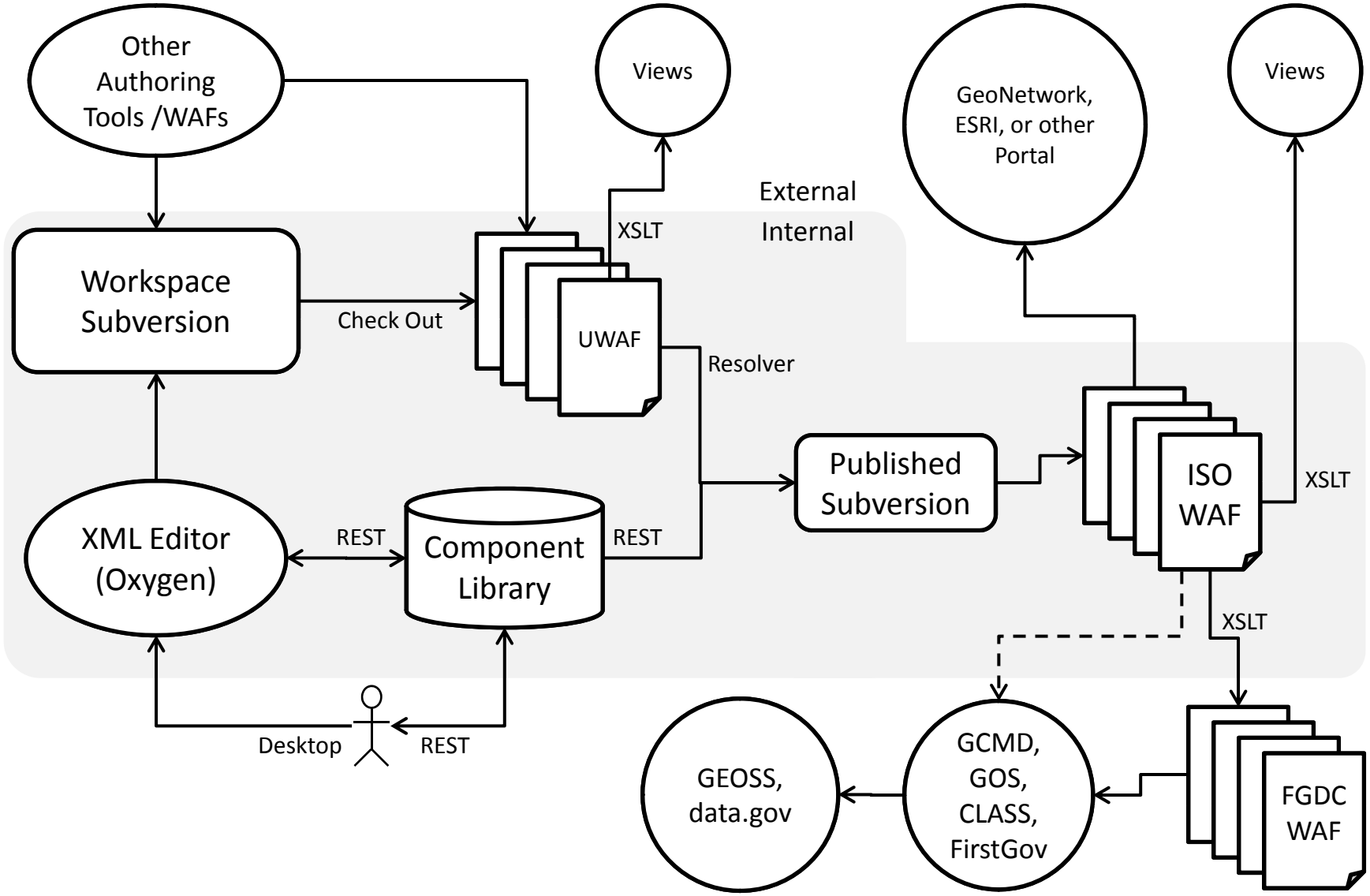
Translating from FGDC to ISO

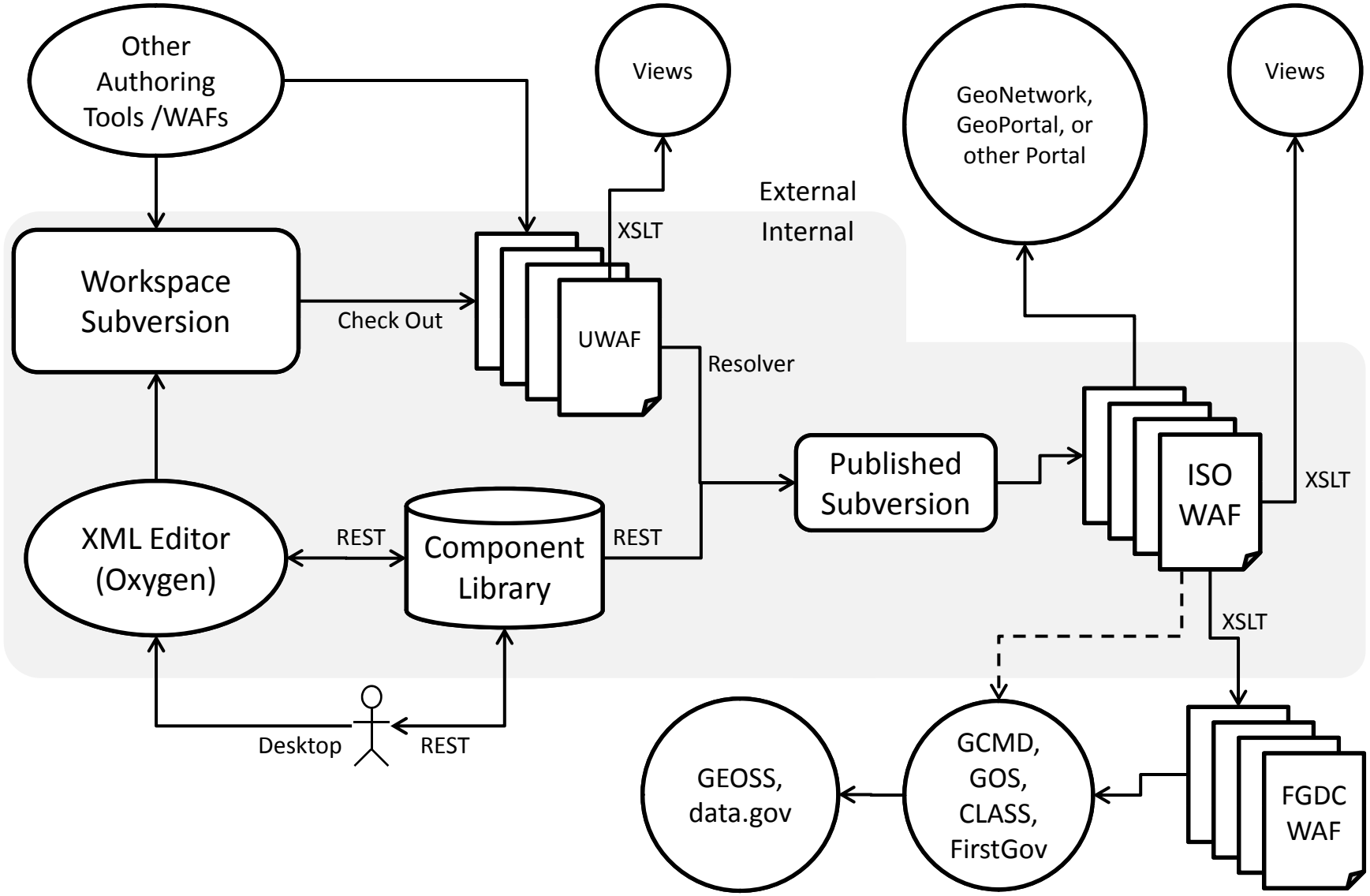
Ted Habermann, NOAA/NESDIS/NGDC

Principle Author NOAA EDMC Documentation Directive

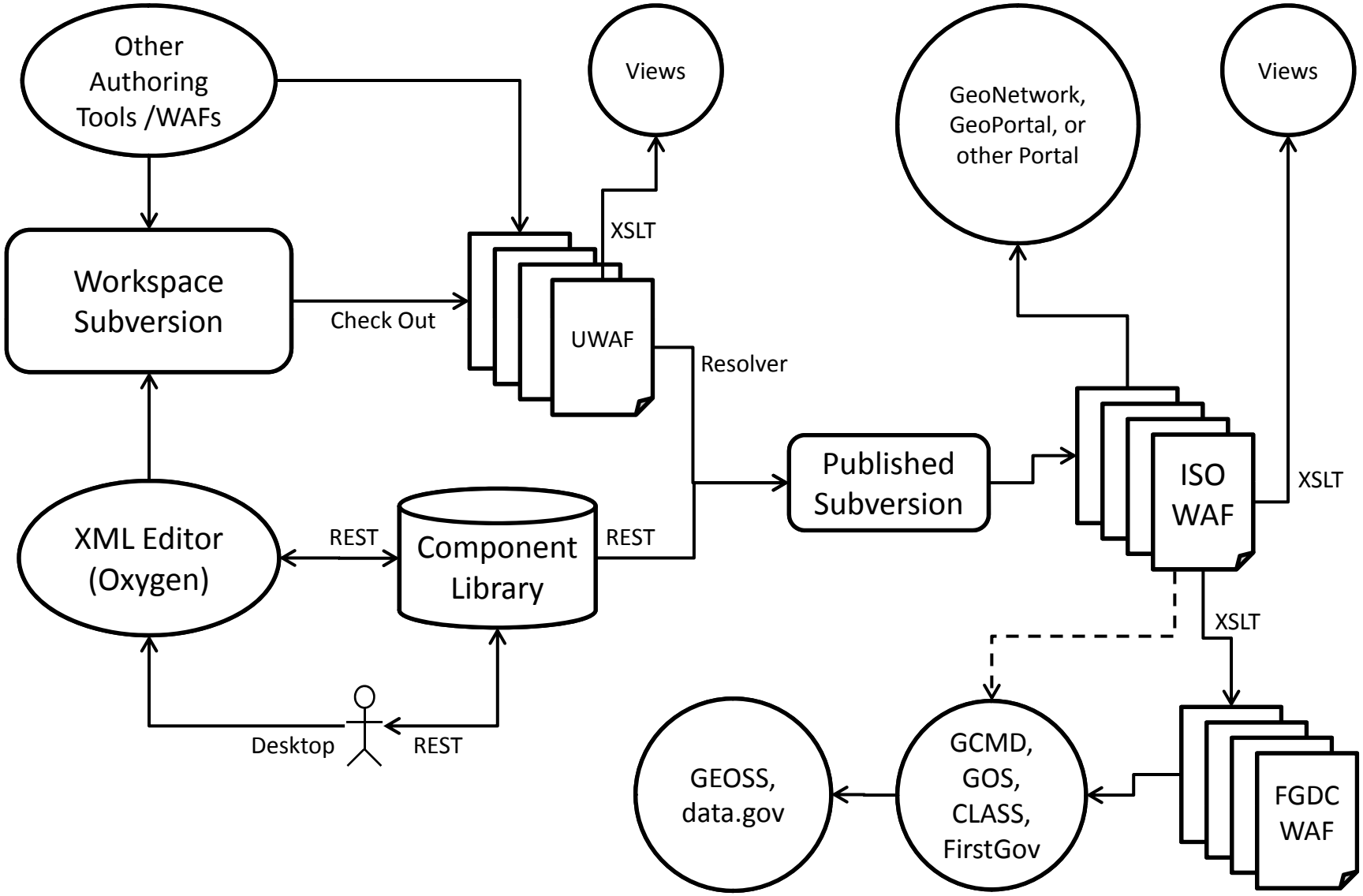
NESDIS Enterprise Documentation System



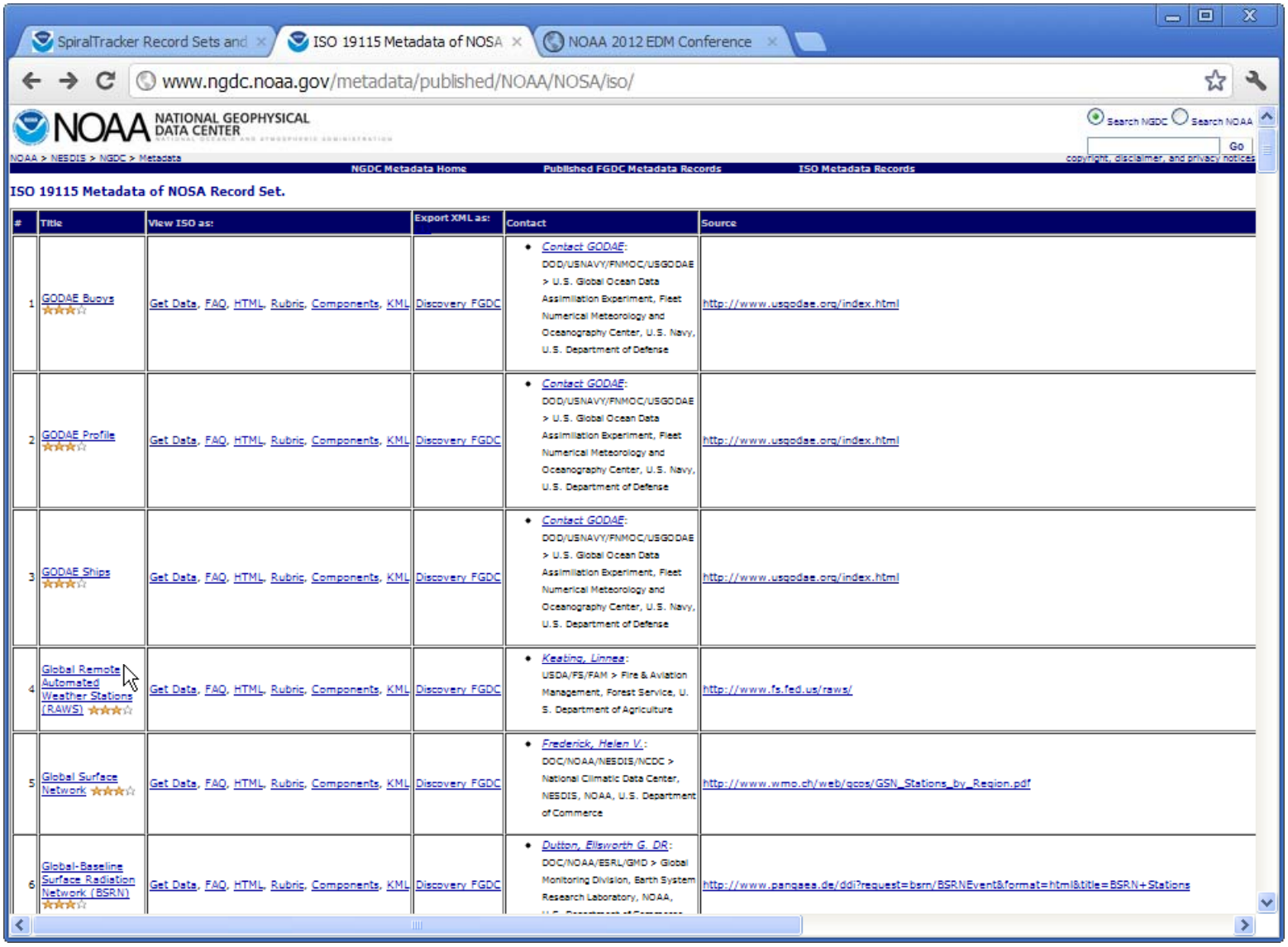
NESDIS Enterprise Documentation System



NESDIS Enterprise Documentation System



NOSA Web Accessible Folder



#	Title	View ISO as:	Export XML as:	Contact	Source
1	GODAE Buoys	Get Data, FAQ, HTML, Rubric, Components, KML	Discovery FGDC	• Contact GODAE: DOD/USNAVY/FNMOC/USGODAE > U.S. Global Ocean Data Assimilation Experiment, Fleet Numerical Meteorology and Oceanography Center, U.S. Navy, U.S. Department of Defense	http://www.usgodae.org/index.html
2	GODAE Profile	Get Data, FAQ, HTML, Rubric, Components, KML	Discovery FGDC	• Contact GODAE: DOD/USNAVY/FNMOC/USGODAE > U.S. Global Ocean Data Assimilation Experiment, Fleet Numerical Meteorology and Oceanography Center, U.S. Navy, U.S. Department of Defense	http://www.usgodae.org/index.html
