## ArcGIS for Desktop Functionality Matrix 10

## ArcGIS 10 for Desktop Functionality Matrix

**Application Framework** 

**Application Customization** 

Application Look and Feel

Unicode Support for Multilanguage Attributes Installations for Chinese, Japanese, French, German,

Complies with Microsoft Windows Display Settings

Drag and Drop to Rearrange Tools/Toolbars

Create New Toolbars or Menus without Programming

Layer (.lyr) Files Registered in Windows to ArcGIS Applications

Extend the Applications with any COM-Compliant Development

Build New ArcGIS Components with .NET Using Microsoft Visual

Dockable/Floating Toolbars

Customization

Dockable and Auto Hiding Windows

		ard	000
Map Interaction	Basic	Standaro	Advenced
Map Navigation			
Pan, Zoom, and Rotate the Map	•	•	•
Find an X,Y (Latitude-Longitude) Location on a Map  Zoom to the Full Study Area of the Map	•	•	
Zoom to the Extent of a Layer	•	•	•
Zoom to the Visible Scale of a Layer	•	•	•
Zoom to a Specific Map Scale	•	•	•
Use Spatial Bookmarks  Access Hyperlinks	•	•	•
Use Dynamic MapTips	•	•	
Use Magnification Window	•	•	•
Interactively Reveal Areas beneath a Specific Layer (Swipe)	•	•	•
Save and Manage Locations for Use with Multiple Maps (My Places)	•	•	4
Create, Organize, and Share Spatial Bookmarks  Pan and Zoom the Map with the Mouse Wheel	•	•	•
Pan and Zoom to Selected Features	•	•	
Switch Any Tool to a Pan/Zoom Tool Using Hot Keys	•	•	•
Create Hyperlink to External Application, Macro, or URL	•	•	9
Use Overview Window	•	•	•
Use Viewer Windows for Displaying Different Parts of a Map	•	•	•
Use Multiple Viewer Windows for Separate Data Frames  Queries			
Identify Features in the Map	•	•	•
Interactively Measure Distances and Areas	•	•	•
Find Features in the Map	•	•	•
Find Places Using the ArcGIS™ Online World Gazetteer	•	•	•
Find by Address, Including Custom Locators	•	•	•
Show Related Data with Field Properties  View and Toggle Layer Selectability in Table of Contents	•	•	9
Select Data by Location	•	•	-
Select Data by Attribute	•	•	•
Interactively Select/Unselect Features	•	•	•
Unselect All, Switch the Selection, or Select All Features	•	•	9
Access Attribute Table and Layer Properties from Identify Dialog Box	•	•	•
Tables			
Flash, Zoom to, Pan to, Select, and Identify Individual Features in a Map Based on a Record in the Attribute Table	•	•	٩
Interactively Highlight Selected Records/Features	•	•	•
Zoom to and Unselect Highlighted Records/Features	•	•	4
Interactively Add and Remove Records from a Selection	•	•	•
Copy Selected Records for Pasting into Other Applications	•	•	9
Turn Fields Off and On and Change Field Order and Size  Modify a Table's Appearance by Changing Cell and Field Size,	•	•	9
Font, and Color	•	•	9
Use Field Properties of Joined Tables	•	•	•
Reorder Fields See Properties of Joins and Relates from Table Properties	•	•	9
Sort a Table by Multiple Fields	•	•	
Drag Multiple Tables into the Table Window as Tabs	•	•	•
Create a Graph or Report	•	•	•
Find and Replace Attribute Values	•	•	•
Open Attachment Manager for Any Record (When Attachments Are Enabled on the Layer)	•	•	•
Graphs			
Plot Data from a Variety of Datasets in a Single Graph	•	•	•
Create 2D and 3D Graphs	•	•	•
Overlay Multiple Graphs in a Single Graph	•	•	•
Selections Automatically Propagate between Map, Table, and Graph	•	•	•
Graph Types  Horizontal and Vertical Bar, Line, and Area			
Histogram Bar	•	•	
Scatterplot	•	•	•
Scatterplot Matrix	•	•	•
Box Plot	•	•	•
Bubble	•	•	•
Polar	•	•	9
Pie Routing Using ArcGIS Online or Network			
Datasets (StreetMap™ USA)			
North American and European Point-to-Point Street Routing	•	•	•
Add Route Stops from Addresses and Existing Features and Interactively Add Stops on the Map	•	•	•
Add Route Barriers from Addresses and Existing Features and			
Interactively Add Stops on the Map			
Snap Stops to Closest Address Using an Address Locator	•	•	9
Customize the Route for Quickest or Shortest Route  Reorder the Stops to Find the Fastest Route between Unordered			
Stops	•	•	9
Modify Speed and Restriction Attributes of the Routing Service	•	•	9
Specify Trip Planning Timing (Start, Stop, Breaks, etc.)	•	•	9
Generate HTML Directions Using an Overview Map, Turn-by-Turn Maps, and Vicinity Maps	•	•	•
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Sharing Maps, Layers, and Data

Advanced Cartography

Share Representation Rules through Style Files

Dynamically Place Point Symbols along Lines or Polygons

Point Geometric Effects

Line Geometric Effects

Radial from Point Regular Polygon

Add Control Points

Cut Curve

Dynamically Modify the Geometry That Is Displayed for a Feature

Consolidate Layers or Maps into a Folder

Create a Layer Package File

Customize the Route for Quickest or Shortest Route	•	•	•	Create a Layer Package File
Reorder the Stops to Find the Fastest Route between Unordered				Upload a Layer Package File to ArcGIS Online and Share It
Stops				Extract a Layer Package
Modify Speed and Restriction Attributes of the Routing Service	•	•	•	Create a Map Package File
Specify Trip Planning Timing (Start, Stop, Breaks, etc.)  Generate HTML Directions Using an Overview Map, Turn-by-Turn	•	•	•	Upload a Map Package File to ArcGIS Online and Share It
Maps, and Vicinity Maps	•	•	•	Extract a Map Package *Requires ArcGIS for Server
		lard	Advanced	
Man Display	Basic	Standard	Adva	Map Text
Map Display	Ш	S	4	•
General Mapping				Labels  Creating Dynamic On the Fly Labels
Visualize the Map Page or a Specific Set of Data  Perform On-the-Fly Projection of All Data	•	•		Creating Dynamic On-the-Fly Labels  Automatic Conflict Detection and Label Placement
Enable Full Cartographic Visualization of Any PMF File		•		Label Placement Rules for Setting Priority between Layers
Interactively Set Percent Transparency for All Data Layers	•	•	•	Placement Rules for Setting Importance of Labels vs. Features
Legends Honor Layer Transparency	•	•	•	Many Predefined Label Styles (e.g., Highway Shields)
Set a Minimum and Maximum Scale to Display Data	•	•	•	Labels Rotate from an Attribute Field
Create Custom Relative Scales	•	•	•	Multiple Dynamic Labeling Schemes Built for Each Map Layer
Clip the Map Display to a Feature or Graphic	•	•	•	Control Which Features in a Layer Display Labels
Create Graticules, Measured Grids, and Reference Grids	•	•	•	Advanced Text Formatting Tags for Dynamic Label Symbology
Create Extent Rectangles for Other Data (Reference and Overview Maps)	•	•	•	Annotation
Create Variable Depth Layer Masking	•	•	•	Use Interactive Label Tools (Callout, Label, Spline, and Paragraph Text)
Convert Graphics (Point, Line, Polygon, Text) to Features	•	•	•	Create Text Annotation Data from Labels
Create High-Performance Basemap Layers Computed Once for				Annotation Editing
Any Area				Interactively Move, Rotate, and Scale Annotation
Add Data Menu Accesses Basemaps and Data from ArcGIS Online	•	•	•	Add Horizontal or Angled Annotation
Quick Pan Mode for Continuous Navigation of Basemap and Accelerated Raster Layers	•	•	•	Add Annotation with a Leader Line
Tabular Data				Create Annotation That Follows a Curved Line or the Shape of an
Create On-the-Fly Dynamic Joins between Different Databases	•	•	•	Existing Feature
Join Dialog Box Supports Join Validation Prior to Execution	•	•	•	Dynamically Pull Annotation Values from Layers in the Map
Create and Use Many-to-One and One-to-Many Relationships	•	•	•	Interactively Manage Annotation That Could Not Be Placed during Initial Annotation Creation
Create Statistics	•	•	•	Edit Each Word in an Annotation String Independently
Summarize Data	•	•	•	Interactively Stack and Unstack Annotation
Interactively Change the Visibility of Fields	•	•	•	Flip Annotation Strings
Simplify Field Names with Field Aliases	•	•	•	Interactively Modify the Curvature and Orientation of a Line
Display Numeric Fields Formatted as Currency, Direction, Percentage, etc.	•	•	•	Edit the Symbology of a Single Annotation Feature or a Group of Annotation Features Simultaneously
Create Charts and Reports	•	•	•	Annotation and Dimensions Management
Build Detailed Reports Using Esri® Report Wizard	•	•	•	Store Annotation in a Geodatabase or a Map Document
Sort by Multiple Attributes	•	•	•	Create Annotation Subclasses
Connect to and Use Remote Database Tables	•	•	•	Create Aligned Dimensions Displaying the True Distance between
Display Tabular X,Y Point Data from a File or Table on a Map	•	•	•	Points
View Attachments for a Feature Class	•	•	•	Create Linear Dimensions Displaying Horizontal, Vertical, or an Angled Distance between Points
Vector Data Display				Create and Edit Feature-Linked Annotation Feature Classes in a
Control Selection Color for Each Dataset	•	•	•	Geodatabase
Create MapTips	•	•	•	
Fix Symbology to a Specific Map Scale	•	•	•	
Interactively Exclude Specific Features from the Display	•	•	•	
Control Which Features to Display Using a SQL Query  Control Which Data Fields Are Accessible from the Map	•	•	•	Advanced Labeling <sup>1</sup>
Thematic Vector Data Classifications				Advanced Label Placement Rule Set
Single Symbol				Display Advanced Labels with Read-Only Properties
Unique Value			•	Street Placement
Match to Predefined Style	•	•	•	Customizable Dynamic Stacking
Graduated Colors or Symbols	•	•	•	Font Reduction
Proportional Symbols	•	•	•	Customizable Abbreviation
Dot Density Mapping	•	•	•	Polygon Boundary Placement  Repeated Labeling
Chart Mapping Including Pie and Bar Chart	•	•	•	Character Spreading
Bivariate and Multivariate Data Rendering	•	•	•	Word Spreading
Interactive Histogram for Data Classification	•	•	•	Label Overrun on Features
Symbology				Curved Polygon Placement
Use Interactive Symbol Composer	•	•	•	Graticule Labeling Alignment
Control Symbol Draw Order	•	•	•	User-Defined Point Label Zones
Access More than 19,500 Predefined Symbols	•	•	•	Background Labeling
Search for Symbols by Descriptive Tag	•	•	•	Land Parcel Placement
Add or Modify Symbol Search Tags	•	•	•	Advanced Feature Weighting
Use Halos and Advanced Background Symbols	•	•	•	Advanced Label Offsets
Define Symbols for Fill, Lines, Outlines, and Points	•	•	•	Advanced Line Label Positions
Support User-Imported Graphic Fill Patterns	•	•	•	Advanced Curved Label Placement
Elevation Surface Display				Watermark-Style Background Labels
TIN Contour with Index Contours	•	•	•	Geologic Strike and Dip Symbology
TIN Face, Aspect, Elevation, Slope	•	•	•	Asian Vertical Text Metric Support
Digital Elevation Model (DEM) Hillshade with Sun Position Control	•	•	•	Polygon Hole Avoidance for Callouts
DEM Shaded Relief Using Hillshade and Elevation  Terrain Contour with Index Contours	•	•	•	Polygon Zone (Internal, External) Placement
Terrain Face, Aspect, Elevation, Slope	•	•	•	Long Boundary Label Repetition
DEM Elevation	•	•	•	Logically Continuous Feature (Street, River, Contour) Placements
DEM EICYGGOT	_			The advanced labeling functionality is available through Maplex® be purchased with Basic or Standard but is automatically included
Raster Data Display				De Dalciiggen Milli pazic di giandard bin iz antiniani ana nu miner

