

CROP: Proposed Geospatial and Project-related Metadata Protocols for Data Management Collaboration

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GeoCAS: new UVI infrastructure

GeoCAS in a nutshell:

- Opened on January 2012
- Funded by NSF/VI-EPSCoR – new institute part of UVI CMES.
- Significant investment in geospatial and computational infrastructure for the Territory
- Significant investment in human resources (scientists, staff, graduate & undergraduate RA personnel)
- Providing one-stop-hub for geospatial data in USVI and the regional Caribbean
- Supporting primary research, education, management/planning, and community engagement/outreach
- Significant planned investment in the next 5-years beyond initial stage
- A number of federal and regional agreements and collaborations (incl. NOAA, USGIS EROS, etc.)

GeoCAS Infrastructure and Functionality

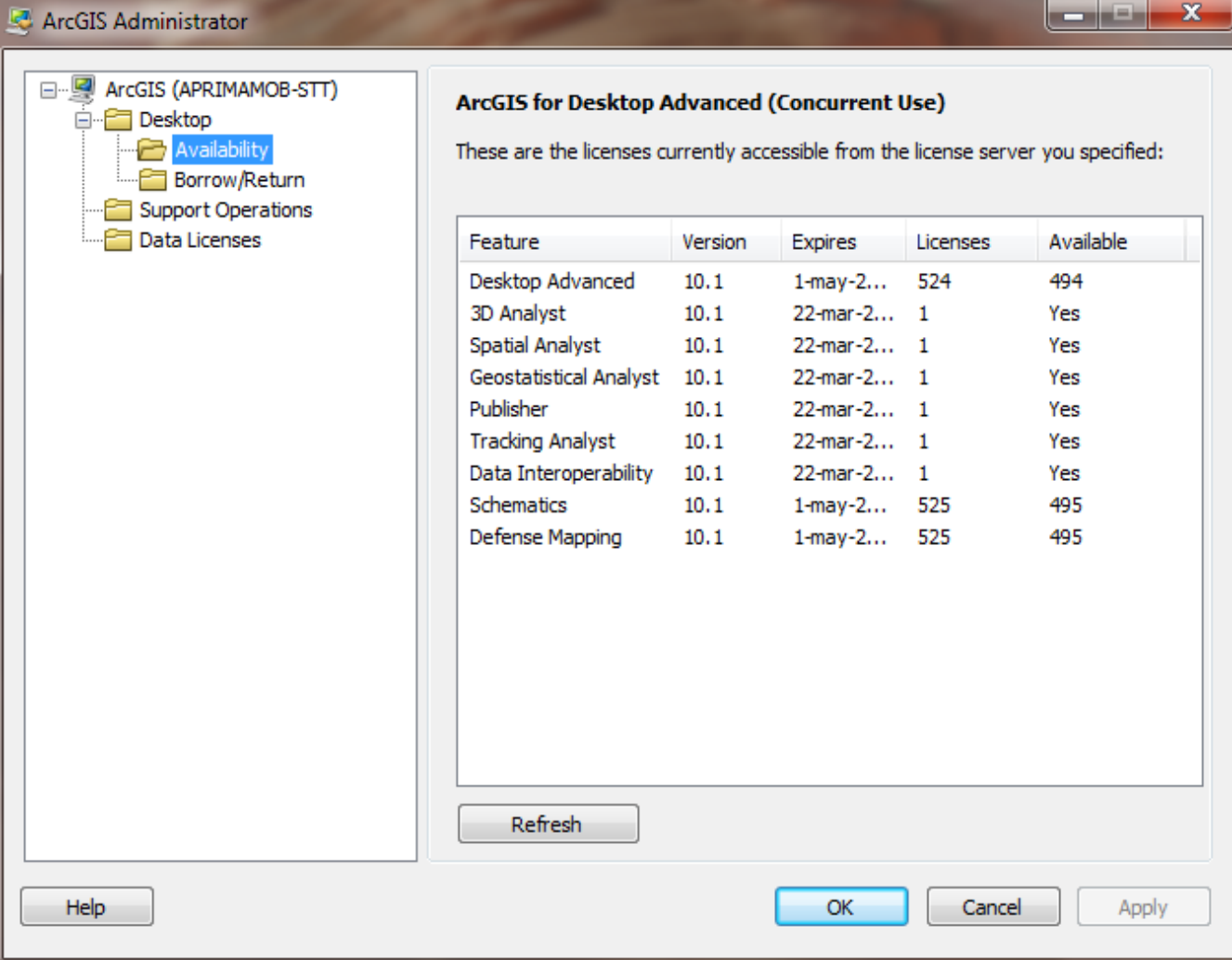
GeoCAS spatial infrastructure:

