

ArcWebSM Services API Matrix[†]

	APIs						Portal www.arcwebservices.com
	SOAP	REST	OpenLS	J2ME Mobile Toolkit	JavaScript™	Flex	
Mapping							
Set center and scale of map.	X	X	X	X	X	X	
Recenter or pan the map.	X	X	X	X	X	X	
Turn on and off layers.	X	X	X		X	X	
Create maps with polygons, polylines, and points.	X	X	X		X	X	
Get latitude-longitude, center, and extent of map.	X	X			X	X	
Create maps of the minimum extent that include all circles, polygons, lines, and markers.	X					X	
Create thematic maps based on ESRI® data.	X				X	X	
Create thematic maps based on user data.	X					X	
Merge two map images into one.	X				X	X	
Save and retrieve maps.	X						
Return a URL for a given map area.	X	X	X		X		
Interact with markers.	N/A*	N/A*	N/A*		X	X	
Return an optimal projection for a given extent.	X	X				X	
Automated data sources.		X			X	X	
Access raster tiles.		X			X	X	
Access vector maps.	X	X			X	X	
Geocoding							
Geocode by address.	X		X	X	X	X	
Batch geocode.	X		X				X
Geocode DBF file of addresses.					X		X
Geocode incomplete addresses.	X		X	X	X	X	X
Geocode by IP address.	X				X	X	
Batch geocode by IP address.	X				X		
Geocode by phone number.	X			X	X	X	
Batch geocode by phone number.	X				X		
Reverse geocode.	X		X	X		X	
Batch reverse geocode.	X						
Automated data sources.	X					X	
Multiple data sources in single request.	X					X	
Find/Locate/Geocode places.	X				X	X	
Routing							
Generate multipoint route.	X		X	X	X	X	
Return a drive-time polygon or fixed-distance polygon.	X					X	
Get driving directions in one of 10 languages.	X		X			X	
Get turn-by-turn maps for a route.	X					X	
Get route geometry.	X		X	X		X	
Automated data sources.	X				X	X	
Multiple data sources in single request.	X				X	X	
Spatial Query							
Return data within a certain proximity of a given extent.	X		X		X	X	
Return data within a certain proximity of a given geometry.	X		X				
Return data within a certain proximity of a given x,y location.	X		X	X		X	
Return available fields and related information.	X						
General							
Error handling	X	X	X	X	X	X	X
HTTPS support	X	X	X	N/A*	N/A*	X	

	APIs						Portal www.arcwebservices.com
	SOAP	REST	OpenLS	J2ME Mobile Toolkit	JavaScript™	Flex	
Custom Data Management							
Create a data file to store data.	X			X			X
Add data to existing data file.	X			X			X
Edit existing data file.	X			X			X
Create custom spatial query services.							X
Access custom spatial query services.	X		X	X	X	X	X
Create custom map services.							X
Access custom map services.	X		X	X	X	X	X
Customize the style of your map services.							X
Access the style of your map services.	X		X	X	X	X	X
Reports							
Generate demographic reports in PDF, XML, or Excel® format.	X				X	X	
Generate preformatted reports for specified sites or standard geographies.	X					X	
Get thematic variables based on a keyword search.	X					X	
Generate thematic maps in PDF.	X					X	
Get list of variables that can be used in a custom report.	X					X	
Generate reports with user-defined variables for a specific site or geography in PDF, XML, or Excel format.	X					X	
Account Information							
Get information about your API usage.	X						X
Add and remove users from your group.							X
Allocate credits to users in your group.							X
Choose who receives notification e-mails.							X
Content Information							
Get metadata fields.	X						X
Get available services.	X						X
Return list of dependent content for layer or data file.	X						X
Search for content.	X						X
Get available icons.	X						
Get available fields for creating a thematic map.	X					X	
Get supported projections.	X						
Utility							
Return the great circle distance between two points.	X						
Convert a circle to a polygon, a circular arc to a line, and an ellipse to a polygon.	X						
Convert between geographic and pixel coordinates.	X				X	X	
Return the projected extent, geometry, and point.	X						
Wireless Location							
Get the x,y coordinates and related location information for a mobile device.	X		X	X			
Determine whether a registered mobile device is turned on.	X						
Send an SMS message.	X						
Determine where a device stopped along a path.	X						
Determine speed and direction of a device.	X						
Authentication							
Generate a token with a default expiration of 60 minutes.	X	X	X	X	N/A*	N/A*	
Generate a token with a user-defined expiration.	X	X			N/A*	N/A*	
Generate a User-ID with no time-out and no IP restrictions.		X			N/A*	N/A*	
Register site URLs for authentication.	N/A*	N/A*	N/A*		X	X	
Authenticate via WS-Security.	X			N/A*	N/A*	N/A*	

*N/A—This functionality is not applicable to a specific API.

†The functionality is current as of January 2008.



Copyright © 2008 ESRI. All rights reserved. ESRI, the ArcGIS logo, ArcWeb, and www.esri.com are trademarks, registered trademarks, or service marks of ESRI in the United States, the European Community, or certain other jurisdictions. Other companies and products mentioned herein may be trademarks or registered trademarks of their respective trademark owners.

For a 90-day evaluation of ArcWeb Services and the latest information, visit www.esri.com/arcwebservices.