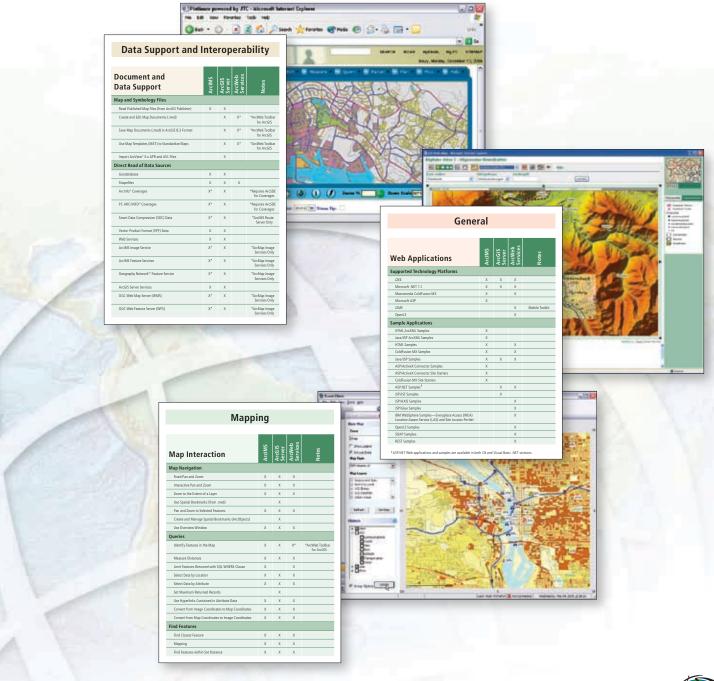
ESRI Server Products

Functionality Matrix







ESRI Server Products Functionality Matrix

This functionality matrix is intended to offer a complete view of the functionality available in ESRI® server products. The matrix covers functionality for ArcGIS® 9.1 Server, ArcIMS® 9.1, and ArcWeb™ Services 2006. An "X" in a cell means that a specific functionality is either included in the core product or is available to developers directly through an ESRI application programming interface (API). This matrix is based strictly on postpublishing functionality. This is as opposed to prepublishing functionality that can be accessed via the ArcGIS Desktop ArcMap™ application, ArcIMS Author, map configuration files, or the ArcWeb Services data upload utility.

Because of the wide array of ESRI-supported Internet development environments and Internet technology, there may be ways to implement postpublishing functionality that are not listed here. This matrix is specific only to ESRI Internet geographic information system (GIS) APIs. All functionality listed is available directly through an ESRI-provided interface such as ArcXML™, ArcObjects™, the .NET ADF™, the Java™ ADF, or the ArcWeb Services API. Notes and footnotes are provided where appropriate for clarification.

General

Web Applications	ArcIMS	ArcGIS Server	ArcWeb Services	Notes
Supported Technology Platforms				
J2EE™	Х	Х	Х	
Microsoft® .NET 1.1	Х	Х	Х	
Macromedia® ColdFusion™ MX	Х		Х	
Microsoft ASP	Х			
J2ME™			Х	Mobile Toolkit
OpenLS			Х	
Sample Applications				
HTML ArcXML Samples	Х			
Java/JSP ArcXML Samples	Х			
HTML Samples	Х		Χ	
ColdFusion MX Samples	Х		Х	
Java/JSP Samples	Х	Χ	Х	
ASP/ActiveX® Connector Samples	Х			
ASP/ActiveX Connector Site Starters	Х			
ColdFusion MX Site Starters	Х			
ASP.NET Samples ¹		Х	Х	
JSP/JSF Samples		Χ		
JSP/AXIS™ Samples			Х	
JSP/Glue™ Samples			Х	
IBM WebSphere® Samples—Everyplace® Access (WEA) Location Aware Service (LAS) and Site Locator Portlet			Х	
OpenLS Samples			Х	
SOAP Samples			Х	
REST Samples			Х	

¹ ASP.NET Web applications and samples are available in both C# and Visual Basic .NET versions.

Web Services	ArcIMS	ArcGIS Server	ArcWeb Services	Notes
Application Web Services				
SOAP		Х	Х	
Develop Custom J2EE Web Services		Х		
Develop Custom .NET Web Services		Х		
Direct Support of WSDL		Х	Χ	
Direct Support of UDDI		Х	Х	
ESRI System Web Services				
SOAP Access		Х	Х	
REST Access			Х	
OpenLS Access			Χ	
J2ME Access			Χ	Mobile Toolkit
Utility to Discover Available Web Services		Χ	Х	
ArcXMI Web Services	X		X*	*ArcWeb Toolbar

Mobile	ArcIMS	ArcGIS Server	ArcWeb Services	Notes
Cellular Phone				
J2ME Support			Х	
Locate Registered Sprint Phones (United States)			Х	
Locate Registered Bell Mobility Phones (Canada)			Х	
Send SMS Messages to Sprint Phones			Х	
Get Sprint Device Status (On/Off)			Х	
Find Where Device Stopped along Path			Х	
Get Angle, Distance, and Speed along Path			Х	
WML Support	Х			

Mapping

Map Interaction	ArcIMS	ArcGIS Server	ArcWeb Services	Notes
Map Navigation				
Fixed Pan and Zoom	Х	Х	Х	
Interactive Pan and Zoom	Χ	Х	Х	
Zoom to the Extent of a Layer	Х	Х	Х	
Use Spatial Bookmarks (from .mxd)		Х		
Pan and Zoom to Selected Features	Х	Х	Х	
Create and Manage Spatial Bookmarks (ArcObjects)		Х		
Use Overview Window	Х	Х	Х	
Queries				
Identify Features in the Map	Х	Х	Х*	*ArcWeb Toolbar for ArcGIS
Measure Distances	Х	Х	Х	
Limit Features Returned with SQL WHERE Clause	Х		Х	
Select Data by Location	Х	Х	Х	
Select Data by Attribute	Х	Х	Х	
Set Maximum Returned Records		Х		
Use Hyperlinks Contained in Attribute Data	Х	Х	Х	
Convert from Image Coordinates to Map Coordinates	Х	Х	Х	
Convert from Map Coordinates to Image Coordinates	Х	Х	Х	
Find Features				
Find Closest Feature	Х	Х	Х	
Mapping	Х	Х	Х	
Find Features within Set Distance	Х	Х	Х	
Find Features by Attribute Value	Х	Х	Х	
Find Feature by Point	Х	Х	Х	
Find Feature by Line	Х	Х	Х	
Find Feature by Polygon	Х	Х	Х	
Find Drive-Time Polygons		Χ*	Х	*Network Extension
Find Drive Distance Polygons		Χ*	Х	*Network Extension

