.NET Framework 4 and Extensions

Microsoft

The .NET Framework 4 provides the classes developers need to create managed code applications for devices, windows, the Web, and servers and services. The .NET Framework provides a consistent API across different deployment platforms including servers, desktop applications, and mobile devices. With Microsoft Silverlight™, .NET developers can write rich applications that run across platforms and browsers. The .NET Framework is available as a Client Profile download that provides the functionality for most desktop applications with a download size that is 50 to 80 percent of the size of the complete Framework download.

Web

Ajax — AJAX
Sys.Binding	NEW
Sys.Observer	NEW
Sys.UI.DataView	NEW
Sys.UI.Template	NEW

System.Web.DynamicData
DynamicControl	Updated
DynamicDataManager	Updated
DynamicField	Updated

System.Web.Mvc — MVC
ActionResult	NEW
Controller	NEW
IViewEngine	NEW
ViewPage	NEW

System.Web.Routing
Route	Updated
RouteTable	Updated

System.Web.UI
CompositeScriptReference	Updated

System.Web.UI.DataVisualization.Charting
Annotation	NEW
Axis	NEW
Chart	NEW
ChartArea	NEW
DataPoint	NEW
Legend	NEW
Series	NEW

System.Web.UI.WebControls
EntityDataSource	Updated

Client

System.Windows
	SL	CP	
VisualState	SL	CP	NEW
VisualStateGroup	SL	CP	NEW
VisualStateManager	SL	CP	NEW

System.Windows.Controls
	SL	CP	
Calendar	SL	CP	NEW
DataGrid	SL	CP	NEW
DatePicker	SL	CP	NEW
WebBrowser		CP	Updated

System.Windows.Input
	SL		
TouchPoint	SL		NEW
TouchPointCollection	SL		NEW
TouchDevice	SL		NEW

System.Windows.Interop
	CP	
ActiveXHost	CP	Updated
D3dImage	CP	Updated

System.Windows.Media.Effects
	SL	CP	
Effect	SL	CP	Updated
PixelShader	SL	CP	Updated
ShaderEffect	SL	CP	Updated

Core

Fundamentals

System.Collections.Generic
SortedSet	SL	CP	NEW

System.IO.MemoryMappedFiles

System.Numerics
		CP	
BigInteger		CP	NEW
Complex		CP	NEW

System.Runtime.InteropServices
	CP	
TypeIdentifierAttribute	CP	NEW

Parallel Processing

System.Collections.Concurrent

System.Linq
	CP	
ParallelEnumerable	CP	NEW

System.Threading
	CP	
LazyInitializer	CP	NEW
SpinLock	CP	NEW

System.Threading.Tasks
Parallel		NEW

Xaml

System.Xaml
	CP	
XamlReader	CP	NEW
XamlWriter	CP	NEW
XamlType	CP	NEW

Managed Extensibility Framework

System.ComponentModel.Composition
	SL	CP	
ExportAttribute	SL	CP	NEW
ImportAttribute	SL	CP	NEW
CreationPolicy	SL	CP	

System.ComponentModel.Composition.Hosting
	SL	CP	
CompositionContainer	SL	CP	NEW

System.ComponentModel.Composition.Primitives
	SL	CP	
ComposablePart	SL	CP	NEW
Export	SL	CP	NEW

System.ComponentModel.DataAnnotations
	SL	
DataTypeAttribute	SL	Updated
RangeAttribute	SL	Updated
RegularExpressionAttribute	SL	Updated
RequiredAttribute	SL	Updated
UIHintAttribute	SL	Updated
ValidationAttribute	SL	Updated

Data

System.Data
	CP	
EntityKey	CP	Updated
IExtendedDataRecord	CP	Updated

System.Data.Common.CommandTrees
	CP	
DbCommandTree	CP	Updated
DbExpression	CP	Updated
DbQueryCommandTree	CP	Updated

System.Data.Common.CommandTrees.ExpressionBuilder
	CP	
DbExpressionBuilder	CP	Updated

System.Data.EntityClient
	CP	
EntityCommand	CP	Updated
EntityConnection	CP	Updated
EntityDataReader	CP	Updated
EntityTransaction	CP	Updated

System.Data.Metadata.Edm
	CP	
ComplexType	CP	Updated
EdmType	CP	Updated
EntityType	CP	Updated
RelationshipType	CP	Updated

System.Data.Objects
	CP	
CompiledQuery	CP	Updated
ObjectContext	CP	Updated
ObjectParameter	CP	Updated
ObjectQuery	CP	Updated
ObjectStateManager	CP	Updated

Workflow

System.Activities
	CP	
Activity	CP	NEW
Argument	CP	NEW
Variable	CP	NEW
WorkflowApplication	CP	NEW
WorkflowInvoker	CP	NEW

System.Activities.DurableInstancing
	CP	
SqlWorkflowInstanceStore	CP	NEW

System.Activities.Persistence
	CP	
PersistenceParticipant	CP	NEW

System.Activities.Presentation
	CP	
ActivityDesigner	CP	NEW
EditingContext	CP	NEW
IActivityTemplateFactory	CP	NEW
WorkflowDesigner	CP	NEW
WorkflowItemPresenter	CP	NEW
WorkflowItemsPresenter	CP	NEW
WorkflowViewElement	CP	NEW

