



Index

Italicized page locators indicate figures; tables are noted with a lower-case italicized *t*; monofont terms are in **bold**.

A

- AAM. *See* Alternate access mappings
- Absolute addresses, 406
- Access
 - COM add-ins supported by, 1073
 - connecting to databases other than, 256
 - Custom Task Panes added into, 1093
 - VSTO package and, 834
- Access 2003, unsupported data type and, 343*t*
- Access 2007, unsupported data type and, 343*t*
- Access content programmatically
 - permission-based option, 547
- Accessibility control settings, 874, 874
- Accessible forms, designing, 874, 875
- "Accessing XML Data Using **XPathNavigator**," 780
- Access keys, for inserting and removing sections, 689
- Access key text box, 194
- Access paths
 - defining, 468
 - domain trust form templates and, 467
 - error dialog that appears when
 - opening a form from path not related to, 403
 - for installable form templates, 486
 - publishing via e-mail and, 416
 - on restricted form templates, 464, 465
 - security designed into form templates
 - and, 459
 - setting in Publishing Wizard, 462, 463
 - updates and, 463
- Action dialog, for rules, 671
- Actions, for rules, 232, 233*t*
- Actions menu (Outlook), 659
- ActionType** enumeration type, finding, for a structurally editable control, 827, 828
- Activate Form Template page, 896, 898
- Activation
 - choosing site collection and Web application for, 897
 - with Manage Form Templates page, 895–897
 - publishing process and, 681
 - recovering from, 895
 - with Site Collection Features page, 898
 - waiting for upload to complete before, 901
- Active add-ins, 502
- Active Data Objects, 256
- Active Directory group, 621
- Active sessions setting, terminating, 911
- Active Template Library
 - basic, creating for control, 1051
 - hosting InfoPath and, 978
- ActiveX control(s), 79, 173, 847, 1073
- Add Custom Control Wizard showing Microsoft UpDown Control 6.0 selected in list of, 1039, 1039

- ActiveX control(s) (*cont.*)
 - adding to Controls task pane, 1038–1047
 - aggregation and, 1042
 - binding values from, to data in data source, 1042
 - building custom controls for InfoPath with use of, 1049–1072
 - building for InfoPath using C#, 1061–1072
 - building for InfoPath using C++, 1049–1061
 - CAB files for, 1041
 - classification of, 471
 - communicating between COM add-in and, 1100–1104
 - customizing various properties of, 1047–1048
 - FireTaskPaneReady** method implemented by, 1103 (listing)
 - hosting InfoPath and, 978
 - implementing, 1049
 - inability to rebuild, after using in InfoPath, 1053
 - InfoPath 2007 available as, 965
 - InfoPath support for, 438, 439
 - installing and registering, 1058
 - installing and using, 1038–1048
 - property pages and, 1047–1048
 - rich text data and, 1046
 - safe initialization and scripting of, 1039
 - sharing development of form templates containing, 1048
 - specifying safety of, 1053–1055
- ActiveX objects, script and, 497
- ActiveX technologies, 24
 - building custom controls with, 174, 1037–1072
- adapterName** parameter, **SubmitTo-HostEventHandler** method and, 1009
- Adapters, XML file, 247
- Add Additional Details Button control, logic behind, 827
- Add a Workflow page, 637
- AddButton** method, 1083, 1088
 - implementation of, 1086, 1087 (listing)
- Add Custom Control Wizard, 442, 1038, 1056, 1071
 - Custom Control Added page, 441, 441
 - with Microsoft UpDown Control 6.0 selected in list of ActiveX controls, 1039, 1039
 - Select a Control Type page, 439
 - Specify a Binding Property page, 1041, 1042
 - Specify an Enable or Disable Property page, 1042, 1043, 1051–1052
 - Specify Data Type Options page, 1044, 1044
 - Specify Installation Options page, 1040, 1040
- Add-ins
 - COM add-ins, 1073–1092, 1105–1106
 - Custom Task Panes, 1093–1104
 - InfoPath 2007 and support for, 23
 - initializing, 1080
 - learning more about, 1074
 - managed, accessing InfoPath object model from, 1107–1111
 - managing in InfoPath, 1111–1114
 - reenabling, 1114
 - warning dialog after serious error caused by, 1114
 - writing add-ins and Custom Task Panes using VSTO 2005 SE, 1105–1106
- Add-ins category, in Trust Center dialog, 499, 501–503
- Add-ins tab in, Trust Center dialog, 1111, 1112
- Additional Information dialog, 517, 530–531
 - showing exactly what you are signing before you sign it, 516, 516–517
- Additional permission, enabling, 547
- Add operation, 86
- Add or Remove Custom Controls dialog, 439, 441, 1038, 1065, 1066
- Add Print View for Word Wizard, 600
 - choosing path and file name from, 601
 - specifying Word print view name in, 601, 602
- Add/Remove Programs dialog, 417
- Address block
 - after pasting into the view, 437
 - creating, 437
- Address block section, of MOI employment application form, 432
- AddressBlock template, custom category of Controls task pane after addition of, 441
- AddressBlock template part, 447
 - with cascading Combo Box controls, 448, 448
 - data source for, 432, 433
 - design-time visual for new version of, 449, 450
 - inserting into blank form, 444
 - inserting into new form template, 443–447

- installing new version of, 449
- more details for, 450
- updating, 448
- updating form template containing, 449–451
- Address information, controls for adding
 - to employment application form, 46
- Add to Favorites link, 16
- Add User Role dialog, 617, 617, 619, 621
- Add View dialog, opening, 75, 75
- Administration
 - for Forms Services, 866
 - power of, 889
- Administrative (admin) deployment
 - alternative, 898–901
 - command-line admin deployment, 899
 - to Forms Services, 892–901
 - activating form template to a site collection, 893, 895–898
 - uploading form template to server, 893–895
 - programmatically admin deployment, 900–901
 - template upgrades and, 917
 - two components of, 888
- Administrative policy, disabling InfoPath design mode as, 506
- Administrative session state thresholds, 910, 910
- Administrator, InfoPath installed as, 457
- Administrator approval
 - publishing form templates for, 889–891, 890, 941–942
 - specifying a path during publishing to save a form template requiring, 891, 891
- Administrator-approved templates, location of, 895
- admin object models
 - Forms Services Admin tool authored by, 900, 901
 - quiesce tool authored by, 919, 919
- ADO. *See* Active Data Objects
- ADO.NET, 256, 297, 350
 - submitting data with use of, 344
- ADO.NET **DataSet** object, 344
 - designing view of form receiving and submitting to, 374
 - rules and, 388–389
 - Web service support for, 12
- AdoNetDataSet sample, 374
- ADO.NET **DataSet** submit, 369–392
 - ADO.NET datasets and rules, 388–389
 - custom submit using form code, 383–384
 - custom submit using rules, 384–388
 - designing form template with a dataset, 370–374
 - disadvantages with rules, 389–391
 - filling out the dataset form, 375–377
 - submitting to a hosting environment, 391–392
 - submitting to a SharePoint library, 377–380
 - submitting to a Web server via HTTP, 380–383
 - ADO.NET dataset Web service, configuring
 - change tracking for, 371
 - ADO.NET Web services, 300–307
 - example Customers and Orders Web service, 302–307
 - typed and untyped DataSets, 301
- ADOXML, 256
- Advanced controls, 25, 156–174
 - Choice Group control, 167–171
 - Choice Section control, 167–171
 - custom controls, 172–173
 - Expression Box control, 158–163
 - Horizontal Region layout element, 164–167
 - Hyperlink control, 156–158
 - Repeating Choice Group control, 167–171
 - Repeating Recursive Section control, 171–172
 - Scrolling Region layout element, 164–167
 - Vertical Label control, 163–164
- Advanced formatting, 76–82
 - control formatting, 78–79
 - Format Painter, 79–80
 - for multiple controls, 80–82
- Advanced Forms Services, 865–963
 - controls and browser optimizations, 867–875
 - designing accessible forms, 874
 - postback settings, 871
 - Update button, 872–874
 - data connections, 929–950
 - administrations settings, 931–936
 - authentication considerations, 943–948
 - centrally managed connection library, 936–943
 - e-mail, 948–950
 - form code, 875–885
 - circumventing browser-enabled limitations, 878–879

- Advanced Forms Services (*cont.*)
 - compatibility of, with Forms Services, 884–885
 - detecting the browser or InfoPath client, 883–884
 - executing in browser, 876–878
 - simulating a custom task pane in browser, 882–883
 - simulating user roles in browser, 880–882
- getting started with, 865–866
- performance tips and best design practices, 950–963
 - data connections, 956
 - data-heavy features, 954–956
 - form code, 953
 - form template deployment, 951–952
 - form view state, 956–957
 - health monitoring, 962–963
 - miscellaneous tips, 957–958
 - performance monitoring, 958–959, 961–962
 - reduction of form postbacks, 953–954
 - views, 952
- SharePoint integration, 885–929
 - advanced publishing, 888–903
 - configuring InfoPath Forms Services, 906–907
 - configuring shared services and providers, 907–920, 925–928
 - filling out a form on a SharePoint page, 928–929
 - managing form templates, 904–905
- Advanced section, of Submit Options dialog, 393, 393
- Advanced tab, 193–198
 - of Form Options dialog, 579, 579
 - of Repeating Section Properties dialog, 566, 567
- After submit option, 394
- agg:action** attribute, 583
- agg:order** attribute, for merge actions, 584
- Aggregated status report, 574, 574
- Aggregate reports, 553, 554, 555, 613, 660
 - design and merging of, 562
 - merged, 559, 559
- Aggregation, ActiveX controls and, 1042
- Aggregation namespace, merge actions in, 583, 584
- agg:select** attribute, for merge actions, 584
- agg:selectChild** attribute, for merge actions, 584
- Airline form
 - with default value for **FlightType** as “**Roundtrip**,” 106
- XML Schema for, 109 (listing)
- AirlineReservation document element, 120 (listing)
- Airline reservations
 - NumberOfChildren** attribute as nonexistent in form and XML data, 147
 - NumberOfChildren** attribute field, 146
 - NumberOfChildren** attribute field inserted in the form and XML with default value of 1, 147
- AJAX (Asynchronous JavaScript and XML), 703, 910
- Alerts, 405
- Aliases, user roles and, 617–618
- Allow fully trusted forms to run on my computer checkbox, 498
- Allow only signature option, 527
- AllowPartiallyTrustedCallersAttribute**. *See* APTCA
- Allow users to change these settings checkbox, 596
- Allow users to edit data in this field by using a datasheet or properties page option, cautionary note about, 413
- Allow users to fill out this form if data is unavailable checkbox, 313
- Allow users with read access to copy content permission-based option, 547
- All the signatures are independent (co-signing) setting, using, 531
- Alphabetic characters, XML, naming nodes and, 104
- Alphanumeric characters, XML, naming nodes and, 104
- Alternate access mappings, 927–928
 - defining three types of, 928
- Ambiguous schemas, 129 (listing), 135
 - converting to, 134
 - first prompt related to starting from, 129
- Ampersand (&) character, submit keyboard shortcut and, 335
- And button, specifying conditions with, 218
- Anonymous access, authentication and disallowance of, 934

- Appeals process, evaluations and, 281
- AppendChildElement** method, using, 829
- Apple systems, browser-based forms
 - and, 668
- Application** class, 883
- ApplicationClass** object, **Events** property
 - of, 1082
- Application** data member, 1107
- ApplicationEvents** object, 1082
- Application_Idle** method, implementation
 - of, 998 (listing)
- Application idle state, updating toolbar buttons during, 997–1000
- Application.LoginName**, 881
- application** object, casting to **ApplicationClass**, 1080
- _applicationObject** object, 1091
- Application review form, with Scrolling Region control when filling out the form, 166
- Application server, 672
- Application.UserName**, 881
- Apply Font to All Controls
 - controls providing support for, 82*t*
 - selecting from Format menu, 81
- Approval workflow, 637
- “Approver” role, 620
- APTCA, allowable list, 498
- Arbitrary Section controls, 522–523
- ArgumentException**, 1086
- Artificial domains, testing form template with, 482
- Asian language forms, Vertical Label control and, 163
- ASP.NET, 853
- ASP.NET controls, use of, for Web form design, 1011
- ASP.NET mobile controls, 720
- ASP.NET page
 - beginning design for, 1015
 - events that host page may not sink, 1028*t*
 - host to InfoPath communication and, 1020–1028
 - InfoPath to host communication and, 1028–1035
 - properties and methods not available to, 1027*t*
 - session state enabled on, 1018
 - setting destination option for, 381
 - storage for, 1014
- ASP.NET page load event handler, to read data submitted by Web server (HTTP) connection, 383 (listing)
- ASP.NET Web service, new Web site dialog with template for, 274, 274
- Assembly, 739
- ATL. *See* Active Template Library
- ATL Control Wizard
 - adding ActiveX control to project with use of, 1051
 - implementing **Value** property and, 1056
 - Stock Properties page of, for Simple-InfoPathActiveX control, 1051, 1052
- Atomic controls, 444, 445, 450
- Attached files, XML format for, 70
- “Attaching Files in InfoPath 2003” (MSDN Web site), 68, 70
- Attribute nodes, adding, 116
- Attribute node type, merge customizations available for, 571*t*
- Attributes
 - database data types and, 269
 - designing music collection form’s data source with and without, 117
 - elements *vs.*, 118
 - with fields and groups, 94
 - as nodes, 94
 - use of, 117
- Authentication
 - basic, 934, 944
 - to data sources, 935–936
 - digest, 934, 944
 - disallowance of anonymous access and, 934
 - embedded SQL, 934–935
 - Kerberos, 944
 - Single Sign-On, 934, 944
 - UDC, 944–946
 - Windows Integrated, 934
- Authenticity, 508
- Authenticode, 493
- Author** property, in body of document, and Word document showing Document Information Panel, 976, 977
- Auto insurance form, after loading in IP insurance application, 986, 986
- Automatically create data source, 91
 - dialog prompt for, 139, 139
- Automatically create data source checkbox, 41
- Automatically determine security level (recommended) feature, 482, 483

- Automatically retrieve data when form is opened checkbox, 251, 251, 314
 - Automatic security level, 482–483
 - AutoText items, 590
- B**
- “Backdoor” network share, publishing MeetingRequest template to a Web server via, 401, 401
 - Background color
 - adding to view, 76
 - for SimpleInfoPathActiveX control, 1051, 1052
 - for stock tracking Text Box, 219, 220, 221
 - Backup copies, modifying existing form templates and, 447
 - Backups, creating, before making any hand modifications, 536
 - Backward compatibility, enabling form template for, 700
 - Bad sorting conditions, disabling of Finish button and, 265
 - Basic authentication, 934, 944
 - BasicDataFormTemplate sample, 285
 - Binding mechanics, behind controls and the data source, 744
 - Binding(s)
 - ActiveX control to fields or groups in data source, 1041–1042
 - changing, 140, 142
 - changing via context menu, 140
 - choosing data source node for, 139
 - customizing new, 142–144
 - field or group types and, 1045, 1045*t*
 - multiple, 145–147
 - multiple, details of, 147–149
 - of newly inserted controls to newly created data source, 9
 - odd, 145
 - secondary data source, 307–312
 - Binding section, of Data tab, 176, 180
 - Binding style, 288
 - Binding visuals, 65
 - Bin folder, contents of, 839
 - Blank form
 - creating, 30*t*
 - new, 32, 33
 - Blank groups, removal of, only if empty, 571, 572
 - Bookmarks, unavailability of, when designing InfoPath form templates in VSTO, 855
 - Bookmarks feature, 816
 - Border color, for SimpleInfoPathActiveX control, 1051, 1052
 - Borders
 - in layout tables, 36
 - for Plain List control, 66
 - Borders and Shading dialog, 36
 - Bound controls, 86
 - clicking on control in the view for selection of, in data source, 87
 - Breakpoints, enabling, 740
 - Browse button, 440
 - Browse dialog, 440
 - Browse for Folder dialog, for selecting location to save template source files, 421–422, 422
 - Browser
 - detecting, 883–884
 - filling out InfoPath forms in, 666–668
 - form code executed in, 876–877
 - form opened in, 683
 - matrix of, for use with Forms Services, 690, 691
 - rudimentary implementation of roles in, 882 (listing)
 - seeing forms in, 49
 - showing faux message box in, 879 (listing)
 - simulating custom task pane in, 882–883
 - Team Status Report view filled out in, 604, 604
 - Team Status Report view shown as a print view in, 604, 605
 - user roles simulated in, 880–882
 - using host page to display dialog box message in, 1033 (listing)
 - Browser-based forms, performance tips and best design practices, 950–963
 - Browser-based form templates, data connections in, 710–714
 - Browser category, on Form Options dialog, 872
 - Browser-compatible errors, 695, 696, 697
 - Browser-enabled form libraries, “regular” form libraries and, 707
 - Browser-enabled forms
 - form code added to, 876
 - print views in, 603–605
 - sending e-mail from browser in, 339

- Browser-enabled form template design, 690–701
 - Design Checker and, 693–701
 - design once philosophy and, 692
 - Browser-enabled form templates
 - Changing** event not available in, 745
 - configuring Button control to use the
 - Update Form option for, 873, 873
 - customizing toolbar buttons for, 872, 872
 - designing with VSTO, 840
 - message indicating feature can be used in, but is not active in browser, 671, 671
 - message indicating feature cannot be used in, 670, 670
 - postback settings for control in, 871, 871
 - URL-based options for opening of, 716–720
 - Browser-enabled limitations, circumventing, 878–883
 - Browser forms
 - Close button, 687
 - closing, 708
 - controls, 688–690
 - creating, 682–683
 - filling out, 714–720
 - Print View button, 687
 - reopening, 704–705
 - Save and Save As buttons, 686–687
 - Submit button, 685–686
 - toolbar and, 683–684
 - Update button, 687
 - View drop-down, 687
 - Browser forms controls setting, form template postbacks and, 954
 - Browser forms tab, 198
 - Browser incompatibilities, two types of, 670–671
 - Browser optimizations, 699–700
 - in Advanced Forms Services, 867–874
 - issues with, 868–870
 - Browser rendering
 - disabling, 890
 - enabling in Publishing Wizard, 680
 - Browser test form, for **SaveItem** Web service method, 280
 - Browser** value, 717
 - Bubbling, lack of nonprogrammatic option for canceling of, 748
 - Buddy tab, in Properties dialog for Microsoft UpDown Control, 1048
 - Bugs
 - circumventing validation in forms, watching for, 756
 - “duplicate error,” 764
 - Build menu, 740
 - Build scripts, 419
 - Bulleted List control, 7, 65, 66
 - binding behavior of, 90*t*
 - Bulleted List Properties dialog, 307
 - secondary data source-bound controls
 - with little customization allowed, 308
 - Business Data Catalog, 678
 - Business logic, 731
 - ButtonClick** event, 790
 - Button control, 45*t*, 88
 - binding behavior of, 89*t*
 - sinking an event for, 787
 - specifying action for rule to run when user clicks on, 231
 - Button control (ASP.NET), code behind, in MyPage.aspx, 1021 (listing)
 - ButtonEvent**, 782
 - Button event handler, 766 (listing)
 - Buttons, MOI Consulting request form code and, 803–805
 - By key field option, 202
- ## C
- CA. *See* Certificate authority
 - CAB files
 - creating, 1071
 - form templates stored in, 26
 - .NET control installation process and, 1070
 - specifying, ActiveX controls and, 1040, 1041
 - Cache, Getting Started dialog with form templates in, 465, 465
 - Cache conflict, occurrence of, when different version of same form template is opened, 464
 - Cached form template files, 424
 - Cached queries
 - offline, 316
 - saving, time span and, 314
 - Cached** field, 800, 806
 - Cache ID nodes, 805, 806
 - Cache ID values, of MOI Consulting request form, 794
 - Cache queries, for use in Offline mode checkbox, 314

- CAL. *See* Client Access License
- Calculated default data, 86
- Calculated default values, 107
 - updating template parts and, 451
- Calculated Default Values section, in Logic Inspector dialog, 238
- Calendar year, Horizontal Repeating Table control and forms based on, 60
- CallFormCode** function, 789
- CancelableArgs.Cancel** property, 754
- Cannot be blank property, 101–102
 - optional field *vs.*, 105–106
 - validation error for, 102
- CAS, form code permission and, 497
- Cascading, updates and deletes, 305, 306
- CAS permission set, for **LocalIntranet**, 496*t*
- Category box, in Upload Data Connection File page, 940, 940
- Category filters, grocery form filled out with, 325
- Category IDs, registering in registry, safe initialization and scripting for ActiveX controls and, 1054
- CATID_SafeForInitializing**, 1054
- CATID_SafeForScripting**, 1054
- CComControl** base class, 1058
- Cells
 - merging and splitting, 37, 38
 - splitting rows into, 37
- Central Administration site, navigating to, 677
- Centrally managed connection library, 866, 936–943
 - advantages and constraints with use of, 936
 - data connection in, 931
 - designing against, 937–942
 - domain trust form templates and, 461
 - domain trust user form template and use of, 929
 - retrieving data connection files from, 942–943
 - uploading .udcx file to, 939–940, 940
- Certificate authority, 487, 488, 489, 499
- Certificate dialog, 530
 - general tab of, which shows whether the publisher of certificate is trusted, 491
- Certificate properties dialog, 493
- Changed Event, 737
- Changed** event, 767–777
 - as default XML event, 852
- Change permissions button, 542
- Change To menu item, 58, 58
 - use of, for most controls, 59
- Change to Repeating Table dialog, choosing number of rows used in header in, 1125, 1126
- Change tracking, configuring for ADO.NET dataset Web service, 371
- Changing** event, 749–757
 - canceling, 755, 755
 - error that occurs when calling unsupported OM during, 756, 756–757
 - exhibiting, 750
 - lack of availability for, in browser-enabled form templates, 745
 - showing message box in, 745 (listing)
- Changing** event handler, error message for canceling of, 755, 755
- Chat programs, 392
- Check Box control, 7, 45*t*, 1037
 - binding behavior of, 89*t*
 - converting to Option Button control, 1125
- CheckDateTimes** method, implementation of, 761 (listing)
- Child tables, defining relationships between parent tables and, 263
- Choice controls, 167–171
- Choice Group control, 14, 167–171, 827, 1037
 - binding behavior of, 90*t*
 - in design mode, 168
 - employment application form with, 170
 - in InfoPath 2003 SP1, 14
- Choice Section control, 14, 167–171, 1037
 - binding behavior of, 91*t*
 - default commands for, when filling out a form, 212, 212
- Choose InfoPath Form dialog, 649, 649, 656
- C# language, 833
 - building ActiveX control for InfoPath with use of, 1061–1072
 - form code, before upgrading the OM version, 734*t*
 - hosting InfoPath and, 978
- C++ language
 - building ActiveX control for InfoPath with use of, 1049–1061
 - COM add-ins written in, 1074
 - hosting InfoPath and, 978
- Classes, not implemented by Forms Services, 886–887*t*

- ClassInformation** group, 379
 - submitting to **XmlNodeToString** Web method, 358
- Class Information** view, start date and start time in, 352
- Click** event handler, code for, 995
- Click here to insert link, optional controls after clicking on, 51, 51
- Client Access License, 678
- Client-only rules, InfoPath e-mail forms as, 650
- Client** value, 717
- Clone** method, 772
- Close button, on browser form toolbar, 683, 687
- ClosedNode** document element, 536
- Close the form action, 394
- Close the form rule action, 234
- CLR. *See* Common Language Runtime
- CLSID KEY**, 1066
- CMCL. *See* Centrally managed connection library
- Code
 - adding logic without, 215–240
 - addition of, to form template in VSTO, 840
 - addition of, to form templates, 737–738
 - behind ASP.NET Button control in MyPage.aspx, 1021 (listing)
 - behind a Web service to get user name from Web service proxy, 948 (listing)
 - confirmation dialog before removal of, 733
 - editing with InfoPath, 384
 - existing form templates with, in VSTO, 841–842
 - filling out and debugging form with, 738–740
 - to find text in hosted form, 995, 996 (listing)
 - fully trusted form templates without, 902
 - mobile compatibility and, 724
 - MOI Consulting request form template and addition of logic without, 801–803
 - multiple notifications and, 774
 - removal of, as one-way operation, 733
 - to save currently loaded IP insurance form, 989 (listing)
 - saving before addition of, 738
 - settings related to addition of, 732–736
 - for **Sign** form event, 815 (listing)
 - for stopping XML events from bubbling above current event handler, 748 (listing)
 - for **UsersAuthorized** property, 752, 753 (listing)
 - using to submit forms, 337
 - writing, for Web service sample, 276 (listing)
 - writing behind a form, 730–741
- Code Access Security (CAS) model, 496
- Code editing in Visual Studio 2005, 858–860
 - features, 861
 - code snippets, 860
 - refactoring, 859
 - signing, 859
- Code group, creating, 497
- Code language, homogeneity of, 783
- Code signing, 859
 - creating self-signed certificate for, 490, 490
- Code-signing certificates, 487–488
 - for signing form templates, 490
- Code snippets
 - commonly used, 860*f*
 - customizing, 860
 - in Visual Studio 2005, 860
- Collect Feedback workflow, 637
- Color, for stock tracking Text Box, 219, 220, 221
- Color properties, for SimpleInfoPathActiveX control, 1051, 1052
- Color property page, for SimpleInfoPath-Control object, 1054, 1054
- Color schemes, 7
 - for forms, 39
 - in Repeating Table control, 57
- Color Schemes task pane, 39, 40
- Columns
 - adding, published templates and, 408
 - as attributes, in database data sources, 269
 - inserting in layout tables, 37
 - promoting properties to make them available as, in Outlook, 415, 415
- COM. *See* Component Object Model
- COM add-ins, 1073–1092, 1105–1106
 - adding user interface items and, 1076
 - application events available to, 1082*t*
 - building for InfoPath, 1076–1092
 - communicating between ActiveX control and, 1100–1104
 - dialog for addition and removal of, 502, 502
 - introduction to, 1074–1076
 - lifetime and command bars, 1086
 - support for, 1073
- COM Add-Ins dialog, 502, 502, 1113, 1113
- COMAddins** object, 1102