Raster Data Display

Display Image Values Using a Color Map

Save Current Display Statistics

Orthorectify On the Fly On-the-Fly Panchromatic Sharpening

Standard Deviations Histogram Equalize

**Raster Display Statistics** 

Based on the Entire Raster Dataset

Based on the Display Extent

Based on a Custom Extent

Display Multiband Raster Data Using Color Values

On-the-Fly Hillshade Effect for Elevation Data

Display Raster Values While Navigating the Map with MapTips Display Raster Resolution in Map Table of Contents

Raster Display: Gradual Color Ramp Data-Stretching Algorithms

Display Multiband Images by Assigning Color Values to the Bands

		dard	Advanced
Map Display (continued)	Basic	Standard	Volva
Raster Display Resample Methods	ш	S	
learest Neighbor			
Bilinear Interpolation		•	
Cubic Convolution	•	•	
Majority		•	
Raster Display Classification Methods			
Manual Interval			
qual Interval			
Defined Interval	•	•	
Quantile Interval	•	•	
Natural Breaks (Jenks)	•	•	
Geometrical Interval	•	•	
Standard Deviation	•	•	
Raster Catalog Footprint Display			
Footprints Only	•	•	
Selected Footprints	•	•	•
Raster Tools			
Pixel Inspector	•	•	•
Swipe Layer Tool	•	•	•
Time Animation and Temporal Data			
Create Time Series, Layer Transition, or Map Navigation Animation	•	•	
Animate Data Change with Tabular (Charts), Vector, Raster			
Catalog, and netCDF Data			L
Export Animations as Sequential Images	•	•	•
Create Video from Sequential Images View Temporal Data with the Time Slider	•	•	•
Page Layout and Printing	Basic	Standard	Advanced
		0,	
Map Elements			
Title Text		•	
Neatlines		•	
egend			
North Arrows	•	•	
Scale Bar	•	•	
Scale Text	•	•	•
Pictures	•	•	•
OLE Objects	•	•	•
Measured Reference Grid	•	•	•
Graticules	•	•	•
Export Formats			
Enhanced Metafile (EMF)	•	•	•
Windows Bitmap (BMP)	•	•	•
Encapsulated PostScript (EPS)	•	•	•
Tagged Image File Format (TIFF)	•	•	•
Portable Document Format (PDF)	•	•	•
Joint Photographic Experts Group (JPEG)	•	•	•
Portable Network Graphics (PNG)  Graphic Interchange Format (GIF)	•	•	•
Graphic Interchange Format (GIF)	•	•	•
Scalable Vector Graphics (SVG)	•	•	•
Adobe Illustrator (AI)  PostScript Color Separates (with Page Marks)	•	•	
PostScript Color Separates (with Page Marks)			
Print with the Following Print Drivers  Windows			
PostScript	•	•	
rostscript ArcPress™ HP RTL (RGB, CMYK, and Monochrome)	•	•	
ArcPress HP RTL (RGB, CMYK, and Monochrome)  ArcPress HP PCL (RGB, CMYK, and Monochrome)	•	•	
ArcPress Epson Universal	•	•	
ArcPress Epson Universal	•		
Process Print Jobs on the Local Machine for Faster Printing	•	•	
	1	I	I
		ō	C
	U	dar	ÜUE
Dublishing and Charles 84	Basic	Standard	Advanced
Publishing and Sharing Maps	Ω	Ś	◁
Creating High-Performance Dynamic Maps			
Analyze Maps for Errors, Unsupported Content, Performance Tips	•	•	•
Preview Your Maps and Estimated Rendering Time	•	•	•
		•	•
	_	_	-
Create an Optimized Map Service Document (MSD) Publish a Map Service Document to ArcGIS for Server*  Sharing Maps, Layers, and Data	•	•	•

Geocoding Tools			
Geocoding Toolbar for Locator Management and Use			
Single Line Input for ArcGIS 10 Locators			
Geocode Single or Batch Addresses			
Real-Time Batch Geocoding Match Rate Feedback		•	
Use Tools for Processing Result Sets, Including Custom Queries		•	
Use ArcGIS for Server for Server-Based Geocoding			
Use Multiple Geocoding Locators per Data Source			
Geocode Using Alternate Street Names, Intersection, or Place- Name Aliases	•	•	-
Aggregate Multiple Geocoding Locators into a Single Geocoding Locator (Composite Locator)	•	•	•
Distribute Geocoding Locators without the Reference Data	•	•	
Address Inspector Finds Address by Map Click	•	•	-
Drag Locators into ArcMap™ from the Catalog Window	•	•	-
Built-in Dataless Military Grid Reference System (MGRS) Locator	•	•	-
Create Dynamic Features from Geocoded Locations		•	-
ArcGIS Online Locators			
North American Locator Service	•	•	
European Locator Service	•	•	
World Places Gazetteer Locator Service	•	•	-
Geoprocessing			
Create Address Locator	•	•	-
Create Composite Address Locator	•	•	•
Geocode Addresses	•	•	-
Reverse Geocode Point Features	•	•	-
Rebuild Address Locator	•	•	(
Rematch Addresses	•	•	-
Standardize Addresses	•	•	-

Set Representation Control Point by Angle

Rematch Addresses	_	_		
Standardize Addresses	•	•	•	
				Data Automatio
Data Support and Interop	oer	ab	ility	
		<u>ro</u>	eo	Data Editing
	.0	Standard	Advanced	General Editing
Raster Data Support	Basic	Sta	Ad	Simultaneously Edit Multiple Layers  Use Feature Templates to Predefine Editing Tasks per Layer
Direct Read of Raster Data				Perform Unlimited Undo/Redo Operations
ARC Digitized Raster Graphics (ADRG)		•	•	Integrate with ArcPad® for Field Editing
Band Interleaved by Line (Esri BIL), Band Interleaved by Pixel				Provide Digitizer Support for Devices with Wintab-Compliant
(Esri BIP), or Band Sequential (Esri BSQ)			_	Drivers
Bathymetric Attributed Grid (BAG)	•	•	•	Make Measurements Using Any Units, Including Custom Units
Binary Terrain (BT)  Bitmap, Device Independent Bitmap (DIB) Format, or Microsoft	•	•	•	Optionally Scale Features When Individual Vertices Are Moved  Automatically Correct Ground Measures Appropriately in the GIS
Windows Bitmap	•	•	•	Multiple Snap Environments Available
3SB Nautical Charts	•	•	•	Dockable Snapping Toolbar Makes It Quick and Easy to Control
Compressed ARC Digitized Raster Graphics (CADRG)	•	•	•	Snapping While Editing
Controlled Image Base (CIB)	•	•	•	SnapTips Give Feedback on Snap Agent Used
Digital Geographic Information Exchange Standard (DIGEST), ARC Standard Raster Product (ASRP), or Universal Transverse				Simple Editing of Multipatch (3D) Features
Mercator (UTM)/Universal Polar Stereographic (UPS) Standard Raster Product (USRP)	•	•	•	Snapping Types  Edge
Digital Image Map (DIMAP)		•	•	End
Digital Terrain Elevation Data (DTED) Levels 0, 1, and 2	•	•	•	Intersection
EOSAT FAST (FST)	•	•	•	Midpoint
ENVI	•	•	•	Point
ER Mapper's ECW	•	•	•	Tangent
ERDAS 7.5 GIS, 7.5 LAN, and RAW	•	•	•	Vertex
Floating Point Raster (FLT)	•	•	•	Snapping to Topology Elements
Geospatial Data Abstraction Library (GDAL) Virtual Format (VRT)	•	•	•	Topology Nodes
Gridded Binary Format (GRIB)	•	•	•	Snapping Tolerance
Golden Software Formats (GSAG, GSBG, GS7GB)	•	•	•	By Pixels
Hierarchical Data Format (HDF)—4, Including Subdatasets	•	•	•	By Map Units Interactively
DRISI Raster Format (RST)  ntergraph Raster Files: CIT™ Binary Data; COT™ Grayscale Data	•	•	•	Geometry Construction Options
ntegrated Software for Imagers and Spectrometers (ISIS)			•	Constrain the Next Segment by Direction
lapanese Aerospace Exploration Agency (1.1 GUD, 1.5 GUD)	•	•	•	Constrain the Next Segment with a Deflection Angle from Last
Magellan MapSend (BLX/XLB)	•	•	•	Segment
Multi-Resolution Seamless Image Database (MrSID)				Constrain the Next Segment by Length
Generations 2 and 3	-			Specify an Exact X,Y Location  Specify an X,Y Difference from the Last Vertex
National Imagery Transmission Format (NITF), Including Subdatasets	•	•	•	Constrain the Next Segment to Be Parallel to the Last Segment
National Land Archive Production System (NLAPS)	•	•	•	Constrain the Next Segment to Be Perpendicular to the Last
Oracle Spatial GeoRaster PCI Geomatics PCIDSK (PIX) <sup>2</sup>				Segment
Planetary Data System (PDS)—National Aeronautics and Space				Constrain the Next Segment Based on an Angle from an Existing Feature Segment in the Map
Administration (NASA) (IMG/LBL)	•	•	•	Create Geometry from Existing Features in the Map
Portable Network Graphics	•	•	•	Create a Curve Tangent to the Last Segment
PCRaster (MAP) <sup>2</sup>	•	•	•	Finish a Polygon by Generating Perpendicular Segments from the First and Last Segment
RADARSAT-2	•	•	•	Flip the Orientation of the Geometry
Raster Product Format	•	•	•	Trim Geometry to a Specific Length
Sandia Synthetic Aperture (GFF) Shuttle Radar Topography Mission (SRTM)		•		Geometry Creation Tools
Spatial Data Transfer Standard (SDTS)		•	•	Point and Click On-Screen Digitizing
Terragen Terrain (TER/TERRAIN)				Use Stream Digitizing
FerraSAR-X	•	•	•	Create Freehand Bézier Splines
United States Geological Survey (USGS) ASCII Digital Elevation				Add a Coordinate Based on an Angle from One Location and a Distance from Another
Model <sup>2</sup>				Add a Coordinate Based on the Implied Intersection of Two
(XPixMap (XPM) <sup>2</sup>	•	•	•	Segments
Direct Read and Write of Raster Data				Add a Coordinate in Decimal Degree (DD, DMS, DDM) Format
ERDAS IMAGINE	•	•	•	Construct a Bézier Curve
Esri Grid and Grid Stack  Geodatabase Raster	•3	•	•	Construct a True Circular Curve
Graphic Interchange Format	•	•	•	Construct a Tangent Curve  Construct Rectangles and Circles
oint File Interchange Format (JFIF)	•	•	•	Add a Coordinate Based on a Distance from Two Known Location
oint Photographic Experts Group	•	•	•	Add a Coordinate based on a Distance from two Known Eccation  Add a Coordinate at the Midpoint between Two Known Location
PEG 2000 (JP2)	•	•	•	Add Coordinates along Existing Coordinates
ortable Network Graphics	•	•	•	Create a Curved Line at the Intersection of Two Existing Lines (Fille
agged Image File Format (GeoTIFF tags are supported.)	•	•	•	Feature Manipulation Tasks
Oracle Spatial GeoRaster		•	•	Create Features Using New Geometry
Geodatabase Raster Management				Create New Polygons Using the Geometry of Existing Features
Create and Edit Raster Attribute Tables for All Supported Single	•3			(Autocomplete Polygons)
Sand Raster Formats		_		Reshape Existing Features  Cut Polygon Features
Create and Manage Rasters in Personal and File Geodatabases	•	•	•	Create Mirror Copies of Existing Features
Compress Geodatabase Rasters with LZ77, JPEG, or JPEG 2000  Compression Algorithms	•3	•	•	Extend or Trim Existing Features
	_			-

geodatabases. Standard and Advanced can create and manage geodatabase rasters in

personal, file, and multiuser geodatabases.