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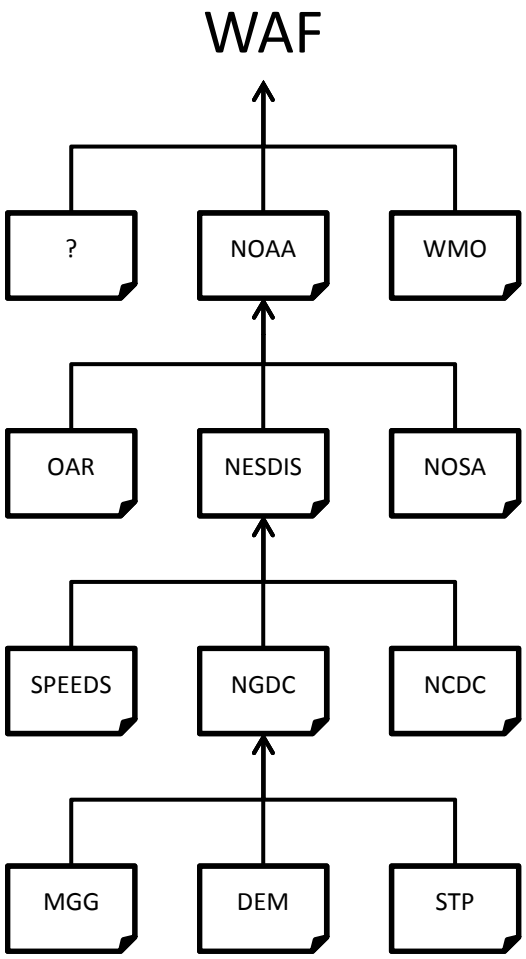
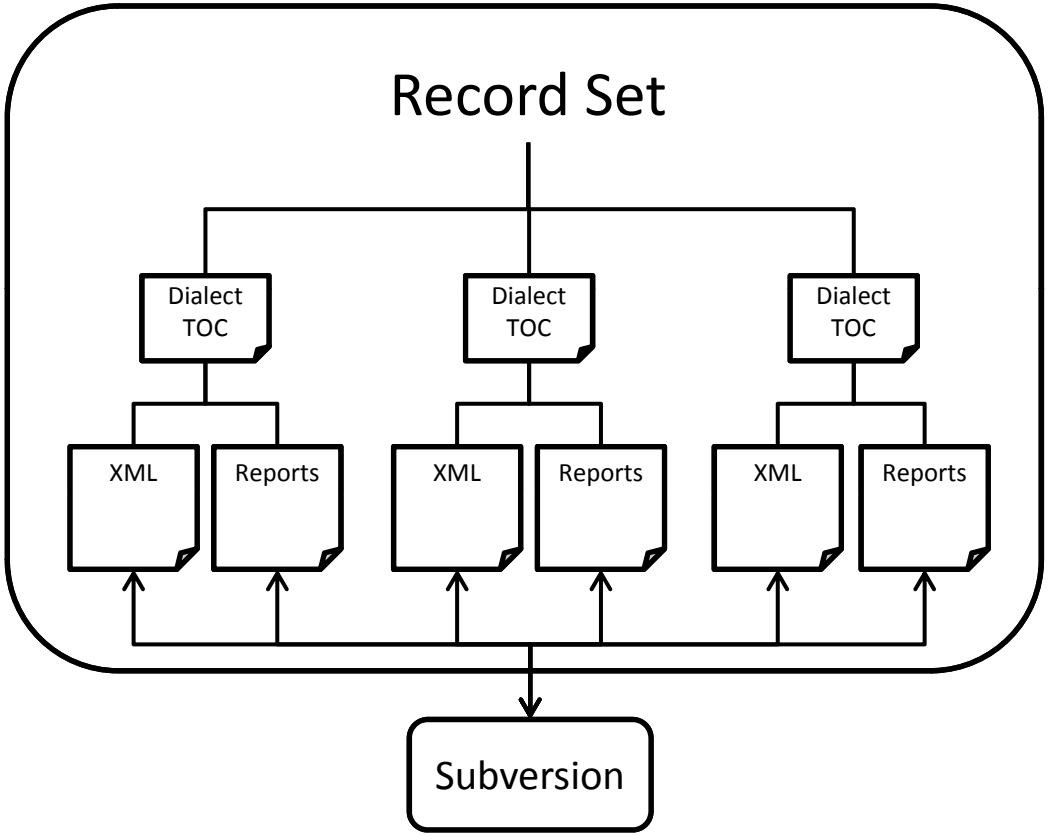
4	Global Remote Automated Weather Stations (RAWS)	Get Data, FAQ, HTML, Rubric, Components, KML	Discovery FGDC	• Keating, Linnea: USDA/FS/FAM > Fire & Aviation Management, Forest Service, U.S. Department of Agriculture	http://www.fs.fed.us/raws/
5	Global Surface Network	Get Data, FAQ, HTML, Rubric, Components, KML	Discovery FGDC	• Frederick, Helen V: DOC/NOAA/NESDIS/NCDC > National Climatic Data Center, NESDIS, NOAA, U.S. Department of Commerce	http://www.wmo.ch/web/gcos/GSN_Stations_by_Region.pdf
6	Global-Baseline Surface Radiation Network (BSRN)	Get Data, FAQ, HTML, Rubric, Components, KML	Discovery FGDC	• Dutton, Ellsworth G. DR: DOC/NOAA/ESRL/GMD > Global Monitoring Division, Earth System Research Laboratory, NOAA,	http://www.pangaea.de/ddi?request=bsrn/BSRNEvent&format=html&title=BSRN+Stations