- **ArcGIS Software**
- **ArcGIS Data Server**
- **ArcSDE Data Portal/Services**
- **Data Storage Server + Arrays**

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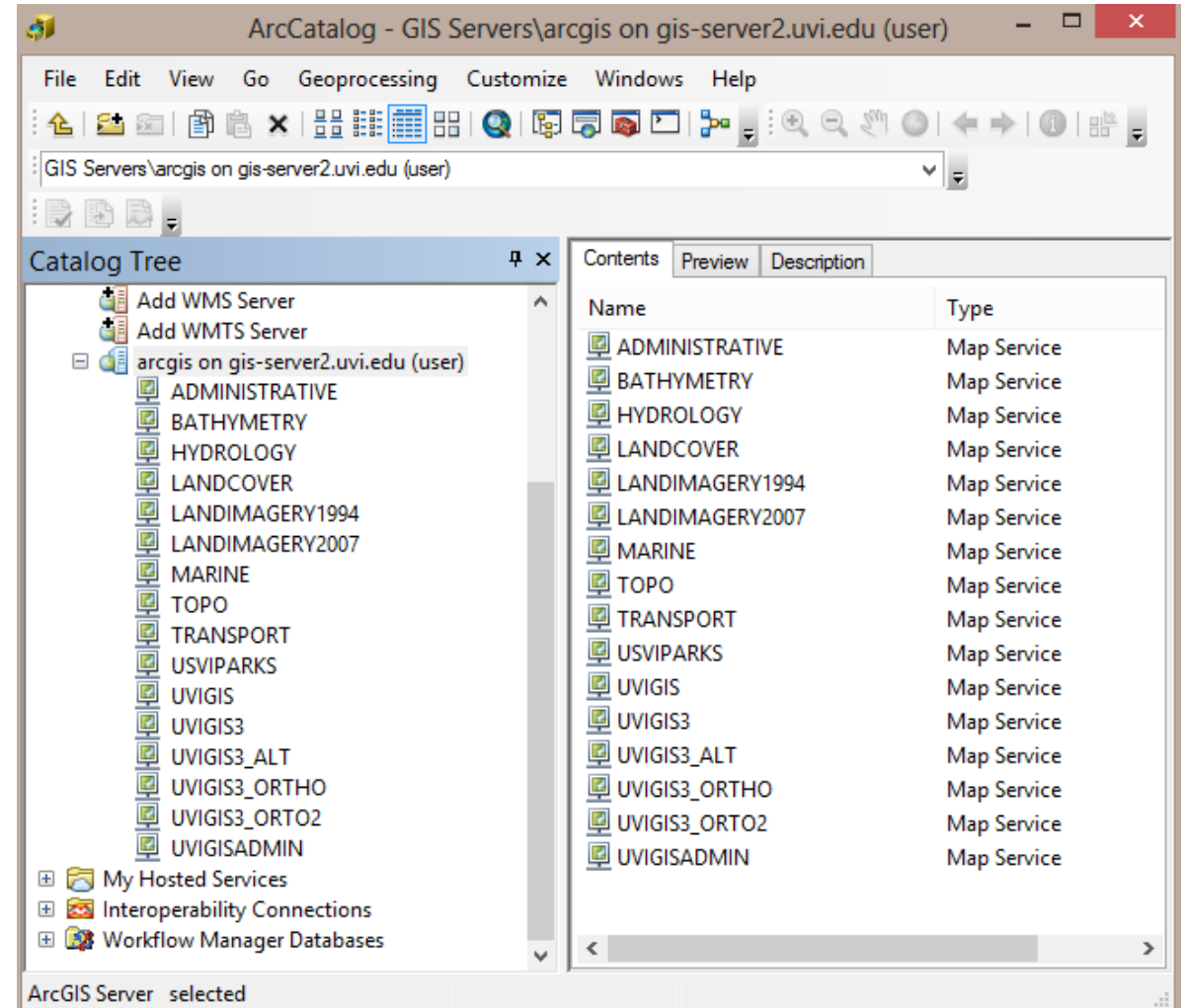
The screenshot shows the ArcGIS Administrator interface. On the left, a tree view displays the folder structure: ArcGIS (APRIMAMOB-STT) > Desktop > Availability. The main pane is titled "ArcGIS for Desktop Advanced (Concurrent Use)" and displays a table of licenses currently accessible from the license server. The table has columns for Feature, Version, Expires, Licenses, and Available. A "Refresh" button is located below the table. At the bottom of the window are "Help", "OK", "Cancel", and "Apply" buttons.