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Map Display	ArcIMS	ArcGIS Server	ArcWeb Services	Notes
General Mapping				
Visualize the Map Page or a Specific Set of Data	Х	Х	Х	
Perform On-the-Fly Projection of All Data	Х	X	Х	
Enable Full Cartographic Visualization of Any PMF File		X		
Interactively Set Percent Transparency for All Data Layers		Х		
Set a Minimum and Maximum Scale to Display Data	Х	Х	Х	
Clip the Map Display to a Feature or Graphic	Х	Х		
Create Graticules, Measured Grids, and Reference Grids Create Layout Extent Rectangles for Other Data (Reference and Overview Maps)		X		
Display Layout Extent Rectangles for Other Data		Х		
Create Variable Depth Layer Masking		Х		
Display Variable Depth Layer Masking				
Add Layers on the Fly	Χ*	Х	Х	*Image
Change Rendering of Layers on the Fly	X*	Х	X†	*Image Services Only †Acetate
Change Bandaring of Layers Bermananthy	X*	X	X	Layer Only
Change Rendering of Layers Permanently	X "	^	^	*Image Services Only
Change Layer Draw Order	Х*	Х	Х	*Image Services Only
Tabular Data				
Create On-the-Fly Dynamic Joins between Different Databases	Χ	Х		
Create and Use Many-to-One and One-to-Many	X	Х		
Relationships				
Create Statistics		Х		
Summarize Data		Х		
Create Charts and Detailed Reports†	Х	Х		†Reporting May Require Additional Third- Party License
Get PDF Demographics Reports			Х	
Get Excel Demographics Reports			Х	
Get XML Demographics Reports			Х	
Sort by Multiple Attributes	X	X	X	
Connect to and Use Remote Database Tables Display on a Map Tabular X,Y Point Data from a File	X	X	X	
or Table	^	^	^	
Query Layers Added on the Fly	Х	Х		
Fuse Multiple Maps Together			Х	
Vector Data Display				
Control Selection Color for Each Dataset	X	Х	Х	
Create MapTips	Χ*			*Java Viewers
Fix Symbology to a Specific Map Scale	X	X	X	
Interactively Exclude Specific Features from the Display Control Which Features to Display Using a SQL Query	X X*	X	X	ArcXML Image Services Only
Control Which Data Fields Are Accessible from the Map Choose Style Sheet (Change All Rendering with a Single	Х	Х	X	
Setting on the Fly)				
Thematic Vector Data Classification				
Single Symbol	Х	Х	Х	
Unique Value	Х	X	X	
Match to Predefined Style Graduated Colors or Symbols		X	X	
Proportional Symbols		X	Λ	
Dot-Density Mapping		X		
Chart Mapping Including Pie and Bar Chart		Х		
Bivariate and Multivariate Data Rendering		Х		
Interactive Histogram for Data Classification		Х		
Symbology				
Use Interactive Symbol Composer	Х	Х	Х	
Exercise Control over Draw Order	Х	Х	Х	
Access Predefined Symbols	Х	Х	Х	
Access Predefined Symbols from ArcGIS	Χ*	Х		*ArcMap Image Services
Use Custom Predefined Symbols	Х	Х	Х	
Use Halos and Advanced Background Symbols	Х	Х		
Define Symbols for Fill, Lines, Outlines, and Points	X	X	Х	
Support User-Imported Graphic Fill Patterns Support Custom TTF Markers	X	X		
Support Custom JPG, Portable Network Graphics, and		Α	Х	
Graphic Interchange Format Markers				
Surface Display		V*		*2D Evt'
Faces, Nodes, and Triangles Slope		X* X*		*3D Extension *3D Extension
Hillshade		X*	X	*3D Extension
Aspect		X*	^	*3D Extension
Elevation		X*	Х	*3D Extension
Modifying the Sun Position to Customize the Surface Display		X*		*3D Extension
Map Printing	ArcIMS	ArcGIS Server	ArcWeb ervices	Votes
Map Elements	4	4.00	A Q	
Title	Х	Х	X*	*ArcWeb Toolbar
				for ArcGIS
Text	Χ	X	X	

Map Printing	ArcIMS	ArcGIS Server	ArcWeb Services	Notes
Map Elements				
Title	Х	Х	X*	*ArcWeb Toolbar for ArcGIS
Text	Х	Х	Х	
Neatlines	Х	Х	Х*	*ArcWeb Toolbar for ArcGIS
Legend	Х	Х	Х	
North Arrows	Х	Х	Х*	*ArcWeb Toolbar for ArcGIS and REST API
Scale Bar	Х	Х	Х	
Scale Text	Х	Х	Х	
Pictures	Х	Х	Х	
OLE Objects	Х	Х	Х*	*ArcWeb Toolbar for ArcGIS
Measured Reference Grid		Х		
Graticules		Х		
Map Export Formats				
Enhanced Metafile (EMF)	Х	Х	Х*	*ArcWeb Toolbar for ArcGIS
Windows Bitmap (BMP)	Х	Х	Х*	*ArcWeb Toolbar for ArcGIS
Encapsulated PostScript (EPS)	Х	Х	Х*	*ArcWeb Toolbar for ArcGIS
Tagged Image File Format (TIFF)	Х	Х	Х*	*ArcWeb Toolbar for ArcGIS
Portable Document Format (PDF)	Х	Х	Х*	*ArcWeb Toolbar for ArcGIS
Joint Photographics Experts Group (JPEG)	Х	Х	Х	
Portable Network Graphics	Х	Х	Х	
Graphic Interchange Format	Х	Χ	Х	
Scalable Vector Graphics (SVG)	Х	Х	Х	
Adobe® Illustrator® (AI)	Х	Х	Х*	*ArcWeb Toolbar for ArcGIS
PostScript [™] Color Separates (with Page Marks)	Х	Х	Х*	*ArcWeb Toolbar for ArcGIS
Flash (SWF)			Х	
Delivery Methods				
URL to File Location on the Server	Х	Х	Х	
Stream Image	Χ*		Χ†	*Image Server Only †REST API Only
Stream MIME Data Directly to Client	Х*	Х		*Java Implementa- tion Only
Stream Vector Data Directly to Client			Х	REST API Only
Print with the Following Print Drivers				
Windows®	Х	Х	Х*	*ArcWeb Toolbar for ArcGIS
PostScript		Х		
ArcPress™ HP RTL (RGB, CMYK, and Monochrome)		Х		
ArcPress HP PCL (RGB, CMYK, and Monochrome)		Х		
Process Brint John on a Conver for Easter Brinting		V		

Process Print Jobs on a Server for Faster Printing X

Page Layout Printing	ArcIMS	ArcGIS Server	ArcWeb Services	Notes
Nap Elements Title	Х*	X	Χ†	*ArcMap Image
				Services †ArcWeb Toolba for ArcGIS
Text	Х*	Х	Х	*ArcMap Image Services
Neatlines	Х*	Х	Χ†	*ArcMap Imag Services †ArcWeb Toolb for ArcGIS
Legend	X*	Х	Х	*ArcMap Imag Services
North Arrows	Х*	Х	X†	*ArcMap Image Services †ArcWeb Toolba for ArcGIS and
Scale Bar	X*	Х	Х	*ArcMap Imag
Scale Text	X*	Х	Х	*ArcMap Imag
Pictures	Χ*	Х	Χ†	*ArcMap Image Services
OLE Objects	X*	X	X†	*ArcMap Image Services
Measured Reference Grid	X*	Х		for ArcGIS *ArcMap Image
Graticules	Х*	Х		*ArcMap Imag
ayout Export Formats				Services
Enhanced Metafile	Х*	Х	Χ†	*ArcMap Image Service Layout: † ArcWeb Toolb for ArcGIS
Windows Bitmap	X*	Х	Χ†	*ArcMap Image Service Images a
				t ArcWeb Toolb for ArcGIS
Encapsulated PostScript	Х*	X	X†	*ArcMap Imago Service Layout: † ArcWeb Toolb for ArcGIS
Tagged Image File Format	Х*	Х	Χ†	*ArcMap Image Service Images a Layouts † ArcWeb Toolb for ArcGIS
Portable Document Format	Х*	Х	Χ†	*ArcMap Imag Service Layout † ArcWeb Toolb for ArcGIS
Joint Photographics Experts Group	Х	Х	Χ†	† ArcWeb Toolb
Portable Network Graphics	Х	Х	X†	† ArcWeb Toolb
Graphic Interchange Format	Х	Х	Χ†	† ArcWeb Toolb
Scalable Vector Graphics	Х*	Х	Χ†	* ArcMap Imag Service Layout: † ArcWeb Toolb for ArcGIS
Adobe Illustrator	Χ*	Х	Χ†	* ArcMap Imag Service Layout: † ArcWeb Toolb
PostScript Color Separates (with Page Marks)	Х*	Х	Χ†	*ArcMap Imag Service Layout † ArcWeb Toolb
Delivery Methods				for ArcGIS
URL to File Location on the Server Stream Image	X X*	Х	Х	*Image Server Or
Stream MIME Data Directly to Client	X*	Х		*Java Implement
rint with the Following Print Drivers				
Windows PostScript	Х	X	Х	
ArcPress HP RTL (RGB, CMYK, and Monochrome)			Х	ArcWeb Toolbar
ArcPress HP PCL (RGB, CMYK, and Monochrome)			Х	ArcWeb Toolbar t ArcGIS
Process Print Jobs on a Server for Faster Printing		Х		
	10		b es	
Map Text	ArcIMS	ArcGIS Server	ArcWeb Services	Notes
abels Creating Dynamic On-the-Fly Labels	X	X	Х	
Automatic Conflict Detection and Label Placement	X*	Х	X*	*Not for On-the- Labels
Label Placement Rules for Setting Priority between Layers	Х	Х	Χ*	*Limited Contro
Placement Rules for Setting Importance of Labels vs. Features	Х	Х		
Many Predefined Label Styles (e.g., Highway Shields) Labels Rotate from an Attribute Field Multiple Description for Schemes Poils for Early	X	X	X	
Multiple Dynamic Labeling Schemes Built for Each Map Layer Control Which Features in a Layer Display Labels	X	X	X*	*Limited Contro
Advanced Text Formatting for Dynamic Label Symbology	X	X		ca conti
Annotation				
Use Geodatabase Annotation	Х*	X		* ArcMap Imag Services
Her Fredrick College College	Х*	X		* ArcMap Imag Services
Use SDE* Annotation Use SDE* Annotation Use Interactive Label Tools (Callout Label Spline and		Α		
		X		
Use SDE" Annotation Use Interactive Label Tools (Callout, Label, Spline, and Paragraph Text) Create Text Annotation Data from Labels		Х		
Use SDE® Annotation Use Interactive Label Tools (Callout, Label, Spline, and Paragraph Text) Create Text Annotation Data from Labels				
Use SDE® Annotation Use Interactive Label Tools (Callout, Label, Spline, and Paragraph Text) Create Text Annotation Data from Labels Annotation Editing Interactively Move, Rotate, and Scale Annotation Add Horizontal or Angled Annotation Add Annotation with a Leader Line		X X X		
Use SDE® Annotation Use Interactive Label Tools (Callout, Label, Spline, and Paragraph Text) Create Text Annotation Data from Labels Annotation Editing Interactively Move, Rotate, and Scale Annotation Add Horizontal or Angled Annotation		X X X		
Use SDE® Annotation Use Interactive Label Tools (Callout, Label, Spline, and Paragraph Text) Create Text Annotation Data from Labels Annotation Editing Interactively Move, Rotate, and Scale Annotation Add Horizontal or Angled Annotation Add Annotation with a Leader Line Create Annotation That Follows a Curved Line or the Shape of an Existing Feature Dynamically Pull Annotation Values from Layers in		X X X X		
Use SDE® Annotation Use Interactive Label Tools (Callout, Label, Spline, and Paragraph Text) Create Text Annotation Data from Labels Annotation Editing Interactively Move, Rotate, and Scale Annotation Add Horizontal or Angled Annotation Add Annotation with a Leader Line Create Annotation That Follows a Curved Line or the Shape of an Existing Feature Dynamically Pull Annotation Values from Layers in the Map Interactively Manage Annotation That Could Not Be		x x x x x		