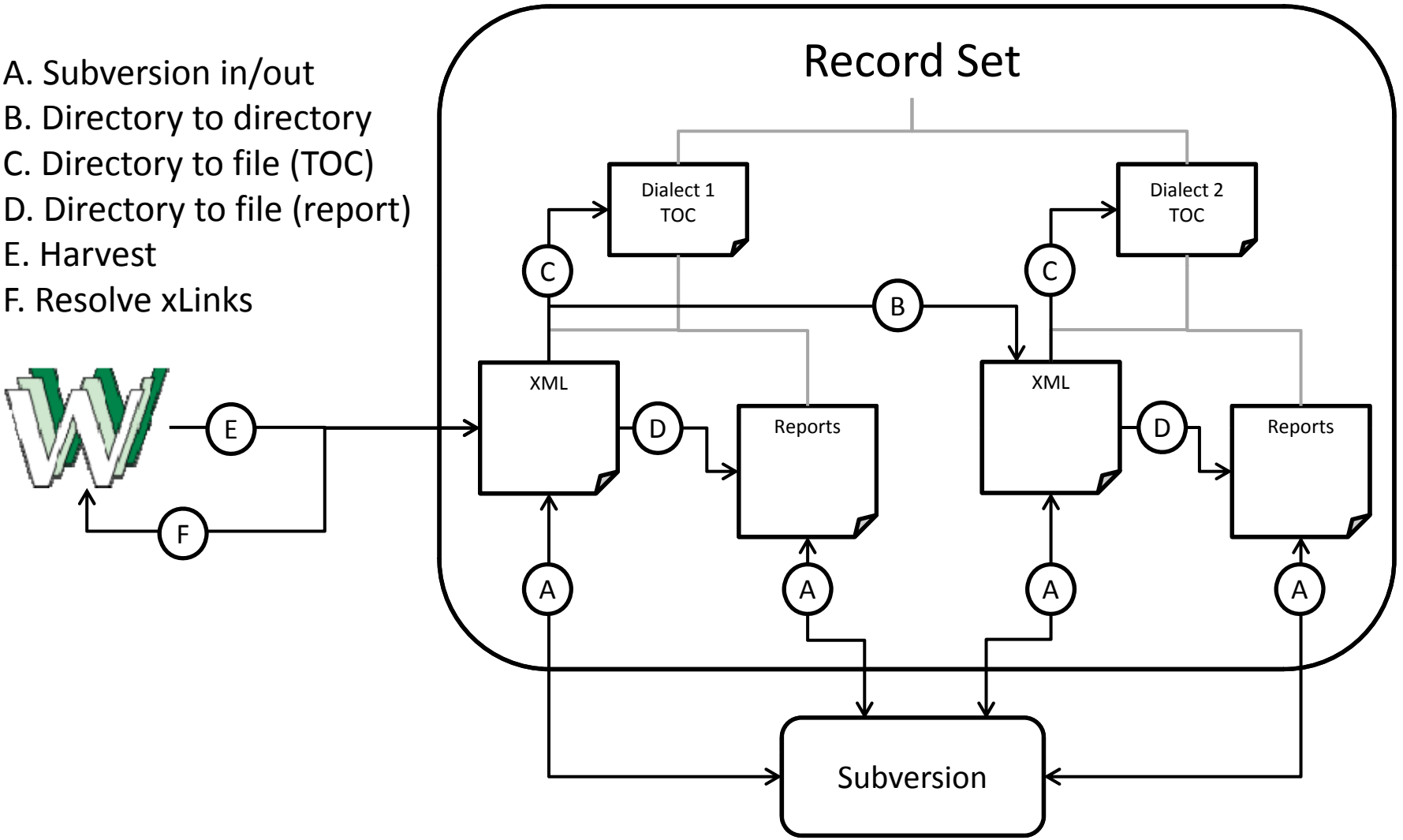
Enterprise Directory Structure



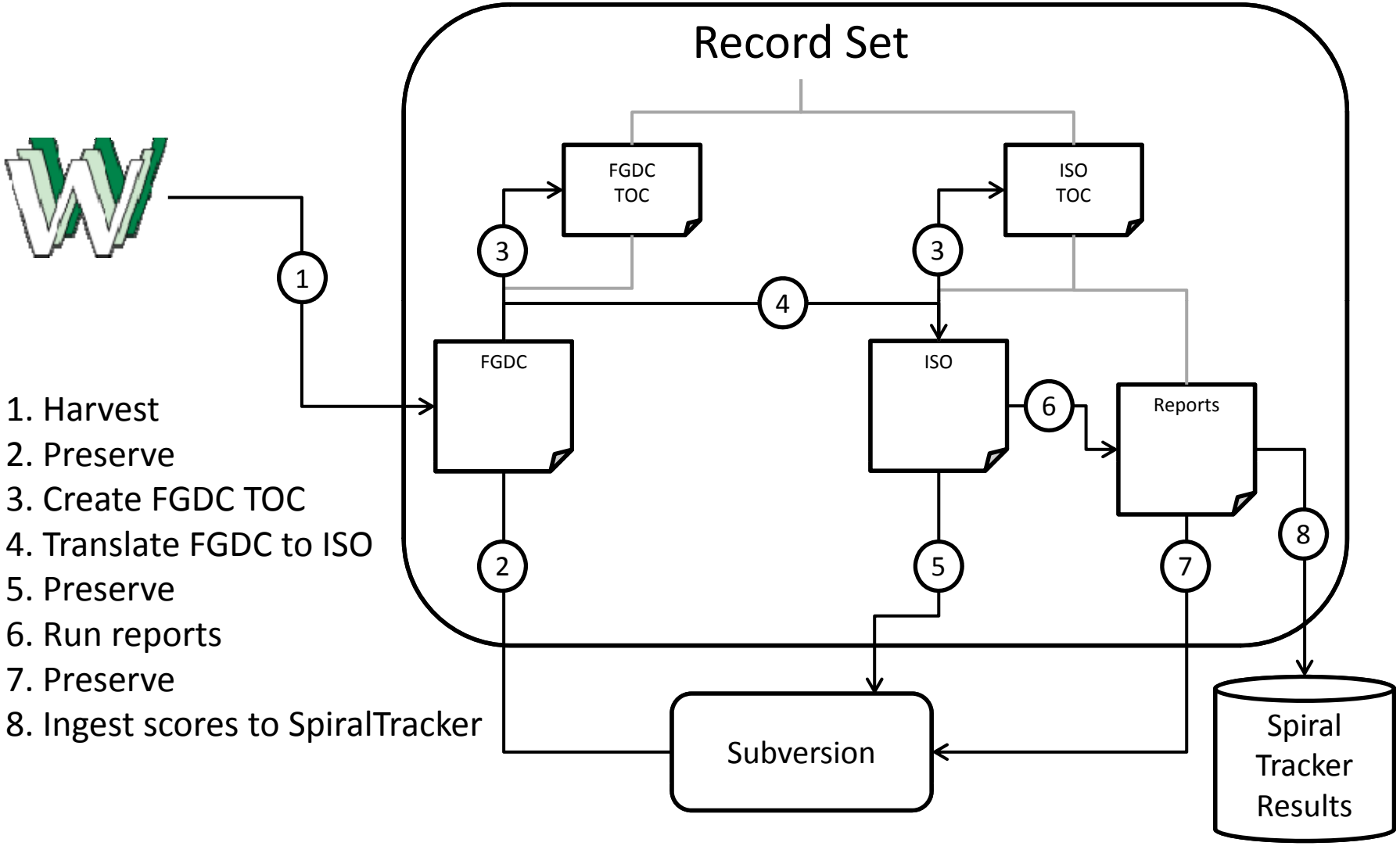


Enterprise Metadata System Operation Types

A. Subversion in/out
B. Directory to directory
C. Directory to file (TOC)
D. Directory to file (report)
E. Harvest
F. Resolve xLinks

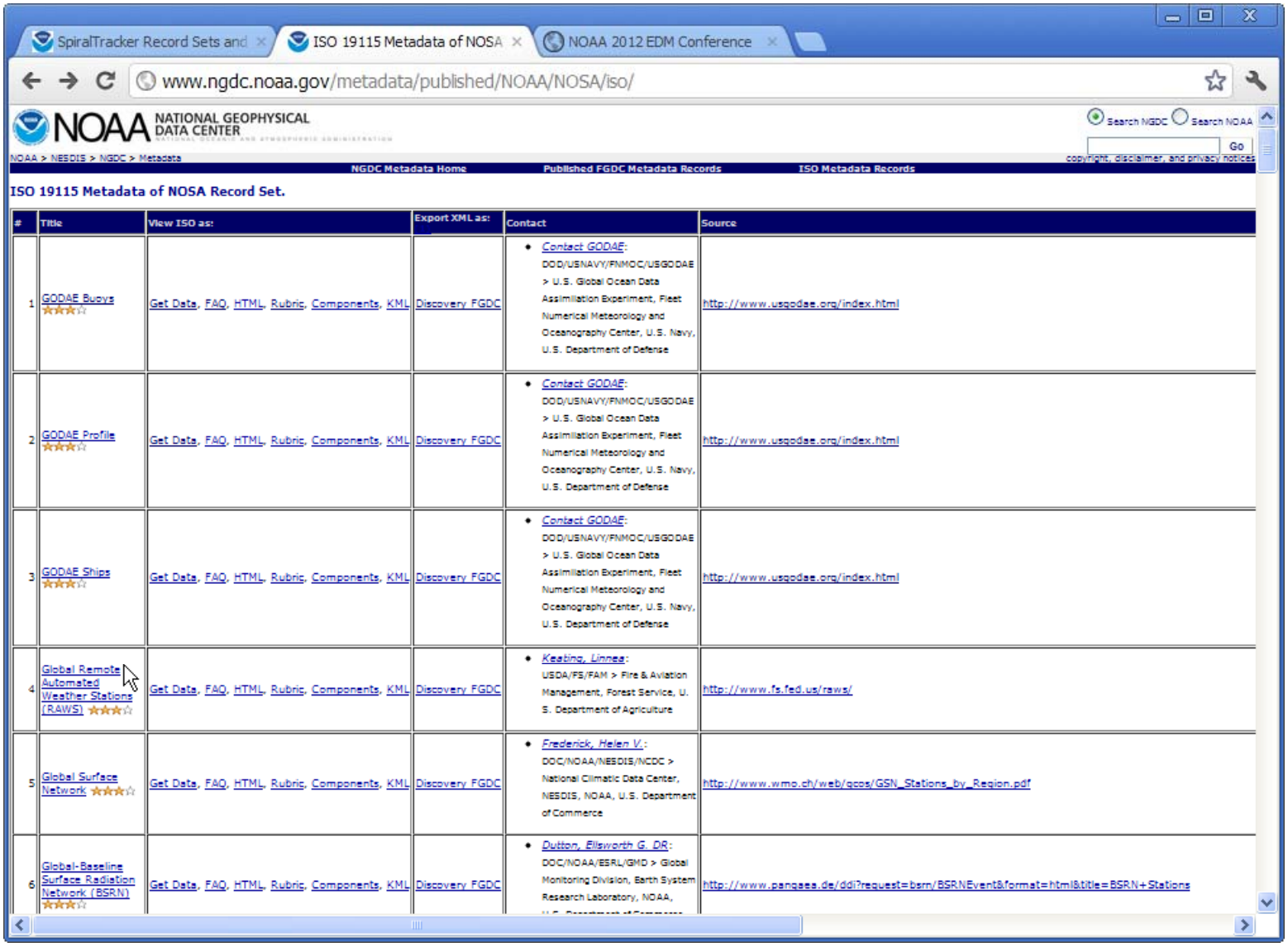


Example Data Flow: External FGDC WAF



1. Harvest
2. Preserve
3. Create FGDC TOC
4. Translate FGDC to ISO
5. Preserve
6. Run reports
7. Preserve
8. Ingest scores to SpiralTracker

