

Product Features Summary

The following provides a high-level summary of the product features of Geocortex Essentials, including Geocortex Viewer for HTML5, Geocortex Viewer for Silverlight and Geocortex Workflow technology.

In the interests of space, many features have not been listed or described in this Product Guide.

Please have a conversation with your Account Manager to discuss your requirements and whether they'd be met through current offerings, features on our development road map, contracted core product development, workflow configuration or custom professional services.

Deploy Fast, Lightweight and Powerful Web and Mobile Viewers with HTML5

Geocortex Viewer for HTML5 is versatile and extremely powerful. Applications can target desktop, tablet and smartphone devices concurrently. When coupled with Geocortex Mobile Application Framework, Geocortex HTML5 technology supports disconnected use for offline editing scenarios. While many capabilities are highly configurable, custom development is easily achieved using a TypeScript-based API with extensible HTML5 and JavaScript frameworks.

Build Rich Intranet or Internet Web-GIS Viewers with Silverlight

Geocortex Viewer for Silverlight is established, feature-rich and extremely configurable. Customization is achieved through the Microsoft Silverlight API, ArcGIS API for Silverlight and Geocortex Viewer for Silverlight SDK.

Plan for the Future

Both viewer options provide a deep array of features and capabilities: Geocortex Viewer for Silverlight boasts a plethora of features and a highly sophisticated toolset, and Geocortex Viewer for HTML5 is the focus of all new feature development.

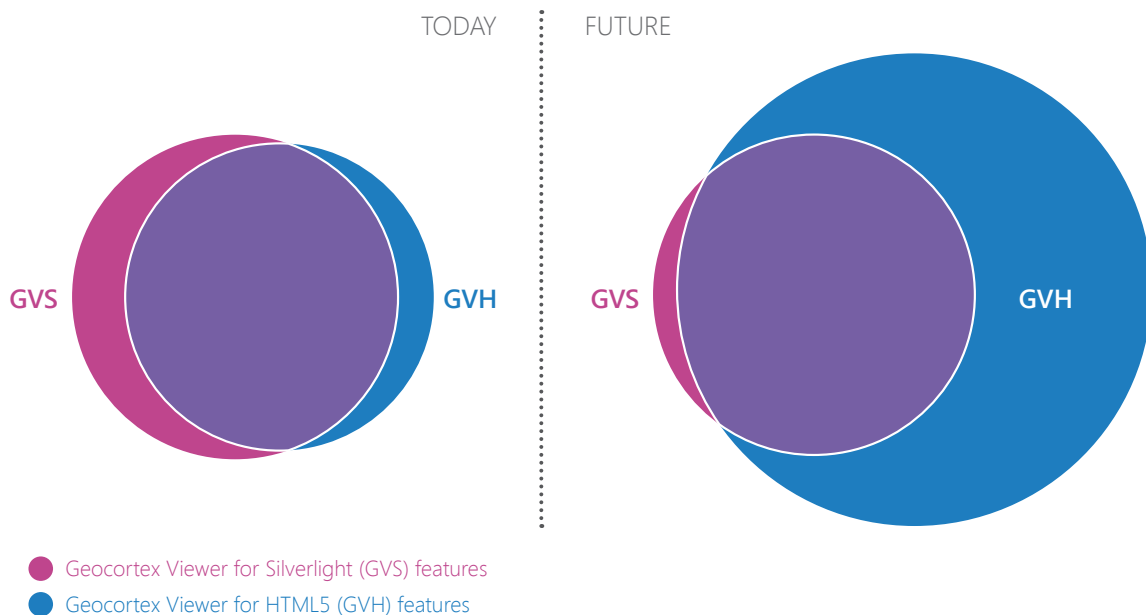


Figure 17: Relative comparison of out-of-the-box tools & features


Feature Matrix

The matrix on the following pages can help you further evaluate Geocortex HTML5 and Silverlight technologies. Many organizations choose to deploy both HTML5 and Silverlight to solve a variety of business needs. Geocortex enables sharing components between these technologies to eliminate overhead and redundancy.