Feature	Version	Expires	Licenses	Available
Desktop Advanced	10.1	1-may-2...	524	494
3D Analyst	10.1	22-mar-2...	1	Yes
Spatial Analyst	10.1	22-mar-2...	1	Yes
Geostatistical Analyst	10.1	22-mar-2...	1	Yes
Publisher	10.1	22-mar-2...	1	Yes
Tracking Analyst	10.1	22-mar-2...	1	Yes
Data Interoperability	10.1	22-mar-2...	1	Yes
Schematics	10.1	1-may-2...	525	495
Defense Mapping	10.1	1-may-2...	525	495

GeoCAS Infrastructure and Functionality

GeoCAS spatial infrastructure:

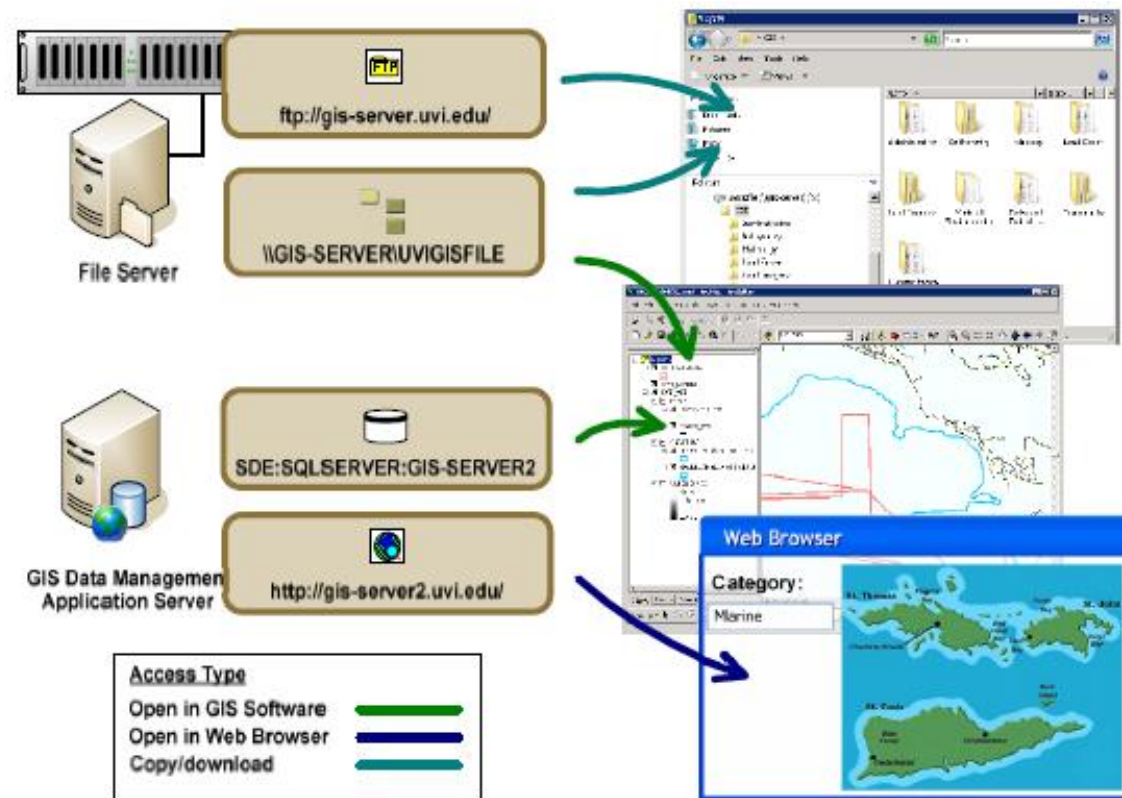
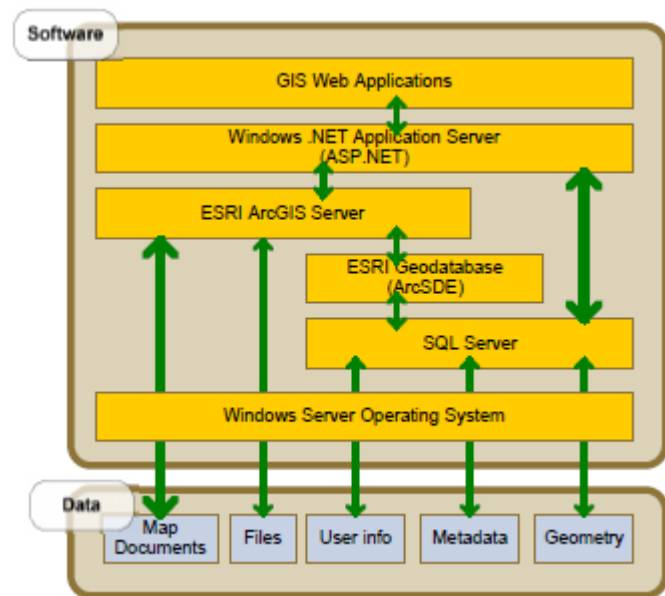
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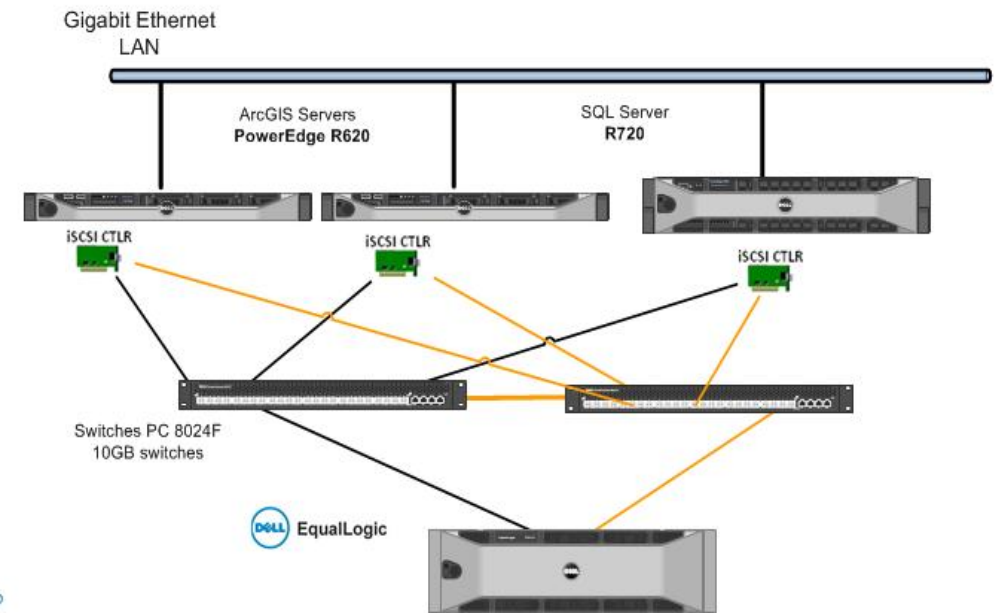
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USVI – ArcGIS Solution