Page Layout Printing	Arc	Arc	Arc	Not	Address Matching Geocoding Tools	Arc	Ard	Arc	Not
Map Elements Title	X*	Х	Χ†	*ArcMap Image Services	Single Address Geocoding	Х	Х	Х	
				†ArcWeb Toolbar for ArcGIS	Reverse Address Geocoding (Latitude-Longitude to Address or Intersection)		Х	Х	
Text	X*	Х	Х	*ArcMap Image Services	Batch Geocoding Upload DBF File for Batch Geocoding		Х	X	
Neatlines	X*	Х	X†	*ArcMap Image Services	Phone Number Geocoding (United States Listed Land Lines)			Х	
				†ArcWeb Toolbar for ArcGIS	IP Address Geocoding (Worldwide)			Х	
Legend	X*	Х	Х	*ArcMap Image Services	Tools for Processing Addresses That Could Not Be Found	Х	Х	Х	
North Arrows	X*	Х	X†	*ArcMap Image Services	Client/Server Geocoding Using Multiuser Geodatabase Multiple Geocoding Services (Indexes) per Data Source		X		
				†ArcWeb Toolbar for ArcGIS and	Aggregate Multiple Geocoding Services into a Single Geocoding Service (Composite Locator)		Х		
Scale Bar	X*	Х	Х	*ArcMap Image	Place-Name Lookup			Х	
Scale Text	X*	Х	Х	*ArcMap Image	Advanced Geocoding Tools Automate Geocoding Indexes		Х		
Pictures	X*	Х	X†	*ArcMap Image	Deautomate Geocoding Indexes		Х		
				Services †ArcWeb Toolbar	Rebuild Geocoding Indexes Standardize Addresses	Х	X	Х	
OLE Objects	X*	Х	Χ†	*ArcMap Image	CASS-Certified Standardized Addresses	X*†	X*	Х	*Doguiros
				Services †ArcWeb Toolbar	USA Locator for Nationwide Address Matching	X-1	Χ		*Requires StreetMap™ † ArcIMS Route
Measured Reference Grid	X*	Х		*ArcMap Image	USA Nationwide Address Matching			V	Server
Graticules	X*	Х		*ArcMap Image	USA Nationwide Address Matching Canada Nationwide Address Matching			X	
Layout Export Formats				Services	Europe Address Matching Australia Nationwide Address Matching			X	
Enhanced Metafile	Χ*	Х	X†	*ArcMap Image Service Layouts	New Zealand Nationwide Address Matching			Х	
				† ArcWeb Toolbar for ArcGIS	Data Management Create Dynamic Features from Geocoded Locations	X	Х	Х	
Windows Bitmap	X*	Х	X†	*ArcMap Image Service Images and	Persist Geocoded Locations as Permanent Dataset		Х	Х	
				t ArcWeb Toolbar					
Encapsulated PostScript	X*	Х	X†	for ArcGIS *ArcMap Image		MS	iis	Veb ices	S
				Service Layouts † ArcWeb Toolbar	Routing	ArcIM	ArcGIS Server	ArcWe Servic	Notes
Tagged Image File Format	X*	Х	X†	for ArcGIS *ArcMap Image	Routing	V*	V*	V	*Doguiros
				Service Images and Layouts	Nationwide USA Multipoint Street Routing	X*	X*	X	*Requires StreetMap
				† ArcWeb Toolbar for ArcGIS	North American (United States and Canada) Multipoint Street Routing	Х*	Χ†	Х	* ArcIMS Route Server
Portable Document Format	Χ*	Х	X†	*ArcMap Image Service Layouts	European Multipoint Street Routing	Х		Х	† Network Extensi
				† ArcWeb Toolbar for ArcGIS	Australian Multipoint Street Routing			Х	
Joint Photographics Experts Group	Х	Х	X†	† ArcWeb Toolbar for ArcGIS	Find Quickest Routes	Χ*	Χ†	Х	* ArcIMS Route Server
Portable Network Graphics	Х	Х	X†	† ArcWeb Toolbar for ArcGIS	Find Shortest Routes	X*	Χ†	Х	* ArcIMS Route
Graphic Interchange Format	Х	Х	X†	† ArcWeb Toolbar for ArcGIS					Server † Network Extensi
Scalable Vector Graphics	X*	Х	X†	* ArcMap Image Service Layouts	Optimize Ordering of Midpoints along Route	X*	Χ†	Х	* ArcIMS Route Server
				† ArcWeb Toolbar for ArcGIS					† Network Extensi
Adobe Illustrator	X*	Х	Χ†	* ArcMap Image Service Layouts	Avoid Traffic or Other Barriers	Χ*	Χ†	Х	* ArcIMS Route Server
				† ArcWeb Toolbar for ArcGIS	Get Driving Directions	X*	Χ†	Х	* ArcIMS Route
PostScript Color Separates (with Page Marks)	X*	Х	X†	*ArcMap Image Service Layouts					Server † Network Extensi
				† ArcWeb Toolbar for ArcGIS	Get Turn-by-Turn Maps	Χ*	Χ†	Х	* ArcIMS Route Server
Delivery Methods					Colort Desferance for Uning Highway	X*	Χ†	Х	† Network Extensi
URL to File Location on the Server Stream Image	X X*	Х	Х	*Image Server Only	Select Preference for Using Highway	^	Al	^	* ArcIMS Route Server † Network Extensi
Stream MIME Data Directly to Client	X*	Х		*Java Implementa- tion Only					T WEWORK EXCERSI
Print with the Following Print Drivers									
Windows PostScript	Х	X	Х		Data Support and	Inte	rop	era	bility
Windows	Х		X	ArcWeb Toolbar for ArcGIS	Data Support and	Inte	rop	era	bility
Windows PostScript	Х							c s	
Windows PostScript ArcPress HP RTL (RGB, CMYK, and Monochrome)	Х		Х	ArcGIS ArcWeb Toolbar for	Data Support and Raster Data Support	ArcIMS	ArcGIS Server	c s	bility Solution
Windows PostScript ArcPress HP RTL (RGB, CMYK, and Monochrome) ArcPress HP PCL (RGB, CMYK, and Monochrome)	X	X	Х	ArcGIS ArcWeb Toolbar for	Raster Data Support Direct Read of Raster Data	ArcIMS	ArcGIS Server	c s	
Windows PostScript ArcPress HP RTL (RGB, CMYK, and Monochrome) ArcPress HP PCL (RGB, CMYK, and Monochrome) Process Print Jobs on a Server for Faster Printing		X	X	ArcGIS ArcWeb Toolbar for ArcGIS	Raster Data Support			c s	
Windows PostScript ArcPress HP RTL (RGB, CMYK, and Monochrome) ArcPress HP PCL (RGB, CMYK, and Monochrome)	ArcIMS	X	Х	ArcGIS ArcWeb Toolbar for	Raster Data Support Direct Read of Raster Data ARC Digitized Raster Graphics (ADRG)	ArcIMS	x ArcGIS Server	c s	
Windows PostScript ArcPress HP RTL (RGB, CMYK, and Monochrome) ArcPress HP PCL (RGB, CMYK, and Monochrome) Process Print Jobs on a Server for Faster Printing Map Text Labels	ArcIMS	ArcGIS ×	ArcWeb x x	ArcGIS ArcWeb Toolbar for ArcGIS	Raster Data Support Direct Read of Raster Data ARC Digitized Raster Graphics (ADRG) ArcSDE® Rasters Band Interleaved by Line (ESRI BIL), Band Interleaved by	X	X ArcGIS Server	c s	
Windows PostScript ArcPress HP RTL (RGB, CMYK, and Monochrome) ArcPress HP PCL (RGB, CMYK, and Monochrome) Process Print Jobs on a Server for Faster Printing Map Text		X	X	ArcGIS ArcWeb Toolbar for ArcGIS *Not for On-the-Fly	Raster Data Support Direct Read of Raster Data ARC Digitized Raster Graphics (ADRG) ArcSDE® Rasters Band Interleaved by Line (ESRI BIL), Band Interleaved by Pixel (ESRI BIP), or Band Sequential (ESRI BSQ) BMP, Device Independent Bitmap (DIB) Format, or Microsoft Windows Bitmap Compressed ARC Digitized Raster Graphics (CADRG)	x x ArcIMS	X X X X Server	c s	
Windows PostScript ArcPress HP RTL (RGB, CMYK, and Monochrome) ArcPress HP PCL (RGB, CMYK, and Monochrome) Process Print Jobs on a Server for Faster Printing Map Text Labels Creating Dynamic On-the-Fly Labels Automatic Conflict Detection and Label Placement Label Placement Rules for Setting Priority between	x ArciMS	X ArcGIS X Server	X X Services	ArcGIS ArcWeb Toolbar for ArcGIS	Raster Data Support Direct Read of Raster Data ARC Digitized Raster Graphics (ADRG) ArcSDE® Rasters Band Interleaved by Line (ESRI BIL), Band Interleaved by Pixel (ESRI BIP), or Band Sequential (ESRI BSQ) BMP, Device Independent Bitmap (DIB) Format, or Microsoft Windows Bitmap Compressed ARC Digitized Raster Graphics (CADRG) Controlled Image Base (CIB) DIGEST, ASRP, Universal Polar Stereographic (UPS) or	x x ArcIMS	X X X Server	c s	
Windows PostScript ArcPress HP RTL (RGB, CMYK, and Monochrome) ArcPress HP PCL (RGB, CMYK, and Monochrome) Process Print Jobs on a Server for Faster Printing Map Text Labels Creating Dynamic On-the-Fly Labels Automatic Conflict Detection and Label Placement Label Placement Rules for Setting Priority between Layers Placement Rules for Setting Importance of Labels vs.	X X*	X ArcGIS X Server	x x x Services	ArcGIS ArcWeb Toolbar for ArcGIS *Not for On-the-Fly Labels	Raster Data Support Direct Read of Raster Data ARC Digitized Raster Graphics (ADRG) ArcSDE® Rasters Band Interleaved by Line (ESRI BIL), Band Interleaved by Pixel (ESRI BIP), or Band Sequential (ESRI BSQ) BMP, Device Independent Bitmap (DIB) Format, or Microsoft Windows Bitmap Compressed ARC Digitized Raster Graphics (CADRG) Controlled Image Base (CIB) DIGEST, ASRP, Universal Polar Stereographic (UPS) or Universal Transverse Mercator (UTM), Standard Raster Product (USRP)	x x x X	X X X X X X X X X X X X X X X X X X X	c s	
Windows PostScript ArcPress HP RTL (RGB, CMYK, and Monochrome) ArcPress HP PCL (RGB, CMYK, and Monochrome) Process Print Jobs on a Server for Faster Printing Map Text Labels Creating Dynamic On-the-Fly Labels Automatic Conflict Detection and Label Placement Label Placement Rules for Setting Priority between Layers	X X* ArcIMS	X X X X X X	x x x Services	ArcGIS ArcWeb Toolbar for ArcGIS *Not for On-the-Fly Labels	Raster Data Support Direct Read of Raster Data ARC Digitized Raster Graphics (ADRG) ArcSDE® Rasters Band Interleaved by Line (ESRI BIL), Band Interleaved by Pixel (ESRI BIP), or Band Sequential (ESRI BSQ) BMP, Device Independent Bitmap (DIB) Format, or Microsoft Windows Bitmap Compressed ARC Digitized Raster Graphics (CADRG) Controlled Image Base (CIB) DIGEST, ASRP, Universal Polar Stereographic (UPS) or Universal Transverse Mercator (UTM), Standard Raster Product (USRP) Digital Terrain Elevation Data (DTED) Levels 0, 1, and 2	x x x X	x x x x x x x x x x x x x x x x x x x	c s	
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PostScript ArcPress HP RTL (RGB, CMYK, and Monochrome) ArcPress HP PCL (RGB, CMYK, and Monochrome) Process Print Jobs on a Server for Faster Printing Map Text Labels Creating Dynamic On-the-Fly Labels Automatic Conflict Detection and Label Placement Label Placement Rules for Setting Priority between Layers Placement Rules for Setting Importance of Labels vs. Features Many Predefined Label Styles (e.g., Highway Shields) Labels Rotate from an Attribute Field Multiple Dynamic Labeling Schemes Built for Each Map Layer Control Which Features in a Layer Display Labels Advanced Text Formatting for Dynamic Label Symbology Annotation Use Geodatabase Annotation Use Feature-Linked Annotation Use Feature-Linked Annotation Use SDE* Annotation Use Interactive Label Tools (Callout, Label, Spline, and Paragraph Text) Create Text Annotation Data from Labels Annotation Editing Interactively Move, Rotate, and Scale Annotation Add Horizontal or Angled Annotation Add Horizontal or Angled Annotation Add Horizontal or Angled Annotation Edit Each Word in an Annotation That Could Not Be Placed during Initial Annotation Tratify Independently Filp Annotation Strings Interactively Monage Annotation Tratify Independently Filp Annotation Strings Interactively Modify the Curvature and Orientation of a Line Edit the Symbology of a Single Annotation Feature or a Group of Annotation Features Simultaneously Annotation and Dimension Management Store Annotation in a Geodatabase or a Map Document Create Annotation Finds Features Simultaneously Annotation and Dimension Management Store Annotation in a Geodatabase or a Map Document Create Aligned Dimensions Displaying the True Distance Detween Points Create Linear Dimensions Displaying Horizontal,	x x x x x x x x x x x x x x x x x x x	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	*Not for On-the-Fly Labels *Limited Control * ArcMap Image Services * ArcMap Image	Raster Data Support Direct Read of Raster Data ARC Digitized Raster Graphics (ADRG) ArcSDE* Rasters Band Interleaved by Line (ESRI BIL), Band Interleaved by Pixel (ESRI BIP), or Band Sequential (ESRI BSQ) BMP, Device Independent Bitmap (DIB) Format, or Microsoft Windows Bitmap Compressed ARC Digitized Raster Graphics (CADRG) Controlled Image Base (CIB) DIGEST, ASRP, Universal Polar Stereographic (UPS) or Universal Transverse Mercator (UTM), Standard Raster Product (USRP) Digital Terrain Elevation Data (DTED) Levels 0, 1, and 2 ER Mapper ERDAS* 7.5 GIS, 7.5 LAN, and RAW Graphic Interchange Format Intergraph Raster Files: CIT—Binary Data; COT—Grayscale Data Joint Photographics Experts Group, Joint File Interchange Format (IFIF) JPEG 2000 Multiresolution Seamless Image Database (MrSID Generations 2 and 3) National Imagery Transmission Format (NITF) Portable Network Graphics Direct Read and Write of Raster Data ERDAS IMAGINE* ESRI GRID and GRID Stack Tagged Image File Format (GeoTIFF tags are supported.) Map Display Display Multiband Images by Assigning RGB Values to the Bands Use Individual Band Settings Display Image Values Using a Color Map Display Image Values Using a Color Map Display Image Values Using a Color Map Display Raster Catalog Tiles as a Time Series Import Renderer or Statistics to an XML File Control Raster Display Contrast and Brightness Display Raster Catalog Tiles as a Time Series Import Renderer or Statistics from Another Layer Display: Gradual Color Ramp Data Stretching Algorithms Standard Deviations Histogram Equalize Minimum-Maximum	x x x x x x x x x x x x x x x x x x x	X X X X X X X X X X X X X X X X X X X	c s	Spatial Extension Spatial Extension Spatial Extension
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PostScript ArcPress HP RTL (RGB, CMYK, and Monochrome) ArcPress HP PCL (RGB, CMYK, and Monochrome) Process Print Jobs on a Server for Faster Printing Map Text Labels Creating Dynamic On-the-Fly Labels Automatic Conflict Detection and Label Placement Label Placement Rules for Setting Priority between Layers Placement Rules for Setting Importance of Labels vs. Features Many Predefined Label Styles (e.g., Highway Shields) Labels Rotate from an Attribute Field Multiple Dynamic Labeling Schemes Built for Each Map Layer Control Which Features in a Layer Display Labels Advanced Text Formatting for Dynamic Label Symbology Annotation Use Geodatabase Annotation Use Feature-Linked Annotation Use SDE* Annotation Use Interactive Label Tools (Callout, Label, Spline, and Paragraph Text) Create Text Annotation Data from Labels Annotation Editing Interactively Move, Rotate, and Scale Annotation Add Horizontal or Angled Annotation Add Annotation with a Leader Line Create Annotation That Follows a Curved Line or the Shape of an Existing Feature Dynamically Pull Annotation Values from Layers in the Map Dynamically Pull Annotation Creation Edit Each Word in an Annotation Trat Could Not Be Placed during Initial Annotation Trating Independently Flip Annotation Strings Interactively Modify the Curvature and Orientation of a Line Edit Each Word in an Annotation String Independently Flip Annotation Strings Interactively Modify the Curvature and Orientation of a Line Edit the Symbology of a Single Annotation Feature or a Group of Annotation and Dimensions Management Store Annotation and Dimension Management Store Annotation and Dimension Displaying the True Distance between Points Create Aligand Displaying Horizontal, Vertical, or an Angled Distance between Points Create and Edit Feature-Linked Annotation Feature	x x x x x x x x x x x x x x x x x x x	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	*Not for On-the-Fly Labels *Limited Control * ArcMap Image Services * ArcMap Image	Raster Data Support Direct Read of Raster Data ARC Digitized Raster Graphics (ADRG) ArcSDE* Rasters Band Interleaved by Line (ESRI BIL), Band Interleaved by Pixel (ESRI BIP), or Band Sequential (ESRI BSQ) BMP, Device Independent Bitmap (DIB) Format, or Microsoft Windows Bitmap Compressed ARC Digitized Raster Graphics (CADRG) Controlled Image Base (CIB) DIGEST, ASRP, Universal Polar Stereographic (UPS) or Universal Transverse Mercator (UTM), Standard Raster Product (USRP) Digital Terrain Elevation Data (DTED) Levels Q, 1, and 2 ER Mapper ERDAS* 7.5 GIS, 7.5 LAN, and RAW Graphic Interchange Format Intergraph Raster Files: CIT—Binary Data; COT—Grayscale Data Joint Photographics Experts Group, Joint File Interchange Format (IFIF) JPEG 2000 Multiresolution Seamless Image Database (MrSID Generations 2 and 3) National Imagery Transmission Format (NITF) Portable Network Graphics Direct Read and Write of Raster Data ERDAS IMAGINE* ESRI GRID and GRID Stack Tagged Image File Format (GeoTIFF tags are supported.) Map Display Display Multiband Images by Assigning RGB Values to the Bands Use Individual Band Settings Display Each Unique Value in Your Images with a Discrete Color Display Image Values Using a Color Map Display Image Values Using a Toolor Map Display Individual Raster Data Using RGB Values Save Current Display Statistics to an XML File Control Raster Display Statistics to an XML File Control Raster Display Contrast and Brightness Display Faster Catalog Tiles as a Time Series Import Renderer or Statistics from Another Layer Display Statistics Based on the Entire Raster Dataset Based on the Display Extent Based on the Display Extent	x x x x x x x x x x x x x x x x x x x	X X X X X X X X X X X X X X X X X X X	c s	Spatial Extension Spatial Extension Spatial Extension