Before you dive in....

When contemplating the matrix, please consider the following:

This is simply a comparison of viewer features; it doesn't consider architecture or deployment, and it doesn't take into account the depth (richness, usability, configurability, etc.) to which a given feature has been implemented. Also, it's not exhaustive – there are features not listed, and there are certainly capabilities and benefits of the broader Geocortex Essentials product that aren't addressed at all. In other words, we're exclusively focusing on the viewer aspect of Geocortex Essentials here, and there are many other aspects to consider before choosing an implementation technology and approach. With that said, have a look and please get in touch at any time if you have questions.

 *Features indicated in the columns not marked "Current" are predictive and forward-looking; prioritization is subject to change at any time, and the features listed do not represent our commitment to deliver them.*

Environment & Architecture

Framework Architecture	Silverlight	HTML5	
	Current	Current	Q3 2016 Future
XML-based and XML-configurable	✓	✓	
Configuration inheritance to eliminate duplicated settings across applications	✓	✓	
GUI Application Builder	✓	✓	
Manage multiple applications from single installation	✓	✓	
Remote configuration and deployment	✓	✓	
Technology-agnostic configuration model	✓	✓	
Services oriented architecture (REST web services)	✓	✓	
Support for mobile (smartphone & tablet-based) workflows		⊕	

Management Tools	Silverlight	HTML5		
	Current	Current	Q3 2016	Future
Separate administrative web application	✓	✓		
Easy to use, web-based configuration pages	✓	✓		
Manage map resources / map services	✓	✓		
Manage layer settings	✓	✓		
Manage application settings (attributes / fields, layer reports, database connections, etc.)	✓	✓		
Manage feature layer symbology	✓	✓		
Manage multiple technologies / viewers at once	✓	✓		

Device Support	Silverlight	HTML5		
	Current	Current	Q3 2016	Future
Support for desktop browsers on Windows and Mac OS X	✓	✓		
Use the same application on a variety of popular devices		✓		
Support for iPhones and iPads		✓		
Support for Android smartphones and tablets		✓		
Integrate handheld device capabilities (such as cameras)		✓		

Browser Support	Silverlight	HTML5		
	Current	Current	Q3 2016	Future
Internet Explorer 8-11 on Windows	✓	✓		
Microsoft Edge on Windows		✓		
Firefox on Windows	✓	✓		
Chrome on Windows		✓		
Safari on Mac OS	✓	✓		
Safari on iOS 7, 8 & 9		✓		
Chrome on Android 4+		✓		

Online & Offline	Silverlight	HTML5		
	Current	Current	Q3 2016	Future
View data in connected and disconnected environments		✓		
Store cached base maps and feature layers on handheld devices		✓		
Edit features offline, and synchronize with back-office when online		✓		
Search and query for features stored offline		✓		
Create offline maps for easy provisioning of data onto the device		✓		
Dynamically generate cached basemaps for offline use		✓		
Manage basemaps on the device			✓	
Support for offline/disconnected apps on iOS 7, 8 and 9 devices		✓		
Support for offline/disconnected apps on Windows 7, 8 and 10 devices		✓		
Support for offline/disconnected apps on Android 4.4+ devices		✓		

Security	Silverlight	HTML5		
	Current	Current	Q3 2016	Future
Secure applications based on users and roles	✓	✓		
Fine-grained user-level authorization on map services, feature services, layers, layer themes, reports, charts, data links, feature hyperlinks, workflows, and print templates	✓	✓		
Active Directory / LDAP / SQL Server integration or simple XML-based authentication	✓	✓		
Support for Active Directory Federation Services	✓	✓		
Single Sign-On using Windows Authentication	✓	✓		
Enable anonymous / guest access	✓	✓		
Sign-in and sign-out links	✓	✓		
Support for ArcGIS for Server secured map services	✓	✓		
Support for ArcGIS Online secured content	✓	✓		
Support for Portal for ArcGIS secured content	✓	✓		

