

Microsoft .NET Framework

Commonly Used Types and Assemblies

Windows Presentation Foundation

System.Windows

Style 3.0
Trigger 3.0
UIElement3D NEW
Visibility 3.0
Window 3.0

System.Windows.Controls

Border 3.0
Button 3.0
CheckBox 3.0
ColumnDefinition 3.0
ContextMenu 3.0
ControlTemplate 3.0
DockPanel 3.0
FlowDocumentReader 3.0
Frame 3.0
Grid 3.0
Image 3.0

System.Windows.Controls.Primitives

RowDefinition 3.0
ScrollViewer 3.0
Slider 3.0
SpellCheck 3.0
StackPanel 3.0
TabControl 3.0
TabItem 3.0
TextBlock 3.0
TextBox 3.0
ToolBar 3.0
ToolTip 3.0
TreeView 3.0
UIElementCollection 3.0
ViewBox 3.0
Viewport3D 3.0
VirtualizingStackPanel 3.0
WrapPanel 3.0

System.Windows.Documents

ObjectDataProvider 3.0
XmlDataProvider 3.0
Block 3.0
Bold 3.0
Figure 3.0
FixedDocument 3.0
Floater 3.0
FlowDocument 3.0
Hyperlink 3.0
Inline 3.0
Italic 3.0
List 3.0
ListItem 3.0
Paragraph 3.0
Run 3.0
Section 3.0
Span 3.0

System.Windows.Fo

ElementHost 3.0
WindowsFormsHost

System.Windows.In

Cursor 3.0
Cursors 3.0
FocusManager 3.0
InputDevice 3.0
Keyboard 3.0
KeyboardNavigation
Mouse 3.0
Stylus 3.0

System.Windows.In

BrowserInteropHelp
HwndHost 3.0
InteropBitmap 3.0
WindowInteropHelp

Image –
InkCanvas 3.0
ItemCollection 3.0
ItemsPresenter 3.0
ListBox 3.0
ListView 3.0
MediaElement 3.0
Menu 3.0
MenuItem 3.0
Page 3.0
PasswordBox 3.0
ProgressBar 3.0
RadioButton 3.0
RichTextBox 3.0

Popup 3.0
RepeatButton 3.0
ScrollBar 3.0
StatusBar 3.0
TabPanel 3.0
Thumb 3.0
ToggleButton 3.0
UniformGrid 3.0

System.Windows.Data

Binding 3.0
CollectionView 3.0
DataSourceProvider 3.0
MultiBinding 3.0

Table 3.0
TableCell 3.0
TableColumn 3.0
TableRowGroup 3.0
TextPointer 3.0
TextRange 3.0
TextSelection 3.0
Underline 3.0

System.Windows.Documents.Serialization

SerializerDescriptor 3.0
SerializerProvider 3.0
SerializerWriter 3.0

System.Windows.Media

Colors 3.0
DrawingBrush 3.0
ImageBrush 3.0
LinearGradientBrush 3.0
RadialGradientBrush 3.0

Communications and Workflow

System.Messaging

Message CF
MessageQueue CF

System.Net

Dns CF
FtpWebRequest
HttpListener
HttpWebRequest CF SL
WebClient

System.Net.Mail

MailMessage
SmtpClient

System.Net.NetworkInformation

NetworkInterface
NetworkChange
Ping

System.Net.PeerToPeer NEW

Cloud NEW
PeerName NEW
PeerNameRecord NEW
PeerNameResolver NEW

System.Net.PeerToPeer.Collaboration NEW

System.Net.Sockets

NetworkStream CF
Socket CF
TcpClient
TcpListener CF
UdpClient CF

System.ServiceModel

NetMsmqBinding 3.0
NetTcpBinding 3.0
OperationBehaviorAttribute 3.0
OperationContractAttribute 3.0
ServiceBehaviorAttribute 3.0
ServiceContractAttribute 3.0
ServiceHost 3.0
WorkflowServiceHost NEW
WSHttpBinding 3.0

System.ServiceModel.Activation

AspNetCompatibilityRequirementsAttribute 3.0
ServiceHostFactory 3.0
WorkflowServiceHostFactory NEW