quires etMap	Direct Read of Other Data			
S Route	ESRITIN			Х
	dBASE (DBF)		X	X
			X	٨
	Text (TXT)			
	ESRI INFO Files	\/÷	X	
	OLE DB Connections	Х*	Х	
	ODBC Connections		Х	
	Microsoft Access		X	
	MICrosoft Access		X	
	Data Auto	ma:	tion	
n	Data Auto	IIIa	LIUII	
on		<u>S</u>	S -	es es
	Data Editing ²	ArcIMS	ArcGIS Server	ArcWeb Services
	Data Laiting	Ā	Se A	Se A
on	General Editing			
	Simultaneously Edit Multiple Layers		Х	
n	Unlimited Undo/Redo Operations		Х	
//II	<u> </u>			
	Integrate with ArcPad® for Field Editing		X	
n	Make Measurements Using Any Units That You Choose		X	
	Optionally Scale Features When Individual Vertices Are Moved		Χ	
			X	
	Automatically Correct Ground Measures Appropriately in the GIS		٨	
	Snapping by Layer			
	Vertex		Х	
	Edge		X	
	Endpoint		Х	
	Snapping to New Geometry			
	Edges		Х	
	Vertices		Х	
	Perpendicular		Х	
	Snapping to Topology Nodes			
	Endpoint		Х	
	Vertex		Х	
	Midpoint		Х	
	Edge		Х	
	Snapping Tolerance			
	By Pixels		Х	
	By Map Units		X	
	Interactively		Х	
	Geometry Construction Option			
	Constrain the Next Segment by Direction		Х	
	Constrain the Next Segment with a Deflection Angle		Х	
	from Last Segment			
	Constrain the Next Segment by Length		Х	
	Specify an Exact X,Y Location		Х	Х
	Specify an X,Y Difference from the Last Vertex		Х	Х
	Constrain the Next Segment to Be Parallel to the Last		Х	
	Segment			
	Constrain the Next Segment to Be Perpendicular to the		Х	
	Last Segment			
	Constrain the Next Segment Based on an Angle from an Existing Feature Segment in the Map		Х	
	Create Geometry from Existing Features in the Map		Х	
	Create a Curve Tangent to the Last Segment		X	
	Finish a Polygon by Generating Perpendicular Segments from the First and Last Segment		Χ	
	Flip the Orientation of the Geometry		X	
			_	
	Trim Geometry to a Specific Length		Х	
	Geometry Creation Tools			
	Point-and-Click On-Screen Digitizing		Х	Х
	Stream Digitizing		Х	
	Add a Coordinate Based on an Angle from One Location		Х	
	and a Distance from Another			
	Add a Coordinate Based on the Implied Intersection of Two Segments		Х	
	Construct a True Curve		X	
	Construct a Tangent Curve		X	
	Add a Coordinate Based on a Distance from Two Known Locations		Х	
	Add a Coordinate at the Midpoint between Two Known		Х	
	Locations			
	Add Coordinates along Existing Coordinates		Х	
	Feature Manipulation Tasks			
	Create Features Using New Geometry		Х	
	Create New Polygons Using the Geometry of Existing		Х	
	Features (Autocomplete Polygons)		.,	
	Reshape Existing Features		Х	Х
	Cut Polygon Features		Х	
	Create Mirror Copies of Existing Features		X	
	· · · · · ·			
	Extend or Trim Existing Features		X	
	Add, Delete, Interactively Move, or Modify the Coordinate Values for Vertex Locations of Existing		Х	
ĺ	Features			
	Feature Editing Tools			
	Move, Rotate, Delete, Copy, and Paste		Х	
	Split a Line at a Distance or Percentage		X	
	Divide a Line Based on a Distance, a Number of Segments, or a Measure Value (M-Coordinate)		Х	
	Buffer Features		Х	
	Copy Lines Parallel to Their Existing Location		X	
	Merge Existing Features		X	
	Create New Features by Merging Features in the Same or Another Layer (Union)		Х	
	·		Х	
	Create New Features from the Buffer of Existing Features		٨	
	6 . 11 . 1		Х	
	Create New Polygons by Intersecting Existing Feature			
	Create New Polygons by Intersecting Existing Feature Classes			
			Х	
	Classes		X	