Application Integration	Silverlight	HTML5		
	Current	Current	Q3 2016	Future
Launch from selected features to external applications	✓	✓		
Embed map in third-party applications, highlight features from external systems	✓	✓		
Invoke viewer commands from third-party applications	✓	✓		
Listen to viewer events from third-party applications	✓	✓		
Support for launching external maps (Google StreetView, Bing Maps, etc.)	✓	✓		
Support for bi-directional navigation with viewer and Bing or Google StreetView	✓	✓		
Support for bi-directional navigation with viewer and Pictometry		✓		
Links to share URL and state with Facebook, LinkedIn, Twitter and Google+		✓		
Link to share URL and state via email		✓		

URL Parameters	Silverlight	HTML5		
	Current	Current	Q3 2016	Future
Pass parameters / instructions to the viewer on startup	✓	✓		
Zoom to extent / identify / query / search	✓	✓		

Developer APIs	Silverlight	HTML5		
	Current	Current	Q3 2016	Future
Documented, backward-compatible APIs	✓	✓		
Microsoft .NET Server-side API	✓	✓		
Extensible REST API	✓	✓		
Extensibility framework	✓	✓		
JavaScript Integration API (enable bi-directional communication between the viewer and third-party applications)	✓	✓		
Clean separation of business logic and UI	✓	✓		
MVVM (Model View ViewModel) design	✓	✓		
Source code available for UI components (pages, CSS, images, etc.)	✓	✓		
SDK documentation and samples	✓	✓		
TypeScript-based Essentials API		✓		
Extensible HTML5 and JavaScript framework		✓		
ArcGIS API for JavaScript		✓		
Microsoft Silverlight API	✓			
ArcGIS API for Microsoft Silverlight	✓			
Silverlight viewer SDK based on Microsoft PRISM architecture	✓			

Logging	Silverlight		HTML5	
	Current	Current	Q3 2016	Future
System event and application usage logging	✓	✓		
Performance monitoring and system statistics	✓	✓		

Internationalization	Silverlight		HTML5	
	Current	Current	Q3 2016	Future
Viewer and management UIs internationalized for foreign language support	✓	✓		
Toolkit / documentation resources for translators	✓	✓		

Esri & Mapping

Map Service / Layer Types Support	Silverlight		HTML5	
	Current	Current	Q3 2016	Future
ArcGIS for Server dynamic, tiled, feature, raster and image services	✓	✓		
Bing Maps layers	✓	✓		
OGC WMS layers (visualization)	✓	✓		
OGC WMS layers (identify support)	✓	✓		
OGC WFS layers (find, identify and query support - not visualization)	✓	✓		
OGC WMTS layers	✓	✓		
Graphics and feature layers	✓	✓		
Image and raster layer identify support		⊕		
GeoRSS layers (including point-, line- and polygon-based layers)	✓	✓		
OpenStreetMap layers	✓	✓		
General web tile layer	✓	✓		
Custom layer types	✓	✓		
Graceful handling of intermittently available services	✓	✓		
KML layers		⊕		
ArcGIS for Server time-aware layers	✓		✓	
Manage a catalog of dynamic layers (with ArcGIS for Server 10.1+)	✓			✓

ArcGIS Online & Portal for ArcGIS Support	Silverlight		HTML5	
	Current	Current	Q3 2016	Future
Search for Web Maps and services hosted on ArcGIS Online	✓	✓		
Search for Web Maps and services hosted on Portal for ArcGIS	✓	✓		
Reference ArcGIS Online Web Maps within applications	✓	✓		
Reference Portal for ArcGIS Web Maps within applications	✓	✓		
Override ArcGIS Online Web Map settings to enhance capabilities	✓	✓		
Access to secured ArcGIS Online and Portal content using OAuth2	✓	✓		
Sign-in using ArcGIS Online or Portal identity	✓	✓		
Export map as web map and store in ArcGIS Online or Portal		✓		