System.ServiceModel.Channels

Binding 3.0 CF
CommunicationObject 3.0 CF

System.ServiceModel.Description

DurableOperationAttribute NEW
DurableServiceAttribute NEW
IEndpointBehavior 3.0
IOperationBehavior 3.0
IServiceBehavior 3.0
MetadataExporter 3.0
MetadatalImporter 3.0
OperationDescription 3.0
ServiceEndpoint 3.0
ServiceDescription 3.0
WebHttpBehavior 3.0
WebScriptEnablingBehavior NEW
WorkflowRuntimeBehavior NEW

System.ServiceModel.Diagnostics

PerformanceCounterScope 3.0

System.ServiceModel.Dispatcher

ClientOperation 3.0
ClientRuntime 3.0
DispatchOperation 3.0
DispatchRuntime 3.0

System.ServiceModel.MsmqIntegration

MsmqIntegrationBinding 3.0

System.ServiceModel

SecurityAlgorithmSuite
SecurityMessageProtocol
SecurityVersion CF
System.ServiceModel
Atom10FeedFormat
Rss20FeedFormat
SyndicationFeed NEW
SyndicationItem NEW

System.ServiceModel

WebGetAttribute NEW
WebInvokeAttribute
WebOperationContext
WebServiceHost NEW

System.Web.Services

WebService
System.Web.Services
SoapHttpClientProtocol
System.Workflow.Activities
CodeActivity 3.0
SequenceActivity 3.0
ParallelActivity 3.0

ContactManager NEW
PeerApplication NEW
PeerCollaboration NEW
PeerContact NEW
PeerNearMe NEW

System.Net.Security

NegotiateStream
SslStream

IChannel 3.0 CF
Message 3.0 CF

System.ServiceModel.ComIntegration

ServiceMoniker 3.0

System.ServiceModel.PeerResolvers

CustomPeerResolverService 3.0

System.ServiceModel.Persistence NEW
PersistenceProvider NEW
PersistenceProviderFactory NEW
SqlPersistenceProviderFactory NEW

ReceiveActivity NEW
SendActivity NEW
StateMachineWorkItem
System.Workflow.A
Rule 3.0
RuleAction 3.0
RuleCondition 3.0
RuleSet 3.0

Fundamentals

System

Array CF SL
Boolean CF SL
Byte CF SL
Char CF SL
Console CF SL
DateTime CF SL
DateTimeOffset NEW SL
Decimal CF SL
Delegate CF SL
Enum CF SL
Environment CF SL
EventArgs CF SL
Exception CF SL
Int32 CF SL
Int64 CF SL
Math CF SL
Object CF SL
String CF SL
TimeZoneInfo NEW SL
Type CF SL
Uri SL

System.AddIn.Contract NEW

IContract NEW
INativeHandleContract NEW
System.AddIn.Hosting
AddInProcess NEW
AddInSecurity NEW
AddInStore NEW
AddInToken NEW

System.AddIn.Pipeline NEW

CollectionAdapters NEW
ContractBase NEW
ContractHandle NEW
FrameworkElementAdapters NEW

System.Collections

ArrayList CF
HashTable CF
IEnumerable SL

System.Collections.Generic

Dictionary<K,V> CF SL
HashSet<T> NEW
IEnumerable<T> SL
List<T> CF SL
Queue<T> CF
Stack<T> CF

System.ComponentModel

Component CF
TypeConverter CF

System.Configuration

Configuration

System.Diagnostics

Debug CF SL
EventLog
EventSchemaTraceListener NEW
Process CF
Trace CF

System.Diagnostics

EventDescriptor NEW
EventProvider NEW
EventProviderTraceListener
System.Diagnostics
EventLogInformation
EventLogReader NEW
EventLogRecord NEW
EventLogWatcher NEW
EventRecord NEW
ProviderMetadata NEW

