

ESIP Membership Application

Response ID: 53 Data

1. Contact Information

1. Primary Contact

First Name

Name

Pat Cappelaere

Title

CEO

Organization

Vightel Corporation

Street Address

8303 Winter Wind Ct

Apt/Suite/Office

City

Ellicott City

State

MD

Postal Code

21043

Country

Email Address

pat@vightel.com

Phone Number

443 283 0369

Fax Number

443 283 0370

Mobile Phone

Website

2. Designated Assembly Representative (if different from primary contact)

Is the contact the same as above?

First Name

Name

Title

Organization

Street Address

Apt/Suite/Office

City

State

Postal Code

Country

Email Address

Phone Number

Fax Number

Mobile Phone

Website

3. Please add any alternate or proxy assembly representatives, if available.

Is the contact the same as above?

First Name

Name

Title

Organization

Street Address

Apt/Suite/Office

City

State

Postal Code

Country

Email Address

Phone Number

Fax Number

Mobile Phone

Website

2. About Your Organization

4. Please give a main website address for the proposed Partnership:

<http://www.vightel.com>

5. Describe your organization's role in the Earth science community

I am working Software Architect for the NASA Goddard SensorWeb (<http://www.geobliski.com>). Our vision is to provide GEOSS end-users "products" (actionable information) based on existing assets and science data. This may include automatically tasking EO-1, processing the data and delivering it back to the end-users. We are designing automation onboard the satellite (low-latency product generation) and on the cloud (on-demand products). This is the basis for next generation decadal missions such as HypSIPI. My role is to design the software end-to-end (onboard and on the cloud)

6. Please describe your organization's Earth science data/technology activities.

- Develop of a Web Coverage Processing Service (WCPS). WCPS can run on the Intelligent Payload Module (developed for HypSIPI and other airborne missions such as GLiHT, AMS...). It allows users to upload custom algorithms, run the algorithms on current scene (or archived data) and get product in near real-time. On the cloud, users can process EO-1 ALI, Hyperion, Landsat-8, ASTER data...
- Develop Secure RESTful interfaces for Sensor Planning Service (SPS) and other similar OGC services. I am the current chair of REST policy SWG.
- Develop the next generation of Open GeoSocial Interfaces to bridge end users and lower level OGC interfaces. Social networks are critical to information discovery and sharing. GeoPortals do not really work well for GEOSS users. This work involves semantics (verbs, objects, activities and behaviors) that may benefit ESIP.

7. What are the primary sources of your funding?

NASA grants

3. How will your organization benefit from or contribute to the Earth Science Information Partners (ESIP) Federation

8. Describe current or anticipated users of your products and services and how you think the Federation can help you better serve this population.

Disaster end-users
ESIP could help in providing relevant products

9. Describe technologies that you have developed and are willing to share with the Federation?

various OGC API's and web services

10. Describe how you can contribute to the efforts of one or more standing committees, working groups and/or clusters? (200 words or less)

Could contribute to:

- Cloud computing
- Discovery
- Geospatial
- Open source
- Products and Services
- Visualization...

11. Describe your own use of Earth science information and data and how you would see this use enhanced by your partnership in the Federation.

Current ESIP data is not easily discoverable by GEOSS end-users. GEOSS users want products. They do not care about data. There is a huge disconnect that we are trying to bridge. Our push is to get the data publishers to publish products and behaviors that would be relevant to end-users based on the various GEOSS societal benefit area needs. This is exactly what is being required by the new White House mandate for civil earth remote sensing. This is the Open GeoSocial API. For more information, many slide decks are available on slideshare.

We are hoping to show a demo in Jan 2014 at the GEOSS plenary. The focus of demo will be in support of flood disasters. Users will be able to discover in realtime many relevant products from multiple sources and share with their community of interest on Facebook or equivalent.

12. Select membership type

ESIP-II (primarily a research center)

4. Other comments?

Any other comments about your proposed membership and its relation to the Federation that you wish to provide.

5. Thank You!

Email notification

Apr 04, 2013 15:49:58 Success: Email Sent to: erinrobinson@esipfed.org

Copy of Email notification

Apr 04, 2013 15:50:00 Success: Email Sent to: carolbmeyer@esipfed.org

Copy of Copy of Email notification

Apr 04, 2013 15:50:01 Success: Email Sent to: jsoidaldo@ciesin.columbia.edu

Email to potential new member

Apr 04, 2013 15:50:06 Success: Email Sent to: pat@vightel.com