- Combo Box control, *45t*
 - binding behavior of, *89t*
 - country data and, 46
 - in InfoPath 2007 Controls task pane, 22
 - IP insurance application after addition of, *984, 984*
- Combo Box controls, cascading, Address-Block template part with, *448, 448*
- COM interop, writing COM add-ins
 - in managed code with, 1074
- COM Interop attributes, **InfoPathMasked-TextBox** class after addition of, 1062 (listing)
- CommandBar** object, 1076, 1085
- CommandBars** collection, 1076, 1086, 1096
- CommandIds** enumeration, 997
 - in **FormControlCommandIds** class, 994
- Command-line admin deployment, 899
- Command-line quiescing, 917–919
- Commands
 - customizing, 210–212
 - shortcut keys assigned to, 211
- Comments** group, 522
- Common Language Runtime, hosting
 - InfoPath and version 2.0 of, 978
- Compatibility category, on Form Options dialog, 694, 695
- Compatibility mode, changing, in midst of designing template, 693
- Compatibility setting, changing, 405
- Compatible form template design, design once philosophy and, 692
- Compiling, failure in, 740
- Complex script, support for, with InfoPath SP1, 14
- complexType data type, 99, 99*t*
- Component Object Model, 23
 - COM add-in technology based on, 1074
 - hosting InfoPath and, 978
- Compound built-in controls, 445
- ComSourceInterfaces** attribute, 1067
- ComVisible (true)** attribute, 1005
- concat** function, 338, 576
- Conditional Format dialog, 216, 217
 - after adding conditions for manager roles, 632, 633
 - after changing condition to use a user role, 631
 - with multiple conditions, 219
 - with specifications showing conditions needed to set background color to yellow, 221
- Conditional formatting, 6, 11, 18, 19, 118, 215–222, 426, 562, 742
 - in mobile forms, 725
 - on MOI Consulting request form, 802
 - referencing user role in, 880
 - Sales Report view with, 592
 - updating template parts and, 451
 - with user roles, 621, 630–631
- Conditional Formatting button, 182, 630
- Conditional Formatting dialog, 216, 216, 630
 - accessing, 215
 - with condition, where **StockPrice** is less than or equal to \$18.00, 220
 - conditions added to, 216–217
 - with one condition, 220
 - showing all three conditions, for stock tracking, 222
- Condition dialog for rules, selecting user's current role as qualifier in, 623, 623
- Conditions
 - comparison operands for, 217–218
 - hiding or disabling of, 216, 222
 - specifying, 217
 - user roles and specification of, 622
- Configuration wizard, configuring Forms Services and, 675
- Configure InfoPath Forms Services
 - administration page, 957
 - threshold setting on, 910
- Configure InfoPath Forms Services page, 931
- Configure Session State page, 907
- Configuring a Button control, to use the Update Form option for a browser-enabled form template, 873, 873
- Confirmation dialog, before removing code, 733
- Confirm view, 829
 - of MOI Consulting request form, 796, 796
- Connect** class, 1078
- Connection authentication, 866
- Connection counters, 961
- Connection library, form template design and, 30*t*
- Connection Library option, in Design a Form Template dialog, 245
- Connection Options dialog, modifying a server-based connection in, 938–939, 939

- Connection store, 713
- Connection timeouts, InfoPath Web service, 360
- Contact Selector control, 972, 973
- Container controls, 169
 - changing from one type to another, 59
 - rebinding, 142
 - selecting, 78
- Container nodes, 87, 94
- ContentControl** property, 1101
 - of **CustomTaskPane** object, 1100, 1101
- Content type management, enabling for document library, 970
- Content types
 - list of, in Data Source Wizard, 971, 971
 - management of, 709
- ContextChanged** event, 785
 - behavior of, 816
 - wiring up, for context-sensitive help in custom task pane, 817 (listing)
- Context menu
 - of most popular control bindings, 143
 - for Optional Section control when filling out a form, 52, 52
 - for Repeating Section control when previewing form, 54
- Context-sensitive help in custom task pane MOI Consulting request form code and, 816–822, 824–831
 - wiring up **ContextChanged** form event for, 817 (listing)
- Control bindings
 - changing, 140, 142
 - popular, context menu of, 143
- Control events, 730
- Control formatting, 78–79
- Control inserting, 91
- Control properties, 174–203
 - changing/resetting of, after rebinding, 141*t*
- Control properties dialog, customizing merge action through, 566
- Controls. *See also* Advanced controls
 - binding behaviors for, 89–91*t*
 - binding mechanics behind, 744
 - binding to data source, 138–139
 - bound, 86
 - Bulleted, 65, 66
 - conditional formatting of, 216
 - custom, 173–174
 - data fit to, 353
 - design-time visual icons over, to indicate potential binding issues, 149
 - File and Picture, 67
 - File Attachment, 68–70
 - formatting multiple, 80–82
 - Forms Services and, 867–874
 - Horizontal Repeating Table, 60–61
 - hybrid, 88
 - Hyperlink, 88
 - Ink Picture, 72–73
 - inserting, 41, 43
 - list, 65–66
 - Master/Detail, 62–65
 - mobile compatibility and, 723–724
 - Multiple-Selection List Box, 67
 - Numbered List, 65, 66
 - Optional Section, 49–51
 - Picture, 70–72
 - Plain List, 65, 66
 - purpose of, 44
 - Repeating Section, 52–55
 - Repeating Table, 56–60
 - seeing name of, 65
 - Selected Text Box, 78
 - for settings for a control in browser-enabled form template, 871
 - standard, 43–44, 45–46*t*, 46–48
 - structurally enabled, 827
 - support for, in Forms Services, 688*t*
 - template parts without, 447
 - that are not bound, 88
 - using, 41–73
 - virtual, 168
 - when design-time visuals appear on, 150
 - working with in VSTO, 851–853
 - XML Schema created “behind” data source in XSD file and, 111–115*t*
- Controls collections, controls included in, 1145*t*
- Control selection, 78
- Controls link, in Design Tasks pane, 41
- Controls task pane, 34*t*, 41, 42, 86, 155, 158, 1047
 - ActiveX controls added to, 1038–1047
 - Choice Section control in, 169
 - custom category of, after adding the AddressBlock template, 441
 - custom controls support, with InfoPath 2003 SP1, 14
 - default data types and, 43

- Controls task pane (*cont.*)
 - File and Picture category in, 67
 - in InfoPath 2003, 8
 - list controls in, 65–66
 - new controls, in InfoPath 2007, 22
 - new controls for, in InfoPath 2003 SP1, 14
 - template parts added to, 438–441
 - template parts inserted into the view from, 445
- Control text, aligning with adjacent text labels, 354
- Convert Data Connection dialog, 712, 712, 938, 938
- Convert feature, using Web service proxy and, 946
- Convert Main Data Source option, 132–135
 - benefits with, 132
 - for query connections, 357
 - on Tools menu, 537
- `_copiedNode` member variable, 1091
- Copy button
 - enabling/disabling, 1000
 - hosted form and, 994, 997
- Copy button event handler, **EnabledAllPasteButtons** method and, 1090 (listing)
- Copy Form Data button, 1083
- Copying to clipboard, Information Rights Management and, 547
- Co-signed signatures, using, 531–532
- Co-signing, 15
 - counter-signing *vs.*, 532
- Counters
 - connection, 961
 - InfoPath Forms Services performance counters, 960–961*t*
 - rate, 959
 - for tracking templates and documents, 961–962
- Counter-signatures, setting up, 532–533
- Counter-signing, 15
 - co-signing *vs.*, 532
- Crash recovery, 12
- Create a new blank form action, 394
- CreateCTP** method, 1095, 1100, 1108
- CreateCTP** parameters, 1097*t*
- Create New Folder dialog, 651
 - after selecting InfoPath form items, 649, 650
- CreateObject** method, 471
- Create Print Version dialog, 586
- CreateToolBar** method, 1084
 - implementation of, 1084, 1085 (listing)
- CredentialType** values, 946
- Cross-domain access, 471, 473
 - security prompt for, 474, 474
 - for user form templates, 931–932
- Cross-domain data connections, 711
 - allowing, 929–930
- Cross-domain privileges, 930
- CTPFactoryAvailable** method, 1095 (listing)
- CurrentUser** field, 806
- Custom (complexType) data type, 99, 99*t*
- Custom Control Added wizard page, 1047
- Custom controls, 14, 173–174
 - building with ActiveX technologies, 1037–1072
 - InfoPath 2003 SP1 and support for, 14
 - InfoPath support for, 438, 439
- Custom dialog with buttons, showing, 805
- Customers** and **Orders SqlDataAdapter** objects, creating typed dataset from, 304
- Customers** and **Orders** tables, adding a relationship to, in the dataset, 305
- Customers** and **Orders** Web service, example, 302–307
- Customers** data, displaying, 271
- CustomersOrders sample, 270
- Customers** parent table, **Orders** child table added to, 262
- Customers** secondary data source, 268, 268
- Customers** table, 375
 - in Northwind database, 258
 - structure of, for MOI Consulting firm, 369*t*
- Custom exporter, in Export Wizard, 1131
- Custom form code, 18
- “Custom Input Scopes with Regular Expression,” 198
- Customizations (advanced), 204–212
 - customizing commands, 210–212
 - editing default values, 204–208
- Customize Commands buttons, 181, 210, 210
- Customizing
 - aspects of Microsoft UpDown Control, 1048
 - code snippets, 860
 - data source, 116
 - Document Properties view, 974
 - e-mail support for a form template, 660–662
 - existing template parts, 452–454
 - layout, 39
 - layout tables, 37

- merge behavior in design mode, 564–569, 571, 573–576, 578–579
 - new bindings, 142–144
 - properties of ActiveX controls, 1047–1048
 - sample form templates, 28
 - submit functionality, 285
 - toolbar buttons for a browser-enabled form template, 872, 872
 - Travel Request Approval workflow, 638, 638
 - view properties, 75–76
 - workflow, 637
 - Customizing Expense Report sample form template, 658–660
 - Customizing Ribbon, 834
 - Custom merge XSL (advanced), 580–586
 - InfoPath used in creation of, 580–582
 - writing own merge XSL, 580, 582–586
 - Custom pattern box, 229, 229
 - Custom patterns, 228–229
 - Custom permission option button, 542
 - Custom submits
 - defining, 337
 - with form code, 383–384
 - with rules, 384–388
 - Custom task pane factory object, 1095
 - Custom task pane HTML, 817
 - CustomTaskPaneInterop sample form, filling out, 787
 - CustomTaskPaneInterop sample form template, 786
 - CustomTaskPane** methods, properties, and events, 1098–1099*t*
 - CustomTaskPane** object, 1097, 1098
 - Custom task panes, 783–790, 834, 1093–1104
 - add-ins and support for, 23
 - addition of, to forms, 784
 - advantages with, over existing HTML task panes in InfoPath, 1093
 - calling form script from, 789 (listing)
 - communicating between COM add-in and ActiveX control, 1100–1104
 - context-sensitive help in, 816–822, 824–831
 - creating, 1093–1100
 - InfoPath 2007 support for, 1073
 - navigation and pane visibility, 817
 - script and, 782–790
 - setting a value in Form’s data source from, 787 (listing)
 - simulating in browser, 882–883
 - writing, using VSTO 2005 SE, 1105–1106
 - Custom Task Pane sample, building, 1104
 - CustomTaskPanes** data member, 1107
 - Cut button
 - enabling/disabling, 1000
 - hosted form and, 994, 997
- ## D
- Data, 7
 - controls fit to, 353
 - how it changes, 744–745
 - performance and large amounts of, 264
 - retrieval of, from external sources, 241–296
 - sorting and filtering, 272
 - working with, 85–154
 - Data adapters, 244
 - role of, 241
 - Database connection
 - Data Connection Wizard for, 258, 259
 - submitting data with form template based on, 342–344
 - Database data types, unsupported, for submit, 343*t*
 - Database option, in Design a Form Template dialog, 245
 - Databases, 256–271, 297
 - forms created from, 30*t*
 - integrating database connection into form template, 268–271
 - setting up connections to, 257–267
 - submitting forms to, 336, 341–344
 - ubiquity of, 256
 - Database tables, nested, 270, 270
 - Data binding, 25, 85, 86–94
 - advanced, 137–151
 - creating data source automatically, 86–88, 91–92
 - template parts and, 443, 445
 - understanding, 138–139
 - understanding data source details, 93–94
 - DataBind** method, 1021
 - Data connection authentication, server and, 943–948
 - Data Connection dialog, after finishing the XML file Data Connection Wizard, 252
 - Data connection files, retrieval of, from centrally managed connection library, 942–943
 - Data connection library(ies), 711–714, 930
 - converting to, 938–939

- Data connection library(ies) (*cont.*)
 - domain trust form templates and, 461
 - domain trust user form template and
 - use of, 929
 - optionally deleting .udcx file from, 941
 - security and, 713–714
- Data connections, 242–246, 929–950
 - administration settings, 931–932
 - authentication considerations, 943–948
 - authentication to data sources, 935–936
 - in browser-based form templates, 710–714
 - centrally managed connection library, 936–943
 - conceptual understanding of, 242–243
 - creating, 245–246
 - cross-domain, 711, 929–930
 - e-mail, 948–950
 - embedded SQL authentication, 934–935
 - extended features of, 297–325
 - HTTP, 934
 - issues with, when inserting multiple instances of same template part, 446
 - mobile forms and, 725
 - need for, 242
 - performance tips, 956
 - response size, 933
 - security notices and, 255
 - security prompt with, 290
 - template parts and replacement of, 447
 - timeouts, 933
 - types of, and their commonly used properties and methods, 823*t*
 - unused, deleting, 380
 - updating template parts and, 451
 - various types of, 244
- DataConnections** collection, 822
- Data Connections dialog, 711
 - screening for potential data exchange beyond server realm, 903
 - SubmitToHost** and, 1030–1031
- Data Connection Wizard, 342, 344
 - added **Customers** and **Orders** tables shown in, 262
 - choosing submit connection in, 1031
 - configuring attachment options for submitting via e-mail, 340
 - for database connection, 258, 259
 - Data Connection dialog after finishing XML file, 252
 - final page of, for XML file, 251
 - first page of, for setting properties of e-mail when users submit form, 338
 - paying attention to last page of, 343
 - specifying how form works with Web service, 346
 - on a submit-only main connection, 347
- Data Entry Pattern dialog, 228, 228
- Data features, examples of, 742
- Data field labels, 58
- dataFields** group
 - within data source, 342
 - student sign-in form and, 347
- Data flow, for FormUtilities add-on, 1079, 1080
- Data formatting, settings for, 352
- Data-heavy features, performance tips, 954–956
- Data importer
 - print settings supplied to, 1144*t*
 - registering, 1142
- Data importer framework, 1142–1143, 1148
- Data integrity, 508
- Data loss, changing field or group names and, 95
- Data requirements
 - controls and, 43
 - defining, 31
 - for employment application form, 44
 - for MOI Consulting employment application, 32*t*
- DataSet, Web service code for return of, 306 (listing)
- Data set data, submitting, 301
- Dataset form
 - filling out, 375–377
 - filling out with default data, 375
- DataSet** form data, submitting, 369
- DataSet** object, setting up parameter mapping for, 372
- DataSet** object data, Web service code for getting and setting, 370 (listing)
- DataSet** objects, 300
 - types of, 301
- Datasets
 - form templates designed with, 370–374
 - support for only one at a time, 373
- Dataset serialization, 373
- Dataset structure, data source representative of, 373
- Data source, 26
 - for address block template part, 432, 433

- automatic creation of, 86–88, 91–92
- binding control to, 138–139
- binding mechanics behind, 744
- binding values from ActiveX control to data in, 1042
- clicking on control in the view to select bound control in, 87
- creation of, from XML document, 136
- disambiguation of, by use of Edit Settings dialog, 130
- for Document content type, 973, 974
- for expense report example, 161
- inserting **field1** in, 144, 144
- manual edit of, 110, 116–137
- meanings related to, 94
- namespaces in, 135–137
- organizing for MOI Consulting request form, 798–801
- sample, for Master/Detail example, 199–200, 200
- saving user name value in, 881
- shaping and customizing, 116
- signature groups in, 525
- sorting participants by **LastName** in, 772 (listing)
- for status report form template, 561, 561–562
- understanding details about, 93–94
- DataSource** collection, 822
- Data source details, 108–110
 - showing, 106
- Data source enhancements, InfoPath 2003
 - SP1 and support for, 14
- Data source events, 877–878
 - custom task pane and sinking of, 784
 - generating visual notifications for, 776 (listing)
- Data source field and group properties, 95–110
 - cannot be blank property, 101–102
 - optional field *vs.*, 105–106
 - data source details, 108–110
 - data type property, 98–101
 - default value property, 106–107
 - calculated default values, 107
 - static default values, 106
 - name property, 95–97
 - repeating property, 102–105
- Data source field details, 748
- Data source field or group, warning dialog
 - when changing name of, for published form, 96–97, 97
- Data Source link, in Design Tasks task pane, 845
- Data source nodes
 - choosing for binding, 139
 - extra, manual clean-up of, 91
 - icons in Data Source task pane for various types of, 87
 - naming, 92
 - optional, in XML Schema, 205
 - types of, 86–87
- DataSource** object, 822
- Data sources
 - authentication to, 935–936
 - conceptual understanding of, 242–243
 - populating list box control with, 317
 - recursive, 123
 - secondary, 241
- Data Source task pane, 9, 34*t*, 85, 86, 94, 845
 - binding template part to node in, 443
 - in InfoPath 2003, 9
 - name property and, 95
 - prefixes in, 135
 - secondary data source in, 253, 253
- Data Source Wizard, list of content types in, 971, 971
- Data states, 749–764
 - Changing** event, 749–757
 - Validating** event, 757–764
- Data tab, 176–182
 - diverse properties available with, 182
- Data type binding, field or group types and, 1045, 1045*t*
- Data type errors, 100
- Data type limitations, Web service with ADO.NET **DataSet** object and, 343
- Data type property, 98–101
- Data type validation error, invalid data in field and, 100
- Data validation, 6, 11, 18, 19, 118, 222–229, 426, 742
 - adding to form template, 223–227
 - description of, 222–223
 - mobile forms and, 724–725
 - pattern matching, 227–229
 - on **PreferredDate** field, 802
 - referencing user role in, 880
 - secondary data sources and, 311–312
 - specifying a user role in condition for, 630
 - submitting forms and, 331–334
 - updating template parts and, 451
 - user roles in, 621, 629–630

- Data Validation condition builder, 224, 225
- Data Validation dialog, 223, 223, 629
 - with listing for two conditions to validate
 - total number of guests, 226–227, 227
- Data validation errors
 - full error description for, 226, 226
 - inline alert for, 225
- DataValidation** node, detailed view of, 239
- Data Validation section, in Logic Inspector
 - dialog, 238
- Data View pane, 1093
- Date data type, 99*t*
- Date Picker control, 45*t*, 311
 - binding behavior of, 89*t*
- DateTime** class, 760
- DateTime data type, 99*t*
- DateTime** field, 774
- DateTime** type, 997
- Days** member, of **TimeSpan** class, 761
- DCL. *See* Data connection library
- DCL connection definitions, unapproved, 937
- Deactivation, of user-deployed form
 - templates, 904
- Debugging
 - form code, 740–741
 - previewing and, 741
 - Web service project in Visual Studio, 277
- Decimal (double) data type, 99*t*
- Declarative data validation, 98
- Decorations, XML data and, 773
- Default Choice Section
 - with context menu commands, 170
 - employment application form after
 - replacement of, 170
- Default data
 - calculated, 86
 - static, 85–86
- Default data connection timeout setting,
 - Maximum setting and, 933
- Default data types, for controls, 43
- Default formatting styles, setting
 - for controls, 82
- Default insert action, target form and, 569
- DefaultLCID DWORD** value, 1130
- Default merge actions, 561, 565
 - node type and, 560*t*
- Default permission, 542, 543
- Default print settings, Word print views
 - and, 603
- Default submit messages, overriding, 394
- Default template data, editing, 151–154
- Default value calculation button, 107
- Default value property, 106–107
 - calculated default values, 107
 - static default values, 106
- Default values
 - calculated, 107
 - editing, 204–208
 - removal of empty groups and, 572
 - setting to a user role, 629
 - static, 106
- Default Value section, of Data tab, 180
- Default value text box, 154
- Default view
 - MOI Consulting request form code
 - and setting of, 808–810
 - setting dynamically, 808
- Delete** method, manually removing errors
 - from **Errors** collection with, 766
- Delete operation, 86
- DeleteRange**, using, 780
- Deletes, cascading, 305, 306
- Deleting
 - nodes, 88, 121–122, 779–780
 - unused data connections, 380
- Denial-of-service attack, data connections
 - in browser-based form templates
 - and, 710
- Deployment
 - of digitally signed template, 487–493
 - of installable template, 486–487
 - of restricted form template, 462, 464–466
 - security and, 455–552
- Description** field
 - fully structured *vs.* semistructured
 - documents and flexibility in, 93
- Description field, in Publishing Wizard, 407
- Description** string value, LCID key and, 1143
- Design
 - of form template dialog, 27–30
 - of form templates with VSTO, 836–863
 - for merging forms, 561–564
 - partial signatures and changes in, 522
- Design a Form dialog, making selections
 - in, 691
- Design a Form link, 16
- Design a Form Template dialog, 28,
 - 342, 435
 - creation of main query connection
 - and, 245
 - in InfoPath 2007, 20–21, 22
 - opening, 28

- with Template Part option selected, 433, 433
- VSTO, 839
- Design a new category, on Design a Form Template dialog, 29
- Design Checker (checker), 691, 693–701, 1018
 - browser-enabled forms without, 701
 - browser-enabling a form template, 693–700
 - controls targeted by the messages in, for MOI feedback form template, 868, 869
 - designing browser-enabled template parts and, 701
 - errors and messages in, after making the feedback form template browser-compatible, 695, 696
 - form template postbacks and, 954
 - ignoring messages in, 701
 - in InfoPath 2007, 19
 - other uses for, 700
 - refreshing errors and messages in, 697
 - warning about Checker not being mobile aware, 722
- Design Checker item, on Tools menu, 405
- Design Checker link, in Design Tasks task pane, 845
- Design Checker task pane, 34*f*, 694, 867
 - post-import warnings in, 1126, 1127
 - report warnings in, 1140
 - shortcut to, 694
 - showing template parts needing updating, 451, 452
 - specified warnings listed in, 1141
 - Verify on Server option on, 872
- Designer lockdown, 504–507
 - globally disable design mode, 505–506
 - per form template, 504–505
 - trust and, 499–507
- Design form, Scrolling Region control in, 165
- Designing layout of form, 34–40
 - color schemes, 39, 40
 - Layout task pane, 34–35, 35, 37–39
- Design mode, 25, 26
 - after finishing Data Connection for submitting student sign-in data to Web service, 348
 - changing form files outside of, 423–424
 - Choice Group control in, 168
 - customizing merge behavior in, 564–569, 571, 573–576, 578–579, 580
 - custom task pane not shown in, 784
 - data connection file creation in, 711
 - default IRM permissions on form set in, 538
 - diagnosing problems with Web services (InfoPath) in, 288, 289
 - disabling, for form template, 504
 - discouraging and disabling, 455
 - File Attachment control in, 68
 - gridlines in, 36
 - Horizontal Region controls in, 167
 - Horizontal Repeating Table control in, 61
 - Hyperlink control in, 158
 - InfoPath usage in, 27–30
 - list controls in, 66
 - master and detail controls in, 63
 - MOI Consulting morale event scheduler form in, 750, 750
 - MultipleNotifications sample form in, 775
 - permissions granted and denied to user given form template in, 539, 539
 - previewing form in, 48
 - Print Multiple Views dialog in, 595, 595
 - Repeating Recursive Section in, 172
 - Repeating Table control in, 57
 - resizing controls in, 54
 - Resources Files menu item on Tools menu in, 27
 - Section control selected in, 47
 - seeing data source in, 86
 - specifying permission during, to apply when form is filled out, 543
 - template part, 434–435, 437–438
- Design once philosophy, 666, 692
 - form code adherence to, 875
- Design surface, 33
- Design targets, 434–435
- Design Tasks task pane, 435
 - accessing from anywhere, 39
 - Controls link in, 41
 - designing a template part in, 434
 - tasks within, 33, 33, 34*f*
 - in VSTO, 844, 844, 845
- Design this Form link, 16
- Design-time visual, 47
 - for new version of AddressBlock template part, 449, 450
- Design-time visual icons, over controls to indicate potential binding issues, 149
- Design-time visuals, 10, 65, 149–151
 - for Master/Detail controls, 201
 - when they appear on controls, 150
- Desktop database engine, 673