System.Diagnostics

CounterData NEW
CounterSet NEW

System.DirectoryServices

DirectoryEntry
DirectorySearcher

System.DirectoryServices

Domain
Forest

Framework 3.5 and Namespaces

Windows Forms

Forms.Integration

3.0

put

3.0

terop

er 3.0

er 3.0

RotateTransform 3.0

ScaleTransform 3.0

SolidColorBrush 3.0

System.Windows.Media.Animation

DoubleAnimation 3.0

Storyboard 3.0

Timeline 3.0

System.Windows.Media.Effects

BlurBitmapEffect 3.0

DropShadowBitmapEffect 3.0

System.Windows.Media.Imaging

BitmapImage 3.0

RenderTargetBitmap 3.0

WritableBitmap 3.0

System.Windows.Media.Media3D

AmbientLight 3.0

System.Windows.Shapes

Ellipse 3.0

Line 3.0

Path 3.0

Polygon 3.0

Rectangle 3.0

System.Windows.Threading

DispatcherObject 3.0

DispatcherTimer 3.0

System.Windows.Xps

VisualsToXpsDocument 3.0

XpsDocumentWriter 3.0

System.Windows.Xps.Serialization

XpsSerializationManager 3.0

XpsSerializationManagerAsync 3.0

System.Drawing

Bitmap

Brush

Color

Font

Icon

Image

Pen

System.Drawing.Printing

PrintDocument

PrinterSettings

System.Media

SoundPlayer 3.0

System.Windows.Forms

Button 3.0

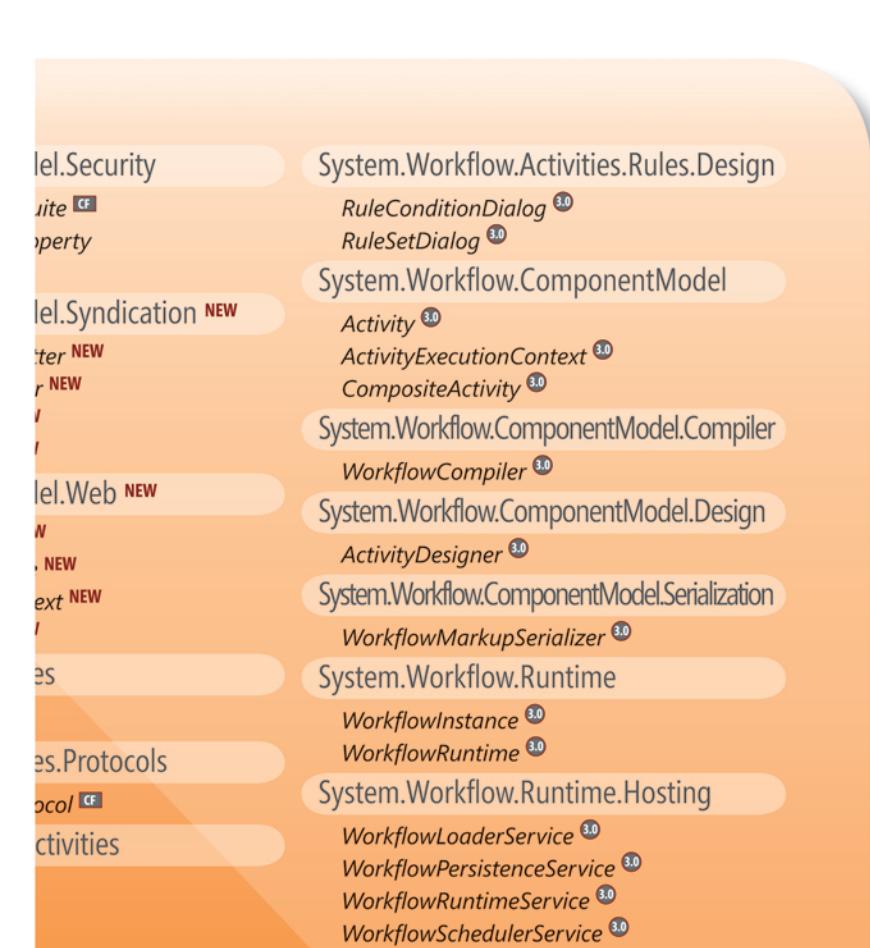
CheckBox 3.0

ComboBox 3.0

RichTextBox 3.0

TabControl 3.0

TextBox 3.0



DATA, XML, and LINQ



System.Workflow.Runtime.Tracking

TrackingService 3.0

flowActivity 3.0

ctivities.Rules

OdbcCommand

OdbcConnection

OdbcDataAdapter

OdbcDataReader

System.Data.OleDb

OleDbCommand

OleDbConnection

OleDbDataAdapter

OleDbDataReader

XNamespace NEW [CF](#)