	Basic	Standard	Advanced
Document and Data Support	Ва	St	Ac
Map and Symbology Files	•		
Lead Published Map Files (from ArcGIS Publisher)  Treate and Edit Map Documents (.mxd)	•	•	•
lave Layer Files (.lyr) and Map Documents (.mxd) in ArcGIS 8.3,	•	•	•
0.0, 9.1, 9.2, or 9.3 Format  Jse Map Documents (.mxd) to Standardize Maps	•	•	•
mport ArcView 3.x AVL Files	•	•	•
Direct Read of Vector and Raster Data			
Personal Geodatabase for Microsoft® Access™	•	•	•
ile Geodatabase	•	•	•
Personal, Workgroup, and Enterprise Geodatabases	•	•	•
Shapefiles ArcInfo Coverages	•	•	•
PC ARC/INFO® Coverages	•	•	•
Smart Data Compression (SDC) Data	•	•	•
Vector Product Format (VPF) Data	•	•	•
ArcGIS for Server Services	•	•	•
ArcIMS® Services	•	•	•
ArcGIS for Server Feature Services	•	•	•
Open Geospatial Consortium, Inc. (OGC), Web Coverage Service (WCS)	•	•	•
Open Geospatial Consortium, Inc., Web Map Service (WMS)	•	•	•
OGC GML Simple Features Access <sup>4</sup>	•	•	•
OGC GML Simple Features Import/Export <sup>4</sup>	•	•	•
OGC GML Web Feature Service Access for Simple Features-Based Services <sup>4</sup>	•	•	•
Network Common Data Form (netCDF)	•	•	•
Direct Editing of Vector Data			
Personal Geodatabase for Access Simple Features	•	•	•
File Geodatabase	•	•	•
Shapefiles  Personal Workgroup and Enterprise Goodatabases	•	•	•
Personal, Workgroup, and Enterprise Geodatabases  ArcGIS for Server Feature Services		•	•
Direct Read of Other Data			
Geodatabase Terrains	•	•	•
Microsoft Excel Worksheets	•	•	•
Esri TIN	•	•	•
dbase (Dbf)	•	•	•
Text (TXT)	•	•	•
Esri INFO Files  OLE DB Connections	•	•	•
Query Layers Defined in a DBMS with SQL	•	•	•
ODBC Connections	•	•	•
Microsoft Access	•	•	•
Coordinate Systems			
More than 640 Predefined Geographic Coordinate Systems	•	•	•
More than 3 800 Predefined Projected Coordingto Contact	•	•	•
More than 3,800 Predefined Projected Coordinate Systems			•
More than 125 Predefined Vertical Coordinate Systems	•	•	
More than 125 Predefined Vertical Coordinate Systems Ability to Create and Use Custom Coordinate Systems	•	•	ension
More than 125 Predefined Vertical Coordinate Systems	•	•	
More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems  These features require the installation of the ArcGIS Data Interope	•	• ty exte	ension,
More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems  These features require the installation of the ArcGIS Data Interope	erabilit	• ty exte	ension,
More than 125 Predefined Vertical Coordinate Systems Ability to Create and Use Custom Coordinate Systems  These features require the installation of the ArcGIS Data Interopole but a license for this extension is not required.	•	•	
More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems <sup>4</sup> These features require the installation of the ArcGIS Data Interopole but a license for this extension is not required.	erabilit	• ty exte	ension,
More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems <sup>4</sup> These features require the installation of the ArcGIS Data Interopubut a license for this extension is not required.  CAD Support  CAD File Support	erabilit	• ty exte	ension,
More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems  These features require the installation of the ArcGIS Data Interopublic a license for this extension is not required.  CAD Support  CAD File Support  Autodesk Drawing Exchange Format (DXF)	erabilit	Standard •	Advanced Advanced
More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems  These features require the installation of the ArcGIS Data Interoperate and License for this extension is not required.  CAD Support  CAD File Support  Autodesk Drawing Exchange Format (DXF)  AutoCAD Drawing File (DWG)  MicroStation Design Files (DGN, etc.)	Basic	• • Standard	Advanced .
More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems  These features require the installation of the ArcGIS Data Interope but a license for this extension is not required.  CAD Support  CAD File Support  Autodesk Drawing Exchange Format (DXF)  AutoCAD Drawing File (DWG)  MicroStation Design Files (DGN, etc.)  Mapping Specification for CAD—Import from CAD	Basic	• • • • • • • • • • • • • • • • • • •	Advanced
More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems <sup>4</sup> These features require the installation of the ArcGIS Data Interope but a license for this extension is not required.  CAD Support  CAD File Support  Autodesk Drawing Exchange Format (DXF)  AutoCAD Drawing File (DWG)  MicroStation Design Files (DGN, etc.)  Mapping Specification for CAD—Import from CAD  Mapping Specification for CAD—Export to CAD	Basic	• • Standard	Advanced .
More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems  These features require the installation of the ArcGIS Data Interope but a license for this extension is not required.  CAD Support  CAD File Support  Autodesk Drawing Exchange Format (DXF)  AutoCAD Drawing File (DWG)  MicroStation Design Files (DGN, etc.)  Mapping Specification for CAD—Import from CAD  Mapping Specification for CAD—Export to CAD  Direct Read of CAD Data	Basic	• • Standard	Parsion,  Advanced
More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems  These features require the installation of the ArcGIS Data Interope but a license for this extension is not required.  CAD Support  CAD File Support  Autodesk Drawing Exchange Format (DXF)  AutoCAD Drawing File (DWG)  MicroStation Design Files (DGN, etc.)  Mapping Specification for CAD—Import from CAD  Mapping Specification for CAD—Export to CAD  Direct Read of CAD Data  Display CAD Features and Annotation Based on CAD File's Display Properties	Basic • • • • • • • • • • • • • • • • • • •	• • Standard	Advanced
More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems  These features require the installation of the ArcGIS Data Interope but a license for this extension is not required.  CAD Support  CAD File Support  Autodesk Drawing Exchange Format (DXF)  AutoCAD Drawing Files (DGN, etc.)  Mapping Specification for CAD—Import from CAD  Mapping Specification for CAD—Export to CAD  Direct Read of CAD Data  Display CAD Features and Annotation Based on CAD File's Display Properties  Display Block Attributes and Tags as CAD Annotation Features	Basic	• • Standard	Parsion,  Advanced
More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems  These features require the installation of the ArcGIS Data Interoperation but a license for this extension is not required.  CAD Support  CAD File Support  Autodesk Drawing Exchange Format (DXF)  AutoCAD Drawing Files (DGN, etc.)  Mapping Specification for CAD—Import from CAD  Mapping Specification for CAD—Export to CAD  Direct Read of CAD Data  Display CAD Features and Annotation Based on CAD File's Display Properties  Display Block Attributes and Tags as CAD Annotation Features  Display Entire CAD Drawing or Individual CAD Features by	Basic • • • • • • • • • • • • • • • • • • •	• • Standard	Advanced
More than 125 Predefined Vertical Coordinate Systems Ability to Create and Use Custom Coordinate Systems  4 These features require the installation of the ArcGIS Data Interoperation of the ArcGIS Data Data Display CAD Features and Annotation Based on CAD File's Display Properties Display Block Attributes and Tags as CAD Annotation Features Display Entire CAD Drawing or Individual CAD Features by Geometric Type and Definition Query	Basic	• • • • • • • • • • • • • • • • • • •	Advanced
More than 125 Predefined Vertical Coordinate Systems Ability to Create and Use Custom Coordinate Systems  1 These features require the installation of the ArcGIS Data Interope but a license for this extension is not required.  CAD Support  CAD File Support  Autodesk Drawing Exchange Format (DXF)  AutoCAD Drawing File (DWG)  MicroStation Design Files (DGN, etc.)  Mapping Specification for CAD—Import from CAD  Mapping Specification for CAD—Export to CAD  Direct Read of CAD Data  Display CAD Features and Annotation Based on CAD File's Display Properties  Display Block Attributes and Tags as CAD Annotation Features  Display Entire CAD Drawing or Individual CAD Features by Geometric Type and Definition Query  Diveride CAD Symbology with Standard ArcGIS Display Tools	erabiliti	Standard	Page Advanced Advanced