- destPath** parameter, 1136, 1136*t*, 1137, 1140
- Developer tab, enabling, 968
- Diagnostic Logging administration page, 925, 926
- Diffgram serialization, 374
- Digest authentication, 934, 944
- Digitally signed data
 - controlling whether or not to display
 - prompt giving user chance to digitally sign form before submission, 368
 - dialog giving user chance to digitally sign form before submission, 367
 - reminder about signing, 367
 - submitting, 365–368
- Digitally signed form templates
 - deploying, 487–493
 - digitally signed form data *vs.*, 508
 - high privileges and, 417
 - reasoning behind, 493
- Digital signatures, 15, 19, 217, 455–456, 507–538, 552
 - allowing only one signature, 527–531
 - defining, 507
 - enabling for specific data in a form, 697
 - flexibility and, 521
 - form performance and, 535
 - MOI Consulting request form code and addition of, 811–816
 - removing, 518–519
 - setting up counter-signatures, 532–533
 - standards, 534
 - using digitally signed data in forms, 509–526
 - using independent signatures (co-signing), 531–532
 - valid, 533
 - in XML data and Schema, 533–538
- Digital Signatures button, 513
- Digital Signatures category, browser-compatibility message within, under Form Options dialog, 696
- Digital Signatures dialog, 517, 530, 813, 815
 - tracking who has signed form in, 514
- Digital Signatures tab, signed Section controls and settings on, 525–526
- Digital signing, selecting certificate to use for, 490, 490
- Dirty** property, 988, 1000
- Disabled add-ins, 502
- Disabled commands, previewing a form and, 425
- Disabled Items dialog, 1114, 1114
- Disable InfoPath Designer mode setting, 505, 506
- Disabling, of Save and Save As, 330
- Disambiguated schemas, 130
- DispIdEnabled** ID, 1063
- DispIdValue** ID, 1063
- Display tab, 182–188, 215
 - checkboxes in, 183, 183
 - for Rich Text Box control, 186
 - of Text Box Properties dialog, 183
- Display text vertically checkbox, 188
- DLLs. *See* Dynamically linked libraries
- Dockable task panes, 845
- Document content type, data source for, 973, 974
- Document element, 103
- Document Information Panel, 966–977
 - with Document Properties view, 976, 976
 - in InfoPath 2007, 24
 - Settings page in, 970, 970
 - in Word 2007, 966, 967
 - Word document showing **Author** property in body of document and, 976, 977
- Document Information Panel dialog, 968, 968
- Document library(ies), 705–708
 - adding site content types to, 409, 410
 - defining policy on, 550
 - Include data for the active form only option for, 294
 - IRM settings for, 550, 550
 - permissions on, 548–552
 - property promotion, versioning, and permissions, 706
- Document Library option, 406
 - choosing to publish to Forms Services via, 679, 679
- Document/literal Web services, 288
- Document Object Model, 367
- Document properties dialog, in Word 2003, 966, 967
- Document Properties drop-down menu, 968, 969
- Document Properties-Server view, 972, 974
 - shown in Document Information Panel, 976, 976
- DocumentPropertiesTemplate sample, 973
- Document Properties view, customized, for editing standard document properties, 974, 975

DOM. *See* Document Object Model

Domain, defining, 467

Domain forms

- identification of, 467
- restricted flexibility with, 463
- running of, in local machine zone, 478

Domain form templates, as most common type, 469

Domain option, 428

Domain security level, 459, 467–482

- Internet zone, 475
- local intranet zone, 470–474
- local machine zone, 478
- moving published domain trust form, 479–481
- restricted sites zone, 470
- restricting Internet domain forms through the OCT, 476
- simulating a publish domain for testing, 481–482
- trusted sites zone, 477

Domain simulation, previewing form templates and, 428–429

Domain trust forms, 475

- Forms Services and, 461
- published, moving, 479–481

Domain trust form templates, 711

Domain trust level, list of any settings or features resulting in form template being at, 484

Do not include the section in the form by default, buttons enabled with, 181–182

Double-clicking, on InfoPath control in VSTO, 851–852, 852*t*

Drop-Down List Box control, 7, 10, 44, 45*t*, 53, 59, 446, 1037

- binding behavior of, 89*t*
- views and, 952

Drop Down List Box Properties dialog, 318, 319

DSN-less database connection, 257

DSP. *See* Data Source task pane

Due Date, **When** data source field promoted as, 411, 413

“Duplicate error” bug, 764

Dynamically linked libraries

- COM add-ins compiled in, 1074
- registering for WordPrint tool, 597

Dynamic features, 741

Dynamic user names, 619

E

Editable schema, simple, 137 (listing)

Edit Default Values button, 181

- in Section Properties dialog, 205

Edit Default Values dialog, 151–152, 152, 204

- cutaway of, when Choice exists in data source, 153

Edit Formula button, 158, 159

Editing. *See also* Manually editing data source

- code with InfoPath, 384
- default template data, 151–154
- default values, 204–208
- demoted properties, 412
- standard document properties, customized

 - Document Properties view for, 974, 975
 - structural, 308, 310

EditingStatus, note on closing, 1025

Edit Settings dialog, disambiguating data source by use of, 130

Edit SQL dialog, Test SQL Statement button in, 266

Edit-time visual, 511

Edit Values dialog, for Optional Section control, 206

Edit XPath button, 512

Electronic forms, 1116

Elements

- attributes *vs.*, 118
- with fields and groups, 94
- layout, 164
- as nodes, 94

Elevated privileges, 401, 403

e-mail

- access paths and opening form templates in, 464
- form template deployment to, 413–416
- restrictions related to publishing via, 415–416
- resulting e-mail in Outlook after finishing Publishing Wizard for, 415, 416
- sample command line for configuring, 949 (listing)
- sending form template via, 397, 403, 891
- submit forms via, 336, 337–341

e-mail addresses, controls for, on employment application form, 44

E-mail Attachments tab, in Form Options dialog, 660, 661

- e-mail data connections, 948–950
- e-mail forms (InfoPath), workflow with, 643–662
- e-mail introduction, configuring, 950
- e-mail properties, formulas for, 339
- e-mail publishing, in InfoPath 2003 SP1, 16
- e-mail settings, errors and failure in setting of, 949
- e-mail submit connections, for restricted form templates, 466–467
- e-mail submits, disadvantages with, 340–341
- EmailSubmit sample, 338
- e-mail task, requesting approval of travel request, 639
- Embedded images checkbox, 187
- Embedded SQL authentication, 934–935
- EmployeeInformation** group, setting, for repeating and referencing itself, 123
- EmployeeInformation** repeating group node, Merge Settings dialog for, 573, 573
- Employment application form template
 - after adding standard controls, 46
 - after replacing the default Choice Section, 170
 - with cells for first and last names, 37, 38
 - changing Repeating Section control with job information to a Repeating Table control, 57
 - with Choice Group control, 170
 - controls added to, 44
 - creation of, 30–33
 - with Optional Section controls, 50
 - preview of, 48, 48
 - with Repeating Section control, 53, 53
 - with row for address information, 38, 38
 - with title added by using Table with Title, 36
- Empty groups, removing, 571, 572
- EnabledAllPasteButtons** method, 1091
 - Copy button event handler and, 1090 (listing)
- Enabled** property, 1043, 1059
 - building custom controls for InfoPath using ActiveX and implementation of, 1055–1056
 - stock properties for SimpleInfoPathActiveX control and, 1051
- Enable** method, 1059
- Enable protection checkbox, 505
- EnableSessionState** property, 1018
- EnsureCommandsArray** method, 999, 1000 (listing)
- Enterprise Client License key, 678
- Enterprise features
 - enabling, 678
 - Forms Services and, 673
 - with SharePoint Server, 676, 678
- Enterprise Search, 19
- Enveloped signature, 534
- Environment** class, 883
- e** parameter, **OldValue** and **NewValue** from, 777
- Eraser, unavailability of, in VSTO, 861
- Error cases, multiple rules and, 232
- errorCategory** element, post-import warnings and, 1141
- errorCode** parameter, 765
- Error dialog
 - appearance of, when trying to change signed form data, 518
 - when domain form is not opened from its access path and published template is unavailable, 480, 480
 - when opening restricted form template attempting to query external data source, 461, 461
- Error handling, rules and, 389–391, 390
- errorMessage** parameter, **SubmitToHostEventHandler** method and, 1009
- errorMode** parameter, 765
- Error (red “X”) entries, server events and, 920
- Error reporting
 - Validating** event and, 757
 - validation and, 763
- Errors. *See also* Data validation errors
 - adding those that user never sees, 767 (listing)
 - capturing, from execution of Web service data connection, 825 (listing)
 - in Design Checker after making feedback form template browser-compatible, 695, 696, 697
 - failure to configure e-mail settings and, 949
 - full trust form template and, 494
 - MOI Consulting request form code and checking for, 811–816
 - in navigating to forms, 928
 - red asterisk for, 228, 228
 - refreshing, in Design Checker, 697
 - rules and, 234
 - showing on a button **Clicked** event, 766 (listing)

- Errors** collection
 - adding **UserDefined FormError** to, 765 (listing)
 - checking, for reported start or end errors, 763 (listing)
 - manually removing errors from, 766
- Errors.DeleteAll** method, manually removing errors from **Errors** collection with, 766
- EventArgs** parameter, 1106
- Event bubbling, 745–748
 - querying and, 819–820
- EventBubbling sample, 747, 748
 - showing **Site** and **Sender** node names as events bubble up the data source, 745, 746
- EventHandler** object, new, 998
- Event handlers, 742
 - for loading a form, 1088–1089
 - mistaken creation of, 853
 - in .NET vs. in InfoPath, 752
 - registering, 780–782
- Event logs
 - Forms Services errors in, 920, 921–924†
 - Windows, 920
- EventManager** object, 730, 742
 - definition of, in FormCode.Designer.cs file, 781
- Events, sinking, 737
- Events** property, of **ApplicationClass** object, 1082
- Event Viewer program, running, 920
- Example sample data, 154
- Excel, 3, 4, 605
 - COM add-ins supported by, 1073
 - Custom Task Panes added into, 1093
 - default Document Information Panel in, 966, 968, 970
 - exporting InfoPath form data to, 12
 - form importing and, 28, 29
 - Mime HTML file opened in, 606
 - status report data exported to, 608, 608–609
 - Trust Center dialog and, 499
 - VSTO package and, 834
- Excel Calculation, 672
- Excel documents, InfoPath default importers for, 1128
- Excel forms, built-in importer for, 1116
- Excel Services, 678
 - Excel workbooks, Import Options dialog for importing, 1122, 1122
- Exclamation point, red, meaning of, 149–150
- Exec** method, hosted form and, 994, 995
- ExecuteAction**, using to insert an Optional Section control, 828–829 (listing)
- ExecuteAction** method, of **CurrentView** object, 827
- ExecuteCommand** method, hosted form and, 992, 993 (listing), 996
- Execute** overrides, benefits of, 825
- Executive approval, counter-signatures and, 532
- Expense report example, data source for, 161
- Expense report form
 - Expression Box control and, 161
 - during preview, 163
- Expense Report sample form template, customizing, 658–660
- Expense Reports InfoPath form folder, 658, 659
- Expiration, setting, 314
- explicit** credentials, UDC file and use of, 946
- Exporters
 - process flow, 1133
 - registering, 1129–1131
 - registry key structure for, 1129, 1129
 - steps in creation of, 1128
 - understanding construction of form template and, 1140
- Export Forms to Excel menu item, on InfoPath actions context menu in Outlook 2007, 660
- Exporting forms, 605–612
 - choosing forms from which to export data, 607, 608
 - choosing type of data to export, 607, 607
 - InfoPath e-mail forms, 657–660
 - selecting data to export, 610, 610
- Export** method, parameters for, 1136, 1136†
- Export to Excel Wizard, after choosing to export only the data from a specific table, 609, 609
- Export To menu item, expanded, 606, 606
- Export Wizard, 611, 1132
 - accessing, 1130–1131
 - custom exporter shown in, 1131
- Expression, of qualifier, 217

- Expression Box controls, 7, 158–163, 972
 - binding behavior of, 90*f*
 - changing to Vertical Label control, 188
 - data fit to, 353
 - finding XPath of node and, 777
 - Extensible Stylesheet Language
 - Transformations, 6
 - External data sources
 - error dialog for failed connection to, 315
 - examples of, 241
 - relationships between forms and, 243, 243
 - External sources, data retrieved from, 241–296
 - External URL mappings, 928
 - Extracted source files, templates saved
 - as, 421–424
- F**
- Failed compilation, 740
 - False** Boolean value, form submits
 - and, 350, 351
 - Farm install, SQL Server required for, 674
 - Farms
 - entire, quiescing, 915–916
 - joining, 675
 - quiescing, 918–919
 - quiescing time for, 916
 - SharePoint database configuration settings
 - for, 675, 675
 - Farm topology, determining, 672
 - Faux message box
 - clicking OK button on the View with, 879 (listing)
 - showing in browser, 879 (listing)
 - Favorites link, 16
 - fibonacci-cmcl sample form template, 938
 - Fibonacci data connection, 941
 - Fibonacci form template, 937
 - Fib** Web service method, 937
 - Field (attribute)**, 94
 - Field (element)**, 94
 - Field (element with custom data type) type,
 - implementing control that binds to, 1050
 - Field names
 - changing, 95
 - dialog warning about data loss and, 177
 - Data tab and, 176
 - Field node type, merge customizations
 - available for, 570*f*
 - Field option, Specify Data Type Options page
 - with, 1045, 1046
 - Field or Group Properties dialog, 176
 - after specifying a custom merge XSL in the manifest, 581, 582
 - namespaces in, 108, 108
 - Rules and Merge tab on, 566
 - updating node names and, 92
 - validation tab on, 224, 224
 - Field(s), 86, 94
 - changing, 744
 - in Data Source task pane, 9
 - data type property and, 98
 - groups and, 143–144
 - InfoPath submit behaviors for, projected
 - over Include setting, 361, 362
 - of qualifier, 217
 - representation of, in data source, 87
 - File and Picture controls, 67
 - File Attachment control, 12, 14, 52, 68–70, 169, 827, 1020
 - binding behavior of, 90*f*
 - commands, 69
 - in design mode, 68
 - for filling out a form, 68
 - growing session size and, 911
 - performance tips, 954–955
 - with résumé file attached, 69, 69
 - File attachment data, increase in maximum
 - session size and, 912
 - File attachments, large, adding to form, 71
 - File name, form name *vs.*, 896
 - File name box, in Upload Data Connection
 - File page, 939, 940
 - File server, local intranet forms and, 471
 - FileSystemObject**, 473
 - File system path, opening SharePoint site
 - with use of, 1014, 1014
 - Filling out a form
 - control behavior, structural selection
 - and, 51–52
 - File Attachment control for, 68, 68–69
 - list controls for, 66
 - Master/Detail control and, 63–65
 - Master/Detail control in application review
 - form and, 64
 - Multiple-Selection List Box control for, 67
 - Picture control for, 72
 - secondary data sources and, 310–312
 - on a SharePoint page, 928–929

- in Web browsers, 665
- Fill out a form category, on Design a Form Template dialog, 29
- Fill out a Form dialog, in InfoPath 2003 SP1, 16, 17
- Fill-out-a-form mode, 25, 26
- Filter Data button, 628
- Filtering
 - of data based on user roles, 626–629
 - List Box items, 323–324
 - survey responses, 656–657
- Filters, 298
 - specification of, to show only grocery items from a selected category, 324
 - user roles in, 621
- Filter Web Parts, 678
- Find and Replace dialog, 854
- Find button, code for **Click** event handler and, 995
- find command, hosted form and, 995
- FindControl** method, 1087
- Find feature, from Visual Studio, 855
- FindReplaceFindNext** command, hosted form and, 995, 996
- Firefox, Forms Services and, 690
- FireOnChanged** method, 1058, 1069 (listing)
- FireTaskPaneReady** method, code for, 1103 (listing)
- Folder properties dialog, after clicking on InfoPath Forms tab, 651, 651
- Font, for SimpleInfoPathActiveX control, 1051, 1052
- Font task pane, 77, 77
- FoodPreferenceSurvey form, 649
 - sending to a list of e-mail recipients, 647
- Food survey form template, 646, 646
- Footer button, 589
- Footers
 - for printed reports, 589–591
 - repeating field inserted into, 590
 - team status report with, 591, 591
- Formative evaluation, 273
- Format menu
 - Apply Font to All Controls selected from, 81
 - Borders and Shading dialog accessed from, 36
- Format Painter, 79–80
 - in InfoPath 2003 Service Pack 1 (SP1), 12, 13
 - on Standard toolbar, 79, 79
- Format Painter cursor, 80
- Formatting
 - advanced, 76–82
 - conditional, 215–222
 - control, 78–79
 - multiple controls, 80–82
- FormCode.cs, 838
- FormCode.Designer.cs, 838
 - EventManager** object defined in, 781
- FormCode.Designer.xml, 838
- FormCode files, 838
- Form code (MOI Consulting request form)
 - adding, 803–831
 - checking for errors and adding digital signature, 811–816
 - context-sensitive Help in custom task pane, 816–822, 824–831
 - form to be filled out in one sitting, 806, 808
 - naming your nodes and buttons, 803–805
 - showing a custom dialog with buttons, 805
 - showing read-only properties from OM, 805–806
 - “start over” feature and setting a default view, 808–811
- Form code permission, CAS and, 497
- Form codes, 731, 875–885
 - accounting for performance in, 831
 - after upgrading to InfoPath 2007 OM version, 735†
 - compatibility of, with Forms Services, 884–885
 - custom submit with, 383–384
 - debugging, 740–741
 - design once philosophy and, 875
 - execution of, in browser, 876–877
 - hooking up events in, 735
 - InfoPath 2003 Service Pack 1 with, 842
 - performance tips, 953
 - querying via a rule instead of, 818
 - referencing user role in, 880
 - separation of, into partial classes, 781
 - upgrading from InfoPath 2003, 842
- Form conflicts, 466
- FormControl** class, 990, 991
 - methods available in, 981–983†
- FormControlCommandIds** class,
 - CommandIds** enumeration in, 994
- FormControl** control, 1015
 - Visual Studio Toolbox after addition of, 980, 980
- XmlFormView** control *vs.*, 1012

- Form Control methods, in InfoPath, 981–983*t*
- Form creators, as owners, 544
- Form data
 - digitally signing, 511–520
 - importing, 1142–1148
 - partially signing, 521–526
 - proper refreshing of, 684
 - saving, 429
 - searching, 875
 - submitting, 327–395
- FormDataTaskPaneActiveX**, 1101
- FormDataTaskPaneActiveX.dll, 1100
- FormDataTaskPaneAddIn, 1094
- FormDataTaskPane** namespace, 1100
- FormDataTaskPane sample, 1094
- Form Data Viewer COM add-in, 1111
- Form Data View task pane, 1094, 1095
- Form definition file, 27
- Form deployment, advanced, 904
- Form design
 - Design a Form Template dialog and, 28–29
 - starting points for, 30*t*
- Form Error dialog, 403
- FormError** object, 813
- Form errors, 765–767
 - dialog for clear presentation of, 811, 811–812
 - types of, 765
- FormErrorsCollection** object, 813
- FormErrorType** enumeration, 765
- Form events, 730, 742–744
 - testing by yourself, 743
- FormEvents_Loading** method, 739
- FormEvents sample, 743
- FormEvents_Submit** method, 829
- Form filling, security and, 461
- Form-filling sessions
 - new and existing, three quiesce states for, 915*t*
 - proper closure of, 687
- Form ID
 - Form Properties dialog for setting, 460, 460
 - publishing via e-mail and, 416
 - security designed into form templates and, 459
- Form importer framework, 29
- Form importers, 1115
 - built-in, 1116–1127
 - application version requirements for, 1117
 - third parties and creation of, 29
- Form library(ies), 705–706
 - behavior of, after form is closed, 708
 - property promotion, versioning, and permissions, 706
 - on SharePoint, 409
 - specific creation of, for templates, 405
- Form loading
 - event handlers for, 1088–1089
 - validation and, 763
- Form load latency, 955
- Form name
 - e-mail deployment and, 414
 - file name *vs.*, 896
 - in Site Collection Features list, 898
 - “Form-only” features, accessing, 330
 - “Form-only” model, disabling save and, 329–331
- Form options
 - settings for enabling/disabling certain features for users, such as ability to save a form, 330
- Form Options dialog, 513, 611, 626, 662
 - Advanced tab of, 579, 579
 - Browser category in, 872
 - browser-compatibility message within
 - Digital Signatures category under, 696
 - Compatibility category in, 694, 695
 - configuring toolbars for browser-enabled form template filled out in browser, 684, 685
 - E-mail Attachments tab in, 660, 661
 - Enable digital signatures for specific data in the form option in, 697
 - Open and Save tab of, 611, 612, 622, 622
 - Preview tab in, 624, 625
 - Programming category in, 732, 732, 784
 - screening all categories under, 902
 - Security and Trust category in, 468
 - Security and Trust tab of, 485
 - setting up custom task pane in, 784, 785
 - from Tools menu, 684
- Form performance, digital signatures and, 535
- Form Permission task pane, 545, 545, 548
- Form postbacks, reduction of, 953–954
- Form Properties dialog for setting form ID, 460, 460
- Form Registration Tool, 417
- Forms. *See also* Browser forms; Domain forms; Filling out a form; Submitting forms

- accessible, designing, 874
 - browser-enabled, print views in, 603–605
 - classifications of, 1116
 - with code, filling out and debugging, 738–740
 - controlling permissions to, 547–548
 - controls inserted into, 41, 43
 - creating in mobile browser, 722
 - custom task pane added to, 784
 - defined, 4
 - defining IRM permission on, 540
 - determining user's role when filling out, 620–621
 - digitally signed data used in, 509–526
 - errors navigating to, 928
 - full use of, without Internet connection, 312
 - importing into InfoPath 2007, 1119–1124
 - Information Rights Management
 - applied to, 538
 - inserting large file attachments and pictures to, 71
 - layout design for, 34–40
 - local intranet, 471
 - merging, 554–586
 - multiple records displayed in, 265
 - opening in browser, 683
 - partial signatures and design of, 522–526
 - permissions on, 542–548
 - permission with document libraries
 - and, 548–552
 - previewing in VSTO, 863
 - relationships between external data sources
 - and, 243, 243
 - source, 559
 - submitting to host, 1007–1010
 - target, 559
 - viewing all signatures on, 532
 - watching for bugs that circumvent validation in, 756
 - writing code behind, 730–741
- Forms dialog, digital Signatures category in, 509, 509
- FormServer.aspx page, 928
- FormServerTemplates** library, 896, 897
- Form session, refreshing and going back to, 718
- Form session state setting, maximum size of, 911–912
- Forms on Office Online link, 16
- Forms Server 2007, 953
- Forms Services *vs.*, 673
- installing, 673–675
- Forms Services, 413, 461, 665–726, 678.
 - See also* Advanced Forms Services
 - administration links to, 893, 893
 - administrative deployment to, 892–901
 - best practices for, 951
 - browser-based form control based on, 1011
 - browser-enabled forms in, 603
 - category names for, 920
 - configurations for filling out a form supported by, 715–716
 - configuring, 671, 675–677, 906, 906–907
 - controls supported in, 688*t*
 - data connection authentication and, 943
 - data connections synchronously executed by, 956
 - description of, 669–671
 - determining availability of, on server, 677
 - form code compatibility with, 884–885
 - full list of stadm.exe commands specific to, 899*t*
 - global administrative data connection settings for, 931, 932
 - host OM properties unavailable from, 1035
 - installation prerequisites, 672
 - installing, 671–675
 - integration of, with SharePoint Server 2007, 668, 669, 885, 888, 925–929
 - lack of support for **Changing** event in, 749
 - matrix of browsers supported for use with, 690, 691
 - mimicking default rendering page for, 1015
 - object model classes, events, properties and methods not implemented by, 886–887*t*
 - passing NTLM credentials for data connections with, 944, 944
 - publishing form template to, 678–681
 - publishing VSTO form templates to, 841
 - quiescing and, 912
 - session state and, 683, 908–909
 - SharePoint permissions and how they apply to, 707*t*
 - status report form filled out in browser with, 667
 - supported Web browsers, 690
 - upgrading to, 677
 - URL parameters automatically passed to form template in, 1021
- FormsServices** admin object, 916

