Geocortex Viewer for HTML5 (GVH) - VertiGIS Studio Web (VSW)	Geocortex viewer for	VertiGIS Studio
Feature Comparison Matrix	HTML5 (GVH)	Web (VSW)
	Current	5.28
Francisco proport Q. A schite sture		alternative = done
Environment & Architecture		differently
		ujjerentiy
Framework Architecture		
XML and JSON based configuration	х	x
Site configuration inheritance to eliminate duplicated settings across applications	х	alternative
Referencable configuration at granular component level supporting re-use		Х
Web-based application builder and configuration interface	Х	Х
Live interactive preview directly in configuration interface		Х
Manage multiple applications from single installation	Х	X
Management Tools		
In GXW configuration of the webmap drives a significant portion of application behavior		х
Separate administrative web application	Х	Х
Manage map resources / map services	Х	Х
Manage layer settings	х	Х
Manage application settings (attributes / fields, layer reports, etc.)	х	Х
Manage feature layer symbology	Х	х
Device Support		
Support for desktop browsers on Windows and Mac OS X	х	x
Use the same application on a variety of popular devices	×	×
Support for iPhones and iPads	×	×
Support for Android smartphones and tablets	×	X
	A	A
Browser Support		
Internet Explorer 9-11 on Windows (Esri JavaScript 4.x API does not support IE)	Х	not planned
Microsoft Edge on Windows	Х	Х
Firefox on Windows	Х	Х
Chrome on Windows	Х	Х
Safari on iOS	Х	X
Chrome on Android	Х	X
Security		
In GXW configuration of portal secuirty drives a significant portion of application behavior		х
Secure applications based on users and roles	Х	X
Fine-grained user-level authorization on map services, feature services, layers, and attribute fields	Х	VSAC
Fine-grained user and group level visibility for UI components and menu items (tools)		х
Active Directory / LDAP / Windows authentiation / etc	х	X
Support for Active Directory Federation Services	х	x
Single Sign-On using Windows Authentication	х	x
Enable anonymous / guest access	х	Х

Sign-in and sign-out links	x	Х
Support for ArcGIS Server secured map services	× ×	×
Support for ArcGIS Online secured content	X	X
Support for Portal for ArcGIS secured content	X	X
		X
Application Integration		
Launch from selected features to external applications	x	Х
Embed map in third-party applications, highlight features from external systems	x	Х
Invoke viewer commands from third-party applications	X	Х
Listen to viewer events from third-party applications	Х	Х
Support for launching external maps (Google StreetView, Bing Maps, etc.)	X	Х
Support for bi-directional navigation with viewer and Bing or Google StreetView	X	x (SDK)
Support for bi-directional navigation with viewer and Pictometry	х	x (SDK)
Links to share URL and state with Facebook, LinkedIn, Twitter and Google+	х	Х
Link to share URL and state via email	Х	X
URL Parameters		
Pass parameters / instructions to the viewer on startup	X	X
Zoom to extent / identify / query / search >> via GXWF	X	X
		X
Developer APIs		
API documentation, SDK, and samples	Х	Х
TypeScript-based Essentials API	х	х
Extensibility framework	x	х
JavaScript Integration API	x	х
(enable bi-directional communication between the viewer and third-party applications)	^	^
ArcGIS API 3.x for JavaScript	X	does not apply
ArcGIS API 4.x for JavaScript		х
Logging	-	
System event and application usage logging	X	х
Performance monitoring and system statistics	X	VS Analytics
		,
Internationalization		
Viewer and management UIs internationalized for foreign language support	Х	Х
Toolkit / documentation resources for translators	X	Transifex
Esri & Mapping		
Map Service / Layer Types Support		
ArcGIS Server dynamic, tiled, feature, raster and image services	х	х
Bing Maps layers	Х	
OGC WMS layers (visualization)	Х	Х
OGC WMS layers (identify support)	Х	Х
OGC WFS layers (find, identify and query support - not visualization)	Х	Х
OGC WFS layers (visualization)	х	