Map Service Functionality	Silverlight		HTML5	
	Current	Current	Q3 2016	Future
View multiple, concurrent services (mash-ups)	✓	✓		
Render client-side graphics	✓	✓		
Control map service and layer visibility and transparency	✓	✓		
Control scale dependency of basemaps	✓	✓		
Toggle map contents in bulk by switching between layer themes	✓	✓		
Dynamically switch basemaps	✓	✓		
Group multiple services together into a single basemap		✓		
Support for feature clustering	✓	✓		
Support for feature heat maps	✓	✓		
Apply field-based weighting to heatmaps		✓		
Support legends for heatmaps and clusters		✓		
Specify time extent on time-aware layers with time sliders	✓		✓	
Dynamically symbolize layers based on attributes with class breaks and unique value renderers	✓		✓	
Dynamically modify layer labels - choose fields, fonts and styling	✓		✓	
Dynamically modify layer drawing order	✓			✓
Automatically update layers on configured intervals	✓	✓		

Tools & Features

Map Control	Silverlight	HTML5		
	Current	Current	Q3 2016	Future
Tile-based maps	✓	✓		
Zoom animations	✓	✓		
Continuous panning	✓	✓		
World wrap-around support (continuous panning around dateline)	✓	✓		
Keyboard navigation	✓	✓		
Configurable on-map display of copyright information and attribution	✓	✓		
Right-click context menu	✓	✓		

Navigation	Silverlight	HTML5		
	Current	Current	Q3 2016	Future
Full & initial extent commands	✓	✓		
Zoom to layer extent	✓	✓		
Scale slider / zoom level	✓	✓		
Zoom and pan tools	✓	✓		
Previous / next extent buttons	✓	✓		
Bookmarks / jump to extent	✓	✓		
Save bookmarks on the end-user workstation	✓	✓		
Save bookmarks on the server	⊘			
Mouse wheel zoom / double-click zoom	✓	✓		
Keyboard arrows for panning	✓	✓		
Automatically pan when tools are used close to the edge of the map	✓	✓		
Interactive overview map	✓	✓		
Zoom and pan with hand gestures		⊘		
Zoom to current user location using GPS, WiFi or IP		⊘		
Follow current user location using GPS, WiFi or IP		⊘		
Track current user location using GPS, WiFi or IP		⊘		
Scale input box	✓	✓		

Widgets & Controls	Silverlight		HTML5	
	Current	Current	Q3 2016	Future
Base map toggle control	✓	✓		
Scale bar	✓	✓		
Bookmarks / jump to extent	✓	✓		
Map tips / pop-ups (hover on top of features for data)	✓	✓		
Status indicator	✓	✓		
Mouse coordinates (XY location of mouse)	✓	✓		
Aerial imagery basemap time slider		⊕		
Scale slider	⊕			
Time sliders for time-aware layers	✓		✓	
Ratio scale information and input box	✓	✓		
Right-click context menu	✓	✓		
Interactive overview map	✓	✓		

Layer List / TOC	Silverlight		HTML5	
	Current	Current	Q3 2016	Future
Toggle map service and layer visibility	✓	✓		
Control map service transparency	✓	✓		
Control layer transparency	✓	✓		
Organize and re-order layers and services into a custom structure with folders	✓	✓		
Show symbols for layers inline, or in a separate panel	✓	✓		
Option to hide symbols for non-visible layers		⊕		
Standalone legend viewer	✓	✓		
Respect group layers and configure group layer behavior	✓	✓		
Respect map service layer visibility	✓	✓		
Display graphics layers	✓	✓		
Layer name aliasing	✓	✓		
Zoom to layer scale / layer extent	✓	✓		
Toggle visibility of layer labels	✓		✓	
Filter / search for layers	✓			✓
Symbolize uploaded graphics layers	✓	✓		
Group multiple layers into a single "composite" layer to toggle visibility of multiple layers at once		⊕		
Support "radio button" style layer visibility so only one layer can be visible at a time within a group		⊕		