- Forms Services Admin tool, authored by admin object model, 900, 901
- Forms Services errors, in Windows event log, 920, 921–924*f*
- Forms Services features sets, commonality of InfoPath feature sets and, 692, 692
- Forms Services form session state, configuring, 957, 957
- Forms Services site
 - flowchart for determining whether form publishes to SharePoint server or, 404
 - publishing form template to, 404–409
 - specifying server location for publishing to, 406
 - uploading to, 397
- Forms Services toolbar, Print View button on, 604, 604
- FormState** object, 908
 - exposing, by wrapping it as a property, 754
 - initializing, 753
 - for persist session data, 810
- Form template code, 731
- Form Template Conflict prompt, 464, 464
- Form template definition .xsf file, buttons in, 151
- Form template deployment
 - in InfoPath 2003 SP1, 16
 - performance tips, 951–952
- Form template designers, permissions and, 458
- Form template dialog, designing, 27–30
- Form template files
 - cached, 424
 - design mode lock and, 424
- FormTemplate** object, administration OM on, specific to quiescing, 918*f*
- Form template resource files, XML data included in, 250
- Form templates, 458
 - activating on Site Collection Features page, 898, 898
 - activating to site collection, 895
 - associating previewed forms with, 430
 - beginning design for, in VSTO, 837–842
 - best submit methods for, 335–337
 - browser-enabling, 693–700
 - changing number of, 29
 - code added to, 737–738
 - code-signing certificates for signing, 490
 - configuration of, for offline mode queries, 313
 - configuring digital signatures for, 509, 509
 - configuring security and trust settings for, 459, 459
 - creating Visual Studio templates from, 856
 - customizing e-mail support for, 660–662
 - custom widths for, 76
 - database connections integrated into, 268–271
 - data validation added to, 223–227
 - deactivation of, before removal of, 904
 - defined, 4
 - defining IRM permission on, 540
 - description of, 26–27
 - designing, 669
 - with a dataset, 370–374
 - entirely in Visual Studio, 835
 - with VSTO, 836–863
 - dialog about verifying credentials when opening, 541, 541
 - digital signing of, 493
 - domain trust and features in, 484
 - enabling for backward compatibility, 700
 - existing with code, in VSTO, 841–842
 - exporting, 611
 - external data source and design of, 245
 - extracting XML Schema from, 102
 - fully quiesced, 915, 915
 - gracefully upgrading, 680
 - hiding, 952
 - installable, 417–420
 - location for publishing tip for, 401
 - for Logic Inspector sample, 236, 236
 - lookups and opening of, 479
 - managed code control added to, 1065–1066
 - managing, 904–905
 - moving by republishing, 481
 - new blank, creation of, 30–33
 - new or existing, creating new Visual Studio project for, 839–840
 - opening existing forms, 28
 - permissions on, 539–542
 - previewing, 424–429
 - primary key field in, 376
 - programming options, which are saved as defaults for, 736, 736
 - publishing, 11
 - for administrator approval, 889–891, 890, 941–942

- equivalence, 891
 - to Forms Services, 678–681
 - quiescing, 913–915
 - status of, 14, 914
 - time for, 916
 - upgrading of and, 916–917
 - requirements definitions and design of, 31
 - resource files added to, 858
 - restricted, 460
 - restricted permission for user during design
 - of, 541, 541
 - restrictions on defining permissions on, 540
 - saving
 - as extracted source files, 421–424
 - with managed code, 735
 - publishing with InfoPath and, 398–420
 - screening for approval, 902–903
 - secondary data source binding and design
 - of, 307–309
 - secondary query connection created
 - for, 245–246, 246
 - security designed into, 459–460
 - seeing form files in, 421
 - submitting data with those based on
 - database connection, 342–344
 - template parts inserted into, 442–447
 - testing, 48
 - with artificial domains, 482
 - tracking CMCL references in, 940
 - two different object models available
 - for writing code behind, 742
 - understanding, 1137–1140
 - uploading to server, 893–895
 - user roles used in, 621
 - verification of, 902
 - VSTO environment during design
 - of, 843, 843
 - FormTemplates** collection, 901
 - Form template size, processing time and, 419
 - FormTemplates** library, 904
 - Form template target, 435
 - Formula edit box, 629
 - Formulas, for e-mail properties, 339
 - FormUtilities add-on, data flow for, 1079, 1080
 - Form Utilities COM add-in, 1111
 - FormUtilities sample project, 1077
 - Form Utilities toolbar, 1083, 1084, 1091
 - FormVersion** attribute field, 800, 806
 - Form view state, performance tips, 956–957
 - Form Warning dialog, 235, 390
 - Forward slash, enabling signatures for
 - specific data in a form and use of, 697
 - Fragment commands, 210
 - Friendly labels, 119
 - Friendly names
 - in Set of Signable Data dialog, 524
 - signable data and, 525, 528
 - FrontPage, COM add-ins supported by, 1073
 - Full Rich text checkbox, 187
 - Full trust forms
 - previewing, 792
 - restricted flexibility with, 463
 - restricting, 495–498
 - Full trust form templates, 417, 480, 902
 - cross-domain connections and, 929, 930
 - designing, 485–486
 - errors with, 494
 - error that occurs when opening template
 - that is neither digitally signed nor installed, 494, 494
 - Save** and **SaveAs** and, 831
 - Full trust security level, 459, 484–498
 - deploying digitally signed template, 487–493
 - deploying installable template, 486–487
 - full trust form template errors, 494
 - restricting full trust forms, 495–498
 - Fully quiesced form templates, 915, 915
 - Fully structured documents, 93
 - Function drop-down list box, 411, 412
 - Fx button, 158
- ## G
- GAC. *See* Global assembly cache
 - General tab, in Properties dialog for
 - Microsoft UpDown Control, 1048
 - Generic node names, renaming, 799
 - Genre** field, 93
 - GetButton** method, 1088
 - function of, 1087
 - implementation of, 1086, 1087 (listing)
 - GetCurrentToolBar** method, 1086, 1087
 - implementation of, 1084, 1085 (listing)
 - GetDataConnectionFile.aspx Web page,
 - case-insensitive parameters accepted by, 942–943
 - get-documentElement** function, using, 585 (listing)

- GetInterfaceSafetyOptions** method, 1065
 - GetRoleForUser** method, 881, 882
 - GetSavedItems** method
 - Web service response from running of, 280
 - Web service sample, 275, 276, 277*t*, 279, 282, 286
 - GetSubAreas.cs sample, 820
 - GetSubAreas sample file, 800
 - GetSubAreas** secondary data source, 821
 - querying, 821
 - GetSubAreas** Web service, 792
 - GetTile** Web service method, designing
 - TerraServer form with, 290
 - Getting Started dialog, 27, 494, 655, 1119
 - with form templates in InfoPath cache, 465, 465
 - in InfoPath 2007, 16, 20, 21
 - get_Value** method, 1057, 1058, 1060
 - Global assembly cache, 498, 1061
 - Globally disable design mode, 505–507
 - Global script, using body **onload** event
 - instead of, 1035
 - Go to Next Error feature, 758
 - Grab handles, for resizing controls, 78
 - Graceful upgrades, of form templates, 680
 - Gridlines, 36
 - Grocery items, in XML file to populate a data connection, 317 (listing)
 - GroceryItemsData sample, 317
 - Grocery list form
 - creating, 208
 - filling out
 - after adding note-taking feature, 322, 322
 - with category filters, 325
 - when items are retrieved from a data connection, 320
 - note-taking capability added to, 322, 322
 - Grocery list form template, 318
 - Grocery shopping list
 - filling out, 209
 - three sections of, in Repeating Section Properties dialog, 209
 - GroceryShoppingList sample, 208, 317
 - GroupBox control, IP insurance application
 - after addition of, 984, 984
 - Group names
 - changing, 95
 - selecting, for a role, 618–619
 - Group names checkbox, 618
 - Group nodes, binding template part to data
 - in form template and, 443, 445
 - Group node type, merge customizations
 - available for, 570*f*
 - Groups, 87, 94
 - changing, 744
 - in Data Source task pane, 9
 - as elements, 94
 - fields and, 143–144
 - InfoPath submit behaviors for, projected
 - over Include setting, 361, 362
 - GuidAttribute** attribute, 1078
- ## H
- Hackers
 - globally disable design mode and, 506, 507
 - postbacks per form session state setting
 - and, 910
 - Handwriting, improving recognition of, 195
 - Hard-coded credentials, in UDC file, 945, 946
 - Hard-coded passwords, 752
 - Header button, 589
 - Header format dialog, 589–590, 590, 591
 - after adding **Team** field and date, 591
 - Header information, team status report
 - with, 591, 591
 - Header rows, choosing number of, in Change to Repeating Table dialog, 1125, 1126
 - Headers
 - for printed reports, 589–591
 - repeating field inserted into, 590
 - Health monitoring, server and, 962–963
 - Hello, world! message box, 879, 879
 - HelloWorld: FilePath** method, Web service sample, 275, 277*t*, 278
 - HelloWorld definition, in Web service WSDL, 279 (listing)
 - HelloWorld** method, Web service sample
 - and, 275
 - Helpdesk request, submitting, dialog prompt
 - in which user must click Send for, 341
 - Hide Gridlines button, in Tables toolbar, 36
 - High-level summary, in employment application form, 31
 - HKEY_CLASSES_ROOT, CLSID** key added
 - under, 1066
 - Horizontal Region control, 972, 1147
 - binding behavior of, 90*t*
 - in design mode, 167
 - in InfoPath 2007 Controls task pane, 22
 - Horizontal Region layout element, 164, 166–167

- Horizontal Repeating Table control, 60–61
 - binding behavior of, 89*t*
 - in design mode, 61
 - filling out a form and, 62
 - in InfoPath 2007 Controls task pane, 22
 - HostClassLibrary, 1004
 - HostClassLibrary.dll, 1006
 - Hosting, 856
 - Hosting environment
 - as destination, Submit Options dialog with, 1008, 1008
 - submit connection, 336, 337
 - submitting to, 391–392, 1007–1010
 - Hosting InfoPath, 965–1036
 - creating InfoPath host application, 977–980, 984–1010
 - Document Information Panel, 966–977
 - hosting InfoPath control in a Web browser, 1011–1016, 1018–1025, 1027–1035
 - hosting scenarios, 966
 - Host page
 - handling multiple **SubmitToHost** form connections in, 1031 (listing)
 - running arbitrary script in, 1034
 - Host** property, using, 1004–1007
 - HostUtilities** class, 1005 (listing), 1006
 - “How to Use the ADO SHAPE Command,” 267
 - HTML, custom task pane, 817
 - HTMLDocument** object, 788
 - HTMLTaskPane** object, 787, 788
 - HTTP
 - data connections, 934
 - making connection files available through, 942
 - Submit Options dialog for Web server submit via, 381
 - submitting form to Web server via, 380–383
 - HTTPS, secure submit with, 383
 - HTTP status codes, submit and, 351
 - Hung upload, recovering from, 895
 - Hybrid controls, 88
 - Hyperlink control, 7, 88, 156–158
 - Advanced tab for, 193, 193
 - binding behavior of, 90*t*
 - in design mode, 158
 - Hyperlink data type, 99*t*
 - Hyperlinks, 156
 - Hyperlink sample file, 88
 - Hyphens, XML, naming nodes and, 105
- I**
- Icons
 - changing, template parts and, 448
 - in Data Source task pane for various types of data source nodes, 87
 - InfoPath controls ad, 846
 - InfoPath e-mail item, 652
 - missing, in toolbars, 1020
 - IConversionManager** interface, methods of, 1134*t*
 - IConversionManager2** interface, method of, 1134*t*
 - ICTPFactory** object, 1095
 - ID, template part, 453, 454
 - IDictionary** interface, 753
 - IDispatch** property type, 1056
 - Idle** event, setting up event handler for, 997
 - Idle state, updating toolbar buttons during, 997–1000
 - IDTExtensibility2** interface, 1075–1076, 1078, 1113
 - methods of, 1075*t*
 - ID values, giving to all Button controls, in Button Properties dialog, 803–805
 - IE. *See* Internet Explorer
 - #if/#endif** compiler directive statements, 734
 - IFormDataTPActiveXCtl** interface, 1101
 - IFormDataViewAddIn** interface, 1102 (listing)
 - accessing, 1103 (listing)
 - IFormTemplateConverter**, InfoPath 2007 support for backward compatibility and, 1131
 - IFormTemplateConverter2** interface
 - implementing, 1131–1135
 - methods of, 1133*t*
 - IHostUtilities** interface, 1004, 1005, 1006
 - IInfoPathDataImporter** interface
 - importing form data and, 1143–1148
 - methods of, 1144*t*
 - IInfoPathEditor** interface, 990
 - IInfoPathMaskedTextBox** interface
 - creating, 1062, 1063 (listing)
 - IInfoPathMaskedTextBox** interface
 - methods, implementation of, 1063 (listing)
 - IInfoPathViewControl** interface
 - properties of, 1147*t*
 - querying controls for, 1146
 - IInitEventHandler** interface, 1001

- IIS. *See* Internet Information Services
- Immediate debug window, running any code on-the-fly in, 764
- Impersonation, previewing as user role and, 428
- Imported forms, fixing, 1125–1126
- Importer/exporter object, simple, class declaration for, 1132 (listing)
- ImportErrors.xml file, 1141
 - for MOI Consulting expense report form, 1140, 1141 (listing)
- ImportErrors.xml** file, 1140
- Importers
 - process flow, 1133
 - registering, 1129–1131
 - registry key structure for, 1129, 1129
 - steps in creation of, 1128
 - understanding construction of form template and, 1138–1140
- Import/export framework, 1115
- Import Form Data dialog, 1143, 1143
- Importing
 - locked open files and, 1121
 - post-import warnings and, 1126–1127
- Importing form data, 1142–1148
 - data importer framework, 1142–1143
 - IInfoPathDataImporter** interface, 1143–1148
- Import link, on Design a Form Template dialog, 29
- Import** method, 1140, 1145
 - parameters for, 1136, 1136*t*
 - sample implementation of, 1146 (listing)
 - signature for, 1144
- Import Options dialog
 - for importing Excel workbooks, 1122, 1122
 - for importing Word documents, 1121, 1121
- #import** statement, 1102
- Import Wizard, 1132
 - final page of, 1123, 1123
- Import Wizard page
 - for selecting file to import, 1119, 1120
 - for selecting importer to use, 1120
- Improvement plans, 278
- Inactive add-ins, 502
- Include data for the active form only option, for document libraries, 294
- Include setting, InfoPath submit behaviors for fields and groups projected over, 361, 362
- Incoming alternate access mappings, 928
- Independent properties, changing/resetting of, after rebinding, 141*t*
- Independent signatures (co-signing), using, 531–532
- Indeterminate state, 331
- Industry-defined schemas, 128
- Infinite change loops, 777
- Info** group, 522
- InfoPatch, global cached queries setting in CK spell for main, 314, 315
- InfoPath. *See also* Hosting InfoPath
 - ActiveX controls and building custom controls for, 1049–1072
 - advantages with, 11
 - advantages with Custom Task Panes over existing HTML task panes in, 1093
 - bringing into Visual Studio, 835–836
 - building
 - ActiveX control for, with use of C#, 1061–1072
 - COM add-in for, 1076–1092
 - XML tree structure in Word to match structure of data source in, 599
 - classes of code supported by, 729
 - closing before beginning or repairing VSTO installation, 836
 - COM add-ins supported by, 1073
 - custom merge XSL created in, 580–582
 - Custom Task Panes added into, 1093
 - default merge functionality in, 559
 - description of, 3–4
 - editing code with, 384
 - event handlers in .NET *vs.*, 752
 - formatting options with, and those in Word, 77
 - form events exposed by, 743*t*
 - form template always designed for, 692
 - form templates in, 26–27
 - installing as an administrator, 457
 - interfaces and properties that controls should implement to work well in, 1050*t*
 - managing add-ins in, 1111–1114
 - merging forms in, 555–560
 - object model in, 729, 741–790
 - Office Configuration Tool security settings for, 477
 - passing NTLM credentials for data connections with, 944, 944
 - preview feature and, 425

- programming paradigm, 742
 - Resource Files dialog in, 858, 858
 - saving and publishing form templates
 - with, 398–420
 - searching for Web services by using
 - UDDI in, 300
 - security and, 455
 - summary thoughts on use of .NET controls
 - in, 1071–1072
 - TerraServer Web service used in, 289–290
 - two-dimensional flow layout in, 798
 - two modes for running of, 25
 - using in design mode, 4
 - using Web service data connection in, 273
 - value to, 5
 - VSTA bundled with, 834
 - Web service compatibility with, 288–289
- InfoPath actions context menu, 659, 659**
- InfoPath.ApplicationClass, 1107**
- InfoPathChart control, implementing control
 - that binds to XML subtree and, 1050–1051
- InfoPath client, detecting, 883–884
- InfoPathControl** interface, 1071
 - building custom controls for InfoPath using
 - ActiveX and implementation of, 1058–1061
 - implementing, 1069–1070
- InfoPathControl** interface methods, 1059, 1059*t*
- InfoPathControlLibrary project, 1066
- InfoPathControl** methods, 1070 (listing)
- InfoPath controls
 - as icons, 846
 - XML Schema created “behind” data source in XSD file and, 111–115*t*
- InfoPath data connection
 - converting to use a server-defined data connection file, 711, 712
 - My Data Sources connection *vs.*, 260
- InfoPath design mode, data types available in, and their value ranges, 99*t*
- InfoPath e-mail forms, 22, 614
 - creating rules for, 648–650
 - customizing e-mail support for a form template, 660–662
 - designing and using, 644–648
 - disabling for InfoPath 2003-compatible forms, 662
 - disabling in Outlook 2007, 643
 - filling out, 652–656, 653, 654
 - merging and exporting, 657–660
 - in Outlook reading pane, 653, 653
 - replying to, without opening, 655
 - restrictions of those published to e-mail recipients, 645
 - sending to other e-mail applications, 644
 - sorting, grouping, and filtering responses, 656–657
 - storing received forms in Outlook folders, 650–652
 - submitting, in Submit dialog, 654, 654
 - using sample form template as, 658
 - workflow with, 643–662
- INFOPATH.EXE program, in OFFICE12
 - installation directory, 495
- infopath.exe program, preview feature and, 425
- InfoPath feature sets, commonality of Forms Services features sets and, 692, 692
- InfoPath form code, writing in host page with use of **XmlFormView**, 1025, 1027–1028
- InfoPath form control, hosting in Web browser, 1011–1035
- InfoPath Form Control methods, 981–983*t*
- InfoPath form design, basics of, 25–83
- InfoPath form folder, 644
- InfoPath forms, filling out, in the browser, 666–668
- InfoPath Forms Services, 17
 - success of, 18–19
- InfoPath Forms Services pack, 963
- InfoPath Forms Services performance counters, list of, 960–961*t*
- InfoPath Forms Services performance object
 - installing, 958
 - server-side performance and, 959
- InfoPath form template cache, 480
- InfoPath Form Template folder, 854
- InfoPathFormTemplate1 folder, files within, 838
- InfoPath Form Templates** code group, 472
- InfoPath host application
 - creating, 977–980, 984–1010
 - creating, in .NET, 979–980, 984–990
 - handling events from the form, 1001–1004
 - host to InfoPath communication, 990–1000
 - submitting a form to the host, 1007–1010
 - using **Host** property, 1004–1007

- InfoPath import/export framework, 1128–1140
 - implementing **IFormTemplateConverter2** interface, 1131–1135
 - importing and exporting, 1135–1137
 - registering your importer/exporter, 1129–1131
 - understanding form templates, 1137–1140
- InfoPath interfaces, location for defining of, 1060
- InfoPathManagedObjectModel** symbol, 734
- InfoPathMaskedTextBox** class, 1064
 - after addition of COM Interop attributes, 1062 (listing)
- InfoPathMaskedTextBox** class definition, 1069 (listing)
- InfoPathMaskedTextBox control, installation of, 1066
- “InfoPath Restricted,” as not “Internet Explorer Restricted,” 470
- InfoPath schema inference, 126
- InfoPath settings, limited, on VSTO Options dialog, 863–863
- InfoPath Team Blog, 429
- InfoPath 2003, 7–12
 - C# form code before upgrading the OM version, 734*t*
 - controls task pane in, 8
 - Data Source task pane in, 9
 - opening version 2007 form templates with, 716
 - pulling external data into, 10
 - upgrading code from form template compatible with, 733
 - upgrading form code from, 842
 - Visual Studio 2005 support for, 835
- InfoPath 2007, 17–24
 - application version requirements for built-in form importers in, 1117
 - building reusable components with, 431
 - built-in form importers in, 1116–1127
 - controls and their binding behaviors, 89–91*t*
 - custom task panes supported by, 1073
 - default importers for Excel and Word documents in, 1128
 - importing form into, 1119–1124
 - Information Rights Management with, 538
 - managed code and, 731
 - richness of, 665
 - sample form templates with, 28
 - saving forms during preview in, 429
 - Visual Studio 2005 support for, 835
 - Visual Studio Tools for, 833–863
- InfoPath 2007 form template, opening with InfoPath 2003, 716
- InfoPath 2003 Service Pack 1 (SP1), 12–16
 - controls added in, 14
 - with form code, 842
 - release of, 12
- InfoPath 2003 Toolkit for Visual Studio, 835
- InfoPath 2007 VSTA, 842
- InfoPath Web service, connection timeouts, 360
- InfoPath Web services, 280–287
- Information Rights Management, 456, 538–552
 - direct mapping of SharePoint permissions to, 552*t*
 - enabling, on SharePoint Central Administration site, 549, 549
 - in InfoPath 2007, 23
 - note on not using as security feature, 538
 - permission(s)
 - with document libraries, 548–552
 - on forms, 542–548
 - on form templates, 539–542
 - mapping default SharePoint roles to, 551*t*
 - policy, 550
 - setting for individual users, 551–552
 - VSTO and, 862
- Information technology, 3
- InitEventHandler** event, 1002
- InitEventHandler** method, three parameters taken by, 1001–1002
- Initialization, safety of ActiveX controls and, 1039, 1053–1055
- InitializeComponent** method, uncommenting, 306–307
- InitializeEventArgs** object, 1022
- Initialize** event handler, adding in host page for **XmlFormView1** control, 1023
- Initialize** method, importer/exporter and, 1134, 1135 (listing)
- Initiator roles, 620
- Init** method, 1060, 1070, 1071, 1072
- Ink-entry mode, in InfoPath 2003 SP1, 16
- Ink Picture control, 14, 72–73, 79
 - binding behavior of, 90*t*
 - in InfoPath 2003 SP1, 16
 - with text entered with a Tablet PC stylus, 73
- Inline alert, for data validation error, 225
- InnerXml** property, 365

- InputParameters** property, 1022
- Input scope, 195
 - controls providing support for, 195*t*
 - standard, Input Scope dialog with, 196
- Input Scope button, 194, 195
- Input Scope dialog
 - with custom input scopes, 197
 - new, showing Phrase List option, 197
 - with standard input scopes, 196
- InputScope** enumeration, in MSDN, 196
- Insert AutoText drop-down list box, 590
- Insert Expression Box dialog, 158, 159
- Insert Formula button, 154
- Insert Formula dialog, 159, 576, 627, 629
 - after adding a calculated default value, 628, 628
 - after checking the Edit XPath checkbox, 160
 - after choosing a field, 159
 - after inserting **sum** function, 162
 - with formula setting this field's default value to today's date plus 45 days, 107, 107
- Insert Function button, 161
- Insert Function dialog, 160, 160
- Insert Horizontal Repeating Table dialog, 61
- Insert Hyperlink dialog, 156, 157
- Insert layout controls section, in Layout task pane, 39
- Insert Layout Table button, in InfoPath 2003 SP1, 12–13
- Insert Layout Table toolbar item, in InfoPath 2003 SP1, 13
- Insert Master/Detail dialog, 63
- Insert Picture Control dialog, 71
- Insert Picture dialog, 187
- Insert Vertical Label dialog, 164, 164
- Installable form templates
 - access path for, 486
 - creating, 479
 - deploying, 486–487
 - final page of Publishing Wizard during creation of, 419, 419
 - first page of Publishing Wizard during creation of, 417, 418
 - publishing, 417–420
 - reasons for not wanting to publish form as, 420
- Install Certificate button, 493
- Installed form, error that occurs when attempting to remove form from dialog, 495
- Installed form templates
 - listing of, in registry, 487
 - removing, 494
- Installer file, choosing a location for saving, 418, 418
- Installing Forms Services, 671–675
- Insufficient security privilege error, 403
- Integer** field, 774
- Integer Format dialog, for Whole Number (integer) data types, 179
- IntelliSense information, lack of, in object browser or ToolTips, 738
- INTERFACESAFE_FOR_UNTRUSTED_CALLER**, 1054, 1065
- INTERFACESAFE_FOR_UNTRUSTED_DATA**, 1054, 1065
- InternalStartup** definition, for MOI Consulting request form template, 804 (listing)
- InternalStartup** method, 734, 1002
 - restriction of, to registration, 781
- Internet, 892, 1028
- Internet domain forms, restricting through Office Customization Tool, 476
- Internet Explorer
 - filling out a browser-enabled form template in, 18
 - InfoPath and use of settings in, 476
 - Mime HTML file opened in, 606
 - programming, 788
 - security settings, 467
- Internet Explorer 6, Forms Services and, 690
- Internet Explorer Web content zones, 468
 - with security levels, 469
- Internet Information Services, 676
- Internet Information Services Manager,
 - copying physical path for SharePoint root site collection from, 1013, 1013
- Internet Information Services worker threads, data connection timeouts and, 933
- Internet zone, 475
- InvokeHost** method, 1028
- IObjectSafety** interface, 1049, 1061
 - definition of, 1064 (listing)
 - implementing, 1064–1065
 - safety of ActiveX controls for scripting, initialization and, 1053–1054
- IObjectSafety** interface methods and constants, implementation of, 1065 (listing)