NOSA Web Accessible Folder



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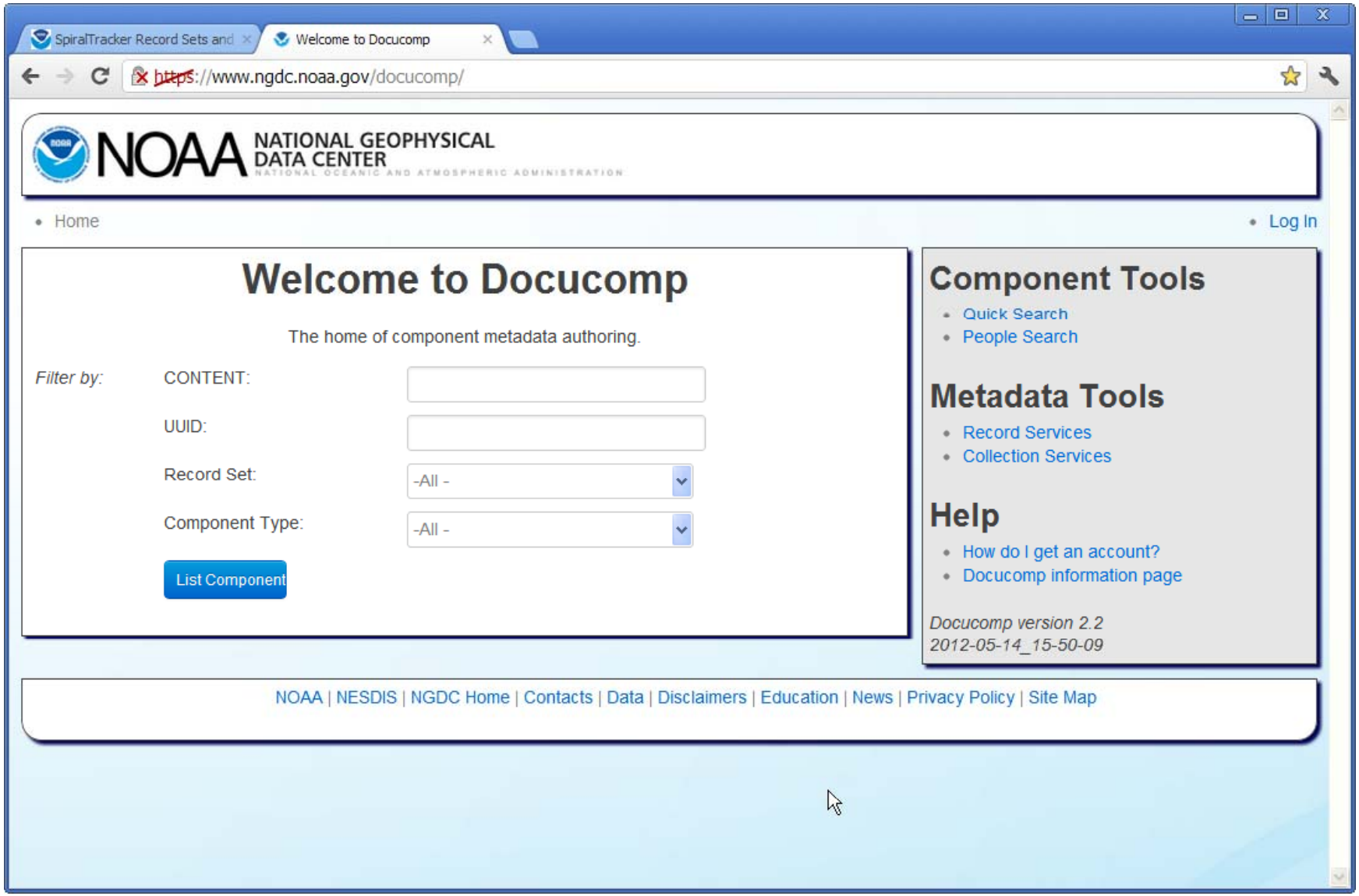
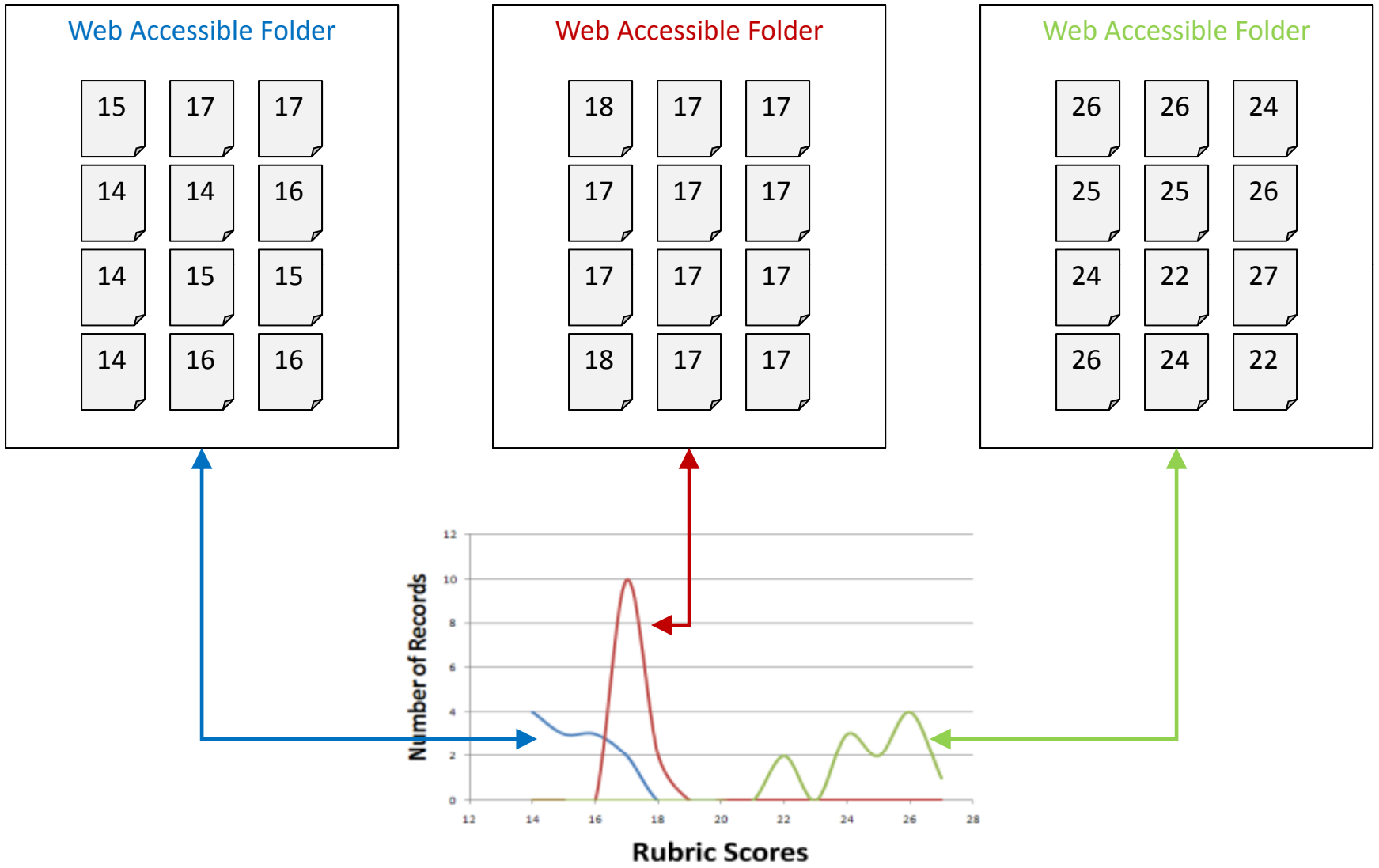
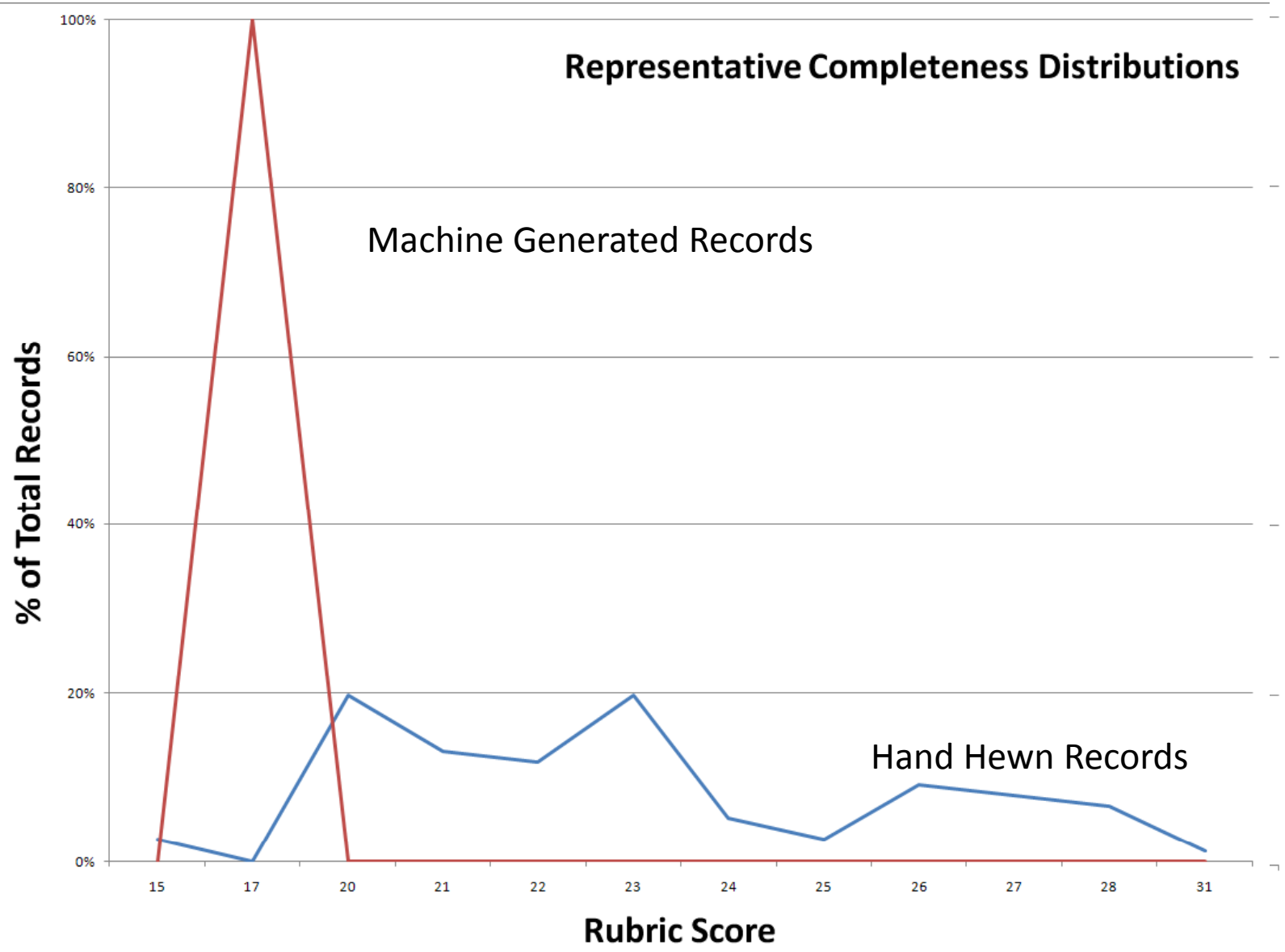
Component Management