OGC WMTS layers	x	X
Graphics and feature layers	x	×
Imagery layer identify support	×	×
GeoRSS layers (including point-, line- and polygon-based layers)	×	×
OpenStreetMap layers	×	×
General web tile layer	×	×
Graceful handling of intermittently available services	×	× ×
KML layers	×	× ×
ArcGIS Server time-aware layers (base support added, incubator time-slider available)	×	×
ArcGIS Server stream layers		
Manage a catalog of dynamic layers (with ArcGIS Server 10.2+)	X	X
	Х	~
ArcGIS Online & Portal for ArcGIS Support	-	
Search for Web Maps and services hosted on ArcGIS Online	х	x
Search for Web Maps and services hosted on Portal for ArcGIS	X	X
Reference ArcGIS Online Web Maps within applications	X	X
Reference Portal for ArcGIS Web Maps within applications	X	X
Override ArcGIS Online Web Map settings to enhance capabilities	X	X
Access to secured ArcGIS Online and Portal content using OAuth2	X	X
Sign-in using ArcGIS Online or Portal identity	X	X
Export map as web map and store in ArcGIS Online or Portal	X	x
Publish a viewer as an application item in Portal for ArcGIS or ArcGIS Online	X	x
	^	^
Map Service Functionality		
View multiple, concurrent services (mash-ups)	х	x
Render client-side graphics	Х	X
Control map service and layer visibility (transparency cfg is in webmap)	X	X
Control scale dependency of basemaps	x	X
Toggle map contents in bulk by switching between layer themes	x	X
Group multiple services together into a single basemap	х	X
Support for feature clustering	х	X
Support for feature heatmaps	X	X
Apply field-based weighting to heatmaps	Х	X
Support legends for heatmaps and clusters	X	X
Specify time extent on time-aware layers with time sliders (Esri time-slider in incubator)	X	partial
Dynamically symbolize layers based on attributes with class breaks and unique value renderers	X	I
Dynamically modify layer labels - choose fields, fonts and styling	X	X
Dynamically modify layer drawing order (via webmap and by end-user)	X	X
Automatically update layers on configured intervals	X	x (VSWF)
Tools & Features	_	
Map Control	-	
Tile-based maps	х	x
Continuous panning	X	x
World wrap-around support (continuous panning around dateline)	×	×
Keyboard navigation		
νεγρυαι απανιβατιστι	Х	Х

Configurable on-map display of copyright information and attribution	x	x
Right-click context menu (added support for touch devices)	X	X
Navigation	-	
Full & initial extent commands	х	x
Zoom to layer extent	х	х
Scale slider / zoom level	х	х
Zoom and pan tools	х	х
Bookmarks / jump to extent	х	х
Save bookmarks on the end-user workstation	Х	х
Mouse wheel zoom / double-click zoom	Х	х
Keyboard arrows for panning	Х	х
Zoom and pan with hand gestures	Х	х
Zoom to current user location using GPS, WiFi or IP	х	х
Follow current user location using GPS, WiFi or IP	х	х
Track current user location using GPS, WiFi or IP	х	х
Scale input box	х	х
Widgets & Controls		
Base map toggle control	Х	х
Scale bar	Х	х
Bookmarks / jump to extent	Х	х
Map tips / pop-ups (hover on top of features for data)	Х	х
Mouse coordinates (XY location of mouse)	х	x
Aerial imagery basemap time slider - not yet (try layer comparison swipe tool)	х	х
Time sliders for time-aware layers (Esri time-slider in incubator)	х	х
Ratio scale information and input box	х	х
Right-click context menu	Х	Х
Interactive overview map	Х	x
	_	
Layer List / TOC		
Toggle map service and layer visibility	Х	х
Control layer transparency	Х	х
Organize and re-order layers and services into a custom structure with folders	Х	via webmap
Show symbols for layers inline, or in a separate panel	Х	Х
Option to hide symbols for non-visible layers	X	Х
Standalone legend viewer	X	X
Respect group layers and group layer behavior	X	X
Respect map service layer visibility	X	X
Display graphics layers	X	X
Layer name aliasing	X	X
Zoom to layer scale / layer extent	X	X
Toggle visibility of layer labels	X	X
Filter / search for layers	X	X
Symbolize uploaded graphics layers	X	X
Group multiple layers into a single "composite" layer to toggle visiblity of multiple layers at once	x	x
(layer list component in GXW Designer)		