- IOleCommandTarget** interface, 997
 - accessing through form control, 993
 - calling **QueryStatus** method of, 999
 - defining, 991
 - dependencies of, 991, 992 (listing)
 - ipdesign.dll file, 1132
 - ipeditor.dll file, importing into C++ header file, 1143
 - IP Insurance (fictional company), insurance forms application for, 978–979
 - IP insurance form application
 - after loading the auto insurance form, 986, 986
 - creating in .NET, 797–980, 984–990
 - standard toolbar for, 991, 991
 - IP life insurance form
 - hosting in MyPage.aspx, 1019, 1019
 - state of, while dialog box still has focus, 1034, 1034
 - IP life insurance form template, code
 - behind Validate Form button in, 1033 (listing)
 - IPropertyNotifySink** interface, 1051, 1058
 - calling into, 1066–1068
 - declaration of, 1067 (listing)
 - IRM. *See* Information Rights Management
 - IsBrowser** property, 883
 - demonstrating, 884 (listing)
 - in various environments, 884*t*
 - ISimpleInfoPathControl** interface, 1056
 - IsMobile** property, 884
 - demonstrating, 884 (listing)
 - in various environments, 884*t*
 - IS_NUMBER** input scope, 195
 - Issuer Statement button, 493
 - ISubmitToHostEventHandler** interface, 1009
 - IsValidEstimate** method, 1005
 - IT. *See* Information technology
 - Item-level granularity, permissions
 - in SharePoint and, 706
 - IUnknown** property type, 1056
 - IViewObject** interface, 1061, 1071
- J**
- JavaScript, 908
 - functioning of browser-enabled forms and enabling of, 703
 - Job application form, 331–333
 - first view of, 332
 - last page of, 333
 - JobApplication sample, 332
 - JScript, 10, 11, 497, 697, 730, 731, 782, 783, 790
 - global, 1034
 - inserting into host page, 1033–1035
- K**
- Kerberos authentication, 944
 - Key field, merge settings for, 568
 - KPI, 678
- L**
- Labels
 - data field, 58
 - friendly, 119
 - Language settings, Microsoft Installer file and, 417–418
 - Large file attachments, adding to forms, 71
 - Latency, 866
 - form load, 955
 - Layout
 - customizing, 39
 - elements, 164
 - Layout link, in Design Tasks task pane, 845
 - Layout of form
 - designing, 34–40
 - importing, 1117
 - Layout tables, 7
 - color schemes and, 39
 - customizing, 37
 - gridlines in, 36
 - selecting entire, 38
 - use of, *vs.* use of Section controls, 47
 - Layout task pane, 34, 34*t*, 35, 39
 - merge and split cells category of, 37, 37
 - LCID. *See* Locale ID
 - LCID keys, string values to be added under, 1130*t*
 - Leaf nodes, 86–87
 - Leave the form open action, 394
 - Level 3 OM, access to, 484
 - LifeInsurance_BrowserEnabled_NotifyHost sample form template, calling **NotifyHost** method behind, 1032
 - LifeInsurance_BrowserEnabled sample, 1018
 - Linked images checkbox, 187
 - Linux, Forms Services and, 690
 - List Box controls, 7, 44, 45*t*

- binding behavior of, 89*t*
 - connections between secondary data sources and, 316–324
 - duplicate items in, 324
 - secondary data showing in, 317–321
 - secondary data sources and populating of, 298
 - type-ahead support in, 44
 - List Box entries, selecting secondary data source node from XML file connection that provides data for, 319
 - List Box items
 - filtering, 323–324
 - main data source used for, 321–322
 - List controls, 65–66
 - in design mode, 66
 - for filling out a form, 66
 - simulating, 698
 - List Form Templates function, 900
 - List-item permissions, 711
 - Lists, SharePoint libraries and, 292–295
 - List view, InfoPath controls in, 846, 846
 - Literal** control, finding more information on, 1033
 - LMZ. *See* Local machine zone
 - Loading** event, 737, 738, 739, 742
 - canceling, 806
 - sinking, 753, 881, 883
 - in form template to use the parameters, 1024 (listing)
 - LoadingEventArgs** property, 1022
 - Loading** event handler, for MOI Consulting request form, 807*t*
 - Loading Form dialog, 702
 - Locale ID, registering importer/exporter and, 1129
 - LocalIntranet**, CAS permission set for, 496*t*
 - Local intranet forms, 471
 - LocalIntranet** permission, 496, 497
 - LocalIntranet** trust assembly, 496
 - Local intranet zone, 470–474
 - settings for defining, 470, 470
 - Local machine zone, 469
 - types of domain forms run in, 478
 - Location
 - of administrator-approved templates, 895
 - alternative, for template parts, 442
 - of template parts needing updating, 451–452
 - Location** field, promoting, 408, 410
 - Logging, 919–927
 - Unified Logging Service, 925–927
 - for WFE servers, 925
 - Windows Event Viewer, 920
 - Logic
 - behind Add Additional Details Button control, 827
 - MOI Consulting request form template and addition of, without code, 801–803
 - Logic added without code, 215–240
 - conditional formatting, 215–222
 - data validation, 222–229
 - Logic Inspector, 235–239
 - rules, 229–235
 - Logic Inspector, 235–239, 446
 - form template postbacks and, 954
 - showing logic for entire form template, 236–238, 237
 - LogicInspector sample, 236
 - LoginName**, **UserName** *vs.*, 806
 - Loss of data, changing field or group names and, 95
- ## M
- MacOS, Forms Services and, 690
 - Macro Recording feature, in Visual Studio, 863
 - Mail Options task pane, 654, 655, 661, 662
 - Main database connections, availability of query and submit through, 342
 - Main data connections, secondary data sources *vs.*, 244
 - Main data query connections
 - Design a Form Template dialog and creation of, 245
 - types of, 246*t*
 - Main data source, 297
 - database data connection used on, 258
 - DataSet** object submitted from, 369
 - form templates and, 26
 - keeping sensitive information out of, 800
 - for MOI Consulting request form template, 801, 801
 - persisting default state of XML for, 810–811 (listing)
 - using for List Box items, 321–322
 - XML or Schema for, 255
 - Main data source extensibility, Web services and, 353
 - MainDataSource.ReadOnly**, 759

- Main data source submit connection, setting up, 345
- Main query connections, creating, 245
- Main query** data connection, 389
- Main submit connection
 - dialog shown when submit using rules fails on, 391, 391
 - generic failure dialog for, 393
 - generic success dialog for, 393
 - secondary submit connection *vs.*, 390
- Main submit** data connection, 389
- Make Compatible with InfoPath Forms
 - Services checkbox, 188
- Make New Folder button, 423
- Malicious full trust forms, 495
- Managed add-ins
 - accessing InfoPath object model from, 1107–1111
 - implementing, 1105–1106
- Managed code
 - InfoPath 2007 and use of, 731
 - InfoPath 2003 SP1 and support for, 15
 - InfoPath support for, 729
 - removing, 733
 - saving a from template with, 735
 - script *vs.*, 786
- Managed code control
 - addition of, to a form template, 1065–1066
 - deploying, 1070–1071
- Managed code errors, notification for, 851
- Managed form code, task pane script and, 783
- Manage Form Templates page, 893, 895
 - activation with, 895–897
- Manage Permissions permission, 552
- Manage Resources dialog, screening for
 - included files, 903
- Manager roles, Conditional Format dialog
 - after adding conditions for, 632, 633
- Manage User Roles dialog, 616, 616, 617, 621, 623, 631, 670, 670
 - after adding a few roles, 620, 620
 - after adding “Team Manager” and “Sales Manager” roles, 632, 632
- Managing the Web Service Proxy page,
 - settings on, 946–947, 947
- Manifest, 73
 - information in, 27
 - SQL credentials in, 935
- Manifest information, about controls, 43
- manifest.xsf, 581
 - Package section of, 1138 (listing)
- manifest.xsf[Design] tab, 848, 849
- Manually editing data source
 - adding nodes, 116–119
 - deleting nodes, 121–122
 - moving nodes, 119–121
 - referencing nodes, 122–123
 - starting with own data source, 124, 126–137
 - Convert Main Data Source feature, 132–137
 - potential complications of starting from XML Schema, 129–132
 - starting from XML data, 126–127
 - starting from XML Schema, 128–129
- Map databases, TerraServer project, 289
- Margins, 190
- Master/Detail control, 12, 14, 62–65, 199
 - applicant data and, 64
 - in application review form when filling out a form, 64
 - binding behavior of, 89*t*
 - defining one-to-many relationships and, 271
 - design-time visuals for, 201
 - filling out a form and, 63–65
 - Scrolling Region control used with, 165
 - when filling out a form, 204
- Master/Detail relationships, creating, 198–203
- Master/Detail tab, 199
 - for Repeating Section set as detail control, 202
 - for Repeating Table set as the master control, 200, 200
- Maximum size of form session state setting,
 - security and, 911–912
- MeetingRequest form, 407, 408
- MeetingRequest template, publishing, to a Web server via a “backdoor” network share, 401
- Merge actions
 - in aggregation namespace, 583, 584
 - node type and, 560*t*
- Merge attributes, for merge actions, 584, 584
- Merge Cells toolbar button, 798
- Merge customizations
 - Merge Settings dialog after, 571, 572
 - for node types, 570–571*t*
- Merged sales report data, 593
- Merged status report form, 558–559, 559
- Merged status reports, creating, 555–560
- Merged team status report, after all customizations are complete, 578, 578

- Merge error dialog, for forms with a schema that doesn't match the target form, 558
- Merge Forms dialog, 556, 556
 - selecting multiple forms in, 557
 - with Views menu, 557, 557
- Merge Forms view, weekly status report document library in, 558
- Merge settings, for key field, 568
- Merge Settings button, 566
- Merge Settings dialog, 580
 - with merge customizations, 571, 572
 - separators in, for rich text fields, 575, 576
- Merge settings error dialog, 567, 567–568
- Merge Table Cells, in Layout task pane, 38
- Merge Table cells item, 37
- Merging
 - cells, 37, 38
 - InfoPath e-mail forms, 657–660
- Merging forms, 554–586
 - customizing merge behavior in design mode, 564–579
 - custom merge XSL (advanced), 580–586
 - design recommendations for, 561–564
 - in form library, 405
 - in InfoPath, 555–560
- MessageBox** class, 776
 - showing UI by using, 878–879
- MessageBox sample, 878
- MessageBox.Show**, 740, 742
 - using to get user feedback, 805 (listing)
- messageDetails** parameter, 765
- Methods, not implemented by Forms Services, 886–887*t*
- MFC. *See* Microsoft Foundation Classes
- MHT. *See* Mime HTML file
- Microsoft, TWC initiative Web site, 456
- Microsoft Authenticode technology, 508
- Microsoft Component Object (.NET) Runtime Execution Engine DLL, 1112
- Microsoft Exchange Server 5.5, 618
- Microsoft Foundation Classes, hosting InfoPath and, 978
- Microsoft Installer, 486
- Microsoft Installer file
 - building, 419
 - languages supported by, 417–418
 - processing time and, 419
- Microsoft Instruction Language, 739
- Microsoft Management Console, 488, 491, 492, 499
- Microsoft Office applications
 - COM add-ins supported by, 1073
 - message bar and Workflow dialog in, 641
- Microsoft.Office.Core** assembly, reference added to, 1079
- Microsoft Office Excel, sales data exported to, 610, 611
- Microsoft Office InfoPath. *See* InfoPath
- Microsoft Office InfoPath Security Notice dialog, 255
- Microsoft Office InfoPath 2003 Toolkit for Visual Studio .NET, 23
- Microsoft.Office.InfoPath.XmlFormHostItem** class, 759
- Microsoft.Office.Interop.InfoPath** assembly, reference added to, 1079
- Microsoft.Office.Interop.InfoPath.Xml** assembly, reference added to, 1079
- Microsoft.Office.Server.dll assembly, objects belonging to shared services and providers in, 900
- Microsoft Office SharePoint Server (MOSS) 2007, workflow with, 634–642, 635*t*
- Microsoft Office SharePoint Server (MOSS) 2007 document library, status report forms saved to, 555
- Microsoft Office SharePoint Server (MOSS) 2007 site, status report form template published to, 613
- Microsoft Office system (2007), 17
- Microsoft Office Word, XML Structure task pane in, 597, 598
- Microsoft Operations Manager, 866, 925, 962
 - learning more about, 963
 - Operator console, 962
- Microsoft Script Editor, 10, 23, 729, 737, 786
 - scripting language and, 841
- Microsoft TechNet, 904, 905, 912
- Microsoft TechNet, best practices for Forms Services on, 951
- Microsoft TerraServer, Web service for, 273
- Microsoft TerraServer Web site, using in InfoPath, 289–290
- Microsoft UpDown control, 1042, 1043, 1047, 1049
 - Properties dialog for, 1048, 1048
- Microsoft UpDown Control 6.0, in Add Custom Control Wizard, selected in list of ActiveX controls, 1039, 1039, 1040
- Microsoft Visual Studio Solution file, 838

- Microsoft Windows Workflow
 - Foundation, 635
- Microsoft Windows XP Tablet PC Edition
 - Software Development Kit, Ink Picture control and, 73
- Microsoft XML Core Services, 730
- Mime HTML file, 606
- Minimum salary desired, field for, and formatting as currency, 179
- minLength** feature, 101
- Mobile browser, 720
 - creating new form in, 722
- Mobile devices
 - filling out forms with, 690, 720–726
 - rendering on, 718
- Mobile forms, 722–725
 - code, 724
 - conditional formatting, 725
 - controls, 723–724
 - data connections, 725
 - data validation, 724–725
 - editing first row from, 723, 723
 - filling out, 25–726
 - toolbar, 724
 - views, 724
- Mobile form toolbar, with Pocket PC Internet Explorer toolbar showing below it, 724
- mobile** value, 717
- Modal** value, 765
- Modeless** value, 765
- Modify Table button, role of, 264
- MOI Consulting Company (fictional)
 - data requirements for employment application, 31, 32*f*
 - filling out employee information form, 124
 - structure of **Customers** table for, 369*f*
- MOIConsulting** database, 369
- MOI Consulting expense report form
 - after importing into InfoPath, 1123, 1124
 - created in Word, importing, 1117–1119, 1118
 - ImportErrors.xml file for, 1140, 1141 (listing)
- MOI Consulting IT department, technical issues form sent to, 338–341
- MOI Consulting morale event form
 - in design mode, 750, 750
 - Validating** event and, 758–764
- MOI Consulting performance review form, sample, 510, 510
- MOI Consulting request form
 - code for the button that starts validation on default view of, 812 (listing)
 - Confirm view of, 796, 796
 - demonstration of, 791–831
 - designing, 797–831
 - adding form code, 803–831
 - adding logic without code, 801–803
 - gathering requirements and designing visual layout, 798
 - organizing data source, 798–801
 - existing, error dialog that appears when user attempts to open, 808
 - filling out, 792–797
 - Loading** event handler for, 807 (listing)
 - Request Details view of, 795, 795
 - rules used in, 802
 - Thank You view of, 797
 - toggling request type options in, 792
 - Welcome view of, 791, 791
- MOI Consulting request form template
 - InternalStartup** definition for, 804 (listing)
 - main data source for, 801, 801
- MoiConsultingRequest sample, 791
- MoiConsultingRequest sample code, 819
- MOI employment application form, 437
 - address block section of, 432, 432
- MoiEventScheduler-Changing form template, **MyPasswordDialog** class of, 751
- MoiEventScheduler-Changing sample, 755
- MoiEventScheduler-Validating sample, 758
- MoiFeedback** document element
 - group, 697
- MOI feedback form template, 693, 694
 - controls targeted by the messages in Design Checker for, 868, 869
 - Design Checker messages from, 867, 867
 - filling out, in the browser, 701–703, 702
- MoiFeedback sample, 693
- MOI morale event scheduler form, final touches added to, 768
- MOI performance review form
 - co-signing and, 531, 531, 533
 - filling out, before using a digital signature, 514
 - partial signing and, 522
- MOIPerformanceReview-FullSignatures sample, 510
- MOM. *See* Microsoft Operations Manager
- Monitoring, 866
- Move command, 120

- Move Field or Group dialog, for moving an existing field or group, 119
 - Move operation, 86
 - Mozilla, 17
 - Forms Services and, 690
 - mscoree.dll file, COM add-ins in, 1112
 - MSE. *See* Microsoft Script Editor
 - MS Forms, 494
 - MSIL. *See* Microsoft Instruction Language
 - msoControlButton**, 1087
 - MsoControlType** enumeration, 1087
 - MSXML. *See* Microsoft XML Core Services
 - Multi-line checkbox, in Display tab, 184
 - Multi-line property, 184
 - Multiple binding, 145–147
 - details of, 147–149
 - Option buttons and, 150
 - Multiple conditions, Conditional Format dialog with, 219
 - Multiple controls
 - formatting, 80–82
 - Properties dialog for resizing of, 192, 192
 - resizing, 191–193
 - Multiple forms
 - selection of, in Merge Forms dialog, 557
 - showing data merged from, 563–564
 - Multiple nodes, selecting, 779
 - MultipleNotifications sample form, 774
 - in design mode, 775
 - Multiple projects, working with, in Visual Studio environment, 856
 - Multiple records, display of, in forms, 265
 - Multiple rules, error cases and, 232
 - Multiple-Selection List Box control, 67
 - binding behavior of, 90*t*
 - for filling out a form, 67
 - in InfoPath 2007 Controls task pane, 22
 - Multiple signatures, on a form, 519
 - Multiple status report forms, merging, Team Status Report view for, 564, 564
 - Multiple text nodes, concatenating strings
 - by selection of, 773
 - Multiple top-level elements
 - prompt indicating a start from schema with, 131
 - schema with, 131 (listing)
 - starting from schema with, 130–132
 - Multiple view printing, 592–596
 - Multiple views, 19
 - creating, 73–76
 - Music collection form, designing data source for, with and without attributes, 117
 - My Data Sources connection, InfoPath data connection *vs.*, 260
 - MyMusicAndPhotos sample, 292, 295
 - MyPage.aspx page, 1016
 - code behind the ASP.NET Button control in, 1021 (listing)
 - hosting life insurance form in, 1019, 1019
 - MyPage.aspx Web form, 1014
 - Solution Explorer after addition of, 1014, 1015
 - my** prefix, 778
- ## N
- name** attribute, 583
 - Name changes
 - matching XML data and schema and, 96
 - mismatched XML data and schema and, 96
 - Name field, in Publishing Wizard, 407
 - Name of controls, seeing, 65
 - Name property, 95–97
 - Names
 - for print view, 601, 602
 - SharePoint site, 1013
 - template part, 453, 454
 - user, assignment of, 617–618
 - NamespaceManager** parameter, using, 778
 - Namespaces
 - in data source, 135–137
 - in Field or Group Properties dialog, 108, 108
 - prefixes, 778
 - Namespace URI, hard-coding and, 779
 - Name** string value, LCID key and, 1143
 - Naming
 - data source nodes, 92
 - repeating field, 103–104
 - NAT. *See* Network Address Translation
 - Nested database tables, 270, 270
 - .NET
 - creating InfoPath host application in, 979–980, 984–990
 - event handlers in, *vs.* in InfoPath, 752
 - .NET controls
 - creating for InfoPath, 1061
 - summary on use of, in InfoPath, 1071–1072
 - Netscape, Forms Services and, 690
 - .NET Windows Forms applications, hosting InfoPath and, 978

- Network Address Translation, alternate access mappings and, 928
 - Network locations
 - saving and publishing form template on, 400–403
 - saving to, 397
 - new ActiveXObject** method, 471
 - New bindings, customizing, 142–144
 - Newline characters, replacing, 361
 - New Project dialog, 838
 - in Visual Studio 2005, 837, 837
 - New Project Wizard, 1004
 - InfoPath Add-in project type shown in, 1106, 1106
 - Shared Add-in project template type shown in, 1077, 1077
 - New Rule button, 648
 - New Web Site dialog, with template for New Web, 274, 274
 - NewXDocument** event, 1107, 1109
 - hooking up event handlers for, 1082
 - NewXDocument** event handler, 1088, 1089
 - nillable** feature, removing, 101
 - Node changes, rejecting in **Changing** event, 749
 - Node names
 - changing, 95
 - updated, for readability, 105
 - updating, 92
 - Node properties, changing/resetting of, after rebinding, 141*t*
 - Node** property, 1060
 - Nodes
 - adding in data source, 116–119
 - analyzing namespaces relative to their immediate ancestors, 136*t*
 - customizing merge settings for, 565–566
 - data source, 86
 - deleting, 88, 779–780
 - deleting in data source, 121–122
 - finding XPath of, 777
 - in InfoPath data source during design mode, 94
 - leaf, 86–87
 - MOI Consulting request form code and, 803–805
 - moving in data source, 119–121
 - multiple, selecting, 779
 - nillable**, 101
 - nonrepeating, 87
 - referencing in data source, 122–123
 - repeating, 87
 - in XML, 93–94
 - Node siblings, deleting, by using **DeleteRange**, 780 (listing)
 - Node types
 - default merge actions based on, 560*t*
 - merge customizations available for, 570–571*t*
 - Nonrepeating node, 87
 - Nonrepudiable partial signatures, 15
 - Nonrepudiation, 508
 - Nonsubmit cases, using **NotifyHost for**, 1031–1035
 - Normal quiesce status, new and existing form-filling sessions during, 915*t*
 - Northwind customers and orders data, preview of modified form layout with, 272
 - Northwind database, 258, 260, 261
 - Customers** and **Orders** table in, 258
 - Customers** and **Orders** Web service example, 302–307
 - Notepad, opening schema in, 133
 - notification** parameter, **NotifyHostEventHandler** method and, 1003
 - NotifyHostEventHandler** method, 1004
 - parameters received by, 1003
 - NotifyHost** method, 1003–1004, 1032
 - using for nonsubmit cases, 1031–1035
 - NT domain account, 621
 - NTLM authentication, 948
 - for data connections with InfoPath and Forms Services, 944, 944
 - Null values, translation of, as missing nodes, 374
 - Numbered List control, 7, 65, 66
 - binding behavior of, 90*t*
 - repeating nodes and, 103
- ## O
- Object browser, lack of IntelliSense information in, 738
 - Object model, 4, 729, 741–790, 833, 866, 875
 - accessing from a managed add-in, 1107–1111
 - COM add-ins, shared objects and, 1074–1075

- configuring e-mail settings via, 949, 950
 - (listing)
 - form events, 742–744
 - programming languages and versions
 - of, 731*t*
 - registering event handlers, 780–782
 - reporting custom validation errors with use
 - of, 767
 - script and the Custom task pane, 782–790
 - showing read-only properties from, 805–806
 - two types of, for writing code behind a form template, 742
 - upgrading, 734
 - using **XPathNavigator** objects and, 777–780
 - view-based structural editing through, 827
 - XML data events, 744–777
- Object model classes, not implemented by Forms Services, 886–887*t*
- Object model (OM) security level, 471
- definitions, 471–472, 472*t*
 - form and IE security level impacts on, 473*t*
 - setting for template with managed code, 472
- obj folder, 839
- objsafe.h file, in Windows Platform SDK with Visual Studio 2005, 1054
- OCR. *See* Optical character recognition
- OCT. *See* Office Customization Tool
- ODBC DSN, 257
- ODC files, 257
- Odd bindings, 145
- “Off-box” connections, domain trust form templates and, 461
- Office Configuration Tool security settings, for InfoPath, 477
- Office Customization Tool, 455, 505
- design lockdown and, 504
 - disabling InfoPath e-mail forms for InfoPath 2003-compatible forms and, 662
 - restricting Internet domain forms through, 476
- Office Marketplace, 1128
- Office Online, 503
- alternate access mappings information on, 928
 - forms downloaded from, 16
 - form templates available on, 28
- Office Resource Kit, 455
- Office Server connection, with Web server (HTTP) submit, 382
- Offline cached queries, 316
- Offline mode queries, configuring form template for, 313
- Offline mode query support, 312–316
- for data connections, 298
 - enabling, for offline mode when adding or modifying secondary data connection, 313
- OLECMD** objects, 999, 1000
- OLE DB, 257, 300
- OM. *See* Object model
- “On-box” connections, domain trust for, 461
- OnChanged** method, 1067, 1068
- OnConnection** method, 1079–1083, 1088
- code in, to hook up the application event handlers, 1083 (listing)
 - of **IDTExtensibility2** interface, 1075
 - initial code for, 1081 (listing)
 - parameters passed to, 1081
- OnCopyClick** method, 1091
- OnEnabledChanged** event handler, 1055
- One-to-many relationships, Master/Detail control and, 271
- On failure option, 394
- OnFormOpened** method, 1109 (listing), 1110
- onload** event, use of, instead of using global script, 1035
- Only when the user inserts this section button, 207, 208
- OnPasteClick** event handler, 1091
- OnRefreshClick** event handler, 1100 (listing)
- OnStartupComplete** method, 1083–1088
- associated helper methods and, 1084 (listing)
- On success option, 394
- OnSwitchView** event, 1088, 1089, 1091
- OnSwitchView** event handler, 1089 (listing)
- OnTaskPaneReady** method, 1102, 1104
- OnToggleClick** event handler, 1095
- for Show/Hide task pane button, 1095, 1096 (listing)
- Open a form template category, within Design a Form Template dialog, 28
- Open and Save tab, of Form Options dialog, 611, 612, 622, 622
- Open a new form to fill out rule action, 234
- Open button (ToolStrip toolbar), 997
- writing code for, 991
- OpenIn** optional parameter values, with brief descriptions, 717*t*

