

# GXP Xplorer® At-a-Glance



Rapid discovery and dissemination of geospatial data across disparate systems

The GXP ecosystem



## Supported Data Types

### Imagery

AMSD, BMP, CADRG/ADRG, CIB, COSMO-SkyMed, DigitalGlobe®, DPPDB, ECW, GeoTiff, GIF, IMAGINE, JPEG, JPEG2000, MBTiles, MrSID, MSDi, NITF 2.0, NITF 2.1/NSIF 1.0, PNG, SOCET GXP® Support File, TFRD 1.3, TFRD 2.3, TFRD 4.3, TFRD Support Data, TIFF 6.0, MSP 1.6

### Terrain

DTED Level 0-6, GeoTIFF, GXP® GRID, GXP TIN, HRE Level 1-8, LiDAR, TERCOM, WMED

### Vector

BAE Systems MTI, Digital Feature Analysis Data, Digital Nautical Chart, Digital Topographic Data, Esri® Shapefile, Foundation Feature Data, Interim Terrain Data, KML/KMZ, STANAG 4676 GMTI, STANAG 4607 GMTI, Tactical Ocean Data, Urban Vector Map, Vector Interim Data, Vector Map, Vertical Obstruction Database, VPF, World Vector Shoreline Plus

### Video

AAF/ASPA, MPEG, MPEG-2 (including TS), MPEG-4, MPEG DASH

### Documents

ASCII Text Document, Extensible Markup Language (XML) File, GeoPDF®, HTML, Microsoft® (MS) Excel Document, MS PowerPoint® Document, MS Word Document, PDF, RTF

### Map and Chart

City Graphics, Coastal Charts, Combat Charts, Global Navigation Charts, Harbor and Approach Charts, Helicopter Route Charts, High Flying Charts, Jet Navigation Charts, Joint Operations Graphics, Low Flying Charts, Military Installation Maps, Miscellaneous Maps and Charts, Naval Range Operating Area Chart, Operational Navigation Charts, Operational Planning Graphics, Riverine Maps, Series 200 Air Target Charts, Tactical Pilotage Charts, Topographic Line Maps, Transit Flying Charts, VFR, Visual Navigation Charts

### Social Media

#### WAMI

ARGUS-IS, AWAPSS, CorvusEye®, Gorgon Stare 2

## Supported Platforms

### GXP Xplorer® Server supported OS

Microsoft Windows® 10,  
Windows Servers 2008 R2, 2012 R2, 2016

### Supported Web Browsers

- » Internet Explorer®
- » Google Chrome™
- » Mozilla Firefox®

### GXP Xplorer Mobile and GXP Xplorer Snap

- » Android™
- » iOS

## Recommended Hardware

- » 32 GB RAM
- » 8 CPU Cores
- » 10 GB disc space for applications



### Data Dissemination

- » Email
- » Direct file open
- » FTP/FTPS/SFTP with zip for multiple files
- » HTTP/HTTPS download
- » Upload services
- » Automatic file discovery agent
- » Pixel streaming services including native and JPIP (optional)
- » WMS/WMTS publishing (optional)
- » Esri's Portal for ArcGIS®
- » GXP Notification Services

### Data Services

- » Imagery reformatting services
- » Generate RSets
- » Generate thumbnails
- » Image chipping
- » Image Library Data Migration Tool (ILDMT) for the Image Product Library (IPL) data conversion
- » Standing order with options including data conversion
- » Edit cataloged metadata
- » Geotag non-georeferenced data
- » Coordinate extraction from documents and files to include subsequent geotagging
- » Ortho mosaic services (optional)
- » 3rd party integrated product services (optional)

### Viewing

- » Metadata
- » Thumbnails
- » Overviews
- » Data layers including visualization of cataloged content

### Administrative Tools and System Security

- » Web browser based system administration tools
- » Manage users, groups, and associated roles
- » User authentication and sign-in policy management
- » Enable/disable anonymous access
- » Lightweight Directory Access Protocol (LDAP) management and settings
- » Public Key Infrastructure (PKI) settings
- » Passport authentication settings
- » GEOAxIS
- » Manage and monitor cataloging services and discovery agent
- » Email server
- » FTP server
- » Inbound/outbound proxy settings and whitelist proxies

### Administrative Tools and System Security, continued

- » License server management
- » Add-on services management for Coalition Shared Data (CSD), Geospatial Imagery Access Services (GIAS), and DCGS Integrated Backbone (DIB)
- » Enable/disable catalog plug-ins such as DigitalGlobe
- » Server management protocols including HTTP/HTTPS, ports, certificates, and certificate settings
- » Configuration of gazetteer
- » Additional services (JPIP, Pixel Server, GeoServer)
- » Discretionary Access Controls based on directories, geographic regions, or metadata
- » Customization for terms of use, welcome page, coordinate systems, units, basemaps and reference layers, Web services, map options (grids, auto-search, footprints, markers, icons)
- » User interface customization for what end-users see in tool bars, for metadata, and items that are allowed to be searched

### Extensible Architecture

- » REST services
- » Swagger API
- » Distributed processing

### Searches

- » Geospatial searches on the map or list pages
- » Free text
- » Date/time specific and ranges include past day, week, month, year
- » Search on data types
- » Search on sensor names
- » Search on sensor characteristics
  - » GSD
  - » Date of collection
  - » NIIRS
  - » Obliquity angle
  - » Cloud cover
- » Advanced searches on specific metadata fields
- » Save searches for personal or shared access
- » Manage saved searches
- » Recent searches
- » Federated catalog searches
- » RSS
- » KML
- » GXP Xplorer HTML search link

### Map background and layers

- » Map options
  - » Google Maps™
  - » OGC® services WMS and WMTS
  - » Esri services
  - » CIB/CADRG published services (optional)
  - » Cataloged images (optional)
  - » Cataloged shapefiles (optional)
- » Navigation tools
  - » Glove
  - » Zoom
  - » Zoom to box
  - » Jump to point/location
- » Auto search options after changing the map location
- » Search results shown as footprints, icons, or clusters
- » Show and select search areas based on map grids
- » Time slider
- » Control and customization of icons displayed for search results
- » Bookmarks (saved locations)
- » Options for coordinate systems
  - » Geographic
  - » UTM
  - » MGRS
- » Measurement units' options
  - » Feet (International and US Survey)
  - » Yards
  - » Miles
  - » Nautical Miles
  - » Meters
  - » Kilometers
  - » Acres
  - » Square feet, meters, miles, etc.

### Data model service

- » Default data model for cataloged content
- » Controls for specific data models of geospatial entities including the default catalog entities
- » View, edit, clone, add, delete, and publish data models
- » Modify data in an unpublished data model

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