System.Activities.Presentation.Metadata
	CP	
IRegisterMetadata	CP	NEW
MetadataStore	CP	NEW

System.Activities.Presentation.Model
	CP	
ModelItem	CP	NEW
ModelProperty	CP	NEW
ModelTreeManager	CP	NEW

System.Activities.Presentation.Services
	CP	
ModelService	CP	NEW
ViewService	CP	NEW

System.Activities.Presentation.View
	CP	
ExpressionTextBox	CP	NEW
WorkflowViewStateService	CP	NEW

System.Activities.Statements
	CP	
Flowchart	CP	NEW
If	CP	NEW
Parallel	CP	NEW
Sequence	CP	NEW
While	CP	NEW

System.Activities.Tracking
	CP	
EtwTrackingParticipant	CP	NEW
TrackingProfile	CP	NEW

Identity

Microsoft .NET | Windows Identity Foundation

Microsoft.IdentityModel.Claims
ClaimsPrincipal/IClaimsPrincipal		NEW
ClaimsIdentity/IClaimsIdentity		NEW
Claim		NEW

Microsoft.IdentityModel.Protocols.WSFederation
WSFederationSerializer		NEW
WSFederationMessage		NEW

Microsoft.IdentityModel.Protocols.WSFederation.Metadata
MetadataSerializer		NEW

Microsoft.IdentityModel.Protocols.WSTrust
WSTrustChannel		NEW
WSTrustChannelFactory		NEW

Microsoft.IdentityModel.Protocols.WSTrust.Bindings
CertificateWSTrustBinding		NEW
IssuedTokenWSTrustBinding		NEW
KerberosWSTrustBinding		NEW

Microsoft.IdentityModel.SecurityToken Service
SecurityTokenService		NEW

Microsoft.IdentityModel.Tokens
IssuerNameRegistry		NEW
IssuerTokenResolver		NEW
Saml11SecurityTokenHandler		NEW
Saml2SecurityTokenHandler		NEW

Microsoft.IdentityModel.Web
WSFederationAuthenticationModule		NEW
SessionAuthenticationModule		NEW
ClaimsAuthorizationModule		NEW

Microsoft.IdentityModel.Web.Controls
FederatedPassiveSignIn		NEW
FederatedPassiveSignInStatus		NEW

Communications

System.ServiceModel
	CP	
CorrelationQuery	CP	Updated
MessageQuerySet	CP	Updated

System.ServiceModel.Activities
	CP	
CorrelationScope	CP	NEW
Receive / ReceiveReply	CP	NEW
Send / SendReply	CP	NEW
WorkflowControlEndpoint	CP	NEW
WorkflowServiceHost	CP	NEW
WorkflowService	CP	NEW

System.ServiceModel.Activities.Description
	CP	
SqlWorkflowInstanceStoreBehavior	CP	NEW
WorkflowIdleBehavior	CP	NEW
WorkflowUnhandledExceptionBehavior		
BufferedReceiveServiceBehavior	CP	NEW

System.ServiceModel.DomainService
	CP	
DomainService	CP	NEW
LinqToEntitiesDomainService	CP	NEW
LinqToSqlDomainService	CP	NEW

System.ServiceModel.Discovery
	CP	
AnnouncementClient	CP	NEW
AnnouncementService	CP	NEW
DiscoveryClient	CP	NEW
ServiceDiscoveryBehavior	CP	NEW

System.ServiceModel.Routing
	CP	
RoutingService	CP	NEW
RoutingBehavior	CP	NEW
RoutingConfiguration	CP	NEW

System.ServiceModel.Channels
	CP	
ByteStreamMessageEncodingBindingElement	CP	Updated

System.ServiceModel.Web
AspNetCacheProfileAttribute		NEW
WebHttpEndpoint		NEW
WebFaultException		NEW

System.Data.Services
DataService		Updated
DataServiceConfiguration		NEW
DataServiceOperationContext		NEW
DataServiceException		Updated
IDataServiceHost2		NEW
QueryInterceptorAttribute		

System.Data.Services.Common
	CP	
DataServiceEntityAttribute	CP	NEW
EntityPropertyMappingAttribute	CP	NEW
HasStreamAttribute	CP	NEW

System.Data.Services.Client
	SL	CP	
DataServiceContext	SL	CP	NEW
DataServiceCollection	SL	CP	NEW
DataServiceQuery	SL	CP	NEW
DataServiceRequest	SL	CP	NEW
DataServiceResponse	SL	CP	NEW
DataServiceStreamResponse	SL	CP	NEW

System.Data.Services.Provider
IDataServiceMetadataProvider		NEW
IDataServiceQueryProvider		NEW
IDataServiceUpdateProvider		NEW
IDataServiceStreamProvider		NEW

SL	Silverlight
CP	Client Profile

Microsoft .NET

For more information on .NET Framework 4, please visit the .NET Framework Developer Center at http://msdn.microsoft.com/netframework.

Part Number: 098-115910