- OpenIn parameter, 717, 719
 - Operand, comparison, choosing
 - for condition, 217
 - Operation values, 776
 - Optical character recognition, data importer and, 1146
 - Optional controls
 - after clicking on Click here to insert link, 51
 - for previewing employment application form, 51
 - Optional Section control, 7, 49–51
 - binding missing nodes to, 153
 - Edit Values dialog for, 206
 - employment application form template with, 50
 - inserting, using **ExecuteAction** for, 828–829 (listing)
 - Properties dialog for, with minimum salary desired, 180, 181
 - Section Properties dialog for, 205, 205–206
 - Option Button controls, 7, 45*t*
 - binding behavior of, 89*t*
 - converting Check Box controls to, 1125
 - Option buttons, multiple binding and, 150
 - Options dialog, 520
 - choosing whether or not to show a notification when signed forms are opened, 520
 - Options dialog (VSTO), limited InfoPath settings on, 863–863
 - Option Section control, context menu for, when filling out a form, 52, 52
 - Options** parameter, 720
 - Oracle, 300
 - Orders** child table, adding to **Customers** parent table, 262
 - Orders** data, displaying, 271
 - Orders** table, in Northwind database, 258
 - ORK. *See* Office Resource Kit
 - OuterHtml** property, 955
 - Outgoing alternate access mappings, 928
 - Outlook, 667, 668
 - COM add-ins supported by, 1073
 - Custom Task Panes added into, 1093
 - InfoPath e-mail form in reading pane, 653, 653
 - promoting properties to make them available as columns in, 415, 415
 - resulting e-mail in, after finishing the Publishing Wizard for e-mail, 415, 416
 - security feature, 467
 - Outlook 2007, 413
 - custom form regions in, 834
 - disabling InfoPath e-mail forms in, 643
 - e-mail submits and, 340
 - Rules Wizard in, 648, 649
 - using InfoPath e-mail forms in, 614
 - Outlook folders
 - choosing which properties to make available in, 647
 - storing received forms in, 650–652
 - Outlook Web Access, 20, 667, 668
 - Overall Satisfaction table, vertical-to-horizontal remake of, 698, 699
 - Override behavior, executing, 822
 - OWA. *See* Outlook Web Access
- ## P
- Package section, of manifest.xsf, 1138 (listing)
 - Padding, 190
 - Page Viewer Web Part
 - adding to SharePoint page, 928–929
 - checking on InfoPath installation and, 929
 - Paragraph breaks property, 185
 - Parameter mappings
 - to any data source, 359
 - defining for Web service submit, 356, 356–358
 - setting, 347
 - setting up, for **DataSet** object, 372
 - submit and, 345
 - Parameter mappings dialog, configuration of, for submitting entire form, 363, 363
 - Parameters
 - warning about assuming existence of, 1024
 - Web service, 364
 - Parent tables, defining relationships between child tables and, 263
 - Partial signatures, adding, 523
 - Partial signing
 - of form data, 521–526
 - setting up Personal Information part of the view for, 523, 523
 - PartyPlanner sample, 224
 - Party-planning form template
 - data validation for, 224–227
 - pattern matching for, 227–229
 - PascalCasing, 799
 - Password dialog prompt, 751, 751

- Password prompts, adding, 750
- Passwords, 259
 - hard-coded, 752
 - prompting for, 751 (listing)
- Paste button
 - enabling/disabling, 1000
 - hosted form and, 994, 997
- Paste button event handler, 1092 (listing)
- Paste Form Data button, 1083
- Pattern matching, 218, 227–229
- Patterns, custom, 228–229
- PDAs. *See* Personal digital assistants
- Performance, 866
 - accounting for, in form code, 831
 - extra postbacks and, 878
 - large amounts of data and impact on, 264
 - monitoring, 958–962
 - optimizing, 951
 - session state, 908, 909
- Performance counters
 - addition of, for templates activated with InfoPath Forms Services, 958, 959
 - InfoPath Forms Services, 960–961*t*
- Performance Monitor (PerfMon), purpose of, 958
- Performance tips
 - data connections, 956
 - data-heavy features, 954–956
 - form code, 953
 - form template deployment, 951–952
 - form template design, 950–963
 - form view state, 956–957
 - miscellaneous, 957–958
 - reduction of form postbacks, 953–954
 - views, 952
- Periods, XML, naming nodes and, 105
- Permission button, 541
 - on Standard toolbar, 539, 539
- Permission dialog, 539, 540, 544, 545–547
 - after clicking More Options button, 546, 546
- Permissions, 406
 - accessing, when filling out a form, 545
 - additional, enabling, 547
 - controlling, to your form, 547–548
 - defining, to restrict individual forms, 542
 - form libraries and, 706
 - on form templates, 539–542
 - granted, viewing of, 552
 - granting, 457, 458
 - insufficient, Form Error dialog and, 403
 - publishing via e-mail and, 415–416
 - requesting, 458
 - specifying, for current form while filling it out, 544
 - XML files and, 247
- Permissions dialog, 541
- Personal digital assistants, filling out forms with, 690, 720
- Personal Information part of the view, setting up, for partial signing, 523, 523
- Phone numbers, controls for, on employment application form, 44
- Phrase List option, 196, 198
 - new Input Scope dialog with, 197
- Physical path, to root SharePoint site, 1013, 1013
- Picture control, 70–72, 79
 - binding behavior of, 90*t*
 - File Attachment control *vs.*, 70
 - for filling out a form, 72
 - with picture inserted, 72
- Picture files, large, adding to form, 71
- Picture or File Attachment (base64) data type, 99*t*
- Pictures, form templates and, 27
- Pictures** library (SharePoint site), 292, 293, 293–294
 - filling out music and photos form, with list of photos from, 295
- Placeholder field, in Text Box Properties dialog, 83
- Placeholder text, in Text Box control, 184
- Plain List control, 7, 65, 66
 - binding behavior of, 90*t*
- Plain text, SharePoint columns and support for, 411, 412
- PlainText** control, 1139
- Pocket PC device, filling out status report form on, 721, 721
- Port forwarding, alternate access mappings and, 928
- Postbacks, 865
 - extra, performance issues with, 878
 - forcible denial of, 954
 - number of, per form session state setting, 910
 - rate counters and, 959
 - reduction of, 953–954
 - resetting session's timer and, 909
 - separating views and, 952
 - view switching and, 911

- Postback settings
 - Forms Services and, 871
 - number of actions per, 910–911
- Post-import warnings
 - functioning of, 1140–1141
 - removing, 1127
- Post-submit actions, warning about, 394
- PowerPoint
 - COM add-ins supported by, 1073
 - custom task panes added into, 1093
 - default Document Information Panel in, 966, 968, 970
- Predicate filter, 770, 771
- PreferClient** value, 717
- PreferredDate** field, data validation on, 802
- Prefix each item with checkbox, 575
- Prefixes
 - in Data Source task pane, 135
 - for merging into a form that has data, 575, 576
 - namespaces, 778
- Preventive maintenance, server downtime
 - and, 919–920, 927
- Preview as drop-down, enabling, 428
- Preview button, 424
 - on Standard toolbar, 48
- Preview drop-down toolbar menu, 625
- Preview feature, 398, 425
- Preview Form command, 740
- Previewing
 - debugging and, 741
 - employment application form, 48, 48
 - forms in VSTO, 863
 - fully trusted forms, 485, 792
 - unpublished forms, with CMCL connections, 941
 - with a user role, 624–626
- Previewing form
 - context menu for Repeating Section control and, 54
 - Repeating Section control for, 54
 - Repeating Table control for, 60
- Previewing form templates, 424–429
 - disabled commands and, 425
 - domain simulation, 428–429
 - error message related to attempting to open form that was saved during previewing, 429
 - with sample data, 426–427
 - saving form data and, 429
 - with user roles, 427–428
- Preview settings, configuring, 425, 426
- Previews options, persisted information
 - and, 427
- Preview tab, on Form Options dialog, 624, 625
- Preview window, 424
- Primary key field, in form templates, 376
- Printable forms, 1116
- Print command, 547
- Print content setting, enabling, 547
- Print dialog, 593, 593, 596
- Printing reports, 586–605
 - headers and footers, 589–591
 - multiple view printing, 592–596
 - print views, 586–589
 - in browser-enabled forms, 603–605
 - Word print views, 596–603
- Print Multiple Views dialog, 596, 603
 - in design mode, 595, 595
 - for filling out a form, 594, 594
- Print preview, in Visual Studio 2005, 863
- Print settings, specifying for print views, 589
- Print Settings tab, of View Properties dialog, 588, 588, 589
- Print View button, 604
 - on browser form toolbar, 684, 687
 - on Forms Services toolbar, 604, 604
- Print views, 586–589
 - specifying print settings for, 589
- Print Views feature, in Word, 596–605
- Prior Trusted Sources list, 500
- Privacy
 - group names and, 619
 - saving form templates and, 399
 - submitting digitally signed form data and, 365–368
- Privacy Options category, of Trust Center dialog, 503, 503
- Private roles, assigning users to, in InfoPath 2003 SP1, 15
- Privileges, user form and cross-domain, 930
- Processing instructions, XML, 364
- ProgId** attribute, 1078
- ProgID key
 - creating **DefaultLCID DWORD** value under, 1142
 - registered importers/exporters and, 1132
- Programmatic admin deployment, 900–901
- Programmatic quiescing, 917–919
- Programming category, in Form Options dialog, 732, 732

- Programming Internet Explorer 5, 788
- Programming language section, options
 - available in Form Options dialog, 732, 732
- Programming language when designing for InfoPath and InfoPath Forms Services drop-down, 736
- Programming section, in Logic Inspector dialog, 238
- Progress dialogs, canceling, 23
- Project Application services, 672
- Projects
 - COM add-ins supported by, 1073
 - new, for new or existing form templates, 839–840
- Promoted properties
 - form libraries and, 706
 - maximum number of, 412
 - on Publishing Wizard page, which appear as columns in SharePoint libraries and lists, 408, 408
- Prompt** method, 751
- Properties, not implemented by Forms Services, 886–887*t*
- Properties dialog
 - for Microsoft UpDown Control, 1048, 1048
 - for resizing multiple controls, 192, 192
 - for Text Box control, 174, 175
- Properties directory, 839
- Properties Window dialog, 853
- Property demotion, 405, 412–413
- Property pages, ActiveX controls and, 1047–1048
- Property promotion, 405, 410–413
 - outside of Publishing Wizard, 410
- Protected form template, warning dialog for when users attempt to change template, 505
- Protection, enabling, to discourage users from changing your form template, 504
- Providers
 - configuring, 907–912
 - searching UDDI by, 299
- Proxy Web service, creating, 288
- Public roles, assigning users to, in InfoPath 2003 SP1, 15
- Publish button, 402
 - last page of Publishing Wizard, before clicking, 680, 681
- Publish domain, simulating for testing, 481–482
- Published domain trust form, moving, 479–481
- Published form template, data source operations on, and affect on saved forms, 97
- Publishers
 - COM add-ins supported by, 1073
 - trusted, 489
- Publishing, 398
 - to Forms Services, 715
 - form template as a content type, 709
 - form templates, 11, 397
 - for administrator approval, 941–942
 - to Forms Services, 678–681
 - four types of, 397
 - new form template as a Document Information Panel template for SharePoint, 975, 975
 - saving comes with, 399
 - two types of, 888
 - via e-mail, 397
 - VSTO form templates to Forms Services, 841
- Publishing (advanced), 888–903
 - administrative deployment to Forms Services, 892–901
 - managing form templates, 904–905
 - publishing form templates for administrator approval, 889–891
 - screening form templates for approval, 902–903
- Publishing Wizard, 658, 678, 845, 889, 1018, 1024
 - Company Name and Language text boxes, 417, 418
 - conveniences built in to, 420
 - enabling browser rendering in, 680
 - filling out MOI feedback form template with, 701
 - final page of in creation of installable form template, 419, 419
 - first page of, 399, 400
 - first wizard page for publishing form to e-mail recipients, 414, 414
 - internal use of Web service by, 905
 - last page of, 402, 403
 - last page of, before clicking Publish button, 680, 681
 - page showing promoted properties from template's data source, 408
 - promoting properties to make them available as columns in Outlook, 415, 415

Publishing Wizard (*cont.*)
 property promotion outside of, 410
 setting access path in, 462, 463
 verifying document library name,
 document library location, and status
 of Forms Services in, 409
 Publish locations, standard paths for, 402
publishUrl attribute, access path definition
 and, 468
 Purchase request forms, 620
 Pushpin icons, in VSTO, 845
put_Value method, implementation of,
 1057 (listing)

Q

Qualifier, of condition, 217
 Query Builder, 302
 Query data connection, 242
queryFields group
 within data source, 342
 student sign-in form and, 347
 Querying
 event bubbling and, 819–820
 via a rule instead of with form code, 818
QueryStatusCommand method, 992, 993
 (listing), 994, 997
QueryStatus method, calling, 999
QueryString property, 1022
 Query support, enabling, for offline mode
 when adding or modifying a secondary
 data connection, 313
 QueryXmlFile sample, 254
 Quick Find, in VSTO, 854
 Quiesced status, new and existing form-
 filling sessions during, 915*t*
 Quiesce Farm link, 916
 Quiesce Form Template page, 916
 configuring to quiesce a form template on,
 14, 914
Quiesce method, 918
 Quiesce sample, 919
 Quiescing, 680
 administration OM on the **FormTemplate**
 object specific to, 918*t*
 command-line, 917–919
 commands for stsadm.exe specific
 to, 918*t*
 definition of, 912
 entire farm, 915–916
 farm, 918–919

 form templates, 913–915
 programmatic, 917–919
 as shared service, 916
 stopping, 915
 upgrading form templates and, 916–917
 Quiescing errors, occurrence of, when
 creating status report forms, 913, 913
 Quiescing status, new and existing form-filling
 sessions during, 915*t*
 Quiescing time, for form template or a
 farm, 916

R

Rate counters, postbacks and, 959
 Readability, data with updated node names
 for, 105
 Reading pane (Outlook), InfoPath e-mail
 form in, 653, 653
 Read-only controls, digitally signed form
 with, 518
 Rebinding, 140
 container controls, 142
 Control, Node, and other unrelated
 properties that change/get reset
 after, 141*t*
 reverting, 142
 Receive and submit data option, 345
 Receive and Submit Data Wizard, differences
 between Submit Data and Receive Data
 Wizards and, 346
 Receive Data Wizard, 346
 Recent form templates category, on Design a
 Form Template dialog, 29
 Recently Used Forms link, 16
 Recently Used Forms list, e-mailed forms
 in, 414
 Recent Projects fly-out menu, on File menu
 of Visual Studio, 838
 Recognize non-matching input checkbox, 196
 Records, multiple, displaying in forms, 265
 Recovered forms, detecting, 830
 Recursion, 14–15, 122–123
 Recursive data sources, support for, 123
 Recursive Section control, 14, 172
 in InfoPath 2003 SP1, 14, 15
 Red asterisk error, 228, 228
 Red exclamation point, meaning of, 149–150
 Redistribution, creating installable form
 for, 397
 Redo button

- enabling/disabling, 1000
- hosted form and, 994, 997
- Redo operation, 771
- Red validation rectangles, in MOI Consulting request form, 792
- Refactoring, in Visual Studio 2005, 859, 860
- Reference operation, 86, 122
 - recursion, 122–123
- Referer** HTTP header, 718, 719
- Refresh button, 684
- Refresh (or requery), data, 251
- Regular Expression option, 198
- Relationships
 - defining, between child and parent tables, 263
 - defining, between tables, 261, 263
- Relative links, for data connection files, 712, 713
- Relinking, form libraries and, 707–708
- Relink tool, using, 429
- Remove blank groups checkbox, 571, 572
- Rendering, on mobile device, 718
- Repeating a Section control, 51
- Repeating Choice Group control, 14, 167–171, 827
 - binding behavior of, 91*t*
- Repeating container
 - sample form XML Data with and without, 104
- Repeating control, removing, 56
- Repeating field, 147
 - inserting into header or footer, 590
- Repeating field node type, merge
 - customizations available for, 570*t*
- Repeating fields, renaming, 104–105
- Repeating group node, merging data and, 561, 562
- Repeating group node type, merge
 - customizations available for, 570*t*
- Repeating nodes, 87
 - in data source, 103
 - inserting new instances of, 153
- Repeating property, 102–105
- Repeating Recursive Section
 - in design mode, 172
 - for filling out employee information form, 173
- Repeating Recursive Section control, 171–172
 - binding behavior of, 91*t*
- Repeating Section controls, 7, 52–55, 827
 - binding behavior of, 89*t*
 - binding to repeating group nodes, 561, 562
 - employment application form template form with, 53, 53
 - inserting new, 55
 - Master/Detail tab for, set as a detail control, 202
 - for previewing form, 54
 - setting as detail control, 201
 - three instances of, inserted into form, 55, 55
 - with three items in a mobile form, 723, 723
 - XML fragments for, 207
- Repeating Section fragment, Section Properties dialog for, 208
- Repeating Section Properties dialog, 207
 - Advanced tab of, 566, 567
 - three sections of grocery shopping list in, 209
- Repeating Table control, 7, 52, 56–60, 827, 1037
 - adding to grocery form template, 321–322, 322
 - after changing from Repeating Section control, 58
 - binding behavior of, 89*t*
 - binding to repeating group nodes, 561, 562
 - color schemes and, 39
 - in design mode, 57
 - for expenses, 161
 - nested database table (**Orders**), which is hard to represent when parent table (**Customers**), is in view as, 270
 - for previewing form, 60
 - Repeating Section control changed to, 57, 58
 - Repeating Section control *vs.*, 56–57
 - setting as master control, 201
 - supporting entry of last and first names in, 768, 769
- replaceChild** method, 1092
- Replace In Files feature, from Visual Studio, 855
- ReplaceSelf** method, 772
- Replace With action, Choice Section control and, 212
- Report Center, 678
- ReportError** method, 1007
 - default version of, 760
 - warning regarding use of, with arbitrary node, 766
- ReportError** overload, 761
- Reporting errors, **Validating** event and, 757, 758

- Reports
 - creating, 553–612
 - exporting, 605–611
 - printing, 586–605
- Republishing, form template moved by, 481
- RequestType** field, **Changed** event handler for, 818–819
- Request Details view, 825, 825
 - completing, 829
 - of MOI Consulting request form, 795, 795, 798, 799
- Request** object, 1022
- RequestType** List Box, dynamically
 - populating, by using a data connection, 818–819 (listing)
- requestType** query parameter, setting, 821–823, 824
- Require a connection to verify a user's
 - permission setting, 548
- requiredString** data type, 101
- Requirements
 - defining, new form creation and, 31
 - defining specifications for, 31
 - gathering for MOI Consulting request form, 798
- Require SSL for HTTP authentication to data
 - sources checkbox, enabling, 934
- Reset Toolbox option, on Toolbox pane, 847
- Resizing, multiple controls, 191–193
- Resizing controls
 - in design mode, 54
 - grab handles for, 78
- Resolver parameters, 778
- Resource editing, in VSTO, 858
- Resource files, adding to a form template, 858
- Resource Files dialog
 - files accessible by all form templates shown in, 466, 466
 - in InfoPath and VSTO, 858, 858
- Resource Files menu item, on Tools menu in
 - design mode, 27
- Resource Manager, 27
- Resources, in form templates, 27
- Response size, data connection, 933
- Restricted form templates
 - access paths on, 464, 465
 - data connections types for, 466
 - deploying, 462, 464–466
 - error dialog that appears when opening one that attempts to query external data source, 461, 461
 - flexibility with, 464
- Restricted permission, for user, while
 - designing a form template, 541, 541
- Restricted security level, 459, 460–467
 - deploying restricted form templates, 462, 464–466
 - more restrictions with restricted forms, 466–467
- Restricted sites zone, 470
- Restrict permission to forms based on this
 - form template checkbox, 542
- Reusable components
 - building, 431–454
 - creation of, in two ways, 432
- Reuse, locating template parts for, 438
- Ribbon, 1076
 - customizing, 834
 - Developer tab appearing in, 968
- Rich text, use of, as a promoted property, 411, 412
- Rich Text Box control, 7, 45*t*, 53, 79, 184
 - appropriate configuration of, for use in Web browser, 698
 - binding behavior of, 89*t*
 - in browser, 689, 689
 - display tab for, 186
 - inside Optional Section, 50
 - validating amount of data in, 955
- Rich text data, adding ActiveX controls and, 1046
- RichText** field, 774
- Rich text fields, separators in Merge Settings
 - dialog for, 575, 576
- Rich text (HTML) field, one of the
 - notifications when adding underline to, 775, 776
- Rich text (XHTML) data type, 99, 99*t*, 178
- Rights Management Service
 - Information Rights Management and, 538
 - specifying server, 549
- Right-to-left languages, 185, 186
 - support for, with InfoPath SP1, 14
- RMS. *See* Rights Management Service
- Role-based views, 631–634
- Roles, 426, 564
 - in InfoPath 2003 SP1, 15
- Role** structure, 881
- Roots, 87
- Rows, inserting in layout tables, 37, 38
- RPC/encoded Web services, 288

- RSS feeds, 405
 - Rule dialog
 - after adding a rule to switch to Team Status Report view, 632, 633
 - after setting the condition and action, 623, 623–624
 - Rules, 19, 118, 229–235, 426
 - actions available for, 233*f*
 - actions for actual submit to the Web services, 387
 - adding, 230–231
 - adding or modifying, so that four actions are always run when form is submitted, 230
 - ADO.NET **DataSet** object and, 388–389
 - creating, 230–231
 - creating for InfoPath e-mail forms, 648–650
 - custom submit with, 384–388
 - dialog displayed for action failing to execute when user fills out the form, 234, 234
 - disadvantages with, 389–391
 - errors and, 234
 - in MOI Consulting request form, 802
 - multiple, 232
 - no error handling for, 390
 - setting up, when user opens form, 232
 - setting up submit with use of, 385, 385
 - simulating user roles and, 880
 - template parts and replacement of, 447
 - updating template parts and, 451
 - user roles in, 621, 622–624
 - using to submit forms, 337
 - Rules and Alerts dialog, 648
 - Rules and Merge tab, on the Field or Group Properties dialog, 566
 - Rules button, 181, 182, 229, 230
 - Rules feature, 229–230
 - entry points and structure of, 232, 232
 - in InfoPath 2003 SP1, 15
 - secondary data source field and, 308–309
 - Rules for Opening Forms dialog, after adding all rules, 624, 624
 - Rules for Submitting Forms dialog, 385
 - Rules section, in Logic Inspector dialog, 238
 - RulesSimpleExample sample, 231
 - Rules Wizard
 - creating folder outside of, 650–652
 - with rule specific to InfoPath forms, 648, 648
 - Run As command, 495
 - Run Query button, 375
- ## S
- Safari, 17
 - Forms Services and, 690
 - “Safe Initialization and Scripting for ActiveX Controls,” 1054
 - Safety, of ActiveX controls, for scripting and initialization, 1053–1055
 - Sales data, exporting to Microsoft Office Excel, 610, 611
 - Sales Report view, 592, 592, 615
 - Sample data, previewing forms with, 426–427
 - Sample** data connection
 - clicking on Button and querying of, 254
 - rule for querying of, 254
 - Sample data files, creating, 427
 - Sample form templates
 - customizing, 28
 - using as InfoPath e-mail form, 658
 - Save**, full trust and, 831
 - Save and Save As, InfoPath prompt that appears when choosing either for new form template, 399
 - Save As button, on browser form toolbar, 683, 686, 686–687
 - SaveAs** method
 - full trust and, 831
 - saving IP insurance method and, 989, 990
 - Save as Source Files option, 397, 398
 - files making up form template and, 1137
 - Save button
 - on browser form toolbar, 683, 686–687
 - enabling, only if form is dirty, 997
 - enabling/disabling, 1000
 - using “form-only” model for disabling of, 329–331
 - writing code for, 991
 - Save** event, 744
 - SaveForm** method, 989
 - SaveIfDirty** method, 988
 - SaveItems** Web service method, 344
 - choosing data source node to submit to, 285
 - setting up parameter to, which involves selecting which data source node provides its value, 284, 284

- SaveItems** Web service method (*cont.*)
 - Web service form sample and, 275, 277*t*, 279, 282, 283, 284, 287
- SaveItem** Web service method
 - browser test form for, 280
 - Web service form sample and, 275, 277*t*, 279, 282, 283, 284
- SaveLocation** parameter, 719–720
- Save** method, saving IP insurance method and, 989
- Saving
 - before adding code, 738
 - browser forms, 703
 - form data, 429
 - form templates, purpose of, 398
 - to network location, 397
 - publishing comes with, 399
 - templates as extracted source files, 421–424
- Saving and publishing, 397–430
- Saving and publishing form template, 398–420
 - common conveniences with Publishing Wizard, 420
 - e-mail deployment, 397, 413–416
 - with InfoPath, 398–420
 - installable form templates, 397, 417–420
 - to network locations, 397, 400–403
 - to SharePoint or Forms Services, 397, 404–413
- Saving forms, 330
 - submitting forms *vs.*, 328
- Scalability, 866
- schema** element, 583
- SchemaValidation** errors, 765
- Screening, form templates for approval, 902–903
- Screen readers, ScreenTip property and, 193
- ScreenTip text box, 193
- Script, 497
 - custom task pane and, 782–790
 - InfoPath support for, 729
 - managed code *vs.*, 786
 - using existing form template with, to create InfoPath project in VSTO, 841
- Script code, debugging, 741
- Scripting
 - of ActiveX controls, 1039
 - custom task pane, 785–790
 - restriction of objects unsafe for, 784
 - safety of ActiveX controls for, 1053–1055
- Scripting languages, 731
- Scrolling Region control, 14, 203, 1147
 - application review form with, when filling out the form, 166
 - binding behavior of, 90*t*
 - in design form, 165
- Scrolling Region layout element, 164–166
- Scrolling tab, in Properties dialog for Microsoft UpDown Control, 1048
- SDK. *See* Software Development Kit
- Search crawls, 673
- Search Indexing, 672
- Search UDDI button, 299
- Search Web Service dialog, 299, 300
- Secondary data, showing in list box control, 317–321
- Secondary database connections, 258
- Secondary data connection, inability to submit form to database via, 341–342
- Secondary data connection query, 310
- Secondary data source
 - Customers**, 268, 268
 - in Data Source task pane, 253, 253
 - persisting default state of XML for, 810–811 (listing)
- Secondary data source binding, 307–312
 - data validation, 311–312
 - designing form template, 307–309
 - filling out the form, 310–312
- Secondary data source events, sinking, 770
- Secondary data sources, 10, 241, 297, 298, 779
 - available and unavailable features for, 309*t*
 - form templates and, 26
 - list box controls connected to, 316–324
 - main data connections *vs.*, 244
 - no validation in, 821
 - populating of List Box family of controls and, 298
 - query data connection associated with, 822
 - secondary query data connections and, 820–821
 - SharePoint connections supported as, 292
- Secondary query connections
 - creating, 245–246
 - types of, 246*t*
- Secondary submit connection, main submit connection *vs.*, 390
- Section, Optional control, binding behavior of, 89*t*