Document and Data Support	ArcIMS	ArcGIS Server	ArcWeb Services	Notes	Data Editing (continued)	ArcIMS	ArcGIS Server	ArcWeb Services
Map and Symbology Files					Attribute Editing			
Read Published Map Files (from ArcGIS Publisher)	Х	Х			Modify Each Selected Row Individually or as a Group		Х	
Create and Edit Map Documents (.mxd)		Х	Χ*	*ArcWeb Toolbar	(Attributes Dialog)			
		.,	1/4	for ArcGIS	Copy Attributes to One or More Rows Simultaneously		X	
Save Map Documents (.mxd) in ArcGIS 8.3 Format		Х	Χ*	*ArcWeb Toolbar for ArcGIS	Calculate Attribute Values Using Scripts (Field Calculator)		Х	
Use Map Templates (MXT) to Standardize Maps		Х	Х*	*ArcWeb Toolbar for ArcGIS	Validate Attribute Values Using Rules Defining Valid Values (Domains)		Х	
Import ArcView® 3.x APR and AVL Files		Х			Multipart Features (Point, Line, Polygon)			
Direct Read of Data Sources					Add and Delete Parts		Χ	Х
Geodatabase	Х	Х			Zoom to Parts		Χ	Х
Shapefiles	Х	Х	Х		Add, Delete, and Edit Vertex Locations		Х	Х
ArcInfo® Coverages	Χ*	Х		*Requires ArcSDE	Create Separate Features from Each Part (Explode)		Х	Х
				for Coverages	Map Navigation while Editing			
PC ARC/INFO® Coverages	Χ*	Х		*Requires ArcSDE for Coverages	Zoom to Feature Vertices		Х	Х
Smart Data Compression (SDC) Data	Χ*	Х		*ArcIMS Route	Zoom to Feature Parts		Х	Х
Vector Product Format (VPF) Data	Х	Х		Server Only	Interactively Pan and Zoom Using the Editing Tools and Shortcut Keys		Х	
Web Services	Х	Х			Pan and Zoom to Unplaced Annotation or the Feature		Χ	
ArcIMS Image Service	Χ*	Х		*ArcMap Image	Associated with the Unplaced Annotation			
ArcIMS Feature Services	X*	X		Services Only	Vector Data Transformations		V	
Arctivis reature services	^	^		*ArcMap Image Services Only	Rubber Sheeting Transformation Transformation—Affine Transformation		X	
Geography Network™ Feature Service	Χ*	Х		*ArcMap Image	Transformation—Similarity Transformation		X	
ArcGIS Server Services	Х	X		Services Only	Transformation—Projective Transformation		X	
OGC Web Map Server (WMS)	X*	X		*ArcMap Image	Edge-Matching Transformation		X	
Ode Web Map Server (WMS)	^	^		Services Only	Transfer Accurate Attributes from Features with		X	
OGC Web Feature Server (WFS)	Х*	Х		*ArcMap Image Services Only	Inaccurate Geometry to Features with Accurate Geometry (Conflation)		^	
Direct Editing of Data Sources					Copy Feature Geometry from One Location/Layer to a New Location/Layer		Χ	
Personal Geodatabase Simple Features (.mdb)		Χ			Coordinate Geometry			
Personal Geodatabase Simple Features Checked Out from a Multiuser Geodatabase		Х			Create Fields to Store Coordinate Geometry (COGO) Measurements		Х	
Shapefiles		Х	Х		Add New Features by Specifying Courses along a		Х	
Multiuser Geodatabase Features		Х			Traverse			
Direct Read of CAD Data					Split a Line at Specific Intervals (Proportion)		Х	
Autodesk® Drawing Exchange Format (DXF ™)	X*	Х		*ArcMap Image Services Only	Populate COGO Measurements from the Geometry of a Feature (Inverse)		Х	
AutoCAD Drawing File (DWG)	X*	Х		*ArcMap Image Services Only	Create a Curved Line at the Intersection of Two Existing Lines (Fillet)		Х	
MicroStation® DGN Files	Χ*	Х		*ArcMap Image Services Only	Generalization			
Direct Read of Other Data				,	Smooth Line Features		Х	
ESRI TIN			Х		Simplify the Shape of Line Features (Generalize)		Χ	
dBASE (DBF)		X	X					
Text (TXT)		X			NA. IA.			مد
ESRI INFO Files		X			Multiuser	MS	GIS	ArcWeb Services
OLE DB Connections	Х*	Х		*ArcMap Image	Geodatabase Editing	ArcIMS	ArcGIS Server	ArcWeb Services
				Services Only	General Editing			
ODBC Connections		Х			Multiple Editors Can Simultaneously Edit the Same		Х	