More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems  These features require the installation of the ArcGIS Data Interope but a license for this extension is not required.  CAD Support  CAD File Support  Autodesk Drawing Exchange Format (DXF)  AutoCAD Drawing Files (DGN, etc.)  Mapping Specification for CAD—Import from CAD  Mapping Specification for CAD—Export to CAD  Direct Read of CAD Data  Display CAD Features and Annotation Based on CAD File's Display Properties  Display Block Attributes and Tags as CAD Annotation Features  Display Entire CAD Drawing or Individual CAD Features by Geometric Type and Definition Query  Override CAD Symbology with Standard ArcGIS Display Tools  Control CAD Layer Visibility  Access CAD Entity Properties and Attributes through a CAD	Basic	Standard	Payanced
More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems  These features require the installation of the ArcGIS Data Interope but a license for this extension is not required.  CAD Support  CAD File Support  Autodesk Drawing Exchange Format (DXF)  AutoCAD Drawing Files (DGN, etc.)  Mapping Specification for CAD—Import from CAD  Mapping Specification for CAD—Export to CAD  Direct Read of CAD Data  Display CAD Features and Annotation Based on CAD File's Display Properties  Display Block Attributes and Tags as CAD Annotation Features  Display Entire CAD Drawing or Individual CAD Features by Geometric Type and Definition Query  Override CAD Symbology with Standard ArcGIS Display Tools  Control CAD Layer Visibility  Access CAD Entity Properties and Attributes through a CAD  Feature Attribute Table  Directly Use CAD Data for Display, Query, Analysis, or	Basic Control of the	sty exter	Pdyanced Advanced Adv
More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems <sup>4</sup> These features require the installation of the ArcGIS Data Interopubut a license for this extension is not required.  CAD Support  CAD File Support  Autodesk Drawing Exchange Format (DXF)  AutoCAD Drawing Files (DGN, etc.)  Mapping Specification for CAD—Import from CAD  Mapping Specification for CAD—Export to CAD  Direct Read of CAD Data  Display CAD Features and Annotation Based on CAD File's Display Properties  Display Block Attributes and Tags as CAD Annotation Features  Display Entire CAD Drawing or Individual CAD Features by Geometric Type and Definition Query  Override CAD Symbology with Standard ArcGIS Display Tools  Control CAD Layer Visibility  Access CAD Entity Properties and Attributes through a CAD Feature Attribute Table  Directly Use CAD Data for Display, Query, Analysis, or Geoprocessing	erabilititing SSSS	o ty exter	Pagnanced Advanced
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More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems  4 These features require the installation of the ArcGIS Data Interopubut a license for this extension is not required.  CAD Support  CAD File Support  Autodesk Drawing Exchange Format (DXF)  AutoCAD Drawing Files (DGN, etc.)  Mapping Specification for CAD—Import from CAD  Mapping Specification for CAD—Export to CAD  Direct Read of CAD Data  Display CAD Features and Annotation Based on CAD File's Display Properties  Display Block Attributes and Tags as CAD Annotation Features  Display Entire CAD Drawing or Individual CAD Features by Geometric Type and Definition Query  Override CAD Symbology with Standard ArcGIS Display Tools  Control CAD Layer Visibility  Access CAD Entity Properties and Attributes through a CAD Feature Attribute Table  Directly Use CAD Data for Display, Query, Analysis, or Geoprocessing  Editing with CAD Data  Copy and Paste CAD Features Directly into Other GIS Feature	erabilititing SSS	o ty exter	Pagnanced Advanced
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More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems  These features require the installation of the ArcGIS Data Interope	erabiliti	• • • • • • • • • • • • • • • • • • •	Page Advanced Advanced
More than 125 Predefined Vertical Coordinate Systems  Ability to Create and Use Custom Coordinate Systems  These features require the installation of the ArcGIS Data Interope but a license for this extension is not required.  CAD Support  CAD File Support  Autodesk Drawing Exchange Format (DXF)  AutoCAD Drawing File (DWG)  MicroStation Design Files (DGN, etc.)  Mapping Specification for CAD—Import from CAD  Mapping Specification for CAD—Export to CAD  Direct Read of CAD Data  Display CAD Features and Annotation Based on CAD File's Display Properties  Display Block Attributes and Tags as CAD Annotation Features  Display Entire CAD Drawing or Individual CAD Features by Geometric Type and Definition Query  Override CAD Symbology with Standard ArcGIS Display Tools  Control CAD Layer Visibility  Access CAD Entity Properties and Attributes through a CAD Feature Attribute Table  Directly Use CAD Data for Display, Query, Analysis, or Geoprocessing  Editing with CAD Data  Copy and Paste CAD Features Directly into Other GIS Feature Classes  Snap to CAD Data While Editing	erabiliti	• • • • • • • • • • • • • • • • • • •	Pansion,  Advanced
More than 125 Predefined Vertical Coordinate Systems Ability to Create and Use Custom Coordinate Systems  These features require the installation of the ArcGIS Data Interope but a license for this extension is not required.  CAD Support  CAD File Support  Autodesk Drawing Exchange Format (DXF) AutoCAD Drawing Files (DGN, etc.)  Mapping Specification for CAD—Import from CAD  Mapping Specification for CAD—Export to CAD  Direct Read of CAD Data  Display CAD Features and Annotation Based on CAD File's Display  Properties  Display Block Attributes and Tags as CAD Annotation Features  Display Entire CAD Drawing or Individual CAD Features by  Geometric Type and Definition Query  Diverride CAD Symbology with Standard ArcGIS Display Tools  Control CAD Layer Visibility  Access CAD Entity Properties and Attributes through a CAD  Feature Attribute Table  Directly Use CAD Data for Display, Query, Analysis, or  Geoprocessing  Editing with CAD Data  Copy and Paste CAD Features Directly into Other GIS Feature  Classes  Snap to CAD Data While Editing  CAD Features Save Directly to GIS Feature Classes  Coordinate Systems  Select and Save Coordinate System Definitions with CAD Data	erabiliti	• • • • • • • • • • • • • • • • • • •	Pansion,  Advanced
More than 125 Predefined Vertical Coordinate Systems Ability to Create and Use Custom Coordinate Systems  1 These features require the installation of the ArcGIS Data Interope but a license for this extension is not required.  CAD Support  CAD File Support  Autodesk Drawing Exchange Format (DXF) AutoCAD Drawing File (DWG)  MicroStation Design Files (DGN, etc.)  Mapping Specification for CAD—Import from CAD  Mapping Specification for CAD—Export to CAD  Direct Read of CAD Data  Display CAD Features and Annotation Based on CAD File's Display Properties  Display Block Attributes and Tags as CAD Annotation Features Display Entire CAD Drawing or Individual CAD Features by Geometric Type and Definition Query  Diverride CAD Symbology with Standard ArcGIS Display Tools Control CAD Layer Visibility  Access CAD Entity Properties and Attributes through a CAD Feature Attribute Table  Directly Use CAD Data for Display, Query, Analysis, or Geoprocessing  Editing with CAD Data  Copy and Paste CAD Features Directly into Other GIS Feature  Classes  Sinap to CAD Data While Editing  CAD Features Save Directly to GIS Feature Classes  Coordinate Systems  Select and Save Coordinate System Definitions with CAD Data  Graphically Align CAD Data with Other GIS Data and Store the	erabiliti	sty exter	Pansion,  Pansio
More than 125 Predefined Vertical Coordinate Systems Ability to Create and Use Custom Coordinate Systems  4 These features require the installation of the ArcGIS Data Interope but a license for this extension is not required.  CAD Support  CAD File Support  Autodesk Drawing Exchange Format (DXF) AutoCAD Drawing File (DWG) MicroStation Design Files (DGN, etc.)  Mapping Specification for CAD—Import from CAD  Mapping Specification for CAD—Export to CAD  Direct Read of CAD Data  Display CAD Features and Annotation Based on CAD File's Display Properties  Display Block Attributes and Tags as CAD Annotation Features Display Entire CAD Drawing or Individual CAD Features by Geometric Type and Definition Query  Diverride CAD Symbology with Standard ArcGIS Display Tools  Control CAD Layer Visibility  Access CAD Entity Properties and Attributes through a CAD Feature Attribute Table  Directly Use CAD Data for Display, Query, Analysis, or Geoprocessing  Editing with CAD Data  Copy and Paste CAD Features Directly into Other GIS Feature  Classes  Snap to CAD Data While Editing  CAD Feature Save Directly to GIS Feature Classes	Basic	• • • • • • • • • • • • • • • • • • •	ension,  Page 1 Advanced  One of the control of the

