoint Portal Server) 2003
  - “publicization” of personal data, 260
  - areas, creating, 351–356
  - audiences, 240–242, 267–268
  - CMS integrating with, 432–434
  - collaboration features in version 2, 398–400
  - content management, 26, 281, 323–329
  - EAI and, 374–376
  - Microsoft’s portal strategy and, 49–50, 62
  - personal pages, 254–259
  - personalization within web part, 259–260
  - scalability, 483–484
  - scalability, 479
  - search engine. *see* Search engines, SPS
  - search functionality, 463–466
  - search technology comparison, 467–468
  - single sign-on service, 242–244
  - subscriptions and alerts, 265–267
  - Topics, 356–357
  - user profiles, 235–240, 250
  - version 1 shortcomings, 53–57
  - Windows SharePoint Services and, 401–402
- SQL Server
  - breadcrumbs, 147–151
  - demo site security and, 199–200, 202–205
  - document management database, 407
  - as key element of .NET portal, 62
  - menu controls, 141–146
  - next version of, 65
  - noise word list, 466
  - notification service, 268–272
  - scalability, 482–483, 487, 489–494
  - search technology comparison, 467–468
  - security features, 189–190
  - stored procedures, 131–134
  - user profile analysis, 250

## 514 Index

---

- SQL Server Desktop Engine 2000 (WMSDE), 483–484
  - SQL stored procedures, 495
  - Standards
    - application integration, 36
    - portal, 65
  - Startup.com* (film), 13
  - Stemmers, 440–441
  - Stored procedures, 131–134, 138–139
  - Strings, 107
  - Structured data, 336–337
  - STS (SharePoint Team Services)
    - functionality of, 63
    - overview of, 398
    - strategy of, 56–57
  - Subscribers, 261, 312–313
  - Subscriptions
    - alerts, 262–263
    - allowing users to change, 262
    - creating, 261–262
    - defined, 261
    - notifications, 263–264
    - SharePoint, 265–267
    - SQL Notification Services, 268–270
  - Sun J2EE, 111–113
  - Supplier Solution (SupplierAD) site, 224–225
  - Survey feature, 421, 422–425
  - Synchronous communications, 380
  - System namespace, 100–101
  - System.AppDomain class, 109
  - System.Object type, 105–107
  - System.Security.Permissions namespace, 186–188
- T**
- 
- Target expressions, 275–276
  - Tarrant County, Texas, 13–14
  - Taxonomy, 331–360
    - adding person to area, 357–358
    - applications for, 335
    - areas in SharePoint, 351–356
    - attributes/properties, 341–342
    - best practices, 345–346
    - business value of, 359
    - categories, 341–343
    - categories in CMS, 349
    - categories in Commerce Server, 350–351
    - channels, 291–292
    - content categorization, 444–445
    - content management, 286
    - context specificity, 343–344
    - defining, 331–335
    - document card, 343
    - document metadata, 343
    - implementing, 346–349
    - infrastructure planning, 31–34
    - ontology, 339–340
    - personalized content categorization, 253
    - semantics, 338–339
    - structured data, 336–337
    - thesauri, 341
    - Topics, 356–357
    - unstructured data, 337–338
    - vocabulary, 340
  - Team websites, 417–425
    - creating, 402–404, 417–418
    - defined, 420
    - features of, 421–422
    - survey feature, 422–425
    - types of, 418–421
  - Teamplate, 391
  - Technology
    - achieving high availability with, 471
    - user familiarity with, 397
  - Template area table, 126
  - Template designer, 308–310
  - Template galleries, 293–297
  - Template table, 124–125
  - Templates
    - channels and, 305
    - content, 287, 300–301
    - creating, 297–299
    - database definitions, 155
    - defining, 123, 306
    - multilingual site development and, 305–306
    - personalized with Content Management Server, 260–261
    - SharePoint architecture, 400
  - Testing
    - content, 287–288
    - performance, 495–496
    - scalability planning and, 473
  - Thesauri, 341



Third-party vendors  
 adding to Microsoft solutions, 63–64  
 for automated taxonomy, 347–348  
 for BizTalk adapters, 381  
 for SharePoint integration adapters, 376

Threaded discussions  
 defined, 394  
 overview of, 415–417  
 team web sites, 403

Topic Assistant, 356–357, 444–445

Topics, 356–357

Tracking, 233–235, 390

Traffick, 4

Transactions  
 distributed, 36  
 infrastructure planning, 37–39  
 portal features, 21

Transition phase, MSF, 284, 285

## U

UDDI (Universal Description, Discovery, and Integration), 83

UI (user interface)  
 building with custom code, 376–378  
 look-and-feel of, 24–26  
 Microsoft's portal strategy, 51  
 as portal feature, 20

Unboxing, 107–108

Uniform Resource Identifier (URI), 76

Unisys, 491–492

Unity, 24–25

Universal Description, Discovery, and Integration (UDDI), 83

Unstructured data, 337–338

URI (Uniform Resource Identifier), 76

URL authorization, 197

User IDs, 233–235

User interface. *see* UI (user interface)