		ArcGI Serve	ArcW Servi
eneral Editing			
Multiple Editors Can Simultaneously Edit the Same Feature Classes in a Multiuser Geodatabase		Х	
Isolate Editing Projects in Separate Versions (Create Version) Enabling a Variety of Workflows		Х	
Merge Versions (Reconcile and Post)		Х	
Delete Versions		Х	
isconnected Editing			
Check Out Raster and Vector Data from a Multiuser Geodatabase Using a Variety of Spatial and Attribute Filters		Х	
Package Edits Made to a Checkout Geodatabase in an XML File		Х	
all AIVIL I lie			
Check in Edits to a Multiuser Geodatabase from a Checkout Geodatabase		Х	
Check in Edits to a Multiuser Geodatabase from a Checkout Geodatabase patial Referencing mage Data	IMS		Web
Check in Edits to a Multiuser Geodatabase from a Checkout Geodatabase Spatial Referencing mage Data Georeferencing)	ArcIMS	ArcGIS ×	ArcWeb Services
Check in Edits to a Multiuser Geodatabase from a Checkout Geodatabase Checkout Geodatabase from a Checkout Geodatabase from a Checkout Geodatabase Checkout Geodatabase from a Checkout Geodatabase	ArcIMS		** ArcWeb Services
Check in Edits to a Multiuser Geodatabase from a Checkout Geodatabase Spatial Referencing mage Data Georeferencing)	ArcIMS	ArcGIS Server	
Check in Edits to a Multiuser Geodatabase from a Checkout Geodatabase Chackout Geodatabase Checkout Geodatabase Checkout Geodatabase Checkout Geodatabase Checkout Geodatabase Checkout Geodatabase from a Checkout Geodatabase from a Checkout Geodatabase Checkout Geodatabase from a Checkout Geodatabase fr	ArcIMS	ArcGIS Server	
Check in Edits to a Multiuser Geodatabase from a Checkout Geodatabase Checkout Geodatabase from a C	ArcIMS	X ArcGIS Server	
Check in Edits to a Multiuser Geodatabase from a Checkout Geodatabase Checkout Geodatabase from a Checkout Geodatabase fr	ArcIMS	X ArcGIS Server	
Check in Edits to a Multiuser Geodatabase from a Checkout Geodatabase Spatial Referencing mage Data Georeferencing) ools Image Shift, Flip, Rotate, or Fit to Display Interactively Specify From and To Control Points Save and Load Control Points with Error and Accuracy Information ransformation Methods	Arcims	X X X Server	
Check in Edits to a Multiuser Geodatabase from a Checkout Geodatabase Spatial Referencing mage Data Georeferencing) ools Image Shift, Flip, Rotate, or Fit to Display Interactively Specify From and To Control Points Save and Load Control Points with Error and Accuracy Information ransformation Methods First-Order Polynomial	ArciMS	X X X Server	*X ArcWeb Services
Check in Edits to a Multiuser Geodatabase from a Checkout Geodatabase Checkout Geodatabase from a C	ArcIMS	X X X X Server	
Check in Edits to a Multiuser Geodatabase from a Checkout Geodatabase Spatial Referencing mage Data Georeferencing) ools Image Shift, Flip, Rotate, or Fit to Display Interactively Specify From and To Control Points Save and Load Control Points with Error and Accuracy Information ransformation Methods First-Order Polynomial Second-Order Polynomial Third-Order Polynomial	ArcIMS	X X X X Server	