XNode NEW [CF](#)

XText NEW [CF](#)

System.Xml.Schema

XmlSchema [CF](#)

XmlSchemaSet [CF](#)

XmlSchemaValidator [CF](#)

.Eventing NEW

System.EnterpriseServices

ServicedComponent

System.Globalization

Calendar [CF](#) [SL](#)

CultureInfo [CF](#) [SL](#)

RegionInfo [CF](#)

TextInfo [CF](#) [SL](#)

System.IdentityModel.Claims

Claim 3.0

ClaimSet 3.0

System.IO

Directory [CF](#) [SL](#)

File [CF](#) [SL](#)

FileStream [CF](#) [SL](#)

Path [CF](#) [SL](#)

Stream [CF](#) [SL](#)

StreamReader [CF](#) [SL](#)

StreamWriter [CF](#) [SL](#)

System.IO.Compression

GZipStream [CF](#)

System.IO.IsolatedStorage

IsolatedStorage

System.IO.Pipes NEW

AnonymousPipeClientStream NEW

AnonymousPipeServerStream NEW

NamedPipeClientStream NEW

NamedPipeServerStream NEW

PipeSecurity NEW

PipeStream NEW

System.IO.Ports

SerialPort [CF](#)

System.Linq NEW

IQueryable<T> NEW [SL](#)

Queryable NEW [SL](#)

System.Linq.Expressions NEW

Expression<T> NEW [SL](#)

Expression NEW [SL](#)

System.Reflection

Assembly [CF](#) [SL](#)

MethodInfo [CF](#) [SL](#)

MemberInfo [CF](#) [SL](#)

MethodInfo [CF](#) [SL](#)

PropertyInfo [CF](#) [SL](#)

System.Reflection.Emit

AssemblyBuilder [SL](#)

MethodBuilder [SL](#)

TypeBuilder [SL](#)

System.Resources

ResourceManager [CF](#) [SL](#)

System.Runtime.Serialization

DataContractAttribute

DataContractSerializer

DataMemberAttribute

ISerializable

XmlDictionaryReader

XmlDictionaryWriter

System.Runtime.Serial

DataContractJsonSerial

JsonReaderWriterFacto

System.Security

SecureString

SecurityManager [SL](#)

System.Security.Access

AccessRule

FileSecurity

ObjectSecurity

System.Security.Crypto

ECDsaCng NEW

SHA1 [CF](#)

TripleDES [CF](#)

System.Security.Cryptogra

X509Store [CF](#)

Microsoft® .NET Framework 3.5

ASP.NET

System.Web

HttpApplication
HttpCookie
HttpRequest
HttpResponse
HttpRuntime
HttpServerUtility

System.Web.ApplicationServices NEW

AuthenticationService NEW
ProfileService NEW
RoleService NEW

System.Web.Caching

Cache

System.Web.ClientServices NEW

ClientFormsIdentity NEW
ClientRolePrincipal NEW
ConnectivityStatus NEW

System.Web.Hosting

ApplicationManager

System.Web.Management

WebBaseEvent

System.Web.Security

FormsAuthentication

FormsIdentity

Membership

Roles

System.Web.SessionState

HttpSessionState

System.Web.UI

Control

MasterPage

Page

ScriptManager NEW

System.Web.UI.WebControls NEW

Content
DetailsView
FormView
GridView
LinqDataSource NEW
ListView NEW

Login
Menu
ObjectDataSource
TreeView
Wizard

System.Web.UI.WebControls.WebParts

WebPart

ConnectivityStatus ----

System.Web.ClientServices.Providers **NEW**
ClientFormsAuthenticationMembershipProvider **NEW**
ClientRoleProvider **NEW**
System.Web.Compilation
BuildProvider
System.Web.Configuration
WebConfigurationManager

UpdatePanel **NEW**

UpdateProgress **NEW**

UserControl

System.Web.UI.HtmlControls

HtmlButton

HtmlControl

HtmlForm

HtmlInputControl

System.Xml.Serialization

XmlSerializer 

System.Xml.XPath

XPathDocument

XPathExpression

XPathNavigator

System.Xml.Xsl

XslCompiledTransform

XsltArgumentList

What is the .NET Framework?