User profiles, 215–250  
 administering, 232–233  
 advertising based on, 273–278  
 analyzing, 244–250  
 anonymous users, 233–235  
 defining, 215–216  
 extending basic, 230–231  
 identifying key user groups, 217–219

information in, 226–231  
 overview of, 28–29  
 registration methods, 219  
 relational database containing, 36  
 self-registration and, 220–226  
 SharePoint audiences, 240–242  
 SharePoint Server, 235–240  
 SharePoint single sign-on, 242–244  
 team web sites, 403

User roles, collaboration, 407–408

UserControl class, 121

Users

anonymous, 27  
 demo site security, 200–202  
 document management and roles of, 408–410  
 dynamically loading controls in portal page, 151–155  
 listening to needs of, 397–398  
 managing, 408–410  
 personalization, 30–31  
 presence awareness, 394  
 supporting, 27  
 taxonomy best practices, 346

## V

Validation, InfoPath forms, 372

Value types, CTS, 105–107

Value-added network (VAN), 365

VAN (value-added network), 365

Vendors, 3–5

Version control, 84, 414

Vertical portals (Vortals), 9–11

Vertical scaling. *see* Scalability, scaling up

Views, profiles, 238

Virtual communities, Office group, 53

Virtual private networks (VPNs), 191

Vision of site, content management, 285–286

Visual Studio.NET  
 Common Language Runtime, 98  
 content management, 321–322  
 MCMS and, 289–290, 295–297

Vocabulary, 340, 345

Vortals (vertical portals), 9–11

VPNs (virtual private networks), 191

## 516 Index

---

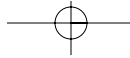
### W

- W3C (World Wide Web Consortium), 76
- Web browsers, 50–51
- Web clipping, 375
- Web forms, 367–368
- Web gardening, 495
- Web parts, SharePoint
  - adding to My Site page, 257–259
  - application integration, 375–376
  - architecture, 400
  - collaboration and, 431–432
  - content management, 323–328
  - defined, 16
  - modifying My Site page, 255–257
  - overview of, 254–255
  - personalization within, 259–260
  - Portal Server, 55
  - standard, 431–432
  - Windows SharePoint Services, 401
- Web services, 69–94
  - application integration and, 36
  - authentication, 180–183
  - benefits of, 92
  - consuming, 322–323
  - current technologies, 70–75
  - deploying, 84–85
  - DISCO for discovery, 81–82
  - discovering service providers, 82–83
  - fitting into portal, 85–86
  - integration, 322–323
  - life before, 69–70
  - overview of, 76–77
  - sample of, 86–92
  - SharePoint application integration, 375
  - SOAP as messaging protocol, 79–80
  - understanding, 77–78
  - WSDL as contract language, 80–81
  - XML for data representation, 78–79
- Web Services Description Language (WSDL), 80–81, 366
- Web Services for Remote Portals (WSRP)
  - standard, 65
- WebForms, ASP.NET, 110–111
- Webopedia, 5
- Web-searching portals, 6, 7–9
- Websites, 3–5
- Widgets, 16
- Windows authentication
  - ASP.NET authentication, 176
  - authorizing resource access, 195–196
  - demo site security, 198
  - intranet security, 316
  - SQL Server security, 189–190
- Windows Messenger, 427–428
- Windows Servers
  - scalability, 480–481
  - scaling out, 477
  - scaling up, 475–476
  - security features, 196–198
- Windows XP
  - as real-time communications platform, 57
  - search technology comparison, 467–468
  - sequential searches, 437
- WindowsPrincipal object, 195–196
- WMSDE (SQL Server Desktop Engine 2000), 483–484
- Word
  - MCMS and, 289, 300
  - template designer process, 309–310
- Wordbreakers, 440–441
- Workflow
  - BizTalk, 384–386
  - collaboration and automated, 394
  - email notification, 314–315
  - MCMS, 307–308
- Workstation desktops, 16, 50–51
- World Wide Web Consortium (W3C), 76
- WSDL (Web Services Description Language), 80–81, 366
- WSRP (Web Services for Remote Portals)
  - standard, 65
- WSS (Windows SharePoint Services), 56–57, 399
- WS-security, 182–183

### X

---

- XLANG, 388–389
- XML (extensible markup language)
  - BizTalk with, 380
  - enterprise portals convert data to, 16
  - forms storing data as, 358
  - integration with, 70, 366



- Office with, 370
- overview of, 78–79
- presentation services layer and, 116
- web services with, 76–77
- XML schemas
  - BizTalk Editor building, 386–387
  - integration and, 366
  - linking with BizTalk Mapper, 387–388
- XSL (Extensible Stylesheet Language)
  - breadcrumbs, 150–151
  - menu controls, 145–146
- XSLT (Extensible Stylesheet Language Transformation)
  - BizTalk Mapper and, 387–388
  - BizTalk process with, 380
  - integration and, 366
  - notification formatting with, 272

**Y**

---

- Yahoo, 6–7
- Yukon, 65

**Z**

---

- Zones, web part, 257