		•	
Centerline			
Corner		•	•
Intersection		•	•
Ends		•	•
Solid		•	•
Raster Snapping Environment			
Available to All Editor Sketch Tools		•	•
Snap to Raster Linear Feature of Specified Width or Less		•	•
Snap to Solids within Specified Diameter		•	•
Ignore Holes in Data While Snapping		•	•
Vectorization Tracing			
•			
Interactively Trace Raster Lines			•
Ignore Holes in Raster Linear Features		•	•
Automatic Vectorization			ı
Vectorize Entire Raster		•	
Vectorize Specific Raster Area			
Simultaneously Capture Line and Polygon Vectors			
Vectorization Parameters			
Vectorize Raster Lines Less than or Equal to Specified Width		•	•
Reduce Vectors (Compression) on Creation		•	•
Smooth Vectors on Creation		•	•
Jump Gaps (Dashes) within Raster			
Use Variable Methods for Resolving Intersections		_	
Save and Load Parameters		•	•
Vectorization Preview			
Use Dynamic Vectorization Preview		•	•
Change Preview Symbology		•	•
Raster Cell Selection			
		_	
Select Foreground or Background Cells		•	•
Select Connected Cells Interactively		•	•
Select Connected Cells by Count		•	•
Select Connected Cells by Diagonal Area		•	•
Raster Cleanup Environment			
•			-
Undo/Redo Raster Cleanup Operations			•
Erase or Fill Selected Cells		•	•
Save Selected Cells to New Raster		•	•
Raster Cleanup Painting Tools			
Brush		•	•
Erase		•	•
Basic Shapes (Line, Square, Ellipse, and Polygon)		_	_
Erase Connected Cells		•	•
Support Tools			
Discover Raster Line Width		•	•
Discover Raster Solid Diameter			
<sup>5</sup> The vectorization functionality is available through ArcScan <sup>®</sup> for Purchased with Basic but is automatically included with the Standlicense levels.	lard ar	nd Adv	/ance
purchased with Basic but is automatically included with the Stand			/ance
purchased with Basic but is automatically included with the Stanc license levels.	lard ar	nd Adv	/ance
purchased with Basic but is automatically included with the Stand license levels.  Mobile  GPS Support	lard ar	nd Adv	/ance
purchased with Basic but is automatically included with the Stand license levels.  Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver	Basic Basic	Standard	Advanced
purchased with Basic but is automatically included with the Stand license levels.  Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point	Basic •	• • Standard	• • Advanced
purchased with Basic but is automatically included with the Stand license levels.  Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver	Basic Basic	Standard	Advanced
purchased with Basic but is automatically included with the Stand license levels.  Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point	Basic •	• • Standard	• • Advanced
purchased with Basic but is automatically included with the Stand license levels.  Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File	Basic	• • Standard	Advanced
purchased with Basic but is automatically included with the Stand license levels.  Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File  Filter by GPS Input by Time, Distance, or Deflection  Tablet PC	Basic	• • Standard	Advanced
purchased with Basic but is automatically included with the Stand license levels.  Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File  Filter by GPS Input by Time, Distance, or Deflection  Tablet PC  Export Ink Markups to ArcMap	Bassic	• • • • • • • • • • • • • • • • • • •	Advanced
Mobile  GPS Support Display Real-Time Location Points from a GPS Receiver Dynamically Center the Map on the Current GPS Point Store GPS Locations in a Log File Filter by GPS Input by Time, Distance, or Deflection  Tablet PC Export Ink Markups to ArcMap Support Windows XP Tablet PC Edition	Basic	Standard why but	Advanced
Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File  Filter by GPS Input by Time, Distance, or Deflection  Tablet PC  Export Ink Markups to ArcMap  Support Windows XP Tablet PC Edition  Edit Features or Graphics with a Stylus	Basic	• • Standard	Advanced
Mobile  GPS Support Display Real-Time Location Points from a GPS Receiver Dynamically Center the Map on the Current GPS Point Store GPS Locations in a Log File Filter by GPS Input by Time, Distance, or Deflection  Tablet PC Export Ink Markups to ArcMap Support Windows XP Tablet PC Edition	Basic	Standard why but	Advanced
Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File  Filter by GPS Input by Time, Distance, or Deflection  Tablet PC  Export Ink Markups to ArcMap  Support Windows XP Tablet PC Edition  Edit Features or Graphics with a Stylus	Basic	Standard Nob Pro	Advanced
Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File  Filter by GPS Input by Time, Distance, or Deflection  Tablet PC  Export Ink Markups to ArcMap  Support Windows XP Tablet PC Edition  Edit Features or Graphics with a Stylus  Use Ink Gestures to Perform Common Mapping Tasks	Basic	Standard Nobel Processing	Advanced
Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File Filter by GPS Input by Time, Distance, or Deflection  Tablet PC  Export Ink Markups to ArcMap  Support Windows XP Tablet PC Edition  Edit Features or Graphics with a Stylus  Use Ink Gestures to Perform Common Mapping Tasks  Annotate the Map with Redlining and Highlighting Tools Find Handwritten Notes within the Map	Basic	Standard	Advanced
Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File Filter by GPS Input by Time, Distance, or Deflection  Tablet PC  Export Ink Markups to ArcMap  Support Windows XP Tablet PC Edition  Edit Features or Graphics with a Stylus  Use Ink Gestures to Perform Common Mapping Tasks  Annotate the Map with Redlining and Highlighting Tools Find Handwritten Notes within the Map  Convert Redlining Handwriting to Text	Basic	Standard	Advanced
Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File  Filter by GPS Input by Time, Distance, or Deflection  Tablet PC  Export Ink Markups to ArcMap  Support Windows XP Tablet PC Edition  Edit Features or Graphics with a Stylus  Use Ink Gestures to Perform Common Mapping Tasks  Annotate the Map with Redlining and Highlighting Tools  Find Handwritten Notes within the Map  Convert Redlining Handwriting to Text  ArcGIS Mobile Support	Basic	Standard	Advanced
Mobile  GPS Support Display Real-Time Location Points from a GPS Receiver Dynamically Center the Map on the Current GPS Point Store GPS Locations in a Log File Filter by GPS Input by Time, Distance, or Deflection  Tablet PC Export Ink Markups to ArcMap Support Windows XP Tablet PC Edition Edit Features or Graphics with a Stylus Use Ink Gestures to Perform Common Mapping Tasks Annotate the Map with Redlining and Highlighting Tools Find Handwritten Notes within the Map Convert Redlining Handwriting to Text  ArcGIS Mobile Support Create Mobile Map	Basic	Standard	Advanced
Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File  Filter by GPS Input by Time, Distance, or Deflection  Tablet PC  Export Ink Markups to ArcMap  Support Windows XP Tablet PC Edition  Edit Features or Graphics with a Stylus  Use Ink Gestures to Perform Common Mapping Tasks  Annotate the Map with Redlining and Highlighting Tools  Find Handwritten Notes within the Map  Convert Redlining Handwriting to Text  ArcGIS Mobile Support	Basic	Standard	Advanced
Mobile  GPS Support Display Real-Time Location Points from a GPS Receiver Dynamically Center the Map on the Current GPS Point Store GPS Locations in a Log File Filter by GPS Input by Time, Distance, or Deflection  Tablet PC Export Ink Markups to ArcMap Support Windows XP Tablet PC Edition Edit Features or Graphics with a Stylus Use Ink Gestures to Perform Common Mapping Tasks Annotate the Map with Redlining and Highlighting Tools Find Handwritten Notes within the Map Convert Redlining Handwriting to Text  ArcGIS Mobile Support Create Mobile Map	Basic	o Standard	Advanced
Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File Filter by GPS Input by Time, Distance, or Deflection  Tablet PC  Export Ink Markups to ArcMap  Support Windows XP Tablet PC Edition  Edit Features or Graphics with a Stylus  Use Ink Gestures to Perform Common Mapping Tasks  Annotate the Map with Redlining and Highlighting Tools Find Handwritten Notes within the Map  Convert Redlining Handwriting to Text  ArcGIS Mobile Support  Create Mobile Map  Synchronize Mobile Cache	Basic	o Standard	Advanced
Mobile  GPS Support Display Real-Time Location Points from a GPS Receiver Dynamically Center the Map on the Current GPS Point Store GPS Locations in a Log File Filter by GPS Input by Time, Distance, or Deflection  Tablet PC Export Ink Markups to ArcMap Support Windows XP Tablet PC Edition Edit Features or Graphics with a Stylus Use Ink Gestures to Perform Common Mapping Tasks Annotate the Map with Redlining and Highlighting Tools Find Handwritten Notes within the Map Convert Redlining Handwriting to Text ArcGIS Mobile Support Create Mobile Map Synchronize Mobile Cache  Multiuser Geodatabase	Basic	o Standard	Advanced
Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File Filter by GPS Input by Time, Distance, or Deflection  Tablet PC  Export Ink Markups to ArcMap  Support Windows XP Tablet PC Edition  Edit Features or Graphics with a Stylus  Use Ink Gestures to Perform Common Mapping Tasks  Annotate the Map with Redlining and Highlighting Tools Find Handwritten Notes within the Map  Convert Redlining Handwriting to Text  ArcGIS Mobile Support  Create Mobile Map  Synchronize Mobile Cache	Basic	Standard	Advanced
Mobile  GPS Support Display Real-Time Location Points from a GPS Receiver Dynamically Center the Map on the Current GPS Point Store GPS Locations in a Log File Filter by GPS Input by Time, Distance, or Deflection  Tablet PC Export Ink Markups to ArcMap Support Windows XP Tablet PC Edition Edit Features or Graphics with a Stylus Use Ink Gestures to Perform Common Mapping Tasks Annotate the Map with Redlining and Highlighting Tools Find Handwritten Notes within the Map Convert Redlining Handwriting to Text  ArcGIS Mobile Support Create Mobile Map Synchronize Mobile Cache  Multiuser Geodatabase Editing	Basic	o Standard	Advanced
Mobile  GPS Support Display Real-Time Location Points from a GPS Receiver Dynamically Center the Map on the Current GPS Point Store GPS Locations in a Log File Filter by GPS Input by Time, Distance, or Deflection  Tablet PC Export Ink Markups to ArcMap Support Windows XP Tablet PC Edition Edit Features or Graphics with a Stylus Use Ink Gestures to Perform Common Mapping Tasks Annotate the Map with Redlining and Highlighting Tools Find Handwritten Notes within the Map Convert Redlining Handwriting to Text  ArcGIS Mobile Support Create Mobile Map Synchronize Mobile Cache  Multiuser Geodatabase Editing General Editing	Basic	o Standard	Advanced
Mobile  GPS Support Display Real-Time Location Points from a GPS Receiver Dynamically Center the Map on the Current GPS Point Store GPS Locations in a Log File Filter by GPS Input by Time, Distance, or Deflection  Tablet PC Export Ink Markups to ArcMap Support Windows XP Tablet PC Edition Edit Features or Graphics with a Stylus Use Ink Gestures to Perform Common Mapping Tasks Annotate the Map with Redlining and Highlighting Tools Find Handwritten Notes within the Map Convert Redlining Handwriting to Text  ArcGIS Mobile Support Create Mobile Map Synchronize Mobile Cache  Multiuser Geodatabase Editing	Basic	o Standard	Advanced
Mobile  GPS Support Display Real-Time Location Points from a GPS Receiver Dynamically Center the Map on the Current GPS Point Store GPS Locations in a Log File Filter by GPS Input by Time, Distance, or Deflection  Tablet PC Export Ink Markups to ArcMap Support Windows XP Tablet PC Edition Edit Features or Graphics with a Stylus Use Ink Gestures to Perform Common Mapping Tasks Annotate the Map with Redlining and Highlighting Tools Find Handwritten Notes within the Map Convert Redlining Handwriting to Text  ArcGIS Mobile Support Create Mobile Map Synchronize Mobile Cache  Multiuser Geodatabase Editing Multiple Editors Can Simultaneously Edit the Same Feature Classes in a Multiuser Geodatabase	Basic	Standard • • • • Standard	Advanced • • • • • • • • • • • • • • • • • • •
Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File  Filter by GPS Input by Time, Distance, or Deflection  Tablet PC  Export Ink Markups to ArcMap  Support Windows XP Tablet PC Edition  Edit Features or Graphics with a Stylus  Use Ink Gestures to Perform Common Mapping Tasks  Annotate the Map with Redlining and Highlighting Tools  Find Handwritten Notes within the Map  Convert Redlining Handwriting to Text  ArcGIS Mobile Support  Create Mobile Map  Synchronize Mobile Cache  Multiuser Geodatabase  Editing  General Editing  Multiple Editors Can Simultaneously Edit the Same Feature	Basic	Standard • • • • Standard	Advanced • • • • • • • • • • • • • • • • • • •
Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File  Filter by GPS Input by Time, Distance, or Deflection  Tablet PC  Export Ink Markups to ArcMap  Support Windows XP Tablet PC Edition  Edit Features or Graphics with a Stylus  Use Ink Gestures to Perform Common Mapping Tasks  Annotate the Map with Redlining and Highlighting Tools  Find Handwritten Notes within the Map  Convert Redlining Handwriting to Text  ArcGIS Mobile Support  Create Mobile Map  Synchronize Mobile Cache  Multiuser Geodatabase  Editing  General Editing  Multiple Editors Can Simultaneously Edit the Same Feature Classes in a Multiuser Geodatabase  Isolate Editing Projects in Separate Versions (Create Version)  Enabling a Variety of Workflows	Basic	Standard • • • • • • • • • • • • • • • • • • •	Advanced • • • • • • • • • • • • • • • • • • •
Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File  Filter by GPS Input by Time, Distance, or Deflection  Tablet PC  Export Ink Markups to ArcMap  Support Windows XP Tablet PC Edition  Edit Features or Graphics with a Stylus  Use Ink Gestures to Perform Common Mapping Tasks  Annotate the Map with Redlining and Highlighting Tools  Find Handwritten Notes within the Map  Convert Redlining Handwriting to Text  ArcGIS Mobile Support  Create Mobile Map  Synchronize Mobile Cache  Multiuser Geodatabase  Editing  Multiple Editors Can Simultaneously Edit the Same Feature Classes in a Multiuser Geodatabase  Isolate Editing Projects in Separate Versions (Create Version) Enabling a Variety of Workflows  Merge Versions (Reconcile and Post)	Basic	Standard • • • • • • • • • • • • • • • • • • •	Advanced • • • • • • • • • • • • • • • • • • •
Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File  Filter by GPS Input by Time, Distance, or Deflection  Tablet PC  Export Ink Markups to ArcMap  Support Windows XP Tablet PC Edition  Edit Features or Graphics with a Stylus  Use Ink Gestures to Perform Common Mapping Tasks  Annotate the Map with Redlining and Highlighting Tools  Find Handwritten Notes within the Map  Convert Redlining Handwriting to Text  ArcGIS Mobile Support  Create Mobile Map  Synchronize Mobile Cache  Multiuser Geodatabase  Editing  General Editing  Multiple Editors Can Simultaneously Edit the Same Feature Classes in a Multiuser Geodatabase  Isolate Editing Projects in Separate Versions (Create Version)  Enabling a Variety of Workflows  Merge Versions (Reconcile and Post)  Manage Conflicts between Editors by Row or Column	Basic	Standard • • • Standard • • • • • • • • • • • • • • • • • • •	Advanced • • • • • • • • • • • • • • • • • • •
Mobile  GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File  Filter by GPS Input by Time, Distance, or Deflection  Tablet PC  Export Ink Markups to ArcMap  Support Windows XP Tablet PC Edition  Edit Features or Graphics with a Stylus  Use Ink Gestures to Perform Common Mapping Tasks  Annotate the Map with Redlining and Highlighting Tools  Find Handwritten Notes within the Map  Convert Redlining Handwriting to Text  ArcGIS Mobile Support  Create Mobile Map  Synchronize Mobile Cache  Multiuser Geodatabase  Editing  Multiple Editors Can Simultaneously Edit the Same Feature Classes in a Multiuser Geodatabase  Isolate Editing Projects in Separate Versions (Create Version) Enabling a Variety of Workflows  Merge Versions (Reconcile and Post)	Basic	Standard • • • • • • • • • • • • • • • • • • •	Advanced • • • • • • • • • • • • • • • • • • •
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**Short Transaction Editing** 