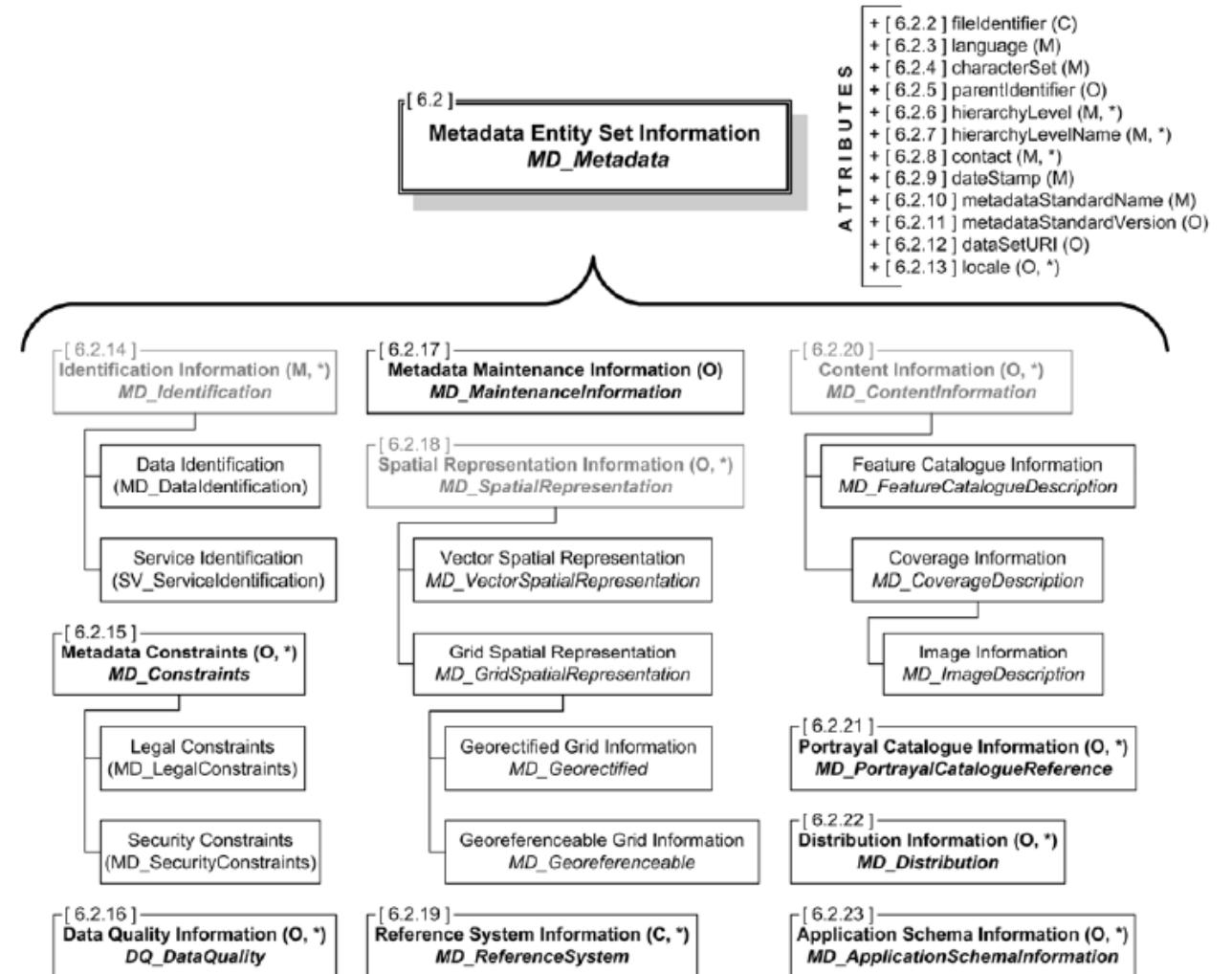
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Proposed metadata protocols

Basic Metadata identification:

Compliant with North American Profile of ISO 19115, ISO 19139, and Federal Geographic Data Committee Content Standard for Digital Geospatial Metadata (CSDGM) – ISO 19115 in XML format

- File identification & contact info
- Data & Service Identification
- Constraints
- Data Quality
- Maintenance
- Spatial Representation
- Reference System
- Content + Context
- Geospatial Catalogue Reference
- Distribution
- Application Schema



Supplementary metadata protocols

Additional/Supplementary Metadata identification:

Enforced compliance with previous ISOs and XML Schemas

- CROP-specific project metadata (???)
- GeoCAS project hierarchy and resource use (including custodial chains)
- Educational metadata (UVI)
- Tracking/updating metadata (timelines, cycles, etc.)
- Usage tracking log metadata (incl. meta-research capacity building)
- Training metadata
- Survey use metadata
- Reporting (internal, regional, and federal) metadata.