- Section Commands dialog, 210, 210
- Section controls, 7, 46
 - address information and, 46
 - arbitrary, 522–523
 - binding behavior of, 89*t*
 - creating new set of signable data (partial signing) on, 524, 524
 - in design mode, 47
 - partial signing and, 522
 - setting up digital signatures on, 526
 - use of, *vs.* use of layout tables, 47
 - in Weekly Status Report view, 563
- Section Properties dialog
 - for Optional Section control, 205, 205–206
 - for Repeating Section fragment, 208
- Sections
 - access keys for inserting and removal of, 689
 - enabling for partial signing, 522
- Section signing, loading performance and, 955
- “Secure by default,” 15, 931
- Secure submit, with HTTPS, 383
- Security, 456, 552
 - accessing data connection files from CMCL and, 942
 - centrally managed connection library and, 936
 - configuring into form templates, 459, 459
 - cross-domain connections using the DCL and, 930
 - data connection libraries and, 713–714
 - data connections in browser-based form templates and, 710
 - deployment and, 455–552
 - designing into form templates, 459–460
 - domain simulation and, 428, 429
 - embedded SQL authentication and, 934–935
 - form filling and, 461
 - form template publishing and, 401–402
 - HTTP data connections and, 934
 - introduction to, 456–458
 - local intranet zone and, 471
 - publishing via e-mail and, 415–416
 - setting up connection to database and, 257
 - signed data blocks and, 814
 - submitting digitally signed form data and, 365–368
- Security and Trust category, on Form Options dialog, 468
- Security and Trust category settings, for signing a form template, 489, 489
- Security and Trust tab, of Form Options dialog, 485
- Security levels
 - automatic, 482–483
 - designing security into form templates, 459–460
 - domain, 467–482
 - full trust, 484–498
 - with InfoPath, 458–498
 - request on demand for, 462
 - restricted, 460–467
- Security levels for this zone setting, 468–469, 469
- Security notices, data connections and, 255
- Security privilege error, insufficient, 403
- Security prompt, with data connections, 290
- Security settings spillover warning, 468
- Security zone, determining, 468
- Select a Control dialog, 143
- Select a Field or Group dialog, 157, 157, 158, 590
 - Filter Data button in, 628
- SelectAncestors** method, 778
- Select Certificate dialog, 490
- Select Database and Table dialog, 261, 261
- SelectDescendants** method, 778
- SelectedIndexChanged** event handler, 985 (listing)
 - after code to support saving the current form if dirty, 987 (listing)
- Selected Text Box control, 78
- Select** methods, 778
- selectSingleNode** method, 1091
- Select the Data to Sign dialog, 515
 - using, 527
- Select Users dialog, 618, 618
- Select XPath button, 157
- Self-signed certificates, 489
 - creating for code signing, 490, 490
 - in Select Certificate dialog, 491
 - trusting, 491, 492
- Semicolons, multiple aliases separated by, 617–618
- Semistructured documents, 5, 93
- Sender** object
 - exposure of, as **Source** on **XmlEventArgs** object in InfoPath 2003 OM, 747
 - as object parameter, 747

- sender parameter, 1106
 - InitEventHandler** method and, 1001
 - NotifyHostEventHandler** method and, 1003
 - SubmitToHostEventHandler** method and, 1009
- “Sending data to the server” busy dialog, 773
- Send to HR for Approval button, 755
- Sensitive information, keeping out of main data source, 800
- Separators
 - for multiple view printing, 594
 - for rich text nodes, 575, 576
- Sequential workflow, 634–635
- Serializable** attribute, 1005
- Serialization, 366
 - dataset, 373
 - diffgram, 374
- Server
 - configuring, to send e-mail, 949
 - data connection authentication and, 943–948
 - disabling user from publishing directly to, 892
 - form features that automatically communicate with, 704*t*
 - uploading form template to, 893–895
- Server downtime
 - preventive maintenance and, 919–920, 927
 - quiescing and, 913–916
- Server health, monitoring, 962–963
- Server identity, data connections in browser-based form templates and, 710
- Server location, specifying, for publishing to a SharePoint site or Forms Services site, 406
- Server stress, form code in browser form and, 953
- Server throughput, tradeoffs related to, 951
- Service, searching UDDI by, 299
- Session state, 881
 - enabling on ASP.NET page, 1018
 - Forms Services and, 683
 - learning more about, 912
 - view state *vs.*, 957
- Session state performance, paying attention to, 909
- Session state service, 907–908, 1018
 - configuring, 908
 - in Forms Services, 908–909
 - turning off, 907
- SessionStateService** object, 918
- Session state setting, number of postbacks per, 910
- Session state timeout, 961
- SetFindReplaceOptionSearchDirection**
 - command, hosted form and, 996
- SetFindString** command, hosted form and, 995, 996, 997
- SetLcid**, 1135
- Set of Signable Data dialog, 524, 525
 - Signature options portion of, 526
- SetProgressDialogPosition** method, 1137
- SetProgressDialogStatus** method, 1137
- SetSubmitToHostEventHandler**
 - method, 1009
- Settings Page, in Document Information Panel, 970, 970
- SetToolBarButtonStates** method, 998–999
 - (listing), 1000
 - main purpose of, 999
- Shape** command (ADO), 267
- Shape query, 266
- Shared Add-in project template type, shown in New Project wizard, 1077, 1077
- Shared Add-in Wizard
 - namespace and class created by, 1078, 1079 (listing)
 - selecting InfoPath as supported application in, 1078, 1078
- Shared services, configuring, 907–912
- Shared Services Provider, 676
- Shared session service, 918
- Shared session state service, performance tips, 956, 957
- SharePoint
 - form library on, 409
 - InfoPath form template based on Document content type after adding Assigned To column in, 972, 972
 - publishing new form template as a Document Information Panel template for, 975, 975
 - registering alternate URLs with, 928
 - understanding basics of, 705
- SharePoint 2007, Microsoft Operations Manager pack with, 963
- SharePoint Central Administration site, 20, 675
 - configuration page for server logging and tracing settings on, 925

- enabling Information Rights Management
 - on, 549, 549
- SharePoint Central Administration site
 - URL, 892
- SharePoint document library
 - merging forms from, 556–558
 - submit connection to, 336, 337
 - Submit Options dialog configured to
 - submit to, 379
 - with submitted form data, 380
- SharePoint Document Properties page, 969
- SharePoint integration, 705–710, 885, 888, 925–929
 - advanced publishing, 888–903
 - configuring InfoPath Forms Services, 906–907
 - configuring shared services and providers, 907–920, 925–928
 - document libraries and, 705–708
 - filling out a form on a SharePoint page, 928–929
 - with Forms Services, 710
 - form templates management, 904–905
 - site content type and, 709
- SharePoint library(ies), 297
 - lists and, 292–295
 - maximum number of items in, 708
 - property promotion and, 410
 - submitting forms to, 377–380
- SharePoint list, 26, 467
 - choosing fields from, to use for data connection, 294
- SharePoint page, filling out a form on, 928–929
- SharePoint permissions
 - direct mapping of, to IRM, 552*t*
 - Forms Services and, 707*t*
- SharePoint Products and Technologies Configuration Wizard, 673
- SharePoint roles, mapping of, to IRM permissions, 551*t*
- SharePoint root site collection, copying
 - physical path for, from Internet Information Services (IIS) Manager, 1013, 1013
- SharePoint server
 - data connection authentication and, 943
 - entering address of site collection of, 405
 - flowchart for determining whether form publishes to Forms Services
 - site or, 404
 - libraries and lists available for querying
 - from, 293
 - local intranet forms and, 471
 - mobile site for, 721
 - publishing form template to, 404–409
 - saving template somewhere on, when creating a site content type, 407
 - specifying server location for publishing to, 406
 - in 32- and 64-bit architectures, 672
- SharePoint Server 2007, 953
 - choosing type of server to install, 674, 674
 - with Enterprise features, 678
 - installing, 672
- SharePoint Server 2007 platform, 19
 - Form Services built on and integrated with, 668, 669
- SharePoint Services, 19
 - Web Application service, 674
- SharePoint site
 - collection themes, 679
 - form templates published to, and lack of access paths, 467
 - opening, by using file system path, 1014, 1014
 - uploading to, 397
 - using published site content type on, 409
- SharePoint site names, 1013
- SharePoint Web site, opening form template from, 28
- Shortcut keys, assignment of, to commands, 211
- Shortcut menu (or context menu), 211
- Show a notification for Visual Basic or C# code errors checkbox, in VSTO Options dialog, 850
- Show a success or failure message, 394
- Show dialog box messages immediately
 - when users enter invalid data action, 226
- Show Error Message dialog, 767, 767
- Show Error Message feature, 758
- Show only entries with unique display names checkbox, 320
- Show Trust Center entry point, under Tools menu, 498
- Sidebars, Forms Services, 669, 670
- Signable data
 - form showing the set of, with signature, 529
 - for qualifier, 217
 - signing when filling out the form, 528

- Signature confirmation message text, 529
 - in Set of Signable Data dialog, 525
- Signature Details dialog, for a signed Section control, 530
- Signature groups
 - creation and management of, 533
 - in data source, 525
- Signature options region, in Set of Signable Data dialog, 525
- Signatures dialog, 794, 814, 815
- Signatures group, XML Schema and, 535–536
- Signature storage, selecting a group for, 512
- Signature validation, opening a form and, 519
- Sign button, clicking, to apply a digital signature to a form, 515, 515
- Sign dialog, 516
 - name (or image) in, 529
- Signed data
 - in XML data, 534–353
 - in XML Schema, 535–538
- SignedDataBlocks** collection, 814
- Signed form templates, updating, 493
- Sign** form event, code for, 815 (listing)
- SigningAllowed** Boolean property, 814, 815
- Signing** event
 - full trust required for, 814
 - sinking and special-casing, 812, 813–814
- Sign** method, 814
- SimpleInfoPathActiveX control, 1050
 - Stock Properties page of ATL Control Wizard for, 1051, 1052
- SimpleInfoPathControl** class, 1058
 - put_Value** method for, 1057 (listing)
- SimpleInfoPathControl** object, 1056
 - Color property page for, 1054, 1054
- Single Sign-On
 - additional implementation information about, 945
 - authentication, 934, 944
 - CredentialType** values defined by, 946
- Sinking, 737
 - form events, 742
 - Loading** event, 753
 - Loading** event in form template to use the parameters, 1024 (listing)
 - Loading** form event, 881, 883
 - secondary data source events, 770
 - Signing** event, 812, 813–814
 - Submit** form event, 830–831 (listing)
 - XmlFormView Initialize** event, 1022
 - XmlFormView1** control, 1023
- Site Collection Features list, form name in, 898
- Site Collection Features page, 895
 - activation with, 898, 898
- Site collections
 - activating form template to, 895
 - multiple, using form template across, 897
- Site content types, 709
 - adding to document library, 409, 410
 - promoting properties with, 411
 - publishing as, 905
- siteIndependent** parameter, 760
- Site permission, locking down, 905
- Site tab, 189–193
 - resizing multiple controls, 191–193
 - setting text alignment, 190–191
 - of Text Box Properties dialog, 189
- SKUs, Forms Services installation and, 672–673
- Smart phones, 18
 - filling out forms on, 690, 720
- Software, trustworthy, 456–457
- Software Development Kit, 417
 - WordPress tool in, 596
- Solution Explorer, after adding the
 - XmlFormView folder and MyPage.aspx Web form, 1014, 1015
- SortChildNodes** method, 771, 773
- Sorting
 - survey responses, 656–657
 - view-based, 769
- Sorting conditions, bad, 265
- Sort Items Alphabetically command, 847
- Sort Order dialog, for setting three levels of sorting order, 265
- Source code, reviewing, 903
- Source files, warning that appears when saving to a folder already containing existing source files, 423
- Source forms, 559
- Source** parameter, 718–719
- SourceSafe operation, 855
- Specify a Binding Property page, of Add Custom Control Wizard, 1041, 1042
- Specify an Enable or Disable Property page, of Add Custom Control Wizard, 1042, 1043, 1051–1052
- Specify Data Type Options page, 1047
 - of Add Custom Control Wizard, 1044, 1044

- with Field option, 1045, 1046
- installing InfoPathChart control and Field or Group type on, 1050
- Specify Filter Conditions dialog, 628
- Specify Installation Options page, of Add Custom Control Wizard, 1040, 1040
- Speech input, improving recognition of, 195
- Split Cells toolbar button, 798
- Split Table Cells Vertically, in Layout task pane, 37
- Splitting, cells, 37
- SP1. *See* InfoPath 2003 Service Pack 1 (SP1)
- SQL authentication, embedded, 934–935
- SQL Server, 300
 - alleviating bottleneck in, 956–957
 - connecting to, after clicking Select Database, 260
 - connecting to databases other than, 256
- SQL Server Express 2005, 673
- SQL server login credentials, warning about, 257
- SQL Server 2000, unsupported data type and, 343*t*
- SQL Server 2005
 - unsupported data type and, 343*t*
 - XML data type, 269
- SQL session state service performance, measuring, 957
- Square brackets, user's e-mail address within, 950
- srcPath** parameter, 1136, 1136*t*, 1137
- SSP. *See* Shared Services Provider
- SSS. *See* Session state service
- Standard category
 - controls in, 43
 - in Controls task pane, 44
- Standard controls, 43–44, 45–46*t*, 46–48
 - employment application form template after addition of, 46
- Standard toolbar, Format Painter on, 79, 79
- Start mode, changing, 25
- “Start Over” feature, MOI Consulting
 - request form code and, 808–810
- State machine workflow, 635
- Static default data, 85
- Static default values, 106
- Status report data, exporting to Microsoft Office Excel, 608, 608–609
- Status report forms, 555, 613
 - filling out
 - in browser by using Forms Services, 667
 - on Pocket PC device, 721, 721
 - merging, 558–559, 559
 - quiescing error and, 913, 913
- Status report form template, 553, 554
 - workflow and, 615
- Status reports
 - merging by team name and then by employee name, 561, 565
 - merging into one, 561–562
- Status report sample form template, publishing to Form Services, 678–681
- StatusReports** group node, customizing merge behavior for, 565–566
- StatusReports** repeating group node
 - Merge Settings dialog for, 568, 569
 - merging data in, based on value of **Team** name, 566–569, 571, 573–576, 578
- Stock Properties page, of ATL Control Wizard for SimpleInfoPathActiveX control, 1051, 1052
- Stock tracking Text Box control, conditional formatting applied to, 219–222
- String data types, 99, 99*t*, 773
- String** field, 774
- string** field, explanation behind name for, 287
- String values, addition of, under each LCID key, 1130*t*
- Structural editing, 7, 308, 310
- Structural selection, 52
- Structural validation, 311
- stsadm.exe commands
 - full list of, specific to Forms Services, 899*t*
 - specific to quiescing, 918*t*
- stsadm.exe tool, 899
 - command-line quiescing and, 917
 - configuring e-mail and, 949 (listing)
 - sample command lines for running of, 900 (listing)
 - using, 900
- Student sign-in form
 - configuring conditional formatting to hide **LateReason** section if start time is later than now, 354
 - configuring SharePoint document library submit for, 378, 378
 - creating, 347–361
 - custom submit using rules and, 384–388
 - data source for, 362

- Student sign-in form (*cont.*)
 - design mode after finishing Data Connection Wizard for submitting data to Web service, 348
 - dialog that appears when student signs in tardy, 388
 - expression shown in popup message when student signs in late to class, 387
 - including text and child elements only in, 358–361
 - with instructor’s Class Information view with default data, 352, 352
 - matrix of submit possibilities among fields, groups, and the Include setting, 362*t*
 - partial submit and, 351–358
 - during preview, 350
 - previewing, 380
 - selecting Web service method for submit, 348
 - submitting entire form, 352–365
 - tardy student signs in to philosophy class, 357, 357
- Student sign-in form view, designing, 354
- Student SignIn Library** document library, 379
- StudentSignIn** method, parameter mapping and, 357
- StudentSignIn-Rules sample, 385
- StudentSignIn sample, 347
- StudentSignIn1 sample, 351
- Subject** field, 93
- Submit, unsupported database data types for, 343*t*
- Submit button, 390
 - on browser form toolbar, 683, 685–686
- Submit data connections, 327
 - specifying for form template, 1007
- Submit data option, 345
- Submit Data Wizard, differences between Receive and Submit Data and Receive Data Wizards and, 346
- Submit dialog, submitting InfoPath e-mail form in, 654, 654
- Submit error, dialog about, when user clicks Submit button after not filling in name in first view, 332, 333
- Submit failures, browser alert dialog and, 333, 333
- Submit** form event, sinking, 830–831 (listing)
- Submit functionality, customizing, 285
- Submit keyboard shortcut, assigning, 335
- Submit-only forms, creating, 347–361
- Submit Options dialog, 334, 335, 337, 390, 513
 - Advanced section of, 393, 393
 - configuration of, to submit to a SharePoint document library, 379
 - with Hosting environment as the destination, 1008, 1008
 - setting up form’s main submit to use code in, 829, 830
 - setting up submit using rules, 385, 385
 - for Web server submit via HTTP, 381
 - “Submitted by” subject line, in e-mail introduction, 950
- Submitted data, obscuring, 509
- Submitting forms, 327–395
 - best methods for, 335–337
 - custom submit with form code, 383–384
 - custom submit with rules, 384–388
 - to database, 341–344
 - data validation and, 331–334
 - dialog asking whether user wants to save form or to submit form, 329
 - dialog confirming that submit succeeded, 350
 - dialog that appears when submit with rules fails on a secondary connection, 390
 - digitally signed form data, 365–368
 - in entirety, 352–365
 - generic success dialog for main submit connection, 393
 - to host, 1007–1010
 - to hosting environment, 391–392
 - limiting amount of submitted data, 363
 - options for, 392–395
 - post-submit actions warning, 394
 - query may not get newly submitted data warning, 389
 - reasons for doing, 328–329
 - running list of rules and, 386
 - set up for, 334
 - to SharePoint library, 377–380
 - successful operations, 345
 - via e-mail, 337–341
 - to Web server via HTTP, 380–383
 - to a Web service, 344–368
- Submitting to a Web service, 344–368
 - including text and child elements only, 358–361
 - main submit, 344–345, 347, 349–351
 - partial submit, 351–358
 - submit parameter options, 358
- SubmitToHost**

- asynchronous nature of, 1032
 - handling submit in host page with, 1030 (listing)
 - submitting to hosting environment using, 1029–1031
 - SubmitToHostEventHandler** method, 1010 (listing)
 - three parameters taken by, 1009
 - Summary** node, 574
 - Merge Settings dialog for, 575, 575
 - Merge Settings dialog for, after customizations are complete, 577
 - Surround With functionality, with code snippets, 860
 - Survey-style forms, sending data as e-mail and, 336
 - Switching sickness, 853
 - SwitchView** form event, restricted OM available during, 826
 - System.Data.OleDb.NET** Framework classes, 256
 - SystemGenerated** errors, 765
 - System.Runtime.InteropServices.COMException**, 986
 - System.Windows.Forms.Application** class, 997
 - System.Windows.Forms** namespace, 739
- T**
- Tab characters, replacing, 361
 - Tab index property, 194
 - Table cells, empty, converting to Text Box controls, 1122–1123
 - Table-drawing tool, in InfoPath 2003 Service Pack 1 (SP1), 12
 - Table formats, in Layout task pane, 34–35, 35
 - Table menu, 39
 - Tables
 - defining relationships between, 261, 263
 - inserting, in InfoPath 2003 SP1, 13
 - Tables toolbar, 39
 - Hide Gridlines button in, 36
 - in InfoPath 2003 SP1, 13, 13
 - unavailability of, in VSTO, 861, 861
 - Tablet PCs, 16
 - Ink Picture control and form design with, 72
 - Input Scope button and, 195
 - Input Scope feature and, 198
 - Tablet PC stylus, Ink Picture control showing text entered with, 73
 - Table with Title, employment application form template and title added with, 36
 - Tabs, Visual Studio Designer controls grouped into, 846
 - Tampered forms, 366
 - Target documents, removing blank groups from, 572
 - Target forms, 559
 - default insert action and, 569
 - merging status report data into, 565
 - Targeting, form templates, 434–435
 - targetRoot** XSL variable, 585
 - Task panes
 - dockable, 845
 - hiding, in VSTO, 845
 - using from local resource files, 785
 - in VSTO, 844–847
 - TaskPanes** collection, 787
 - _taskPanes** collection, 1096, 1097
 - Task pane script, managed form code and, 783
 - TCS. *See* Trusted Certificate Store
 - Team Combo Box control, 622
 - auto-populating with team name of person filling out the form, 623
 - TeamData** XML file, 626–627 (listing)
 - Team** field and date, Header format dialog after addition of, 591
 - Team Lunch folder
 - “Food Preference” column shown in, 652, 652
 - grouping of, by food preference, 657
 - with responses to food preference survey, 656, 656
 - TeamName** field, selecting **UserRole** field corresponding to, in secondary data source, 628
 - Team** names, merging data in **StatusReports** repeating group node based on value of, 566–569, 571, 573–576, 578
 - Team names, XML file containing mapping from user roles to, 626–627 (listing)
 - Team status report
 - after merging three status reports, 574, 574
 - with header and footer information, 591, 591
 - merged, after all customizations are complete, 578, 578
 - printed, 587, 587

- Team Status Report view, 586, 587, 595, 615, 631, 632
 - filling out, in the browser, 604, 604
 - for merging multiple status report forms, 564, 564
 - as a print view in the browser, 604, 605
- Team Text Box control, 629
- Template compatibility, performing
 - additional verification on, 695
- Template data, default, editing, 151–154
- Template Part Properties dialog, 448, 449
 - after changing name and ID, 453, 453
- Template parts, 22, 29, 173, 174
 - adding to Controls task pane, 438–441
 - browser-enabled, designing, 701
 - data connections issues and inserting multiple instances of, 446
 - designing in VSTO, 841
 - existing, customization of, 452–454
 - icon and version number for, 440
 - identification of, in the view, 444
 - InfoPath support for, 438, 439
 - inserting into form template, 442–447
 - list of features not supported by, 435–436*t*
 - locating for reuse, 438
 - with no controls, 447
 - specifying alternative location for, 442
 - updating, 447–452
 - using, 438–447
- Template parts designing, 432–438
 - template part design mode, 434–435, 437–438
- Template part target, 435
- Template source files, Browse for Folder dialog for selecting location for saving of, 422
- Temporary file (.tmp extension), sample Web service saving InfoPath form data to, 365
- TerraServer, querying, for section of the San Francisco Bay near Highway 80, 291
- TerraServer project, 289
- Testing
 - form templates, 48
 - form template with artificial domains, 482
 - full trust form, 485
 - simulating a publish domain for, 481–482
- Test page, Web service, 280
- Test SQL Statement button, in Edit SQL dialog, 266
- Text alignment, setting with Size tab, 190–191
- Text Box Binding dialog, appearance of,
 - when Automatically create data source is disabled or Change Binding is used from a control, 139
- Text Box control, 7, 45*t*, 59, 169, 1037
 - address data and, 46
 - binding behavior of, 89*t*
 - conditional formatting set on, 216
 - converting empty table cells to, 1122–1123
 - importer and converting underlines to, 1139
 - with inner text aligned to outer text, 191
 - with inner text not aligned to outer text, 190
 - inserting into form template, 44
 - placeholder text in, 184
 - Properties dialog for, 174, 175
 - read-only, 805–806
 - unbound, critical design-time visual on, 150
- Text Box Properties dialog
 - Advanced tab of, showing input recognition section, 194
 - Display tab of, 183
 - Size tab of, 189
- Text labels, adjacent, control text aligned with, 354
- Text nodes, 747
 - multiple, concatenating strings by selection of, 773
- Text selection, multiple controls selected with, 80–81
- Text** stock property, 1052
- Thank You view, 831
 - of MOI Consulting request form, 797
- ThisAddIn.cs file, 1106, 1107
- ThisAddIn.Designer.cs/.vb, 1107
- ThisAddIn** partial class, 1107
- ThisAddIn_Shutdown** method, 1106
- ThisAddIn_Startup** method, 1106
 - implementation of, 1107, 1108 (listing), 1109
- ThisAddIn.vb file, 1106, 1107
- This form expires on combo box, 547
- this.MainDataSource**, 759
- thisXDocument.DOM**, 759
- Throughput, 866
 - postback reduction and, 953
- Time data type, 99*t*
- Timeout** property, setting, 824 (listing)
- Timeouts
 - data connection, 933
 - session state, 909, 961
 - setting, 908

