



The DISDI Geospatial Metadata Profile (DGMP)

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DGMP Agenda

Acquisition, Technology and Logistics

- DGMP overview
- Specification Revision v 1.1
- DGMP tools
- Deployment strategy
- ESRI Metadata Authoring Demonstration



DGMP Forward Vision

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Standards: All IGI&S data shall conform to the Spatial Data Standard for Facilities, Infrastructure, and Environment (SDSFIE). **All IGI&S data shall have appropriate metadata, conformal with the DISDI Geospatial Metadata Profile (DGMP).** The data and metadata shall conform to the current version of the respective standards; migration of data or metadata from old to new versions shall be implemented according to timelines proposed by the DISDIG and approved by the RP&ILM DGB.

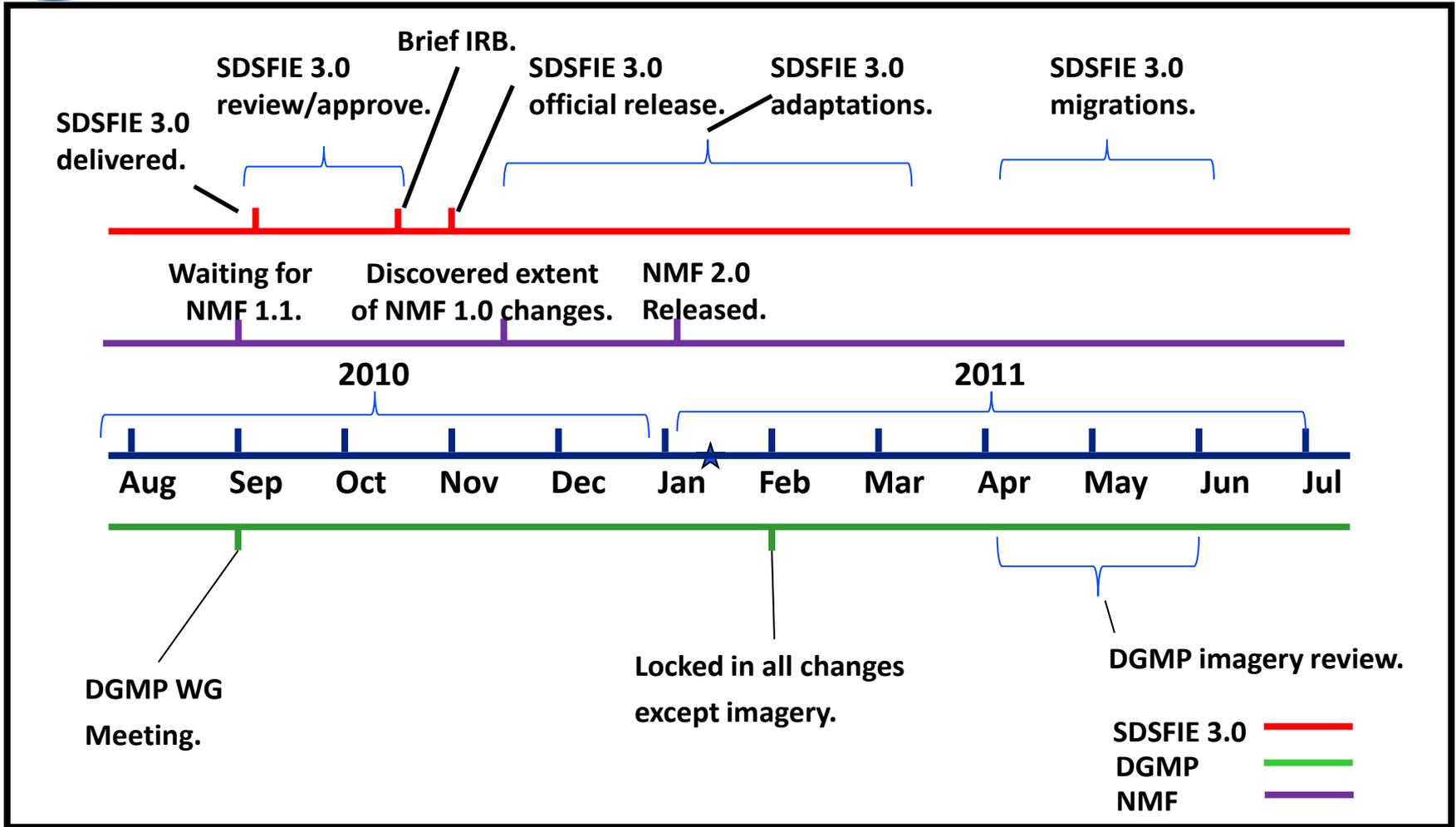
Source: DUSD (I&E) Guidance Memo 14 April 2009