Application Interface / Layout	Silverlight	HTML5	
	Current	Current	Q3 2016 Future
Dynamic, explorable UI hides and shows relevant components when needed	✓	✓	
Configurable welcome / intro panel describes application purpose	✓	✓	
Application splash screen configurable per-viewer		⊙	
Completely customizable "wireframe"-based layout	✓	✓	
Configurable themes (colors and fonts)	✓	✓	
Configurable banner, title page, toolbar, legend	✓	✓	
Preconfigured toolbar options for full functionality	✓	✓	
Quick "Google-style" search box in banner	✓	✓	
Multiple toolsets (tool boxes)	✓	✓	
"I Want To..." Menu	✓	✓	
Resizable data frame supporting multi-view controls	✓	✓	
Tabular report frame	✓	✓	
Configure data region and report region width and height using percentage values		⊙	
Maximize report frame to cover map		⊙	
Multiple views to support a variety of form factors (desktop view, tablet view, and handheld view)		⊙	
Accessibility (WCAG 2.0 AA Compliance) for users with disabilities		⊙	
Complete keyboard interface navigation and keyboard tool usage support		⊙	
Complete screen reader support		⊙	
Application footer with configurable hyperlinks		⊙	
Compact toolbar option for applications with a small number of tools		⊙	
Multi-tool element for grouping tools that support multiple shapes		⊙	
Context-sensitive toolbars that display when specific tools are activated		⊙	
Launch page, listing multiple sites	⊙		
Floating panels and dockable window behavior	⊙		
Right-click context menus	✓	✓	

Identify / Selection	Silverlight	HTML5	
	Current	Current	Q3 2016 Future
Identify tool	✓	✓	
Identify by rectangle	✓	✓	
Identify by polyline	✓	✓	
Identify by polygon	✓	✓	
Select from multiple layers simultaneously	✓	✓	
Zoom to selection	✓	✓	
Launch reports and actions from identify results	✓	✓	
Buffer identify results	✓	✓	
Configurable map tips / pop-ups	✓	✓	
Map tips drill down through multiple layers/features	✓	✓	
Identify by radius, point, rectangle, polyline, freehand polygon, circle and oval	✓	✓	
Identify by radius	✓	✓	
Identify by freehand polygon	✓	✓	
Identify by circle	✓	✓	
Identify by oval	✓	✓	
Choose identifiable layers	✓	✓	
Buffer identify / select tools	✓	✓	
Store selected sets	✓	✓	
Maintain multiple selected sets	✓	✓	
Union selected features / clear selected features	✓	✓	
Toggle selection highlighting, and buffer selection	✓	✓	
Launch reports and actions from selection	✓	✓	

Search / Find	Silverlight	HTML5	
	Current	Current	Q3 2016 Future
Index-based instant search results	✓	✓	
Routinely scan map services and feature services for data to index	✓	✓	
Sort search results by relevance to search term	✓	✓	
Automatically and instantly display search results on the map	✓	✓	
Display search hints while the user is typing	✓	✓	
Configurable, sophisticated searches	✓	✓	
Search through one or more layers	✓	✓	
Define simple or advanced queries with the dynamic query builder	✓	✓	
Filter features in layers based on queries	✓	✓	
Configurable search input forms	✓	✓	
Geocode address / intersection	✓	✓	
Support multi-line geocoders	✓	✓	
Support secured geocode services	✓	✓	
Reverse geocode (find address at location)	✓	✓	
Locate lat / long, and locate coordinate	✓	✓	
Search non-spatial data	✓	✓	
Query non-spatial data with Query Builder		✓	

