USGS NGP As-Is Delivery Information Flow : Context Profile v2 Delivery Products & Services

Below is the Target Flow Diagram for NGP Context Profile for how can be opened in or saved for use in other viewers. This particular diagram is directly attributable to the USGS National Geospatial Program business context associated with Delivery Services, but considers very directly how can be done in other viewers/programs. The associated description provides the relevant detail for the business context associated with the information flow. Project History, background, and drivers are offered in the lower left of the diagram. This ultimately captures the process and some data requirements for being implemented in an application architecture, but this does not include the application nor technical architecture

The diagram is accompanied by a annotations across the flow that provides a description of steps, process description and additional notes for the business context associated with the information flows. Steps provide a logical ordering of the processes that comprise the business context. Process descriptions provide detail of the activities related to the information flows described in the diagram.

Blue – Target State
Grey – Currently Active

Responsible Governance Team

–Analysis Output– —Value Output—

Business Process

—Functions—

Data Services —Map Services Grouped in a Configuration file To show in a Viewer→ Context Profile —Any Viewer that Can read this standard loads→ Context Reader —With Viewers on Same Config Standard, Makes easy for users with varying use Cases to use the viewer display that meets That use case need the best→ Display

If they make changes to the Mashup config, They need way to save that setup → Save Work —The saved JSON config context profile needs to be portable to be able to share with others to use in other viewers→ Share Work —The portable config also needs to support a few popular In our CoUs Interoperable standards to make Usable in other viewer types→ Reuse Work

—Flagship Viewer Impacts—

TNM 2.0 Basemap Services

TNM 2.0 Overlay Services

Featured National Services

Featured National Services (Legacy)

Expect to support in the Context Profile WMS, REST Map Service, Data KML, Service List KML, and RSS. ArcIMS support was phased out at the TNM UC 2011

External JSON Services List For enterprise services

To help in enterprise changes to services managed by multiple stewards, have sub JSON files with lists of services to manage their popup, field, and other service changes

Palanterra x3 JSON (lite) Services
ServiceGroups
Extents
MapConfig
LayoutConfig

Px3 JSON Extensions
Locators
SearchConfig
Tasks
Tools
Special Functions

Palanterra x3

—ESRI JS/Dojo API—

All the components to the left of the dashed line is part of Palanterra – any viewer that wants to be like this, but use another API should consider these requirement concepts

Palanterra x3

To support passing in multiple user content URLs to a Viewer instance, support a KML file with a list of multiple services – this can be saved in a link and easily passed from sites, links, or catalogs

User-Added Content

External KML Services List (For user added multiple >1 User Added Content

—Add Data—

—Add Data via Search Box—

TNM 1.0 Download Index Services

External Dynamic Download Validation Services

External Dynamic Download Extractor Services

USGS-NGP Download Framework Extension
Reference Layers
Themes/Product
ServiceURLs

JSON is best for a viewer config
- Fast with JS APIs
- Has flexibility in some parameters KML does not have
- OGC Context Profile XML is outdated
- can be passed over a POST HTTP URL call fast,

Any Viewer with Px3 JSON or ESRI JSON Reader

-NGP Px3 API Instance-

SaveAs OpenIn LINK w/Px3 or ESRI JSON JSON for Preview

—ESRI JS/Dojo API—

—FLEX API—

—Openlayers API—

—ArcGIS.com—

Future Other Viewer Possiblities

—Save Map As Module—

Default Content

1 URL added

>1 URL added

Default + Zoom level Center point Layers turned on

TNM Viewer

—Link Function—

Link only viewable in Px3

—Widget—

—TempJSON Module—

Save As

IF 1 URL added in Search Box, will be saved in link But No transparency or order changes

The 1 URL could be a KML file with multiple URLs

Save As Module

—JSON—

—ESRI JSON—

—KML—

—MXD—

—PDF—

—JPG—

—PNG—

—OpenIn Module—

—TempJSON Module—

—Widget—

Any Viewer

TempJSON Module currently embedded in the Px3 Viewer app, but we'll look to strip out as standalone so other Viewers could leverage the same reader where makes sense

The Save As module can be called from any viewer – the TNM Viewer will just be the first to use it. That means any viewer who uses it can also be easily ported to another viewer

KML does not handle all the Context Profile parameters, but overall, it is a great way to pass to tools that only read KML like Google Earth or APIs that already support it like Google Maps OpenLayers supports either, so gives user choice of get simple, but limited in KML or flexible and extendible in JSON

Any Viewer with KML Reader

—Google Maps API—

—Openlayers API—

—Google Earth—

MXD Support

—ArcGIS 9.x—

—ArcGIS 10.x—

Make Easy for the 11,000 DOI ArcMap users and especially scientists who use a viewer like TNM to zoom in and mashup , inspect data, download it, and leave, but let then save that mashup as a 1-click start to their ArcMap work

Any Viewer with JSON Reader

—ArcGIS.COM for ESRI JSON

—OpenLayers API for ESRI JSON

—PX3 JSON Reader—

Save your Mashup, and now re-use as an instance of TNM Viewer either in the TNM Viewer, or brand as your version of TNM Viewer or open that JSON file in another API that supports that JSON standard!