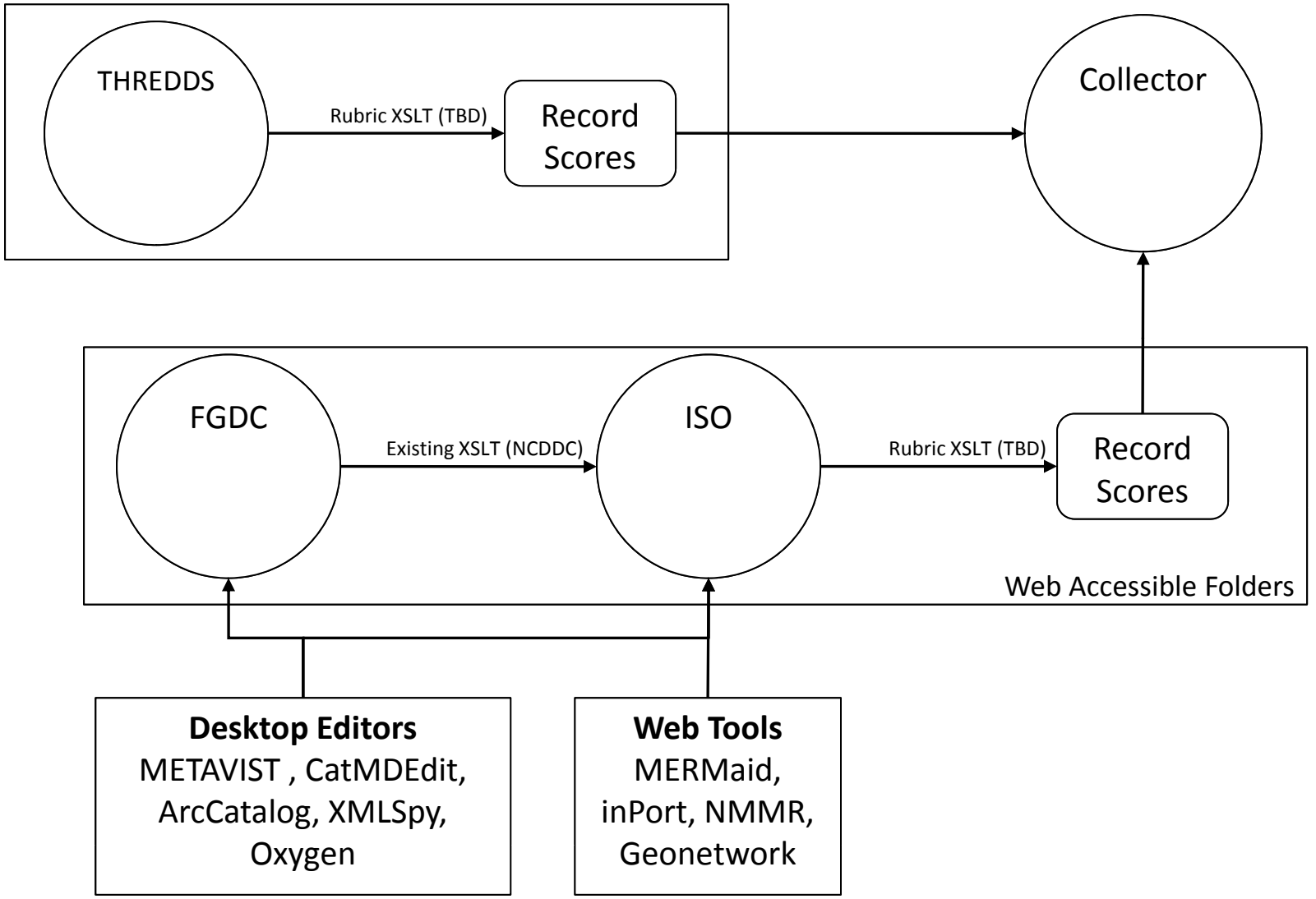
Web Accessible Folders - Record Collections