Displaying Attribute Data	Silverlight	HTML5		
	Current	Current	Q3 2016	Future
Interactive feature list, details and tabular views	✓	✓		
Dynamic list / table paging and sorting	✓	✓		
Configurable map tips / pop-ups	✓	✓		
Feature labels and descriptions for readability	✓	✓		
Enhanced feature display including basic HTML markup	✓	✓		
Display external images associated with features	✓	✓		
Attribute aliasing and attribute visibility settings	✓	✓		
Hyperlink attribute values	✓	✓		
View results for multiple layers simultaneously	✓	✓		
Configurable "per-feature" hyperlinks (to external content)	✓	✓		
Launch feature report	✓	✓		
Display data from ArcGIS for Server Relationship Classes	✓	✓		
Display / download feature attachments	✓	✓		
Display coded value domains	✓	✓		
Supply field value formatting for dates and numbers		✓		
Convert dates to local timezone		✓		
Configurable field order in list and tabular display of attribute data		✓		
Verify hyperlinks before displaying to user	✓	✓		

Markup / Drawing	Silverlight	HTML5		
	Current	Current	Q3 2016	Future
Markup by Point, Line / Polyline and Freehand Line	✓	✓		
Markup by Rectangle, Polygon, Circle, Oval and Arrow	✓	✓		
Markup by Freehand Polygon		✓		
Markup by Text / Angled Text	✓	✓		
Move markup, and vertex of markup	✓	✓		
Fill / line / point type, text color and transparency	✓	✓		
Boundary color / width / type / transparency	✓	✓		
Extract markup to Shapefile	✓	✓		
XY Coordinate Markup	✓	✓		
Add Feature Label Markup	✓			
Undo and redo markup actions	✓			✓

Analysis Tools	Silverlight		HTML5	
	Current	Current	Q3 2016	Future
Measurement tools	✓	✓		
Measure line / measure area	✓	✓		
Measure rectangle, circle, oval, freehand line and freehand polygon		✓		
Change measurement units	✓	✓		
Display measured perimeter	✓	✓		
List shape measurements in a tabular grid		✓		
Display linear segment angle and bearing		✓		
Export shape measurements to CSV		✓		
Zoom-to-coordinate tools	✓	✓		
Plot coordinates in map units / DD / DMS	✓	✓		
Re-project coordinates	✓	✓		

Geoprocessing	Silverlight		HTML5	
	Current	Current	Q3 2016	Future
Execute ArcGIS geoprocessing task / model	✓	✓		
Prompt user for inputs to geoprocessing task	✓	✓		
Fine-control of geoprocessing outputs (layers, features, etc.)	✓	✓		

Reporting	Silverlight		HTML5	
	Current	Current	Q3 2016	Future
WYSIWYG Report Designer	✓	✓		
Multiple output formats (PDF, TIFF, PNG, JPEG, GIF, BMP, CSV)	✓	✓		
Display external, non-spatial data	✓	✓		
Display graphs, charts and calculated values	✓	✓		
Display map images of features, and photos	✓	✓		
Configure multiple reports per layer	✓	✓		

Workflows	Silverlight		HTML5	
	Current	Current	Q3 2016	Future
Business process modeling and automation tools	✓	✓		
Drag-and-drop workflow designer	✓	✓		
Design-time simulation for testing workflow functionality	✓	✓		
Library of over 200 pre-built functions	✓	✓		
Human interaction with input forms automatically generated	✓	✓		
Dynamic forms show and hide inputs based on user selections		✓		

Charting	Silverlight		HTML5	
	Current	Current	Q3 2016	Future
Configuration of multiple charts on a layer-by-layer basis	✓	✓		
Support for pie charts	✓	✓		
Support for linear charts (scatter plot, line, bar, spline, etc.)	✓	✓		
Display of chart for a collection of features	✓	✓		
Display multiple charts at once	✓	✓		
Display a chart for an individual feature	✓	✓		
Configure which chart(s) to display	✓	✓		
Configure chart styling (colors, legend, titles, fonts, etc.)	✓	✓		
Zoom in on chart controls	✓	✓		
Bi-directional integration between chart components and the map	✓	✓		