Edit Nonversioned Simple Features

Move, Rotate, Delete, Copy, and Paste	•	•	•			<u>r</u> o	eo
Split a Line at a Distance or Percentage Divide a Line Based on a Distance, a Number of Segments, or a	•	•	•	Multiuser	Basic	Standard	Advanced
Measure Value (M-Coordinate)  Buffer Features	•	•	•	Geodatabase Archiving  Display and Query	B	Ċ	⋖
Copy Lines Parallel to Their Existing Location Merge Existing Features	•	•	•	View the Geodatabase at a Specific Point in Time  Query Archived Data Directly	•	•	•
Create New Features by Merging Features in the Same or Another Layer (Union)	•	•	•	Manage  Enable and Disable Archiving for a Table or Feature Class		•	
Create New Features from the Buffer of Existing Features  Create New Polygons by Intersecting Existing Feature Classes	•	•	•	Enable and Disable Archiving for a Table or Feature Class  Create Saved Views of the Geodatabase at a Specific Point in Time		•	•
Clip One or More Polygons with Another Polygon  Extend and Trim Lines with Other Features in the Map	•	•	•			ard	ced
Attribute Editing  Modify Each Selected Row Individually or as a Group (Attributes				Distributed Geodatabases	Basic	Standar	Advanced
Dialog)  Copy Attributes to One or More Rows Simultaneously	•	•	•	Manage Replicas			
Calculate Attribute Values Using Scripts (Field Calculator)  Calculate Attribute Values from a Feature's Geometric Properties	•	•	•	Create Replicas of Vector and Raster Data Using a Filter  Create and Manage Checkout/Check-in, One-Way, or Two-Way		•	•
(Calculate Geometry)  Validate Attribute Values Using Rules Defining Valid Values	•	•	•	Geodatabase Replicas Synchronize Connected Replicas		•	•
(Domains) Enter Attributes for New Feature as They Are Created	•	•	•	Exchange Edits between Disconnected Replicas with an XML, ZIP, Z, or Geodatabase Delta File		•	•
Edit Attributes in the Attributes or Table Window  Multipart Features (Point, Line, and	•	•	•	Compare Schemas between Replicas  Exchange Schema Changes between Replicas		•	•
Polygon) Add and Delete Parts	•	•	•	Generate a Feature Class Containing the Rectangular Extent of a Replica		•	•
Zoom to Parts  Add, Delete, and Edit Vertex Locations	•	•	•	Disconnected Editing Geoprocessing  Check In		•	•
Create Separate Features from Each Part (Explode)  Map Navigation While Editing	•	•	•	Check Out		0	•
Zoom to Feature Parts	•	•	•	Check In from Delta  Export to Delta		•	•
Pan and Zoom to Unplaced Annotation or the Feature Associated with the Unplaced Annotation	•	•	•	Distributed Geodatabases Geoprocessing  Add Global IDs		•	•
Continuous Pan/Zoom  Vector Data Transformations	•	•	•	Compare Replica Schema		•	•
Rubber Sheeting Transformation	•	•	•	Create Replica from Server		•	•
Affine Transformation Similarity Transformation	•	•	•	Create Replica Footprints  Export Acknowledgment Message		•	•
Projective Transformation  Edgematching Transformation	•	•	•	Export Data Change Message  Export Replica Schema		•	•
Transfer Accurate Attributes from Features with Inaccurate Geometry to Features with Accurate Geometry (Conflation)	•	•	•	Import Message		•	•
Copy Feature Geometry from One Location/Layer to a New Location/Layer	•	•	•	Import Replica Schema  Reexport Unacknowledged Messages		•	•
Generalization Smooth Line Features	•	•	•	Synchronize Changes		•	•
Simplify the Shape of Line Features (Generalize)  Coordinate Geometry	•	•	•			dard	Advanced
Automatically Modify Field Measures to the GIS (Ground to Grid) with Interactive Tools or by Specifying an Offset and Scale		•	•	Spatial Referencing Image Data (Georeferencing) <sup>6</sup>	Basic	Standar	Adva
Create Fields to Store Coordinate Geometry (COGO) Measurements Add New Features by Specifying Courses along a Traverse		•	•	Tools			
Create Two-Point Line Features with a Variety of Curve and Straight-Line Construction Methods		•	•	Shift, Flip, Rotate, or Fit Image to Display  Interactively Specify From and To Control Points	•	•	•
Create New Lines from a Strip Description (Offset Line)  Construct Symmetrical or Asymmetrical Cul-de-Sacs from a Street		•	•	Save and Load Control Points with Error and Accuracy Information  Transformation Methods	•	•	•
Centerline  Split a Line at Specific Intervals (Proportion)		•	•	First-, Second-, and Third-Order Polynomial	•	•	•
Merge Multiple Straight Lines into a Single Two-Point Line with Updated COGO Attributes		•	•	Adjust Spline	•	•	•
Populate COGO Measurements from the Geometry of a Feature (Inverse)  Examine COGO Characteristics of Existing Features (COGO Report)		•	•	Save Spatial Reference Information Create a New Dataset (Rectify)	•	•	•
Examine COGO Characteristics of Existing Features (COGO Report)  Calculate All Missing Measurements of a Curve from Any Two  Measurements		•	•	Save Reference Information with the Image	• nuires t	•	• nda
Compare Measured Polygon Area with Legal Polygon Area (COGO Area)		•	•	<sup>6</sup> Spatial referencing of rasters stored in an ArcSDE® workspace red Advanced license level.	<sub>H</sub> uires t	ıе Sta	ııdar
Split Existing Lines into COGO Lines  Parcel Editing		٠	•				
Create Parcel Fabric Features Perform Least-Squares Adjustment of Parcel Fabric Features		•	•	Data Management and V	alic	lat	tic
refrorm Least-squares Adjustment of Parcel Fabric Features  Adjust Associated Layers		•	•				
		ard	peou	Data Management	Basic	Standard	Advanced
Raster Editing and Vectorization <sup>5</sup>	Basic	Standard	Advanced	General		0,	
Vectorize All Raster Formats Supported in ArcGIS				Manage GIS Data and All Associated Files from a Single Tree View Application (ArcCatalog™)	•	•	•
1-Bit Raster Data 8-Bit Raster Data (with Bilevel Classification Applied)		•	•	Manage GIS Data and All Associated Files from the Catalog Window in ArcMap  Manage Raster Datasets and Raster Catalogs in a Personal	•	•	•
ArcGIS Integration				Geodatabase  Create Single-User (Personal or File) Geodatabase Feature Classes	•	•	•
Vectorization into Any Editable Vector Dataset  Seamless Integration with Vector Data Editing Environment		•	•	Create Shapefiles	•	•	•
Raster Snapping Geometry Centerline		•	•	Administer ArcGIS for Server  Connect to Multiuser Geodatabases Using Operating System or Database Authentication	•	•	•
Corner Intersection		•	•	Search for GIS Data By			
Ends Solid		•	•	Name Type	•	•	•
Raster Snapping Environment				Path Keyword Tag	•	•	•
Available to All Editor Sketch Tools Snap to Raster Linear Feature of Specified Width or Less		•	•	Manage Coverage Data			
Snap to Solids within Specified Diameter  Ignore Holes in Data While Snapping		•	•	Add/Modify Tic Locations  Set Coordinate System		•	•
Vectorization Tracing Interactively Trace Raster Lines		•	•	Change the Data Extent  Create Coverage Relationship Classes		•	•
Ignore Holes in Raster Linear Features  Automatic Vectorization		•	•	Create a New Coverage		•	•
Vectorize Entire Raster		•	•	Create a New INFO File  Modify Coverage Tolerances		•	•
Vectorize Specific Raster Area Simultaneously Capture Line and Polygon Vectors		•	•	Geodatabase Administration  Create and Load Vector and Raster Data into a Multiuser		•	
Vectorization Parameters Vectorize Raster Lines Less than or Equal to Specified Width		•	•	Geodatabase  Create Tables/Feature Classes That Store Custom Objects/		•	
Reduce Vectors (Compression) on Creation Smooth Vectors on Creation		•	•	Features Update RDBMS Statistics for GIS Data		•	•
Jump Gaps (Dashes) within Raster Use Variable Methods for Resolving Intersections		•	•	Geodatabase XML File Import/Export  Export and Import XML (Binary or Normalized)		•	•
Save and Load Parameters		•	•	ZIP (Compressed Text File with 4 GB File Size Limit)		•	•
Vectorization Preview Use Dynamic Vectorization Preview		•	•	Z (Compressed Text File with No File Size Limit)		•	•
Change Preview Symbology  Raster Cell Selection		•	•		. <u>.</u>	Standard	Advenced
Select Foreground or Background Cells Select Connected Cells Interactively		•	•	Attribute Validation	Basic	Sta	Δd
Select Connected Cells by Count		•	•	Subtypes Geoprocessing Add Subtype	•	•	•
Select Connected Cells by Diagonal Area  Raster Cleanup Environment		•	•	Remove Subtype Set Default Subtype	•	•	•
Undo/Redo Raster Cleanup Operations Erase or Fill Selected Cells		•	•	Set Subtype Field	•	•	•
Save Selected Cells to New Raster  Raster Cleanup Painting Tools		•	•	<b>Domains Geoprocessing</b> Add Coded Value to Domain	•	•	•
Brush Erase		•	•	Assign Domain to Field  Create Domain	•	•	•
Basic Shapes (Line, Square, Ellipse, and Polygon)		•	•	Delete Coded Value from Domain	•	•	•
Erase Connected Cells  Support Tools		•	•	Delete Domain  Domain to Table	•	•	•
Discover Raster Line Width Discover Raster Solid Diameter		•	•	Remove Domain from Field  Set Value for Range Domain	•	•	•
<sup>5</sup> The vectorization functionality is available through ArcScan <sup>™</sup> for purchased with Basic but is automatically included with the Stanilicense levels.				Table to Domain  Create and Edit Relationships for Features	•	•	•
		rd	bes	One-to-One		•	•
Mobile		70	Advanced	One-to-Many  Many-to-Many		•	•
	asic	tand	⋖	Specify Cardinality Rules for Relationships  Store Attributes for Relationships		•	•
GPS Support	Basic	Standard		Enable Attachments for a Feature Class (Multimedia Support)  Create and Edit Attachments for a Feature Class		•	•
GPS Support Display Real-Time Location Points from a GPS Receiver	• • Basic	• • Stand	•	Geodatabase Relationship Behavior			Ĺ
GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File	•	•		Moving a Feature Moves the Related Feature  Deleting One Feature Deletes the Related Feature			
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GPS Support  Display Real-Time Location Points from a GPS Receiver  Dynamically Center the Map on the Current GPS Point  Store GPS Locations in a Log File Filter by GPS Input by Time, Distance, or Deflection  Tablet PC  Export Ink Markups to ArcMap  Support Windows XP Tablet PC Edition  Edit Features or Graphics with a Stylus  Use Ink Gestures to Perform Common Mapping Tasks  Annotate the Map with Redlining and Highlighting Tools  Find Handwritten Notes within the Map  Convert Redlining Handwriting to Text  ArcGIS Mobile Support  Create Mobile Map  Synchronize Mobile Cache  Multiuser Geodatabase  Editing  General Editing  Multiple Editors Can Simultaneously Edit the Same Feature  Classes in a Multiuser Geodatabase  Isolate Editing Projects in Separate Versions (Create Version)  Enabling a Variety of Workflows  Merge Versions (Reconcile and Post)  Manage Conflicts between Editors by Row or Column  Manage Conflicts between Editors Interactively or Automatically  Delete Versions  Simultaneously View and Edit Versioned GIS Data in ArcGIS and Non-ArcGIS Applications  Administration Geoprocessing  Modify Data Privileges for Data in a Multiuser Geodatabase  Migrate Storage  Register SDE* Data with the Geodatabase  Clean Up Versioning Tables (Compress)  Add and Remove Tables and Feature Class from the Versioning		Standard	• • • • • • • • • • • • • • • • • • •	Topology  Map Display  Display a Summary of the Errors and Exceptions in the Topology  Display the Feature Classes and Rules in the Topology  Display Errors, Exceptions, and Dirty Areas in the Map  Editing  Construct and Edit Topologies Created from Layers in the Map  Move Topological Edges and Nodes  Show or Select Adjacent or Connected Features  Reshape Shared Edges between Features  Modify the Coordinates of Shared Edges or Nodes  Split Shared Edges at a Specific Point, Distance, or Percentage along the Edge  Move Edges and Nodes to a Specific Location  Shift Edges and Nodes Based on an Offset from Their Current Location  Merge Connected Edges  Control Which Adjacent or Connected Features Move When a Shared Edge or Node Is Moved  Create/Split Polygons from Lines or Create Lines from Polygons  Split Lines Where They Intersect  Validate a Specific Area or the Entire Topology  Search for Errors of a Specific Type within One Area or the Entire Topology	• • • 7 • 7 • 7 • 7 • 7 • 7 • 7 • 7	Standard • • • • • • • • • • • • • • • • • • •	
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Multiuser Geodatabase

Create Features and Enter Attributes for That Feature within a

Editing (continued)