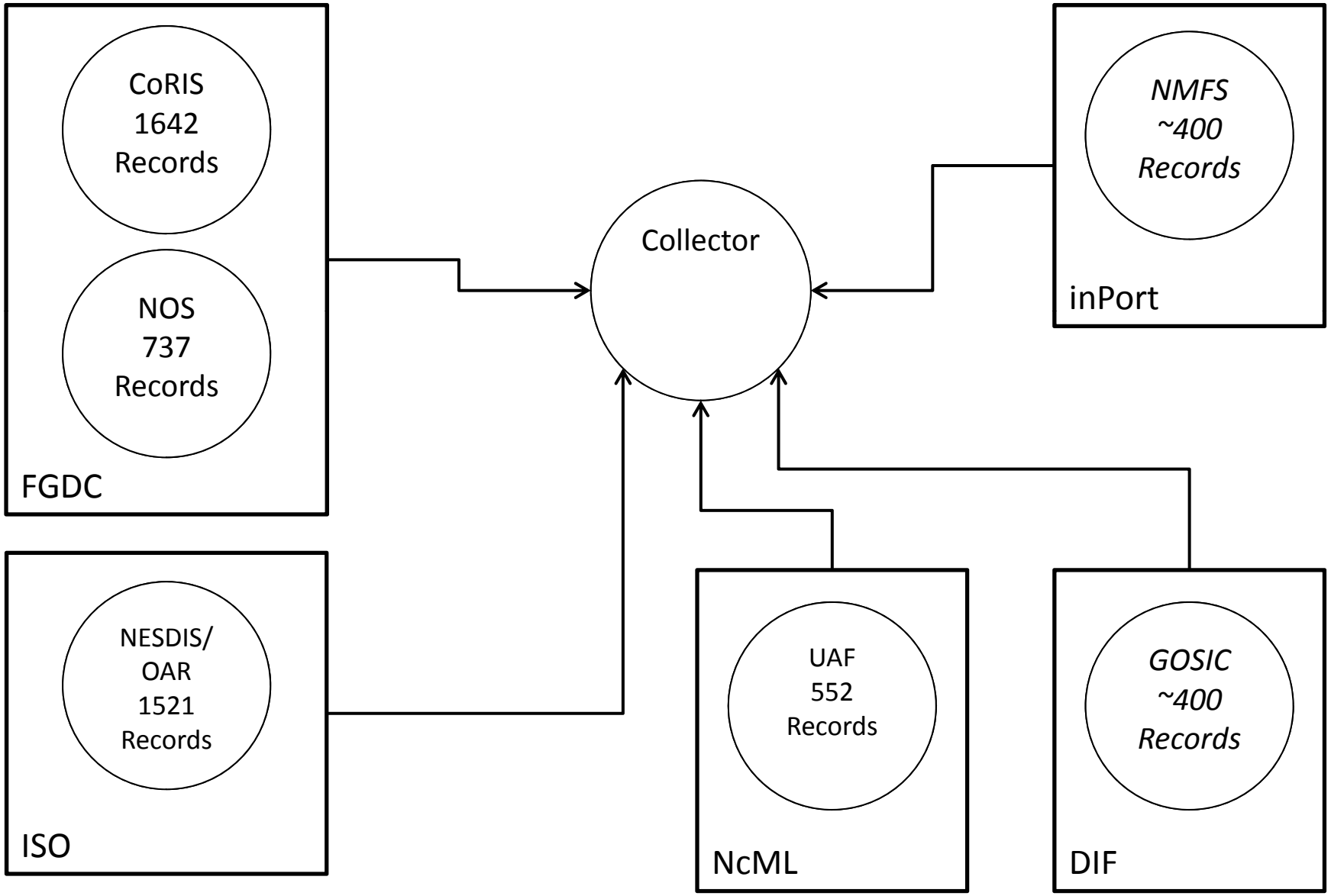
Completeness Distributions



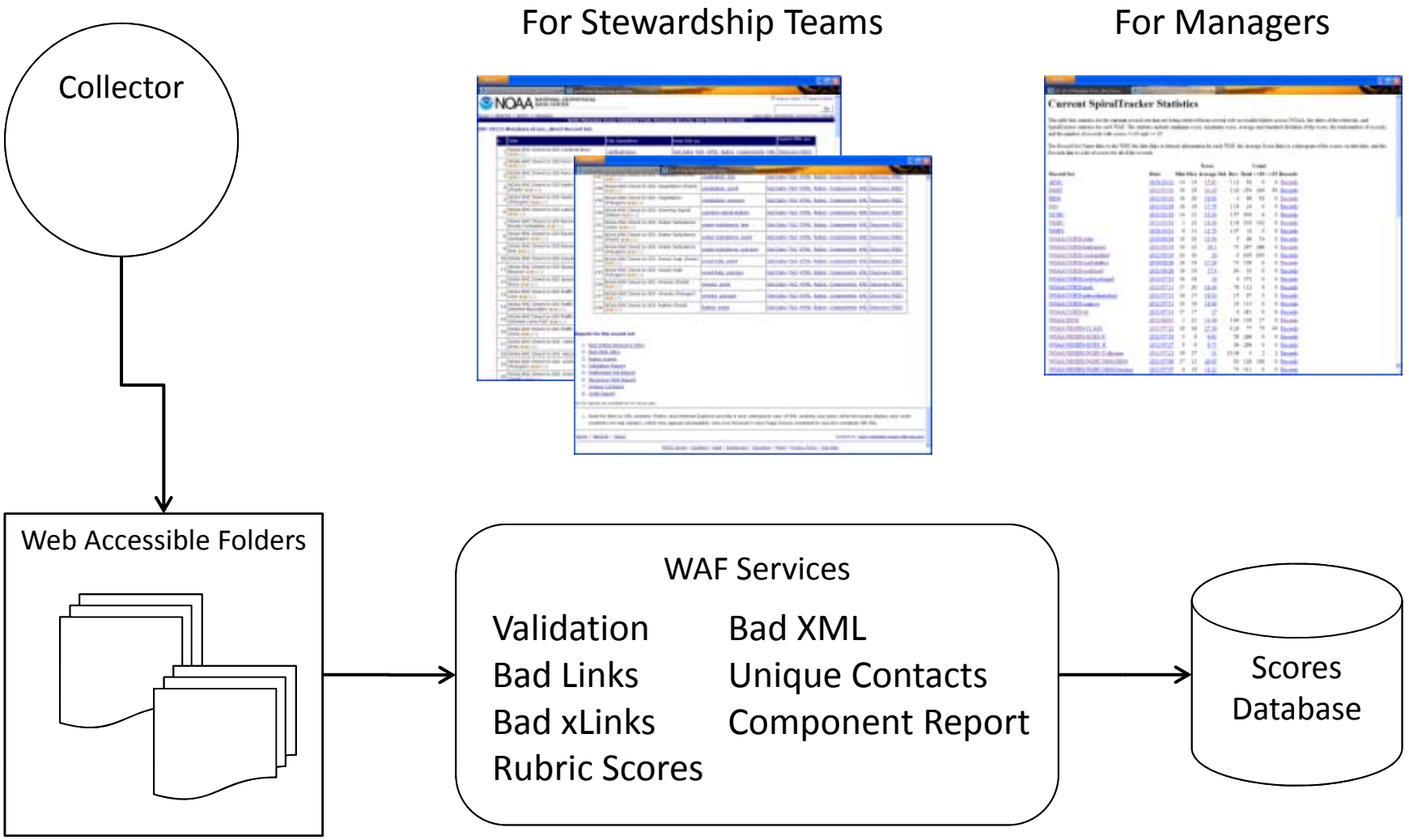
Metric Calculation System



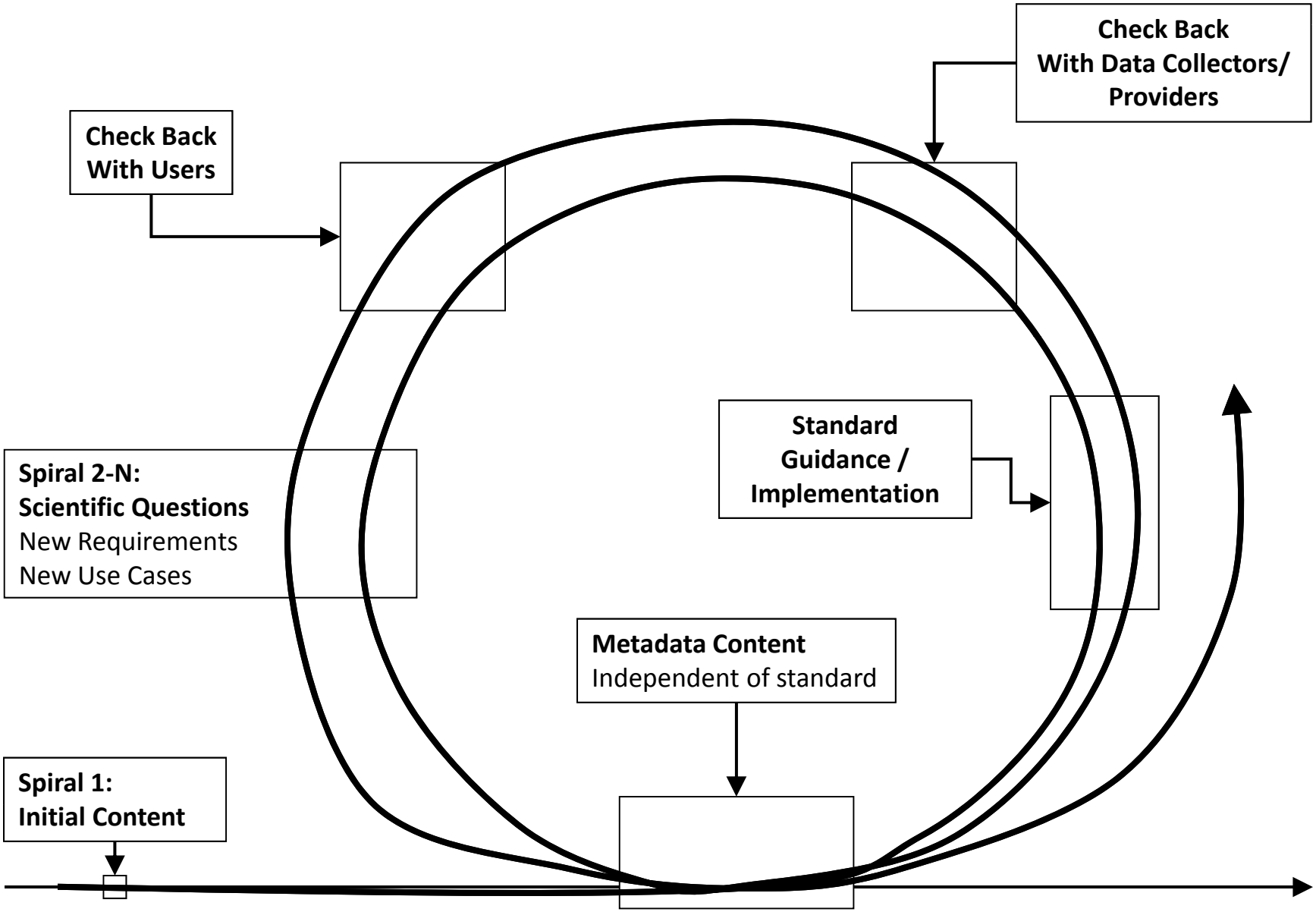
Current Test Cases



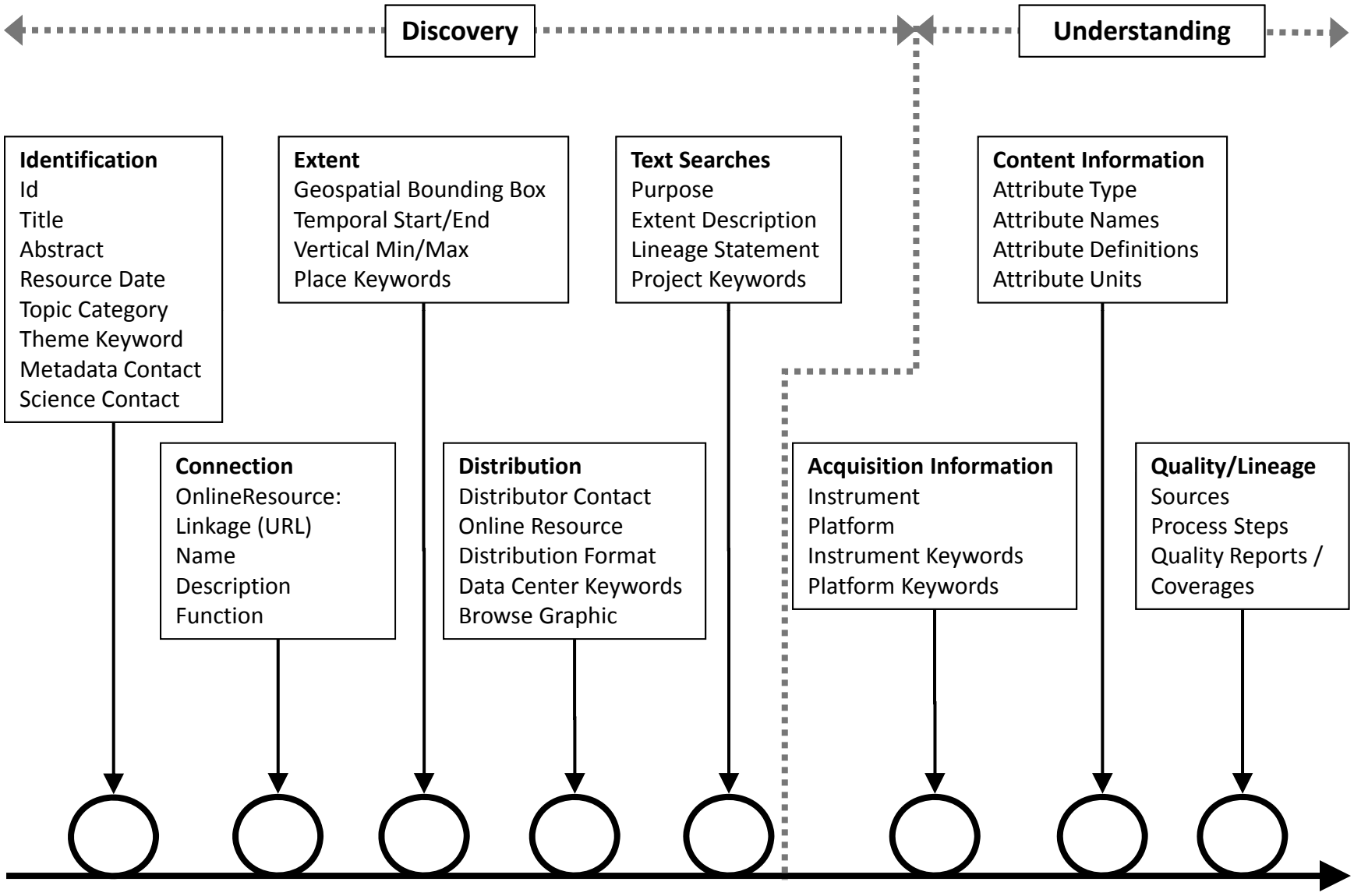
Documentation Improvement Services



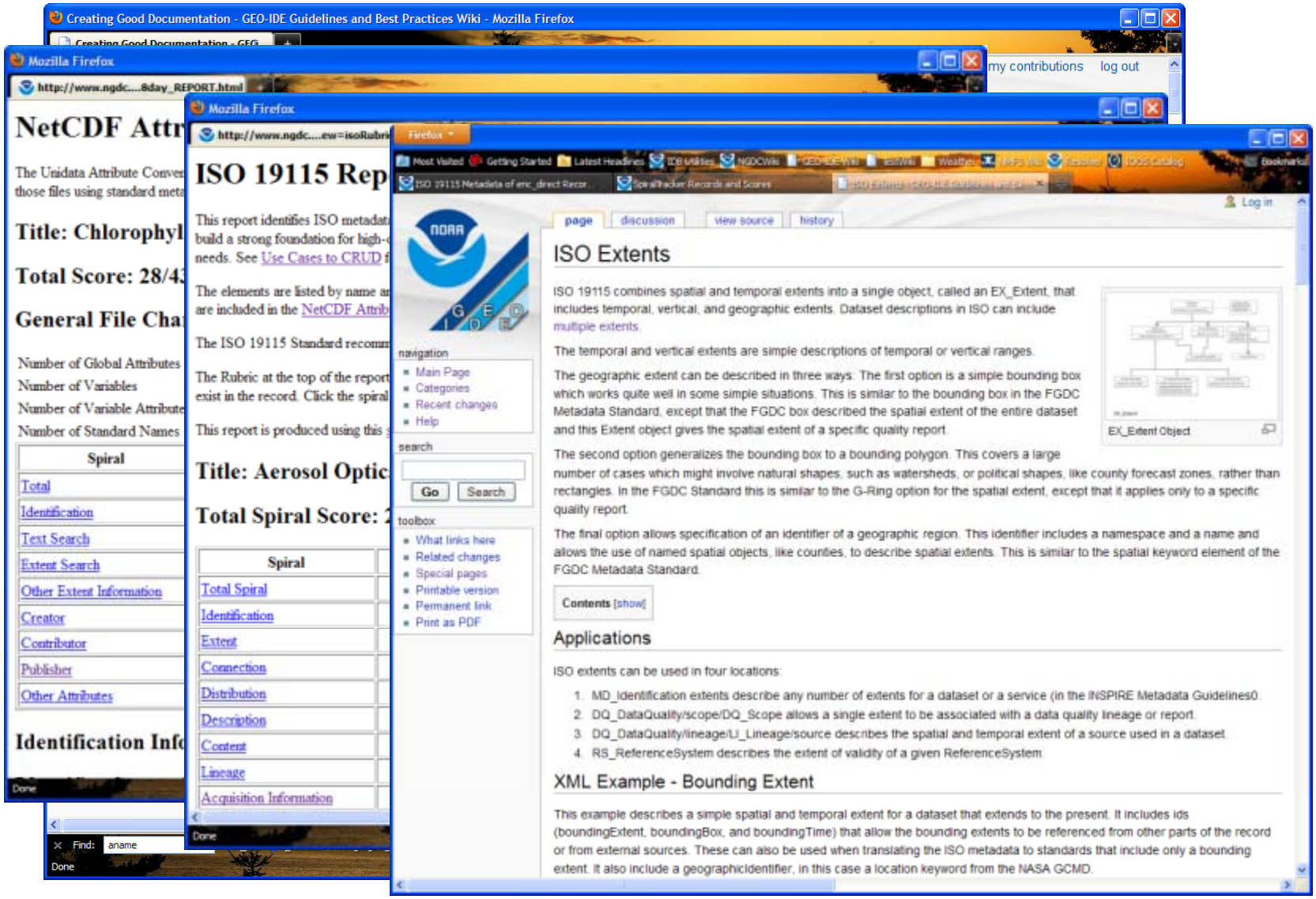
Spiral Development / Training



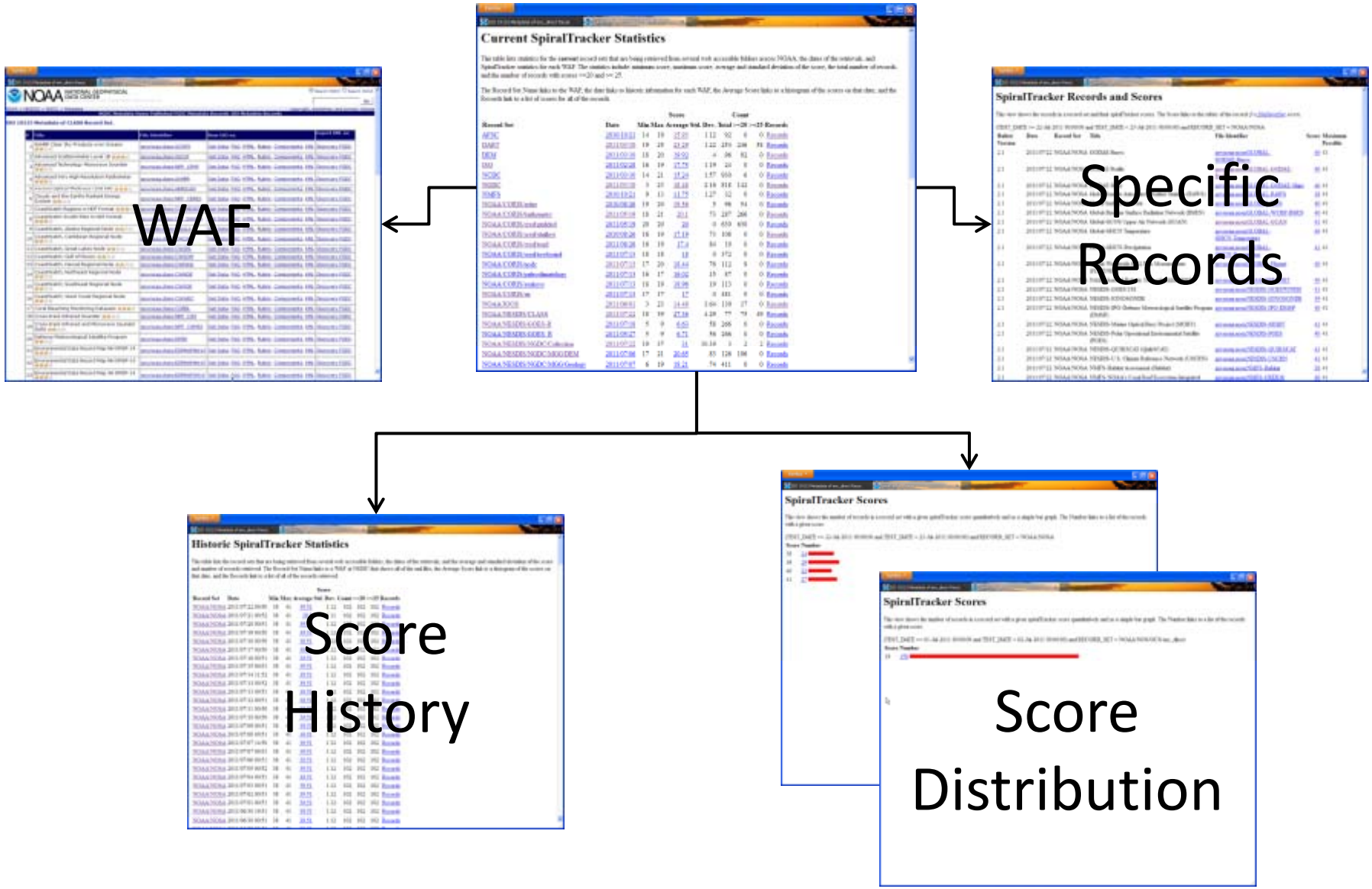
Spiral Development / Training: Potential Spirals



Spiral Development / Training: Rubrics



Spiral Tracker



http://www.ngdc.noaa.gov/idb/struts/results?t=103068&s=20&d=25