Editing	Silverlight		HTML5	
	Current	Current	Q3 2016	Future
Editing of features belonging to a spatial feature class	✓	✓		
Create spatial features (points, polylines, polygons)	✓	✓		
Create point-based features using geolocation/GPS		✓		
Move / modify / delete spatial features and vertices	✓	✓		
Edit feature attributes one feature at a time	✓	✓		
Add attachments to features	✓	✓		
Use subtypes, domains and field validation feature editing forms	✓	✓		
Add, edit and delete related records associated with editable feature layers		✓		
Union and cut geometries	✓			✓
Union and cut geometries APIs	✓	✓		
Snapping	✓	✓		
Edit feature attributes within a data grid	✓			✓
Align polygon edges with the edges of other features	✓			
Create polygon vertices at intersections of two features	✓			
Choose editable object from overlapping features on the same layer	✓			

Printing	Silverlight		HTML5	
	Current	Current	Q3 2016	Future
WYSIWYG Print Template Designer	✓	✓		
Multiple print templates (e.g., 8.5x11, 11x17, A4)	✓	✓		
Support for large format, high resolution (e.g., 36x44 at 1200dpi)	✓	✓		
User configurable images and text components	✓	✓		
User configurable resolution / scale	✓	✓		
User configurable grid / graticule	✓	✓		
Multiple output formats (PDF, TIFF, PNG, JPEG, GIF, BMP)	✓	✓		
Print Template components including Overview Map, Legend, Markup, Selections, Highlights, North Arrow, Scale Bar, Graticules, Scale, Projection, Date/Time and others	✓	✓		
Printing support for heatmaps		✓		
Printing support for clusters		✓		
Dynamic print area preview	✓	✓		

Save / Open Project	Silverlight		HTML5	
	Current	Current	Q3 2016	Future
Save current application information	✓	✓		
Save feature selections		✓		
Save graphics / markup / drawings / map extent / map service visibility & transparency	✓	✓		
Save layer visibility	✓	✓		
Share projects with URL	✓	✓		
Save project files privately (don't share with others)	✓	✓		
Open previously saved projects	✓	✓		
Filter between private, public and all saved projects	✓	✓		
Download saved project files	✓			
Save and edit project files anonymously	✓			
Choose group-level and user-level permissions for saved projects		✓		
Manage saved projects on the server		✓		

Download / Extract Data	Silverlight		HTML5	
	Current	Current	Q3 2016	Future
Extract feature geometry and data workflow (clip, zip & ship)	✓	✓		
Extract features to Shapefile / File GeoDatabase (GDB) / CAD formats	✓	✓		
Extract raster data to a variety of raster formats	✓	✓		
Clip geometry to current extent, or user-defined geometry	✓	✓		
Extract / copy map image	✓	✓		

Extract feature attributes to excel files (XLSX and CSV)	✓	✓
Extract markup to Shapefile	✓	✓

Upload / Import Data	Silverlight	HTML5		
	Current	Current	Q3 2016	Future
Attach files and images to features from mobile devices		✓		
Upload Shapefile to dynamic feature layer	✓	✓		
Upload CSV file to dynamic feature layer	✓	✓		
Upload address file (Excel or CSV) and perform batch geocode	✓	✓		
Upload FileDGB to dynamic feature layer		✓		
Upload KML to dynamic feature layer		✓		
Upload GPX to dynamic feature layer		✓		
Search and identify data in uploaded layers	✓	✓		
Search, discover, dynamically add WMS layers, ArcGIS for Server map services and feature layers	✓		✓	

Data Linking	Silverlight	HTML5		
	Current	Current	Q3 2016	Future
Connect layer features to external, non-spatial data sources	✓	✓		
Support for all ADO.NET data sources (Oracle, SQL Server, XML files and others)	✓	✓		
One-to-one and one-to-many relationships	✓	✓		
Many-to-many and many-to-one relationships	✓	✓		
Display data links in dynamic list report / table report	✓	✓		

End-User Help System	Silverlight	HTML5		
	Current	Current	Q3 2016	Future
Help framework enabling pluggable help content	✓			✓
Context-sensitive help topics	✓			✓
Tutorials for beginners and non-GIS users	✓			✓



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