Topology (continued)	Basic	• Standard	Advanced
Explode Features Simplify Features		•	•
Geodatabase Topology Management  Create and Manage Geodatabase Topology		•	•
Specify a Hierarchy for Vertex Snapping during Topology Creation  Geodatabase Topology Rules		•	•
Polygons Contain Points Polygon Contains One Point		•	•
Polygons Must Not Overlap Polygons Must Not Have Gaps		•	•
Polygons Must Not Overlap with Polygons in Another Feature Class		•	•
Polygons Must Be Covered by One Polygon in Another Feature Class Polygons Must be Covered by One or More Polygons in Another Feature Class		•	•
Polygons from Two Feature Classes Must Cover Each Other		•	•
Polygon Boundaries Must Be Covered by Lines of Another Feature Class  Polygon Boundaries Must Be Covered by the Boundaries of		•	•
Polygons in Another Feature Class  Lines Must Not Overlap		•	•
Lines Must Be Inside Lines Must Be Single Part		•	•
Lines Must Not Self-Overlap		•	•
Lines Must Not Overlap with Lines in Another Feature Class  Lines Must Not Have Dangles		•	•
Lines Must Not Have Pseudonodes Lines Must Not Intersect		•	•
Lines Must Not Intersect With Lines Must Not Self-Intersect		•	•
Line Endpoints Must Be Covered by Points of Another Feature Class Lines Must Be Covered by Polygon Boundaries of Another Feature		•	•
Class  Lines Must Not Intersect or Touch Interior With		•	•
Lines Must Be Covered by Lines of Another Feature Class		•	•
Points Must Be Coincident With  Points Must Be Covered by Lines of Another Feature Class		•	•
Points Must Be Disjoint Points Must Be Inside Polygons		•	•
Points Must Be Covered by the Endpoints of Lines Points Must Be Covered by the Boundary of Polygons of Another		•	•
Feature Class  Geoprocessing		•	۰
Add Feature Class to Topology		•	•
Add Rule to Topology  Create Topology		•	•
Remove Feature Class from Topology Remove Rule from Topology		•	•
Set Cluster Tolerance Validate Topology		•	•
7 Only available with Simple Features in map-based topologies.		lard	
Networks	Basic	Standard	Adva
Utility (Geometric) Network Analysis	•	•	•
Trace Downstream	•	•	•
Find Connected Network Features	•	•	•
Find Loops in Network Find Disconnected Network Features	•	•	•
Find Path	•	•	•
Find Shortest Path Using Weighting Find Path Upstream	•	•	•
Find Upstream Accumulation  Isolate a Point on the Network	•	•	•
Data Management			
Create and Manage Utility Networks  Create Complex Edge Features That Maintain Connectivity without Splitting the Feature		•	•
Geometric Network Connectivity Rules			
Edge—Junction Edge—Edge via Junction		•	•
Geometric Network Editing		•	
Connect and Disconnect Network Features  Enable and Disable Network Features		•	•
Set Flow Direction for a Network  Verify, Repair, and Rebuild Connectivity in a Network		•	•
Verify the Geometry of Network Features Review and Repair Network Creation Errors		•	•
	sasic	tandard	Advanced
Linear Referencing (Routes)  Display  Find and Display Dynamic Segmentation Events (Point, Linear, and Continuous) on Routes	•	S	•
E 1111			-
Editing Interactively Modify M-Coordinate Values	•	•	•
Interactively Modify M-Coordinate Values Interactively Drop M-Coordinates	•	•	•
Interactively Modify M-Coordinate Values Interactively Drop M-Coordinates Create Routes for Selected Lines Using the Length of the Features, a Field Value, or Specific From and To Measures			_
Interactively Modify M-Coordinate Values Interactively Drop M-Coordinates Create Routes for Selected Lines Using the Length of the Features,	•	•	•
Interactively Modify M-Coordinate Values Interactively Drop M-Coordinates Create Routes for Selected Lines Using the Length of the Features, a Field Value, or Specific From and To Measures Edit a Portion of a Line without Affecting the Measures on the Rest of the Line Adjust One Route Using Points along the Routes (Calibrate) Calculate Measures Using From and To Measures for a Line	•	•	•
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Advanced TIGER Conversion

Basic TIGER Conversion

Import from DLG

Standard	• Advanced	Coverage Geoprocessing (continued Import from SS7	Basic	Standard	Advanced	Geoprocessing (continued)  Delete Color Map	• Basic	Standard
•	•	Import from SDTS Import from VPF			•	Delete Raster Attribute Table  Delete Raster Catalog Items	•	•
•	•	Aggregation Append Composite Features			•	Export Raster Catalog Paths  Export Raster World File  Extract Subdataset	•	•
•	•	Line Coverage to Region Line Coverage to Route			•	Repair Raster Catalog Paths  Get Cell Value  Get Raster Properties	•	•
•	•	Polygon Coverage to Region Region to Polygon Coverage  Generalization			•	Mosaic (with Optional Color Balancing)  Mosaic to New Raster	•	•
•	•	Aggregate Polygons Simplify Building			•	Raster Catalog to Raster Dataset Raster to DTED	•	•
•	•	Collapse Dual Lines to Centerline Dissolve			•	Resample  Split Raster  Workspace to Raster Catalog	•	•
•	•	Eliminate Find Conflicts Simplify Line or Polygon			•	Workspace to Raster Dataset (with Optional Color Balancing)  Create Random Raster	•	•
•	•	Table Management Drop Index			•	Raster Mosaics Add Rasters to Mosaic Dataset		•
•	•	Index Item Add Item			•	Build Boundary  Build Footprints  Build Overviews		•
•	•	Drop Item Join Info Tables Add X,Y Coordinates			•	Build Seamlines Calculate Cell Size Ranges		•
•	•	Renumber Nodes Update IDs			•	Color Balance Mosaic Dataset  Compute Dirty Area  Create Mosaic Dataset		•
•	•	Projections Define Projection			•	Create Referenced Mosaic Dataset  Define Mosaic Dataset NoData		•
•	•	Project Transform Topology			•	Define Overviews  Generate Exclude Area		•
•	•	Build Clean			•	Import Mosaic Dataset Geometry  Remove Rasters from Mosaic Dataset  Synchronize Mosaic Dataset		•
•	•	Create Labels  VPF File Topology  General			•	Raster Conversion ASCII to Raster	•	•
•	•	Create Coverage Tolerance			•	DEM to Raster  Feature to Raster  Float to Raster	•	•
•	•			ard	ced	Raster to ASCII	•	•
•	•	Geoprocessing	Basic	Standard	Advanced		•	•
•	•	Environment  String Together Geoprocessing Tools Using a Visual Modeling Environment (ModelBuilder")	•	•	•	Raster to Polygon  Raster to Polyline  Raster to Video	•	•
•	٠	Use Python Window to Run Geoprocessing Tools Use Toolboxes Tree in ArcCatalog or Catalog Window	•	•	•	Point to Raster Polygon to Raster		
ard	nced	Use ArcToolbox* Window Use Search Window to Find Tools Use My Toolboxes Geoprocessing Tool View	•	•	•	Polyline to Raster  Raster Transformation/Projection		
Standard	Advanced	Use My Toolboxes Geoprocessing Tool View  Create and Share New Geoprocessing Tools Using Models or Scripts  Save Tools in a Geodatabase or on the File System	•	•	•	Flip Mirror Project Raster (Single Input)	•	•
•	•	Display the Results and Intermediate Data from a Model in a Map Using Tool Layers	•	•	•	Rescale Rotate	•	•
•	•	Execute Tools, Models, and Scripts Multiple Times with Different Inputs in One Operation (Batch Processing)  Build Looping Models Using Model Iterators	•	•	•	Shift Warp	•	•
•	•	Supported Scripting Environments C++	•	•	٠	Conversion Feature Class to Feature Class	•	•
•	0	JavaScript Perl Python 2.6	•	•	•	Feature Class to Geodatabase (Multiple)  Feature Class to Shapefile (Multiple)  Import CAD Annotation to Geodatabase	•	•
•	•	Visual Basic for Applications (VBA) <sup>8</sup> VBScript	•	•	•	Import Coverage Annotation to Geodatabase Import from CAD to Geodatabase	•	•
•	•	Visual Studio .NET  General Data Management	•	•	•	Raster to Geodatabase (Multiple)  Table to dBASE (Multiple)	•	•
•	•	Append Copy	•	•	•	Table to Geodatabase (Multiple)  Table to Table  Add CAD Fields	•	•
•	•	Delete Merge Merge Branch	•	•	•	Create CAD XData Export to CAD	•	•
•	•	Rename Select Data	•	•	•	Import from E00 KML to Layer	•	•
•	•	Calculate Value Sort	•	•	•	Layer to KML  Map to KML  Multipatch to Collaborative Design Activity (COLLADA)	•	•
•	•	Delete Identical Find Identical			•	WFS to Feature Class Feature Class to Coverage		•
•	•	Data Comparison Feature Compare File Compare	•	•	•	Layers and Table Views Apply Symbology from Layer	•	•
Standard	Advanced	Raster Compare Table Compare	•	•	•	Make Feature Layer  Make Image Server Layer  Make Mosaic Layer	•	•
Sta	Ad	TIN Compare  Table Management	•	•	•	Make Query Table  Make Raster Catalog Layer	•	•
•	•	Copy Rows  Create Table  Delete Rows	•	•	•	Make Raster Layer  Make Table View	•	•
•	•	Get Count Analyze	•	•	•	Make WCS Layer  Make X,Y Event Layer  Sayer to Layer File	•	•
•	•	Pivot Table  Editing			•	Save to Layer File  Select Layer by Attribute  Select Layer by Location	•	•
•	•	Densify  Erase Point  Extend Line		•	•	Packaging Consolidate Layer	•	•
•	•	Extend Line Flip Line Generalize		•	•	Consolidate Map  Extract Package	•	•
•	•	Snap Trim Line		•	•	Package Layer Package Map Share Package	•	•
•	•	Field Management Add Field	•	•	•	Parcel Fabric Tools  Make Parcel Fabric Layer	•	•
•	•	Assign Default to Field  Calculate End Time  Calculate Field	•	•	•	Make Parcel Fabric Table View  Load a Topology to a Parcel Fabric	•	•
•	•	Convert Time Field  Delete Field	•	•	•	Upgrade Parcel Fabric  Core Analysis  Buffer		•
•	•	Transpose Fields  Feature Class Management	•	•	•	Clip Intersect	•	•
•	•	Append Annotation Feature Classes  Calculate Default Cluster (XY) Tolerance  Calculate Default Spatial Grid Index	•	•	•	Multiple Ring Buffer Select	•	•
•	•	Create Feature Classes Create Fishnet	•	•	•	Spatial Join Summary Statistics Table Select	•	•
Standard	Advanced	Integrate Update Annotation Feature Classes	•	•	•	Union Create Thiessen Polygons	•	•
		Create Random Points  Feature Management  Add X,Y Coordinates		•	.8	Frequency		
•	•	Adjust 3D Z  Bearing Distance to Line	•	•	•	Identity  Near  Generate Near Table		
•	•	Check Geometry Copy Features	•	•	•	Point Distance Split		
•	•	Delete Features  Multipart to Single Part  Repair Geometry	•	•	•	Symmetrical Difference  Update  Spatial Statistics Tools—Analyzing		
•	•	Repair Geometry Points to Line Table to Ellipse	•	•	•	Spatial Statistics Tools—Analyzing Patterns  Average Nearest Neighbor	•	•
•	•	XY to Line Dice	•	•	•	High/Low Clustering (Getis_Ord General G)  Multidistance Spatial Cluster Analysis (Ripley's K Function)  Spatial Autocorrelation (Moran's I)	•	•
•	•	Minimum Bounding Geometry  Feature Envelope to Polygon  Feature to Line			•	Spatial Statistics Tools—Mapping Clusters Cluster/Outlier Analysis	•	•
•	•	Feature to Point Feature to Polygon			•	(Anselin Local Moran's I)  Hot Spot Analysis (Getis_Ord Gi*)	•	•
•	0	Feature Vertices to Points Polygon to Line			•	Spatial Statistics Tools—Measuring Geographic Distributions Central Feature	•	•
•	0	Split Line at Point  Split Line at Vertices  Unsplit Line			•	Directional Distribution (Standard Deviational Ellipse) Linear Directional Mean Mean Center	•	•
•	0	Unspirt Line  File Geodatabase  Compress File Geodatabase Data	•	•		Mean Center  Median Center  Standard Distance	•	•
•	•	Uncompress File Geodatabase Data  Generalization	•	•	•	Spatial Statistics Tools—Modeling Spatial Relationships		
		Dissolve Simplify Line (Cartography)	•	•	•	Generate Spatial Weights Matrix Ordinary Least Squares Regression Generate Network Spatial Weights	•	•
	sis	Smooth Line (Cartography)  Smooth Polygon (Cartography)  Aggregate Polygons (Cartography)		•	•	Generate Network Spatial Weights Geographically Weighted Regression Spatial Statistics Tools—Rendering		
Standard	Advanced	Aggregate Polygons (Cartography)  Aggregate Points (Cartography)  Collapse Dual Lines to Centerline (Cartography)			•	Cluster/Outlier Analysis with Rendering Collect Events with Rendering	•	•
Sţ	₹	Eliminate Eliminate Polygon Part			•	Count Rendering Hot Spot Analysis with Rendering Z-Score Rendering	•	•
	•	Merge Divided Roads (Cartography)  Simplify Building (Cartography)  Simplify Polygon (Cartography)			•	Z-Score Rendering  Spatial Statistics Tools—Utilities  Calculate Areas	•	•
	•	Simplify Polygon (Cartography)  Thin Road Network (Cartography)  Projections and Transformations			•	Calculate Aleas  Calculate Distance Band from Neighbor Count  Collect Events	•	•
	•	Convert Coordinate Notation  Create Custom Geographic Transformation	•	•	•	Convert Spatial Weights Matrix to Table Export Feature Attribute to ASCII	•	•
	•	Create Spatial Reference Define Projection (Single Input)	•	•	•	Multidimensional Tools  Feature to netCDF  Make netCDF Feature Layer	•	•
	•	Vector Data Projection  Batch Project  Project	•	•	•	Make netCDF Feature Layer  Make netCDF Raster Layer  Make netCDF Table View	•	•
	•	Raster Management Add Color Map	•	•	•	Raster to netCDF Select by Dimension	•	•
	•	Batch Build Pyramids Batch Calculate Statistics	•	•	•	Table to netCDF  Workspace Management  Create Feature Dataset	•	•
	•	Build Pyramids Build Pyramids and Statistics Build Raster Attribute Table	•	•	•	Create Feature Dataset  Create File Geodatabase  Create Folder	•	•
	0	Build Raster Attribute Table  Calculate Statistics  Clip	•	•	•	Create Personal Geodatabase Create ArcInfo Workspace	•	•
	•	Composite Bands Copy Raster	•	•	•	Database Management Clear Workspace Cache Compact	•	•
	•	Copy Raster Catalog Items  Create Orthocorrected Raster Dataset  Create Pan-Shamened Raster Dataset	•	•	•	Compact Upgrade Geodatabase Upgrade Spatial Reference	•	•
	•	Create Pan-Sharpened Raster Dataset  Create Raster Catalog	•	•	•	Change Privileges		•