Px3 JSON

Physical Save the Temp JSON
Allow for user download
Temp file accessible Good for 10 minutes
Expecting many NGP Instances coming in FY12 and FY13
Expecting USGS, DOI, and other Partner externally hosted instances to come in FY13 and FY14

Initially, v18 config schema will be your input into TempJSON that your add changes to and generate as output. V19 WILL CHANGE!!! V19 will have the base based ESRI JSON and include Px3 JSON extensions (like service, service groups, intial extent.. ALL will change to the ESRI REST Open Specification) – BUT the Px3 JSON extensions should remain the same or is irrelevant anyhow

ESRI JSON

Physical Save the Temp JSON
Without the Px3 extensions as documented on left
Just strip them out
This should be readable by ArcGIS.com and the AGS REST SPEC
Some Transforms may need to occur – if so, this would add time
Ultimately, this would be the JSON based for a standard if OGC, OpenLayers, AGS, and other USGS/ DOI viewers were to adopt a JSON standard
In future, the Px3 Module would need a ESRI JSON detector and reader
NGP EA discussing with ArcGIS.com for how to come up with ESRI JSON Spec updates

Sciencebase.gov Early FY12

ArcGIS.com REST SPEC is published

LINK w/JSON (Preview)

This is the Open In module where a user can select to preview in Px3, Google Maps, or OpenLayers

Open in Px3 using Temp file
Create a quick ESRI JSON Reader for Google Maps
Create a quick ESRI JSON Reader for OpenLayers

KML

Likely need to reorder the Services in ServiceGroups by KML Read order
May need to research when the services are read to be turned on to assure KML order is OK
Should read in annotations
Need to make a basemap group and the overlays groups - Look at what each API supports as far as showing the basemap as a group in Table of Contents or as buttons
Consider how the metadata popups work in KML to show the metadata URL, legend URL
Do not look to harvest the metadata or legend URL, lete the KML API handle that onthefly
KML should be readable by Google Maps KML API
KML should be readable by Google Earth KML API
KML should be readable by Px3 KML API via Search/Add Data – if reading in for Px3, only the user added content will be read using the same code for passing in a multiple URL
Currently the KML output in Google Earth and Px3 has view issues
Reference the Px3 documentation on the KML API support for Px3 and Google Maps - http://viewer.nationalmap.gov/help/KML%20Support%20in%20Palanterra%20X3.htm

MXD

Investigate using TempJSON Java output as input to MXS using Jython (Java Python bridge) or similar. Otherwise, need a 2nd tempJSON generator in Px3
Needs to handle generating LYR files to be embedded in MXD
Generating LYR files currently only tested for REST, need to do from WMS, RSS, KML
Once LYR files generated – using Java, then pass the tempJSON and LYR files to ArcPy to build MXD
Use CDI code to build MXD as base, and refactor
Need to handle reordering like PDF, and KML

PDF

Refactor code into a SaveAs Module
Separate the TempJSON source generator leaving that in the Px3 and PDF part of SaveAs Module
Need to take old USGS Print module code, examine, and bring support to hand the Px3 bugs such as WMS, KML, RSS support as well as the byte type setup for handling different image types
Fixed Transparency in the USGS Module already
Fix Order in the USGS Module
Consider when Px3 v18 comes out, what code should/could be brought in
PDF Layer Control in Future

JPG

Refactor code into a SaveAs Module like PDF
Leave Alone until Px3 v18

PNG

Refactor code into a SaveAs Module like PDF
Leave Alone until Px3 v18

OpenIn Module

In Save As widget, have option to view in different viewers
Wee have Openlayers code that reads a stub JSON spec, need JSON Reader rewritten to handle ESRI JSON reader spec – estimated at 2 days and pass URL into API
Google Maps – new ESRI JSON reader and pass in JSON to URL
These JSON Readers could be zip downloads as quickstarts for other USGS or whoever viewer devs to start with help spread concept of same JSON Spec
Coordinate with the USGS WIM team for a Flex API and open in

LINK Changes:

See notes on taking in KML with multiple URLs

See note on the search q param and user added content change to v param

Consider how to pass the metadata attributes fomr a user added content – pretty name, metadata URL, SOAP URL, transparency, order

If not easy, don't do, add FAQ that is user needs this, they need to do a Save As. Repeat, this is low priority for link, and the main purpose of the Save As

Widget Changes:

Use the widget workflow from Px3 fro the print module as a basis for the Save As

Expect our widget to be different from Px3, so put this in the USGS Extensions

Have the widget options be driven by the default.json SaveAsConfig parameters on which options are turned on (JPG, PNG, PDF, KML, JSON, MXD, AGS.com JSON, etc.). Currently this is a pdfconfig in the extract.json