- DGMP was officially mandated 14 April 2009.
- DGMP should be deployed in parallel with SDSFIE 3.0.



DGMP Revision Progress

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DGMP Specification Revision



DGMP Specification version 1.0

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- Profile of ISO 19115.
- Officially released August 2008.
- Managed by the DISDI Group (DGMP Working Group).
- Replaced FGDC CSDGM standard for DoD Installation geospatial metadata
- Each IGI&S Program will establish conversion timeline.



Recommended DGMP Revisions

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- Add richer metadata imagery elements similar to ISO 19115 Part 2 .
- Add the NAP Service Identification elements (revised 19115 is doing this).
- Add the NMF/DDMS Security Marking to be consistent:
 - Identify additional constraint markings that address IGI&S specific requirements.
- Add the 5 additional NMF/DDMS elements that are not currently in DGMP to be consistent.
- Correct all obligation discrepancies between NMF/DDMS and NAP.



Suggested Imagery Metadata Elements

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- Pixel Resolution **[M]**
- Post Processing (pansharpened, orthorectified, etc) **[O]**
- Accuracy (ex. 4 Meter @ CE90%) **[O]**
- Image Area **[O]**
- Nadir Angle **[O]**
- Spectral Bands **[O]**
- Image Type (multispectral, panchromatic, true color, etc) **[O]**
- Sensor/Platform Information (Aerial, QuickBird, LandSat, IKONOS, etc) **[O]**
- Image Collection Date **[M]**
- File Format (TIFF, JPEG, GeoTIFF, etc) **[O]**
- Image Bit Depth (8bit, 11bit, 16bit) **[O]**
- Cloud Cover (percentage) **[O]**
- Leaf On/Off **[O]**
- Projection (State Plane Feet, UTM, etc) **[M]**
- Datum (WGS84, NAD83, etc) **[M]**
- Compression Type (MrSID, JPEG2000, etc) **[O]**

[O] = Optional [M] = Mandatory



USMC Suggestions

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The following attributes should be mandatory:

- Accuracy
- Spectral Banks
- Image Type
- Sensor/Platform Information
- File Format

Elements should be added to address the following:

- Imagery Dataset Name
- File Size
- Release and Restriction



DGMP Tools



DGMP Translation Tool

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- Submit CSDGM files to translate to the DGMP format.
- Search for translated files.
- View resulting DGMP files and Compliance Reports.
- Download resulting DGMP files and Compliance Reports.
- Recently revised to improve performance and efficiency.



DISDI Portal GeoCatalogue

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**Built on the GeoNetwork
Open Source framework.**

Authoring:

- DGMP creation and maintenance functionality.
- Metadata sharing through harvesting and XML export.

Discovery:

- Cross Department and Component targeted searching
- Global and geographic region metadata searches.
- Supports harvesting data from geographically dispersed sources.



Deployment Strategy



DGMP Components and Status

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| Item | Requirement Level | Status |
|----------------------------------|------------------------|----------|
| DGMP Specification | Must have in place | Complete |
| XML Schema | Must have in place | Complete |
| Translation tool | Must have in place | Complete |
| DUSD (I&E) Guidance Memo | Must have in place | Complete |
| Authoring tool | Must have in place | Analysis |
| Discovery tool | Very desirable to have | Concept |
| Metadata maintenance guidance | Very desirable to have | Concept |
| Net-centric discovery guidelines | Very desirable to have | Concept |



ESRI METADATA AUTHORIZING DEMONSTRATION