- Time-sensitive/Critical request type, dialog
 - resulting from selection of, 793
 - To all occurrences of this section button, 206
 - To a network location deployment option, on Publishing Wizard, 400
 - Toolbar, browser form, 683–684, 684
 - configuring buttons on, 684
 - Toolbar buttons, customizing, for a browser-enabled template, 872, 872
 - Toolbars
 - hiding in Web pages hosting a form, 685
 - missing icons in, 1020
 - mobile forms and, 724
 - Toolbar updates
 - during application idle state, 997–1000
 - improving performance of, 999
 - Toolbox, after addition of **XmlFormView** control, 1016, 1016
 - Toolbox pane, Reset Toolbox option on, 847
 - ToolStrip control, adding, to IP insurance application, 990–991
 - ToolTips, lack of IntelliSense information in, 738
 - Tracing, with Unified Logging Service, 925–927
 - TrackBar control, 1108
 - TrackBar** property, 1110
 - TrackBarSample sample form template, 1110
 - TrackBar task pane, 1110, 1111
 - TrackBarTaskPane.dll.manifest file, managed add-ins in, 1112
 - TrackBarTaskPane managed add-in project, 1105
 - TrackBarUserControl** class, 1108
 - transform** attribute, 581, 583
 - Travel request approval, workflow initiation
 - e-mail message, 639
 - Travel request approval workflow, 636
 - customizing, 638, 638
 - Travel request forms, 634
 - with Workflow Task message bar, 640, 640
 - Travel requests, 614
 - approval or rejection of, 640
 - Travel Request sample form template, 636
 - Triangle icons, in VSTO, 845
 - True** Boolean value, form submits and, 350, 351
 - True/false (Boolean) data type, 99f
 - Trust, 455, 456, 552
 - designer lockdown and, 499–507
 - Trust Center, 489, 498, 499–503
 - Trust Center dialog, 1111, 1112, 1113, 1114
 - Add-ins category of, 501, 501, 501–503
 - Add-ins tab shown in, 1111, 1112
 - availability of, 499
 - categories in, 499
 - Privacy Options category of, 503, 503
 - Trusted Publishers category of, 499–501, 500, 500
 - Trusted Certificate Store, updating, 488
 - Trusted publishers, list of, 489
 - Trusted Publishers category, in Trust Center dialog, 499–501, 500, 500
 - Trusted root certification authorities, for the current user, 488, 488
 - Trusted Root Certification Authorities folder, 488, 488
 - Trusted sites zone, 477
 - Trusting, untrusted certificates, 492
 - Trust levels, domain simulation and, 429
 - Trust settings
 - configuring into form templates, 459, 459
 - publishing via e-mail and, 416
 - Trustworthy Computing, 455, 456, 457
 - two sides to, 456–457, 458
 - try-catch** block, using around Web service connection's **Execute** override method, 824
 - TryParse** method, of **DateTime**, 760
 - try** snippet, 860
 - Try to Connect, error dialog resulting from clicking on, if data connection is unavailable, 316, 316
 - TWC. *See* Trustworthy Computing
 - Two-dimensional flow layout, 798
 - Type-ahead support, in list box controls, 44
 - Typed dataset, creating from **Customers** and **Orders SqlDataAdapter** objects, 304
 - Typed dataset objects, 301
 - Type** property, 788
- ## U
- UDC authentication, 944–946
 - UDC files, SQL credentials in, 935
 - udc** parameter, data connections from CMCL and, 942
 - udc:SSO** authentication type, 945
 - .udcx extension, list-item permissions and, 711

- .udcx file
 - optionally deleting from data connection library, 941
 - uploading to centrally managed connection library, 939–940, 940
- UDDI. *See* Universal Description, Discovery, and Integration
- UI. *See* User interface
- Unbound control, 150, 150
- UNC network path, local intranet forms and, 471
- Underscores, XML, naming nodes and, 104
- Undo button
 - enabling/disabling, 1000
 - hosted form and, 994, 997
- Undo operation, 771
- UndoRedo** property, 771
- Unhandled exceptions, double notifications for, 851
- Unified Logging Service, tracing with, 925–927
- Uniform Resource Locators
 - domain form identified by, 467
 - form template's access path and, 460
 - registering alternate, with SharePoint, 928
- Uniform Resource Names, 459
 - for template parts, 454
- Universal Description, Discovery, and Integration, 291, 297
 - searching with, 299
- UNIX systems, browser-based forms and, 668
- UNIX variants, Forms Services and, 690
- Unpublished forms, previewing, with CMCL connections, 941
- Unstructured documents, 93
- Untrusted certificate authority, InfoPath prompt for, 492
- Untrusted certificates, trusting, 492
- Untrusted Root Authority dialog, 488
- Untyped dataset objects, 301
- Unused data connections, deleting, 380
- Update button
 - adding, 872–874
 - on browser form toolbar, 684, 687
- Update Form action, 873
- Updates/updating
 - access path and, 463
 - cascading, 305, 306
 - publishing form templates and, 407
 - signed form templates, 493
 - template parts, 447–452
 - locating all template parts needing to be updated, 451–452
 - updating form template containing AddressBlock template part, 449–451
- Update this value when the result of the formula is recalculated checkbox, 154
- Upgrade OM button, 733
- Upgrading
 - form code from InfoPath 2003, 842
 - to Forms Services, 677
 - form templates, quiescing and, 916–917
 - Object Model, 734
- Upload & Activate function, 900
- Upload Data Connection File page, 939, 940
- Upload Form Template page, 893, 894, 917
- URL-based options, for opening browser-enabled form templates, 716–720
- URL parameters, passing, from host to the form, 1021–1025
- URLs. *See* Uniform Resource Locators
- urn** parameter
 - data connections from CMCL and, 942, 943
- URNs. *See* Uniform Resource Names
- UserExplicit** block, for data connection (.udcx) file, 945, 945
- Use (literal or encoded) part, 288
- UseMail** node, registering XML event handler to **Changing** event of, 781 (listing)
- User Control, 1108
- UserControl** class, creating in .NET, for wrapping Text Box control, 1061
- UserDefined** errors, 765
- User feedback, **MessageBox.Show** and, 805 (listing)
- User form templates, cross-domain access for, 931–932
- User groups, assigning, 617–618
- User interface, 4
 - showing by using **MessageBox**, 878–879
- User interface (UI) items, COM add-ins and addition of, 1076
- UserIsAuthorized** property, code for, 752, 753 (listing)
- User login name, retrieval of, from Web service proxy, 947–948
- UserName**, **LoginName** *vs.*, 806

- User names, assignment of, to roles, 617–618
 - User names checkbox, 617
 - User Options file, 838
 - User publishing, 888
 - UserRole** field, selection of, that corresponds to **TeamName** field in secondary data source, 628
 - User roles, 613, 614–634, 670, 865
 - in action, 621
 - conditional formatting with, 630–631
 - creating, 616–620
 - current, 217
 - data validation with, 629–630
 - determination of, when filling out a form, 620–621
 - filtering data based on, 626–629
 - new, creating, 617
 - previewing forms with, 427–428
 - previewing with, 624–626
 - role-based views, 631–634
 - rudimentary implementation of, in browser, 882 (listing)
 - in rules, 622–624
 - setting default value to, 629
 - simulating in the browser, 880–882
 - specifying, in condition for data validation, 630
 - warning about use of, as security feature, 616
 - XML containing mapping from, to team names, 626–627 (listing)
 - User role section, at top of Preview tab, 625
 - Users, setting IRM permissions for, 551–552
 - Users' access path, specifying, 401, 402
 - Users can request additional permission form setting, 548
 - User's current role qualifier, 217
 - using** references, adding to ASP.NET project, 1021
- V**
- Validate Form button
 - clicking on, to show dialog box message in the browser, 1034, 1034
 - code behind, in life insurance form template, 1032, 1033 (listing)
 - Validating** event, 757–764, 776, 955
 - changes accepted in, 757
 - Validating** event handler, 802
 - for **Estimate** field in form code, 1006 (listing)
 - Validation
 - data, 222–229
 - on form load, 763
 - structural, 311
 - Validation and Rules section, of Data tab, 180
 - Validation error messages, 100
 - Validation errors, 413
 - for cannot be blank property, delineated by red asterisk, 102
 - error dialog related to submitting form with, in current view, 349
 - iterating through, 758
 - for opening a form created before the **FlightType-FlightDate** node swap, 121
 - submitting forms and, 331
 - warning when saving form with, 100
 - Validation tab, on Field or Group Properties dialog, 224, 224
 - Valid digital signatures, 533
 - Value, of condition, 217
 - Value** binding property, 1042
 - ValueChanged** event, 1110
 - Value** property, 955–956, 1052, 1147
 - building custom controls for InfoPath using ActiveX and implementation of, 1056–1058
 - Variable watches, 740
 - VBScript, 10, 497, 731, 782, 783, 790
 - Verbosity
 - increasing, for server's logging level, 925
 - server performance and increases in, 927
 - Verification
 - of form template, 902
 - of form template, copying location before, 893
 - Verify Formula button, 162
 - Verify function, 900
 - Verify on Server option, in Design Checker task pane, 872
 - VeriSign, 489, 492, 1041
 - Versioning, form libraries and, 706
 - Version numbers, automatic setting of, 440
 - version** parameter, data connections from CMCL and, 942, 943
 - Version upgrade feature, 96
 - Vertical Label control, 14, 163–164, 164
 - binding behavior of, 90t
 - Expression Box control changed to, 188

- Vertical text
 - errors due to, 698
 - remake of Overall Satisfaction table
 - without, 698, 699
- View-based sorting, 769
- View-based structural editing, through object model, 827
- View drop-down, on browser form toolbar, 684, 687
- view** element, post-import warnings and, 1140, 1141
- View extension functions, 881
- View menu, removing print view from, 588
- View properties, customizing, 75–76
- View Properties dialog
 - opening, 75, 75
 - Print Settings tab of, 588, 588, 589
 - Text Settings tab in, 82, 83
- View representation, of controls, 41
- Views
 - in form templates, 26
 - merged status report forms in, 562
 - mobile forms, 724
 - multiple, creation of, 73–76
 - performance tips, 952
- Views link, in Design Tasks task pane, 845
- viewsReadOnlyMode** parameter,
 - OnInitEventHandler** method and, 1002
- Views task pane, 34*t*, 74, 74, 586
- View state, session state *vs.*, 957
- ViewSwitched** event, 1003
- ViewSwitched** form event, handling, when switching to specific views, 826 (listing)
- View switching, 952
 - postbacks and, 911
- Virtual controls, 168
- Visible** property, 788, 1098
 - hiding task pane and, 826
- VisibleStateChange** event handler, 1098, 1100 (listing)
- Visio, COM add-ins supported by, 1073
- Visual Basic, 732
 - custom controls and, 174
 - project file, 838
- Visual Basic .NET, 4
 - custom controls and, 174
 - hosting InfoPath and, 978
- Visual C#, custom controls and, 174
- Visual C++, custom controls and, 174
- Visual C# project file, 838
- Visual C# Windows application, 979
- Visual flair, adding to forms, 85
- Visual layout, designing for MOI Consulting request form, 798
- Visuals
 - design-time, 47
 - showing all, 151
- Visual SourceSafe, source control with, 855
- Visual Studio, 288
 - building Installer package and, 419
 - debugging in, 741
 - debugging Web service in, 277, 359, 359
 - graphical schema editor with, 133
 - installable form templates and, 417
- Visual Studio Designer, 853
- Visual Studio Designer controls, grouping of, into tabs, 846
- Visual Studio Project file, 838
- Visual Studio project-specific features, 856–857
 - exporting projects as templates, 857
 - working with multiple projects, 856
- Visual Studio schema editor, 305
- Visual Studio Solution Explorer, deleting files from, 840
- Visual Studio Solution (.sln), 838
- Visual Studio Toolbox
 - after addition of **FormControl** control, 980, 980
 - InfoPath controls integrated into, 846
- Visual Studio Tools for Microsoft Office InfoPath 2007, 833–863
- Visual Studio 2005, 23, 344, 833, 834, 835, 1076, 1105
 - closing before beginning or repairing VSTO installation, 836
 - code signing in, 859
 - creating new Windows Control Library project in, 1062
 - creating simple Web service with, 274–279
 - New Project dialog in, 837, 837
 - objsafe.h file in Windows Platform SDK with, 1054
 - panes organized in, 845
 - Print preview in, 863
 - refactoring tools in, 859, 859
 - versions of, as prerequisites to VSTO installation, 836

- Web service created in, 296
 - Visual Studio 2005 Tools for Applications.
 - See VSTA
 - Visual Studio 2005 Tools for the 2007 Microsoft Office System. See VSTO
 - VSTA, 29, 737, 834
 - building the project and, 741
 - debugging options in, 740
 - preview feature and, 425
 - switching between InfoPath and, 835
 - VSTA development environment, after selecting Loading Event from Programming submenu, 737, 737
 - VSTO, 23, 834
 - Design a Form Template dialog in, 839
 - designing browser-enabled form template with, 840
 - Design Tasks task pane in, 844, 844
 - dialog informing user that VSTO never modifies existing form template, 840
 - form template design with, 836–863
 - InfoPath-specific commands in, 848–849†
 - InfoPath *vs.*, 840
 - installing, 836
 - integration of Visual Studio and InfoPath
 - design mode and, 835
 - missing features in, 861–863
 - preview feature and, 425
 - previewing a form in, 863
 - purpose of, 834–835
 - Quick Find in, 854
 - Resource Files dialog in, 858, 858
 - Save and Save All options in, 861–862
 - start designing form template in, 837–842
 - template parts designed in, 841
 - using existing form template with script, to create InfoPath project in, 841
 - warning about using one design environment at a time, 862
 - VSTO design experience, 843–853
 - menus, 848, 850
 - task panes, 844–847
 - working with controls, 851–853
 - VSTO feature set, 853–860
 - code-specific features, 858–860
 - code snippets, 860
 - refactoring, 859
 - signing, 859
 - Find and Replace, 854–855
 - resource editing, 858
 - source control with Visual SourceSafe, 855
 - Visual Studio project-specific features, 856–857
 - exporting projects as templates, 857
 - working with multiple projects, 856
 - VSTO InfoPath project, structure of, 838, 838
 - VSTO Options dialog, Microsoft Office InfoPath category options in, 850, 850
 - VSTO 2005 SE, writing add-ins and Custom Task Panes with use of, 1105–1106
- ## W
- Web, publishing InfoPath from template to, 17
 - Web Accessibility setting, in Upload Data Connection File page, 940, 940
 - Web browsers
 - designing forms users can fill via, 29
 - forms filled out in, 665
 - hosting InfoPath form control in, 1011–1035
 - Web-enabled forms, submit and, 720
 - Web Front Ends, 672, 676
 - Web Front End servers
 - building ASP.NET Web form with **XmlFormView** control and, 1012
 - logs for, 925
 - SQL Server and, 956, 957
 - Web server, 273
 - submitting form to, via HTTP, 380–383
 - Web server (HTTP), submit connection to, 336, 337
 - Web server (HTTP) connection, ASP.NET page load event handler to read data submitted by, 383 (listing)
 - Web server (HTTP) submit
 - how it is not considered real data connection, 382
 - how it works, 382
 - Office Server connection with, 382
 - Web service connection **Timeout** property, setting, 824 (listing)
 - Web service data connections, 467
 - capturing errors from execution of, 825 (listing)
 - Web Service Definition Language, 10, 273
 - displaying Web service method description from, 282

- entering an address to, 281
 - portability of, 282
 - use of, 279
- Web service form, querying and submitting
- during preview, 287, 287
- Web Service option, in Design a Form
- Template dialog, 245
- Web service parameters, 364
- Web service project, debugging in Visual Studio, 277
- Web service proxy, 946–948
- code behind a Web service to get user name from, 947, 948 (listing)
 - getting user login name from, 947–948
 - turning on, 947
- Web service repository, 291
- Web services, 10, 273–291, 297
- ADO.NET, 300–307
 - compatibility of, with InfoPath, 288–289
 - description of, 273
 - design after finishing Data Connection Wizard for submitting data to, 348
 - designing student sign-in form based on, 347
 - extended features of, 298–307
 - form templates created from, 307
 - handling connection failures, 824
 - main data source extensibility and, 353
 - querying, 820
 - returning data from, 349
 - searching with UDDI, 299
 - selecting method for submitting student sign-in data, 348
 - sending digitally signed form data to, 366
 - specifying how form works with, 346
 - submitting forms to, 336, 344–368
 - UDDI and searches for, 291
- Web service sample dependency, 792
- Web service (simple)
- creating with Visual Studio 2005, 274–279
 - InfoPath design mode after finishing Data Connection Wizard for, 286
 - InfoPath Web services and, 280–287
 - list of methods from, for receiving data, 283
 - part of browser-friendly test page for navigation in, 278
 - using, 279–280
 - warning: sample code not production-ready, 275
 - writing code for, 276 (listing)
- Web Service Submit**, 384, 385, 386
- Web service submit, parameter mappings
- defined for, 356, 356–358
- Web Service Submit** connection, in list on Data Connection dialog, 379
- Web service test page, 280
- WeeklyStatusReport_BrowserEnabled
- sample, 603
- Weekly status report document library, in Merge Forms view, 558
- Weekly status report form, 555
- Weekly status report form template, Weekly Status Report view of, 562, 563
- Weekly Status Report view, 602, 622, 632
- Welcome view, 808, 809
- of MOI Consulting request form, 791, 791, 798, 799, 800
- WFEs. *See* Web Front Ends
- Whole number (integer) data type, 997, 178
- Widths, custom, for forms, 76
- Wildcard expressions, form performance and, 954
- window.external.Window.XDocument**
- object, not all OM is available via, 790
- Windows Authentication, 259
- window.setTimeout** method, 1035
- Windows Event Viewer, 920
- Windows Explorer, finding template file location with, 422
- Windows Integrated authentication, 934
- Windows Performance Monitor, 866, 958
- Word, 3, 4
- COM add-ins supported by, 1073
 - custom task panes added into, 1093
 - default Document Information Panel in, 966, 968, 970
 - form importing and, 28, 29
 - InfoPath formatting options and those in, 77
 - Mime HTML file opened in, 606
 - Print Views feature in, 596–605
 - Trust Center dialog and, 499
 - VSTO package and, 834
- Word documents
- importing into InfoPath, 1119–1124
 - Import Options dialog for importing of, 1121, 1121
 - InfoPath default importers for, 1128
- Word forms, built-in importer for, 1116

WordPrint tool, 596
 registering dynamically linked libraries for, 597

Word print view, default print settings and, 603

Word Print Views dialog, 600, 600

WordPrint wizard, 597, 600

Word 2003, Document properties dialog in, 966, 967

Word 2007, Document Information Panel in, 966, 967

Workflow, 613–663
 automatic *vs.* manual initiation of, 637
 browser-enabled forms and, 642
 checking on status of, 641
 with InfoPath e-mail forms, 643–662
 InfoPath 2003 SP1 and support for, 16
 with Microsoft Office SharePoint Server 2007, 634–642
 sequential, 634–635
 state machine, 635
 user roles, 614–634

Workflow dialog, 641, 642

Workflow Services, 19

Workflow Task message bar, 640, 640, 641

World Wide Web Consortium, 5, 507, 508

Wrap text property, 185

Writing
 own merge XSL, 582–586
 script, 730

W3 Schools Web site, 137, 769

WScript.Shell, 784

WSDL. *See* Web Service Definition Language

WSDL URL, creating Web service data connection while designing a form and, 273

W3C. *See* World Wide Web Consortium

X

xd:binding attribute, 1139

xd:CtrlId attribute, 1140

xdDefault value, **viewsReadOnlyMode** parameter and, 1002

xdFrozen value, **viewsReadOnlyMode** parameter and, 1002

xdNonEditable value, **viewsReadOnlyMode** parameter and, 1002

XDocumentBeforeClose event, 1107, 1109, 1110

 hooking up event handlers for, 1082

XDocumentBeforeClose event handler, 1088

XDocumentOpen event, 1107, 1109
 hooking up event handlers for, 1082

XDocumentOpen event handler, 1088, 1089
 implementation of, 1089 (listing)

XDocument property, 1060

XDocument.Roles property, 621

XDocument.UI.Alert, 739

xd:xctname attribute, 1139

XHTML data type, 99, 99t

XMethods Web site, 291

XML
 element and attribute fields in, 95
 persisting default state of, for main and secondary data sources, 810–811 (listing)
 processing instructions, 364
 recursion in, 122

XML-based technologies, rapid adoption of, 3

XML data, 621
 co-signed digital signature created in, 532
 digital signatures in, 533–535
 entering file location to use when creating a secondary connection to, 249
 in form template resource files, 250
 signed, warning about, 367
 signed data in, 534–535
 starting new blank form from, 126–127

XML data and schema
 matching of, before changing field or group name, 96
 mismatched, after name change, 96

XML data connection, for restricted form templates, 466

XML data events, 730, 744–777
 Changed event, 767–773
 data states, 749–764
 event bubbling, 745–748
 form errors, 765–767
 how data changes, 744–745

XmlDataEvents sample form template, 744

XML data file adapter, data to fill into a form and save to Sample.xml, to be read later with, 248

XML document
 data source created from, 136
 Type drop-down menu, with option for addition of, 134

XmlDocument, loading data into, 367

- XmlDocument** class, 730
- XML document connections, remote, 713
- XML document or schema
 - existing, designing form from instead of creating data source from scratch, 125
 - selecting location of, 125
- XML event handlers
 - examples of advanced XPathS for
 - registration of, 782*t*
 - multiple event notifications for, 773–777
 - registering to **Changing** event of **UseMail** node, 781 (listing)
- XML events, no support of complex XPathS for, 782
- .xml extension, list-item permissions and, 711
- XML file connection settings, to opt in or out of including the data as a file in your template, 249
- XML file data adapter, 247
- XML files, 247–255, 297
 - choosing whether to include data from, as form template default data, 127
 - final page of Data Connection Wizard for, 251
 - inferring, 127
 - with mapping from user roles to team names, 626–627 (listing)
 - permissions and, 247
- XML file secondary data connection, form after querying, 310
- XML form, opening from the server, 715
- XML format, for attached files, 70
- XmlForm** object
 - checking **Dirty** property on, 1000
 - warning against storing references to, 1002
- xmlForm** parameter, **InitEventHandler** method and, 1001
- XmlFormView** class, 1011, 1015
- XmlFormView** control
 - all properties of, 1026*t*
 - commonly used properties of, 1017*t*
 - one instance of, per page, 1018
 - requirements for, 1012
 - Toolbox after addition of, 1016, 1016*t*
 - writing InfoPath form code in host page with use of, 1025, 1027–1028
- XmlFormView1** control
 - Initialize** event handler added in host page for, 1023
 - sinking, 1023
 - visibility of, 1020
- XmlFormView.EditingStatus**, hiding
 - XmlFormView** control and, 1021
- XmlFormView folder, Solution Explorer after addition of, 1014, 1015
- XmlFormView** initialization, timeline of, 1022
- XmlFormView1_SubmitToHost** method, 1030
- XML fragments, 206, 207, 317
- XmlLocation** parameter, 719
- XmlNode class, 730
- XmlNodeToString** Web method, submitting **ClassInformation** group to, 358
- XML Path Language, 6, 133, 771
- XML Schema, 4, 5, 7, 14, 124, 513
 - for airline form template, 109 (listing)
 - data source details and, 93–94
 - extraction of, from form template, 102
 - form template created from, 30*t*
 - inferring, 127
 - InfoPath controls and, created “behind” data source in XSD file, 111–115*t*
 - for main data source, 255
 - potential complications with starting new blank form from, 129–132
 - signed data in, 535–538
 - starting new blank form from, 128–129
 - Type drop-down menu, with option for addition of, 134
- XML Signature, 507, 508
- XML Signature Syntax and Processing, 535
- XML Structure task pane, in Microsoft Office Word, 597, 598
- XML subtree, including the selected element option, 361
- XML subtree, InfoPathChart control and implementing control that binds to, 1050–1051
- XML technologies, 4
- xmlToEdit** string, finding, for a structurally editable control, 827, 828
- XML tree structure in Word, building, to match structure of data source in InfoPath, 599
- XPath. *See* XML Path Language
- XPathException**, 778
- XPathNavigator** class, 730
 - description of, 747
 - learning more about, 780
- XPathNavigator IsDescendent** method, 811

- XPathNavigator** objects, 312
 - deleting nodes and, 779–780
 - finding XPath of node, 777
 - selecting multiple nodes, 779
 - using, 777–780
 - using **NamespaceManager** parameter, 778
 - XPathNavigator** parameter, passing **null** for, in **Execute** override method, 822
 - XPathNavigator Select** method, 777
 - XPathNodeIterator**, selecting multiple nodes
 - with, 779 (listing)
 - Xpath** parameter, 777
 - XSD. *See* XML Schema
 - xsd:any** extensibility element, 133
 - xsd:any** schema element, 137, 292
 - XSD file, InfoPath controls and XML Schema
 - created “behind” data source in, 111–115*t*
 - .xsf** file, buttons in, 151
 - xsf:importSource** element, 581, 583
 - xsf** namespace, 108
 - xsi:nil**, field changes and, 774
 - XSL, 580
 - for Word print view, 599, 599
 - xsl:sort** directive, 769
 - XSLT. *See* Extensible Stylesheet Language Transformations
 - xsl:value-of** statement, 1140
 - .xsn** file, 398
 - .xsn** file extension, for form templates, 26
 - XSN form template, opening from the server, 715
 - XsnLocation**, updating, 1025
 - XsnLocation** parameter, 719
- ## Z
- Zones, 467
 - Internet, 475
 - local intranet, 470–474
 - local machine, 478
 - restricted sites, 470
 - trusted sites, 477