

“User Stories”

VT Open GeoData Portal

4/8/2014

Template Format: *“As a [end user role], I want [the desire] (optional - so that [the rationale]).”*

Publisher Stories

- As a Publisher, I want my metadata to conform to standards (ISO or FGDC).
- As a Publisher, I want the ability to add “custom keyword tags” to my Warehouse entries to help users find what they are looking for.
- As a Publisher, I want the ability to assign myself to specific “stakeholder groups” (eg: private sector, government, non-profit, etc.) so that users can look for Warehouse entries by these groups.
- As a Publisher, I want the ability to tag datasets, web services, and web/mobile/desktop applications to one or more ISO 19115 Topic Categories¹ (eg: boundary data, transportation data, etc).
- As a Publisher, I want the search engine to be driven from the metadata that I submit.
- As a Publisher, I want to be in control of my own publishing, information management, and publisher account.
- As a Publisher, I want to clearly identify and “brand” data, web services, and applications provided by my organization.
- As a Publisher, I want to publish my data as services that work on multiple clients including desktop software, mobile devices, and web browsers.
- As a Publisher, I want a mechanism for managing “data/file locks²” when posting data updates.
- As a Publisher, I want a mechanism which allows me temporarily disable access to a particular dataset, web service, or web application.
- As a Publisher, I want GIS customers to have access to my web mapping applications from the data warehouse.
- As a Publisher, I want my data to be discoverable and linked through other catalogs (eg: data.gov, ArcGIS Online, etc.) so that it can be found by users outside of Vermont.
- As a Publisher, I want my data, web services, and web applications to be discoverable through Google searches so that it is more likely to be found.
- As a Publisher, I want a publishing solution that requires a minimal number of manual steps.
- As a Publisher, I want the ability to “share” datasets, web services, or web/mobile/desktop applications that I publish on the Data Warehouse via Twitter and Facebook.
- As a Publisher, I want the ability to create my own “custom data groupings”.
- As a Publisher, I want the ability to include non-geospatial data files (eg: MS Word document, Excel spreadsheet) with the geospatial data that I share.
- As a Publisher, I want to authenticate to my publishing account.
- As a Publisher, I want to be able to define groups of users that can collaborate on editing and maintaining the data with me.

¹ <http://www.fgdc.gov/metadata/geospatial-metadata-standards#nappreparing>

² Locks that the database and/or file management system applies in order to block modifications while the data/file is being accessed.

“User Stories”

VT Open GeoData Portal

4/8/2014

- As a Publisher, I want to be able to post data, web services, applications (web/mobile/desktop), products (eg: layer packages), and tools (eg: scripts and geoprocessing tools).
- As a Publisher, I want to be able to push out data, web service, or application update alerts to subscribers.
- As a Publisher, I want to have access to download statistics of my data so I know how often my data is downloaded.
- As a Publisher, I want to have access to statistics showing how often particular web services are used.
- As a Publisher, I want users to be notified with a special icon/flag when a particular dataset, web service, or web/mobile/desktop applications is/are temporarily unavailable.
- As a Publisher, I want the Warehouse to offer a simple data hosting subscription plan for non-governmental organizations and/or individuals.
- As a Publisher, I want my own configurable “space” or “site” on the Data Warehouse with custom branding, content, and messaging.
- As a Publisher, I want the standardized (ISO or FGDC) metadata to automatically populate specific attributes of the online catalog entries (website content).
- As a Publisher, I want to be able to moderate comments about a particular dataset or web service I have published.
- As a Publisher, I want a Warehouse solution that complies with W3C DCAT³ and OGC CS⁴ specifications.
- As a Publisher, I want a Warehouse solution that make it easy for me to comply with data archival procedures defined by the State of Vermont.
- As a Publisher, I want a Warehouse solution that is able to harvest ISO and FGDC compliant metadata records.

User Stories

- As a User, I want a robust and easy-to-use search engine to help me find the geospatial data, web services, and web/mobile/desktop applications.
- As a User, I want data and imagery downloads to include embedded metadata.
- As a User, I want to get to all Warehouse entries that have one or more “custom keyword tags” assigned by the Publisher.
- As a User, I want to download aerial photos (eg: VT orthos) so I can use them on my computer.
- As a User, I want to download VT GIS data layers in ESRI shapefile format.
- As a User, I want to download VT GIS data layers in ESRI file geodatabase format.
- As a User, I want to download VT GIS data layers in GML format.
- As a User, I want to download VT GIS data layers in KML format.
- As a User, I want “authoritative” datasets to be discoverable and clearly identified.