Documentation Capabilities

WAF

- Unified access to metadata with multiple views
- Automated custom processing and metadata quality checks
- Translation from many dialects to consistent international standard
- Harvest targets for Geospatial One Stop and data.gov

Spiral Tracker

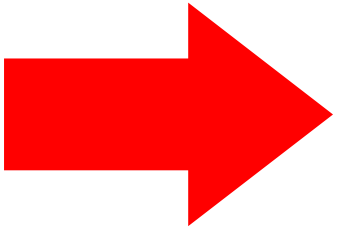
- Consistent rubric score calculation
- Score distributions help identify improvement steps
- Database provides history and access to scores / records
- Supports stewardship teams and managers

Wiki

- Provides community guidance, examples, successes
- Information available and shared with national and international partners

NOAA Documentation Improvement Components

Homogeneous

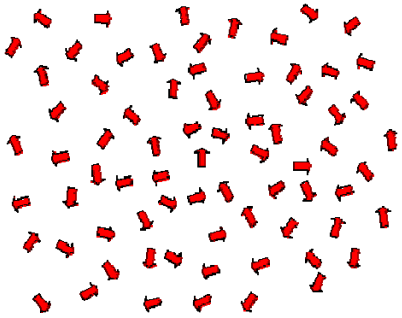


Directive

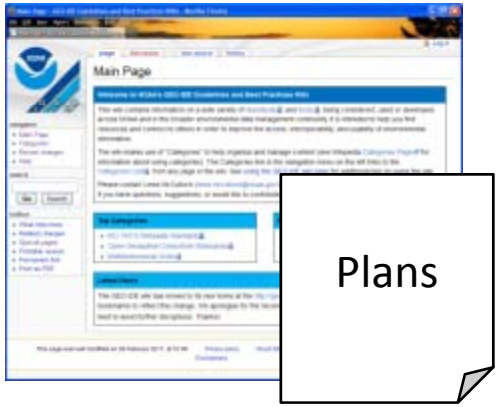
Vision and goals, identify standards, describe common nomenclature, identify responsibilities

Tools

Efficiently provide consistent guidance implementations, evaluations, and metadata management capabilities for all Line Offices and Programs



Heterogeneous



Plans

Community guidance, training, examples, best practices, broad input , Line Office and Program plans