	sic	Standard	Advanced		Sic	Standard	Advanced
ocessing (continued)	• Basic	• Stal	• Adv	Geoprocessing (continued) Table Joins	Basic	Sta	Adv
Attribute Table Catalog Items	•	•	•	Add Join Remove Join	•	•	•
Catalog Paths World File	•	•	•	Data Indexing Add Attribute Index	•	•	•
taset Catalog Paths	•	•	•	Add Spatial Index Remove Attribute Index	•	•	•
perties	•	•	•	Remove Spatial Index  ArcGIS Server Management	•	•	•
Optional Color Balancing) v Raster u to Raster Dataset	•	•	•	Delete Map Server Cache  Generate Globe Server Cache  Generate Map Server Cache	•	•	•
)	•	•	•	Generate Map Server Cache Tiling Scheme  Update Map Server Cache	•	•	•
Raster Catalog	•	•	•	8 VBA support requires a separate installation and authorization fr 9 Also available to Basic or Standard license level users who have t			
Raster Dataset (with Optional Color Balancing) n Raster	•	•	• 9	or ArcGIS 3D Analyst" extension.  10 Also available to Basic or Standard license level users who have t Analyst extension.	ne Arc	GIS Ne	tworl
osaics Mosaic Dataset		•	•	<sup>11</sup> Also available to Basic or Standard license level users who have t or ArcGIS Geostatistical Analyst extension.	ne Arc	GIS Sp	atial /
y ts		•	•				
vs es Size Ranges		•	•	Data			
Mosaic Dataset  / Area		•	•		. <u>.</u>	Standard	Advanced
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Dataset Geometry		•	•	Bing Maps Road DeLorme World Basemap	•	•	•
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r	•	•	•	USA Congressional Districts USA Federal Lands	•	•	•
ter	•	•	•	USA Population by ZIP Code  USA Public Land Survey System (PLSS)  USA State Plane Zones	•	•	•
1	•	•	•	USA Topographic Maps USA ZIP Code Boundaries	•	•	•
r Format (Multiple) t	•	•	•	World Boundaries and Places World Boundaries and Places Alternate	•	•	•
ine	•	•	•	World Country Boundaries World Georeference Lines	•	•	•
r ster			•9	World Imagery World Physical Map	•	•	•
ansformation/Projection			•9	World Reference Overlay World Shaded Relief	•	•	•
·	•	•	•	World Street Map World Terrain Database World Topographic Map	•	•	•
(Single Input)	•	•	•	World Transportation  World User Imagery	•	•	•
	•	•	•	World User Imagery World UTM Grid	•	•	•
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to Feature Class to Geodatabase (Multiple) to Shapefile (Multiple)	•	•	•	Data and Maps for ArcGIS	Basic	Standard	Advanced
nnotation to Geodatabase ge Annotation to Geodatabase	•	•	•	World Administrative Units and Boundaries	•	•	•
AD to Geodatabase database (Multiple)	•	•	•	Census IPC Demographics (table) Cities and Gazetteer	•	•	•
E (Multiple) atabase (Multiple)	•	•	•	Countries 2008 Countries (generalized)	•	•	•
İs	•	•	•	Country Boundaries Country Boundaries (generalized)	•	•	•
Data	•	•	•	Country Memberships of Political Organizations (table)  Drainage Systems	•	•	•
00	•	•	•	Lakes and Rivers  Latitude and Longitude Grids  Named Latitudes and Longitudes	•	•	•
Collaborative Design Activity (COLLADA)	•	•	•	Regions and Continents  UTM Zones and Time Zones	•	•	•
e Class to Coverage		•	•	World Map Background World Wildlife Fund Terrestrial and Marine Ecoregions	•	•	•
d Table Views ogy from Layer	•	•	•	<b>Europe</b> Europe Basemap	•	•	•
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yer nt Layer	•	•	•	Railroads and Railroad Stations  Europe Demographics  NUTS 0 to NUTS 2 Demographics	•	•	•
rite / Attribute	•	•	•	NUTS 0 to NUTS 3 Demographics  Mexico  Contours	•	•	•
y Location <b>9</b>	•	•	•	Roads and Railroads States, Cities, and Municipalities	•	•	•
ayer	•	•	•	Urban Areas Water Bodies, Rivers, and Streams	•	•	•
ge	•	•	•	Image Data Global Digital Elevation Model (SRTM, ETOPO2, GTOPO30)	•	•	•
	•	•	•	Global Shaded Relief	•	•	•
bric Tools abric Layer abric Table View	•	•	•	World at Night World Cloud Free	•	•	•
gy to a Parcel Fabric		•	•	World with Clouds  World with Ice	•	•	•
lysis	•	•	•	WorldSat Color Shaded Relief World Topography and Bathymetry United States	•	•	•
	•	•	•	109th Congressional Districts and 110th Congressional Districts  Airports	•	•	•
Buffer	•	•	•	Census Block Centroid Populations  Census Feature Class Codes (table)	•	•	•
stics	•	•	•	Census Tracts and Census Block Groups Census Urbanized Areas	•	•	•
n Polygans	•	•	•	Cities  Core Based Statistical Areas	•	•	•
n Polygons			•	Counties Counties (generalized)	•	•	•
			•	County Boundaries  County Population Estimates 1990 (table) and 2000 (table)  Drainage Systems (generalized)	•	•	•
Table			•	Drainage Systems (generalized)  GNIS Cultural Points  Buildings	•	•	•
ifference			•	Cemeteries Churches	•	•	•
atistics Tools—Analyzing			•	Golf Locales Hospitals	•	•	•
est Neighbor tering (Getis_Ord General G)	•	•	•	Locales Populated Places and Schools	•	•	•
Spatial Cluster Analysis (Ripley's K Function)  orrelation (Moran's I)	•	•	•	Summits Hospitals	•	•	•
ratistics Tools—Mapping Clusters Analysis Moran's I)	•	•	•	Institutions  Lakes and Rivers (generalized)  Maior Parks	•	•	•
Moran's I)  ysis (Getis_Ord Gi*)  :atistics Tools—Measuring	•	•	•	Major Parks  Major Roads, Major Highways, and Highways  National Atlas of the United States	•	•	•
hic Distributions	•	•	•	Airports, Cities, and Urbanized Areas Federal and Indian Land Areas	•	•	•
stribution (Standard Deviational Ellipse) unal Mean	•	•	•	Federal Land Lines Historic Earthquakes	•	•	•
T surre	•	•	•	Public Land Survey Volcanoes	•	•	•
ance :atistics Tools—Modeling Spatial hips	•	•	•	Water Feature Areas National Transportation Atlas	•	•	•
ial Weights Matrix Squares Regression	•	•	•	Interstate Highways Railroads Parks. Recreation Areas. and Large Area Landmarks	•	•	•
vork Spatial Weights y Weighted Regression			<b>●</b> 10	Parks, Recreation Areas, and Large Area Landmarks  Populated Place Points and Areas  Rivers and Streams	•	•	•
eatistics Tools—Rendering  Analysis with Rendering	•	•	•	State Boundaries State Plane Zones for NAD 1927 and NAD 1983	•	•	•
with Rendering ng	•	•	•	States States (generalized)	•	•	•
ring ::atistics Tools—Utilities	•	•	•	Telephone Area Code Boundaries Transportation Terminals	•	•	•
eatistics Tools—Utilities  ance Band from Neighbor Count	•	•	•	USGS Topographic Quadrangle Series Indexes 1:24,000	•	•	•
al Weights Matrix to Table	•	•	•	1:100,000 1:250,000 Water Bodies	•	•	•
e Attribute to ASCII ensional Tools	•	•	•	Water Bodies  ZIP Code Points and ZIP Code Areas (three digit and five digit)  StreetMap North America	•	•	•
CDF Feature Layer	•	•	•	Airports  City Points and City Areas	•	•	•
Raster Layer Table View	•	•	•	Detailed Streets and Major Roads Highways, Interstate Highways, and Railroads	•	•	•
DF ension DF	•	•	•	Institutions Lakes, Rivers, and Water Bodies	•	•	•
or Management  Dataset	•	•	•	Major Cities Parks, Recreation Areas, and Large Area Landmarks	•	•	•
odatabase	•	•	•	Retail Centers  State and Province Boundaries	•	•	•
al Geodatabase Workspace	•	•	•	States and Provinces  Transportation Terminals  US Counties and County Roundaries	•	•	•
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al Reference ges	•	•	•	esri	9		

ArcGIS for Desktop allows you to analyze your data and author geographic knowledge to examine relationships; test predictions; and, ultimately, make better decisions. It is available in three license levels—Basic, Standard, and Advanced (formerly ArcView, ArcEditor, and ArcInfo, respectively). These license levels have the same integrated applications, user interfaces, and development environment.

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