Data Management and Validation								
Data Management	ArcIMS	ArcGIS Server	ArcWeb Services	Notes				
eneral								
Create Personal Geodatabases		Х						
Create Personal Geodatabase Feature Classes		Х						
Create Shapefiles	Χ*	Х		*Extract Servi				
Administer ArcGIS Server		Х						
earch for GIS Data by								
Name	Х	Х	Х					
Туре		Х	Х					
Location	Х	Х	Х					
Date	Х	Х	Х					
Metadata Tag	Х	Х	Х					
lanage Coverage Data								
Add/Modify Tic Locations		Х						
Set Coordinate System		Х						
Change the Data Extent		Х						
Create Coverage Relationship Classes		Х						
Create a New Coverage		Х						
Create a New INFO File		Χ						
Modify Coverage Tolerances		Х						
eodatabase Administration								
Create and Load Vector and Raster Data into a Multiuser Geodatabase		Х						
Create Tables/Feature Classes That Store Custom Objects/Features		Х						
Update RDBMS Statistics for GIS Data		Х						
nterchange File Export								
XML	Χ*	Х	Х	*Metadata Ser				
ZIP (compressed text file with 4 GB size limit)	Χ*			*Extract Service				

ttribute Validation	ArcIMS	ArcGIS Server	ArcWeb Services	Notes
eate and Edit Relationships etween Features				
One-to-One		Х		
One-to-Many		Χ		
Many-to-Many		Χ		
Specify Cardinality Rules for Relationships		Χ		
Store Attributes for Relationships		Х		
eodatabase Relationship Behavior				
Moving a Feature Moves the Related Feature		Х		
Deleting One Feature Deletes the Related Feature		Х		

Topology	ArcIMS	ArcGIS Server	ArcWeb Services	Notes
Map Display				
Display a Summary of the Errors and Exceptions in the		Х		
Topology Display the Feature Classes and Rules in the Topology		Х		
Display the Feature Classes and Rules in the Topology Display Errors, Exceptions, and Dirty Areas in the Map	Χ*	X		*ArcMap Server
Editing				
Construct and Edit Topologies Created from Layers		Х		
in the Map		V		
Move Topological Edges and Nodes Show or Select Adjacent or Connected Features		X		
Reshape Shared Edges between Features		X		
Modify the Coordinates of Shared Edges or Nodes		Х		
Split Shared Edges at a Specific Point, Distance, or		Х		
Percentage along the Edge Move Edges and Nodes to a Specific Location		X		
Shift Edges and Nodes Based on an Offset from Their		X		
Current Location				
Merge Connected Edges		X		
Control Which Adjacent or Connected Features Move When a Shared Edge or Node Is Moved		Х		
Construct Polygons from Lines or Lines from Polygons		Х		
Split Lines Where They Intersect		Х		
Validate a Specific Area or the Entire Topology		X		
Search for Errors of a Specific Type within One Area or the Entire Topology		Х		
Inspect Errors by Zooming, Panning, or Selecting the Features		Х		
Geodatabase Topology Rule Violation				
Fix Operations				
Delete Features		Х		
Subtract Features		X		
Create Features		X		
Merge Features Snap Features		X		
Extend Lines		X		
Trim Lines		Х		
Split Lines		Х		
Explode Features		Х		
Simplify Features		Х		
Geodatabase Topology Management				
Create and Manage Geodatabase Topology		X		
Specify a Hierarchy for Vertex Snapping during Topology Creation		^		
Geodatabase Topology Rules				
Polygons Contain Points		Х		
Polygons Must Not Overlap		X		
Polygons Must Not Have Gaps Polygons Must Not Overlap with Polygons in Another		X		
Feature Class		^		
Polygons Must Be Covered by One Polygon in Another Feature Class		Х		
Polygons Must be Covered by One or More Polygons in		Х		
Another Feature Class Polygons from Two Feature Classes Must Cover Fach		V		
Polygons from Two Feature Classes Must Cover Each Other		Х		
Polygon Boundaries Must Be Covered by Lines of Another Feature Class		Х		
Polygon Boundaries Must Be Covered by the Boundaries		Х		
of Polygons in Another Feature Class				
Lines Must Not Overlap		X		
Lines Must Be Single Part Lines Must Not Self-Overlap		X		
Lines Must Not Overlap with Lines in Another Feature		X		
Class				
Lines Must Not Have Dangles		X		
Lines Must Not Have Pseudo Nodes Lines Must Not Intersect		X		
Lines Must Not Intersect Lines Must Not Self-Intersect		X		
Line Endpoints Must Be Covered by Points of Another		X		
Feature Class				
Lines Must Be Covered By Polygon Boundaries of Another Feature Class		Х		
Lines Must Not Intersect or Touch Interior		Х		
Lines Must Be Covered by Lines of Another Feature Class		Х		
Points Must Be Covered by Lines of Another Feature		Х		
Class				
Points Must Be Inside Polygons Points Must Be Covered by the Endpoints of Lines		X		
Points Must Be Covered by the Endpoints of Lines Points Must Be Covered by the Boundary of Polygons of		X		
Another Feature Class		^		

Networks	ArcIMS	ArcGIS Server	ArcWeb Services	Notes
Utility Network Analysis				
Trace Upstream		Х		
Trace Downstream		Х		
Find Common Ancestors		Х		
Find Connected Network Features		Х		
Find Loops in Network		Х		
Find Disconnected Network Features		Х		
Find Path		Х		
Find Path Upstream		Х		
Find Upstream Accumulation		Х		
Isolate a Point on the Network		Х		
Data Management				
Create and Manage Utility Networks				
Create Complex Edge Features that Maintain Connectivity without Splitting the Feature		Х		
Geometric Network Connectivity Rules				
Edge—Junction		Х		
Edge—Edge via Junction		Х		
Geometric Network Editing				
Connect and Disconnect Network Features		Х		
Enable and Disable Network Features		Х		
Set Flow Direction for a Network		Х		
Verify, Repair, and Rebuild Connectivity in a Network		Х		
Varify the Geometry of Network Features		v		