TEMPJSON
Needs to be part of the Px3 Viewer
Will be based on the Px3 JSON standard – documented in docs/admin/Configuring Config.json

Other viewers would need to make their own Temp

JSON output and pass to Save Map which is standalone API for any viewer to call

Temp JSON needs to copy the default.json into memory then attempt to gather all user changes such as:
SOURCE JSON UPDATES:
Map Setup
New initial extent, initial level zoom, center point and Update mapconfig and layoutconfig attributes
Update which service group is initially enabled/expanded
Read in the projection from initialbaseserviceid to avoid any hardcoding for webmerc or wgs84
Service Setup
Get and updated list of what services are on (initialon) and what may be turned OFF!
Get and updated list of what layers are on and what may be turned OFF! Sometimes, some layers may not be explicitly called out, and this will need to be added if the layer is now visible on
Get and update which is the basemap group that is initially turned on

SOURCE JSON ADDS:
Read in all user added content as well as the service attributes
Read in all user added content for annotations and what is visible

Leave the Px3 additional variables alone at this time and keep in the target temp json, but likely nonPx3 viewers will ignore.

Likely this temp JSON module will need to be a USGS Extension, overriding the default Px3 which is more embedded for pure Print Module.

This code could be offered back up to Px3 team, but they may not accept.

Flex API example:
http://wim.usgs.gov/ColoradoRiver/ColoradoRiverMapper.html
WIM team: Jon Baier, Gary Latzke (mgr)

Open Layers Code
http://privusgs6.er.usgs.gov/GeoExtExample/
Zip in https://my.usgs.gov/jira/browse/NGTOCCSDTNM-1059

In the target state requirements (Should be loaded into JIRA as descriptions for existing items or subtasks for newer detail)

SERVICE TYPE IN JSON CHANGES:

Having services in a default JSON that works for REST, WMS, KML, RSS in the Px3 JSON Reader.

Not all APIs will likely handle all of these, and that's fine, but we need it in ours.

Projection support depends on the viewer, but usually viewers in WebMercator will also support WGS84 calls with a reproject on the fly call

Issues with supporting WMS, KML, and RSS needs to be coordinated with the Px3 Team

JSON INPUT CHANGES:
Currently, the only JSON file that can be read are JSON files on the server and passed via p or profile param

There should be a way to pass into the URI an external JSON.

At this time, crossdomain.xml should garner what domains are allowed (like .gov, .mil, .doi.net, etc.)

Should consider if external, so we need an additional run-time lint check or a parameter where the user at design-time gets a checksum from a JSON lint and we check the checksum result which has validated it's a good JSON

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Support sub-JSON enterprise files from multple stewards

These should also have a checksum pre-check to assure the sub-JSONs are validated

This code would go back to Px3 as an offering, though they may not accept

These files could also be on external URLs, based on crossdomain OK.
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Download Framework also needs to support Sub-JSONs, checksum, and external URLs

KML INPUT CHANGES:

Current, we can take a KML with data, but not a KML with list of services, which can be added to user added content.

Services should be OK to be in a KML

This is likely code that would go back to Px3.

The search box and add data should be able to handle this. Currently 2 separate code modules, but same code

Should handle the 4326 to Web Mercator conversions

The Tree in the User Added content should start with the KML file, then the children are the services and layers are harvested on read in after loading from add data/search box

SEARCH BOX AND ADD DATA CHANGES:

We need to support saving the first URL under v param and the last search in the link under q param.

Currently can do one or the other because q is used for both.

As well, possibly see if Multiple userr added content URLs can be added this way in the V param.

This code should be offered back to Px3

Also Search and Add should be able to handle the same 4326 to webmerc conversion

This conversion should be for not just WMSs, but REST, KML, and RSS

Look to add to add data and search the fuzzy pattern logic to lookup the SOAP URL and metadata URL based on known patterns for REST, WMS, etc. – try quickly and if works, update that JSON param, otherwise, skip

We expect catalogs like sciencebase.gov, data.gov, and others to use this as a preview technique for passing in a mashup context with 1 URL or 1 URL for a KML file with multiple URLs. Already have beta tested this in sciencebase.gov and a Biological GAP/Land Cover Inventory Catalog of Parks.

Px3 Baseline:

Expect to code against Px3 v18

Likely we will look at replacing the Print Module with the New Save as. Module

Move the current v17 print module as the PDF, PNG, JPG base for the new save as module

When v18 new print comes out, consider what fixes would benefit to bring over

Consider reusing and copying as much code as makes sense

The save as module should be standalone with the exception of the widget which should go under the USGS module extension area.

Save As should be offered back up to NGA, but not expected to be adopted

Also, as noted, any changes to search box, add data, KML Input, external json, multiple sub-json support should be considered to offer back to Px3

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