Support "radio button" style layer visibility so only one layer can be visible at a time within a group		
(layer list component in GXW Designer)	Х	х
Application Interface / Layout		
Dynamic, explorable UI hides and shows relevant components when needed	х	x
Configurable welcome / intro panel describes application purpose	X	X
Application splash screen configurable per-viewer	X	planned
Completely customizable "wireframe"-based layout	x	X
Configurable themes (colors and fonts)	X	X
Configurable banner, title page, toolbar, legend	X	X
Preconfigured toolbar options for full functionality	X	X
Quick "Google-style" search box in banner	x	X
Multiple toolsets (tool boxes)	X	X
"I Want To" Menu	X	X
Resizable data frame supporting multi-view controls	X	X
Tabular report frame	× ×	X
Maximize report frame to cover map		
	Х	X
Multiple views to support a variety of form factors (desktop view, tablet view, and handheld view)	х	x
Dynamic responsive layouts to form factors with support for multiple dedicated layouts		X
Accessibility (WCAG 2.0 AA Compliance) for users with disabilities	Х	X
Complete keyboard interface navigation and keyboard tool usage support	X	X
Complete screen reader support	x	X
Application footer with configurable hyperlinks	x	X
Compact toolbar option for applications with a small number of tools	X	X
Multi-tool element for grouping tools that support multiple shapes	X	X
Context-sensitive toolbars that display when specific tools are activated	X	X
Keyboard skip link navigation	X	X
Right-click context menus	X	X
	^	~
Identify / Selection		
Identify tool	х	X
Identify by rectangle	X	X
Identify by polyline	X	X
Identify by polygon	X	X
Select from multiple layers simultaneously	X	X
Zoom to selection	X	X
Launch reports and actions from identify results		
Buffer identify results	x	X
Configurable map tips / pop-ups		
Map tips drill down through multiple layers/features	X X	X
Identify by freehand polygon	X	X
Choose identifiable layers	X X	X
Buffer identify / select tools	X	X
Store selected sets (starred results + commands)	X	X
	X	X
Maintain multiple selected sets (starred results + commands)	X	X
Union selected features / clear selected features (starred results + commands)	X	X
Toggle selection highlighting, and buffer selection	Х	Х

Launch reports and actions from selection	Х	Х
Search / Find		
Index-based instant search results	Х	VSS
Routinely scan map services and feature services for data to index	Х	VSS
Sort search results by relevance to search term	Х	Х
Automatically and instantly display search results on the map	X	Х
Display search hints while the user is typing	Х	Х
Search through one or more layers	X	Х
Define simple or advanced queries with the dynamic query builder	X	X
Create advanced queries that join expressions with AND as well as OR conjuctions	X	Х
Filter features in layers based on queries	X	Х
Configurable search input forms	X	Х
Geocode address / intersection	X	Х
Support multi-line geocoders	X	х
Support secured geocode services	X	Х
Reverse geocode (find address at location)	Х	x
Locate lat / long, and locate coordinate	X	x
Search non-spatial data	X	x
Query non-spatial data with Query Builder	Х	X
Administrator defined queries	Х	X
Displaying Attribute Data		
Interactive feature list, details and tabular views	X	x
Dynamic list / table paging and sorting	X	х
Configurable map tips / pop-ups	X	Х
Feature labels and descriptions for readability	X	Х
Enhanced feature display including basic HTML markup	X	Х
Display external images associated with features	X	Х
Attribute aliasing and attribute visibility settings	Х	x
Hyperlink attribute values	Х	x
View results for multiple layers simultaneously	X	X
Configurable "per-feature" hyperlinks (to external content)	X	X
Launch feature report	X	X
Display related, non-spatial data	X	X
Display data from ArcGIS Server Relationship Classes	X	X
Display / download feature attachments	X	X
Display coded value domains	Х	X
Supply field value formatting for dates and numbers	Х	X
Convert dates to local timezone	Х	X
Configurable field order in list and tabular display of attribute data	Х	X
Verify hyperlinks before displaying to user	Х	
		I
Markup / Drawing		
Markup by Point, Line / Polyline and Freehand Line	Х	x
Markup by Rectangle, Square, Circle (no Oval or Arrow supported in Esri API yet)	Х	X
Markup by Freehand Polygon	Х	Х
Markup by Text	Х	х