³ http://www.w3.org/2011/gld/wiki/Data_Catalog_Vocabulary

⁴ <http://www.opengeospatial.org/standards/specifications/catalog>

“User Stories”

VT Open GeoData Portal

4/8/2014

- As a User, I want a browser-based Data Warehouse solution that does not require a browser plug-in.
- As a User, I want a button that allows me to “share” things that I discover on the Data Warehouse via a URL link, Twitter and Facebook.
- As a User, I want access to “help” resources and media (such as YouTube videos) on how to use GIS data, web services, web applications, products (eg: layer package), and tools (eg: scripts and geoprocessing tools).
- As a User, I want access to data and web services which are openly available in a manner consistent with OpenDefinition.org’s definition⁵.
- As a User, I want access to data standards and data templates for download.
- As a User, I want access to ESRI layerfile packages.
- As a User, I want access to ESRI layerfiles (symbology) used to render GIS data layers.
- As a User, I want access to historical “snapshots” of VT GIS data.
- As a User, I want access to historical aerial photos.
- As a User, I want access to imagery organized by year (whether for download or web service).
- As a User, I want all data that I find to be available for download (not just a link to an external website).
- As a User, I want to see a listing of all available data even if it isn’t available for immediate download or if there are access constraints.
- As a User, I want all of the data to have the good metadata and keyword tagging.
- As a User, I want all technical terms to be linked to explanations so I don’t have to be a GIS expert.
- As a User, I want metadata that is easy to read with a quick way to get to attribute descriptions and attribute codes.
- As a User, I want the “posted date” included on the list of new/updated data, web services, or web/mobile/desktop applications.
- As a User, I want to specify data types (eg: polygon, points, lines, raster) in searches.
- As a User, I want to download thematic data in bulk (eg: all transportation data).
- As a User, I want to personalize the site (eg: My Warehouse) for the topics and data that I use most often.
- As a User, I want to rank (eg: number of stars) datasets, web services, and web applications.
- As a User, I want to be notified whenever new or updated data, web services, or web/mobile/desktop applications are released.
- As a User, I want to browse thumbnails of available datasets, web services, or web application to give me a quick sense of what is being offered.
- As a User, I want to control layer rendering (symbology) for VT GIS data layers accessed via a web map service.
- As a User, I want to control when and what I get notified about.
- As a User, I want to download all data as pre-packaged files via FTP.

⁵ <http://opendefinition.org/okd/>

“User Stories”

VT Open GeoData Portal

4/8/2014

- As a User, I want to download data in non-GIS formats (eg: CSV, GeoJSON).
- As a User, I want to download VT GIS data layers and imagery (aerial photos) only for a particular area that I specify (eg: clip & zip).
- As a User, I want to explore Warehouse entries by the “custom data groupings” created by the Publisher.
- As a User, I want to find and download Regional-level (RPC) GIS data.
- As a User, I want to find and download town-level GIS data.
- As a User, I want to find the latest GIS data releases by agency, by department, by program (eg: permitting/regulatory/monitoring).
- As a User, I want to flag errors in the data and have them submitted to the data steward.
- As a User, I want to have access to Data Warehouse “capabilities” via a published API (eg: REST endpoint) so I can integrate it into my own website.
- As a User, I want to integrate aerial photos (eg: VT orthos) into my own web mashups.
- As a User, I want to integrate VT GIS data layers into my own web mashups.
- As a User, I want to post comments about a particular dataset, web service, or application and have those comments show up whenever someone discovers the dataset or web service.
- As a User, I want to post my “data wish list” to a website for others to see, rank, and comment on.
- As a User, I want to search by standard data themes (eg: boundary data, transportation data, etc.) using ISO 19115 Topic Categories⁶ standard.
- As a User, I want to see a list of all data, web services, and applications associated with a particular dataset.
- As a User, I want to see rankings of datasets, web services, and web applications to help me pick the “best” option.
- As a User, I want access to aerial photos (eg: VT orthos) with no downloading required (ie: as a web service).
- As a User, I want access to VT GIS data layers with no downloading required (ie: as a web service).
- As a User, I want web services that work with ArcGIS software (desktop, mobile, and browser-based clients⁷).
- As a User, I want web services that work with Open Source GIS software (desktop, mobile, and browser-based clients).
- As a User, I want web services providing access to aerial photos that render “Google” fast.
- As a User, I want more format/projection options when downloading.

Administrator/Owner Stories

- As an Administrator/Owner, I want a GeoData Portal architecture that allows me to easily add functionality (eg: widgets, modules, etc).

⁶ <http://www.fgdc.gov/metadata/geospatial-metadata-standards#nappreparing>

⁷ Assumption: Users want to use web services on desktop, mobile, and browser-based clients "equally" (no significant preference)

“User Stories”

VT Open GeoData Portal

4/8/2014

- As an Administrator/Owner, I want a GeoData Portal architecture that allows me to easily scale-up capacity (eg: bandwidth, storage, etc).
- As an Administrator/Owner, I want a GeoData Portal solution that allows me to assign login accounts as users, publishers, or administrators.
- As an Administrator/Owner, I want a GeoData Portal solution that is able to ensure proper user, publisher, and administrator account security.
- As an Administrator/Owner, I want the ability to “disable” a user and/or publisher account that does not comply with established policies.
- As an Administrator/Owner, I want the ability to create GeoData Portal login accounts and passwords.
- As an Administrator/Owner, I want the ability to establish, publish, and enforce “publisher policies” for the GeoData Portal.
- As an Administrator/Owner, I want the ability to establish, publish, and enforce “user policies” for the GeoData Portal.
- As an Administrator/Owner, I want the ability to reset passwords.
- As an Administrator/Owner, I want to be able to configure jobs that automatically harvest data from other distributed heterogeneous data repositories via W3C DCAT and/or OGC CS specifications and load them into the GeoData Portal.
- As an Administrator/Owner, I want a GeoData Portal solution that has an upgrade path (is not a “one off” solution).