The .NET Framework is the managed code programming model for Windows. It provides a highly productive environment for software developers and offers excellent skills reuse across multiple application architectures. The .NET Framework is available with the same consistent API across different development platforms, including the full .NET Framework for the desktop and server, the .NET Compact Framework for mobile devices, the .NET Framework on SQL Server, the .NET Micro Framework for small embedded systems such as SPOT watches, and Silverlight version 1.1 for cross-platform, cross-browser development of rich Internet applications. The .NET Framework is used by 90% of Fortune 100 companies and is easily deployable to end user PCs.

Kev

- NEW** New with the .NET Framework 3.5.
- 3.0** New with the .NET Framework 3.0.
- CF** Also available in the .NET Compact Framework 3.5.
- SL** Planned for implementation in Silverlight 1.1.
(Subject to change.)

ization.Json **NEW**

izer **NEW**

ry **NEW**

System.Security.Principal
WindowsIdentity

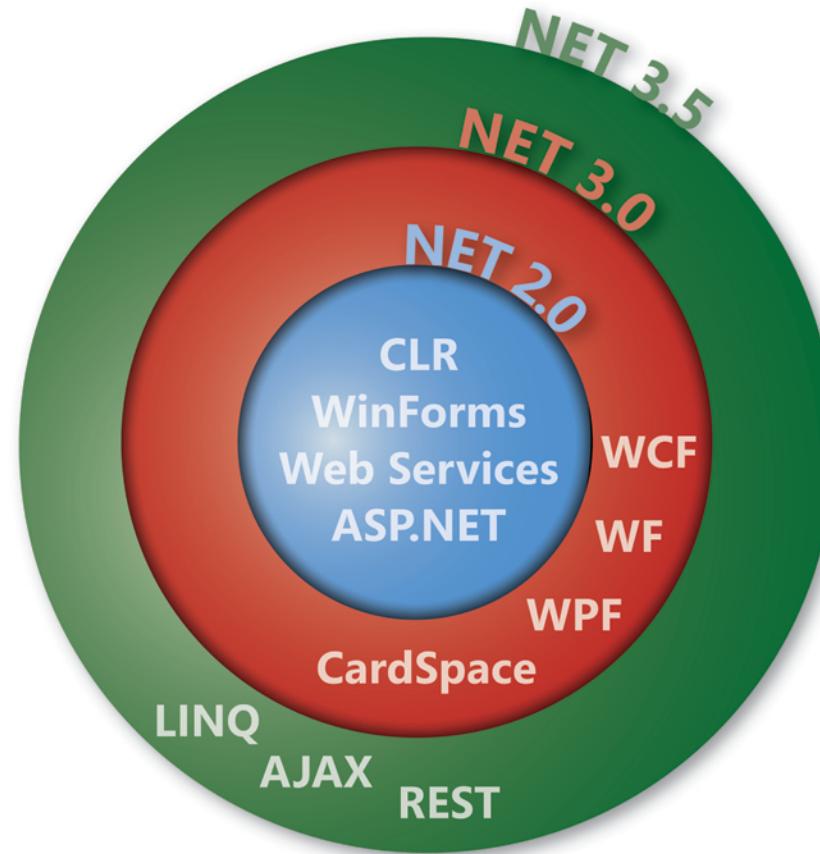
System.ServiceProcess
ServiceBase

System.Text
Encoding **CF SL**
StringBuilder **CF SL**

System.Text.RegularExpressions
Regex **CF SL**

System.Threading
ReaderWriterLockSlim **NEW**
Semaphore
Thread **CF SL**
WaitHandle **CF SL**

System.Transactions
Transaction



Additive versions of the .NET Framework

Microsoft®