Verify the Geometry of Network Features		Х		
Review and Repair Network Creation Errors		Χ		
Linear Referencing (Routes)	ArcIMS	ArcGIS Server	ArcWeb Services	
Display				
Find and Display Dynamic Segmentation Events (Point, Linear, and Continuous) on Routes		Х		
Editing				
Interactively Modify M-Coordinate Values		Х		
Interactively Drop M-Coordinates		Х		
Create Routes for Selected Lines Using the Length of the Features, a Field Value, or Specific From and To Measures		Х		
Edit a Portion of a Line without Affecting the Measures on the Rest of the Line		Х		
Adjust One Route Using Points along the Route (Calibrate)		Х		
Calculate Measures Using From and To Measures for a Line		Х		
Set the Digitized Direction of the Line to Match Measure Values		Х		
Calculate Measures Based on Length of Line		Х		
Drop All the Measures for a Line		Х		
Calculate Unknown Measures Using Interpolation Based on Existing Measures		Х		
Add a Value to All Measures on a Line		Х		
Multiply All Measures on a Line by a Factor		Χ		

Add a Vertex at a Specific Measure		Х		
Metadata	ArcIMS	ArcGIS Server	ArcWeb Services	Notes
General				
Publish Metadata to the Web	Х		Х	
Create an Interactive Metadata Portal	Х			
Manage Metadata Tables to Be Published	Х			
Create Metadata Tables to Be Published	Х			
Search for Metadata			Х	
View Metadata Using a Variety of Style	s			
FGDC	Х			
FGDC Classic	Х			
FGDC ESRI	Х			
FGDC FAQ	Х			
FGDC Geography Network	Х			
ISO	Х			
ISO Geography Network	Х			
Raw XML	Х			

St	eets
	ESRI Urban Map
	AND World Road Map
	Streets
	Tele Atlas North American Street Map
	Tele Atlas U.S. Streets
_	MapData Sciences Australian Streets
_	NAVTEQ® Streets
	Tele Atlas/AND European Streets eather
VV	Meteorlogix® NA Current Weather
	Meteorlogix NA Forecast Weather
	Meteorlogix U.S. Precipitation
Tra	affic
	TrafficCast Traffic Incidents
Th	ematic Map Data
	ESRI U.S. Thematic Map
	Tele Atlas U.S. Thematic Map
De	emographic Data and Reports
	ESRI U.S. Pixxures Aerial/Satellite Photos
_	ESRI U.S. Site Map
	ESRI U.S. Enhanced Site Map Census U.S. Population
_	ESRI U.S. Population Density
	ESRI U.S. 1990–2000 Comparison
	ESRI U.S. Age 55+ Profile
	ESRI U.S. Age by Income Profile
	ESRI U.S. Age by Sex Profile
	ESRI U.S. Automotive Aftermarket Expenditure
	ESRI U.S. Financial Expenditures
	ESRI U.S. House and Home Expenditures
	ESRI U.S. Household Budget Expenditures ESRI U.S. Medical Expenditures
	ESRI U.S. Recreation Expenditures
	ESRI U.S. Retail Goods and Services Expenditures
	ESRI U.S. Census 2000 Detailed Race Profile
	ESRI U.S. Census 2000 Summary Profile
	ESRI U.S. Demographics
	ESRI U.S. Demographic and Income Profile
	ESRI U.S. Detailed Age Profile
	ESRI U.S. Detailed Income Profile ESRI U.S. Disposable Income Profile
_	ESRI U.S. Graphic Profile
	ESRI U.S. Housing Profile
	ESRI U.S. Market Profile
	ESRI U.S. New Worth Profile
_	ESRI U.S. Tapestry™ Area Profile
	ESRI U.S. Traffic Profile
	pographic -
_	Торо NG U.S. TOPO!" Мар
Ba	semap
	ESRI U.S. Basemap
_	ESRI World Basemap
	Cadastral
Ī	Land Cover
	USGS U.S. Land Cover Map
Po	ints of Interest
	ESRI World Airports
	ESRI World Gazetteer Tala Atlas Canadian Paints of Interest
_	Tele Atlas Canadian Points of Interest Tele Atlas U.S. Points of Interest
_	lele Atlas U.S. Points of Interest My POI
	NAVTEQ North American Points of Interest
	Tele Atlas European Points of Interest
_	Tele Atlas U.S. Landmarks
Po	litical Boundaries
	ESRI Italia Administrative Areas
	ESRI World Administrative Areas
_	Tele Atlas U.S. ZIP Codes
_	Tele Atlas U.S. Populated Places
_	Tele Atlas European Populated Places
	Tele Atlas European Postal Codes Tala Atlas II S. 7IP Codes
FI.	Tele Atlas U.S. ZIP Codes
-10	FEMA U.S. Flood Hazards
Ce	Il Phone Location
-6	

Data Hosted by ESRI

Client Application List

ncluded Client Application	ArcIMS	ArcGIS Server	ArcWeb Services	Notes
General				
HTML Viewer	Х			
Java Viewer	Х			
Java Plug-In Based Viewer	Х			
ArcExplorer™ Java	Х			
ASP.NET ³ Map Viewer Template		Х		
Java/JSP Map Viewer Template		Х		
ASP.NET ³ Page Layout Template		Х		
Java/JSP Page Layout Template		Х		
ASP.NET ³ Geocoding Template		Х		
Java/JSP Geocoding Template		Χ		
ASP.NET ³ Search Template		Χ		
Java/JSP Search Template		Х		
ASP.NET ³ Thematic Map Template		Х		
Java/JSP Thematic Map Template		Χ		
ASP.NET ³ Buffer Selection Template		Х		
Java/JSP Buffer Selection Template		Х		
ASP.NET ³ Web Service Catalog Template		Х		
Java/JSP Web Service Catalog Template		Х		
ArcWeb Toolbar for ArcGIS			Х	
Logistics			Х	
Locator (JSP/Java)			Х	
Locator (ASP.NET)			Х	
Locator (ColdFusion MX)			Х	
ArcWeb Explorer			Х	
Wireless Application (J2ME)			Х	
Java/JSP Address Finder Code Download			Х	
ASP.NET Address Finder Code Download			Х	
ColdFusion MX Address Finder Code Download			Х	
Java/JSP Place Finder Code Download			Х	
ASP.NET Place Finder Code Download			Х	
ColdFusion MX Place Finder Code Download			Х	
Java/JSP Map Image Code Download			Х	
ASP.NET Map Image Code Download			Х	
ColdFusion MX Map Image Code Download			Х	
Java/JSP Report Code Download			Х	
ASP.NET Report Code Download			Х	
ColdFusion MX Report Code Download			X	
Java/JSP Spatial Query Code Download			X	
ASP.NET Spatial Query Code Download			Х	
ColdFusion MX Spatial Query Code Download			X	
Java/JSP Reverse Geocoding Code Download			X	
ASP.NET Reverse Geocoding Code Download			X	
ColdFusion MX Reverse Geocoding Code Download			X	
Java/JSP Thematic Mapping Code Download			X	
ASP.NET Thematic Mapping Code Download			X	
ColdFusion MX Thematic Mapping Code Download			X	
Java/JSP Route Finder Code Download			X	
ASP.NET Route Finder Code Download			X	
ColdFusion MX Route Finder Code Download			X	
Java/JSP Projection Utility Code Download			X	
ASP.NET Projection Utility Code Download			X	
ColdFusion MX Projection Utility Code Download			X	
Java/JSP Authentication Manager Code Download			X	
ASP.NET Authentication Manager Code Download			X	
ColdFusion MX Authentication Manager Code Download			Х	
ASP NET Web applications and camples are available in be	CH J	Vicual Pag	i NET	:

ArcIMS 9.1, ArcGIS 9.1 Server, and ArcWeb Services 2006

3 ASP.NET Web applications and samples are available in both C# and Visual Basic .NET versions.



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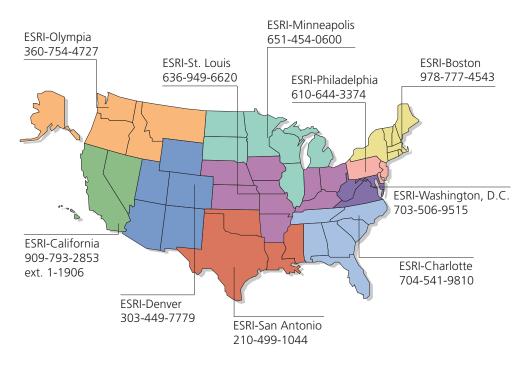
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