Nove markup, and vertex of markup	×	N/
Fill / line / point type, text color and transparency	X	X
	X	X
Boundary color / width / type / transparency	X	X
Extract markup to Shapefile	X	X
(Y Coordinate Markup	X	X
Choose markup symbology	Х	Х
Configure detailed markup symbols including boundary and fill options	X	Х
Jndo and redo markup actions >> z undo last vertex r redo last vertex	X	X
Single-click on markup features to begin editing them (can be configured)	X	Х
Analysis Tools	-	
Measurement tools	х	x
Measure line / measure area	X	x
Measure rectangle, circle, oval, freehand line and freehand polygon	X	x
Change measurement units	×	×
Display measured perimeter		×
ist shape measurements in a tabular grid	X	^
Display linear segment angle and bearing	X	
Export shape measurements to CSV	X	
Zoom-to-coordinate tools	X	
	X	X
Plot coordinates in map units / DD / DMS	X	X
Re-project coordinates	X	X
Support coordinates with any coordinate system that uses a WKID	X	Х
Support coordinates using MGRS and USNG	X	X
Charting	-	
Configuration of multiple charts on a layer-by-layer basis	Х	х
Support for pie charts	Х	х
Support for linear charts (scatter plot, line, bar, spline, etc.)	Х	х
Display of chart for a collection of features	X	x
Display multiple charts at once	X	x
Display a chart for an individual feature	X	x
Configure which chart(s) to display	X	X
Configure chart styling (colors, legend, titles, fonts, etc.)	X	X
Chart components highlight data on the map	X	x
(Pl indicator cards	X	x
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Editing		
diting of features belonging to a spatial feature class	х	x
Create spatial features (points, polylines, polygons)	X	х
Create point-based features using geolocation/GPS	X	х
Move / modify / delete spatial features and vertices	X	x
Edit feature attributes one feature at a time	X	x
Add attachments to features	X	x
Jse subtypes, domains and field validation feature editing forms	X	X
Edit and delete related records associated with editable feature layers (no Add yet)	x	x
Jnion and cut geometries	x	~
Jnion and cut geometries APIs	x	
	٨	

Concerning.		
Snapping	X	X
Edit feature attributes within a data grid	Х	
Printing		
Invoke GP5 printing	х	х
Reporting		
Invoke GR5 report from features	x	х
Workflow		
Run GW5 workflows		Y
Execute ArcGIS geoprocessing task / model	X	X
	X	X
Prompt user for inputs to geoprocessing task	X	Х
Save / Open Project		
Save current application information	Х	X
Save feature selections	x	х
Save graphics / markup / drawings / map extent / map service visibility & transparency	х	Х
Save layer visibility	Х	х
Share projects with URL (or file)	х	х
Save project files privately (don't share with others)	х	х
Open previously saved projects	х	х
Filter between private, public and all saved projects	х	x
Choose group-level and user-level permissions for saved projects	х	х
Manage saved projects on the server (S3 bucket management utilities)	х	х
Download / Extract Data		
Extract feature geometry and data workflow (clip, zip & ship) >> fme activity pack	x	x
Extract features to Shapefile	x	x
Extract features to File GeoDatabase (GDB)	x	
Extract features to CAD formats	x	
Extract raster data to a variety of raster formats	×	
Clip geometry to current extent, or user-defined geometry		
Extract / copy map image (see Workflow's Get Map Screenshot activity)	X	~
	X	X
Extract feature attributes to excel files (XLSX and CSV)	X	X
Extract data from related records and data links to excel files (XLSX and CSV)	X	
Extract markup to Shapefile	X	Х
Upload / Import Data		
Attach files and images to features from mobile devices	х	Х
Upload Shapefile to dynamic feature layer	x	Х
Upload CSV file to dynamic feature layer	х	х
Upload address file (Excel or CSV) and perform batch geocode	х	
Upload FileGDB to dynamic feature layer	х	
Upload KML to dynamic feature layer	x	
Upload GPX to dynamic feature layer	x	
Search and identify data in uploaded layers	x	Х
	~	~

Search, discover, dynamically add WMS layers, ArcGIS Server map services and feature layers	x	x
Data Linking		
Connect layer features to external, non-spatial data sources	х	х
Support for all ADO.NET data sources (Oracle, SQL Server, XML files and others)	х	Х
One-to-many relationships	Х	Х
One-to-one relationships	Х	Х
Display data links in dynamic list report / table report	Х	
Collaboration	_	
Real-time, map-based collaboration tools	Х	not planned