

ICAN Prototype – Version 3



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Progress Overview

- International Coastal Web Atlas (ICWA) version 3 is being developed as part of the GeoDI and NETMAR projects

Component/Feature	Responsible Party	Done
Semantic framework	CMRC, and BODC	✓
CSW mediator	CMRC	✓
Ontology browser	CMRC	✓
Discovery interface	CMRC	✓
Global ontology	BODC, and all	✓
Local ontologies	All	✗
Application deployment	CMRC	✗

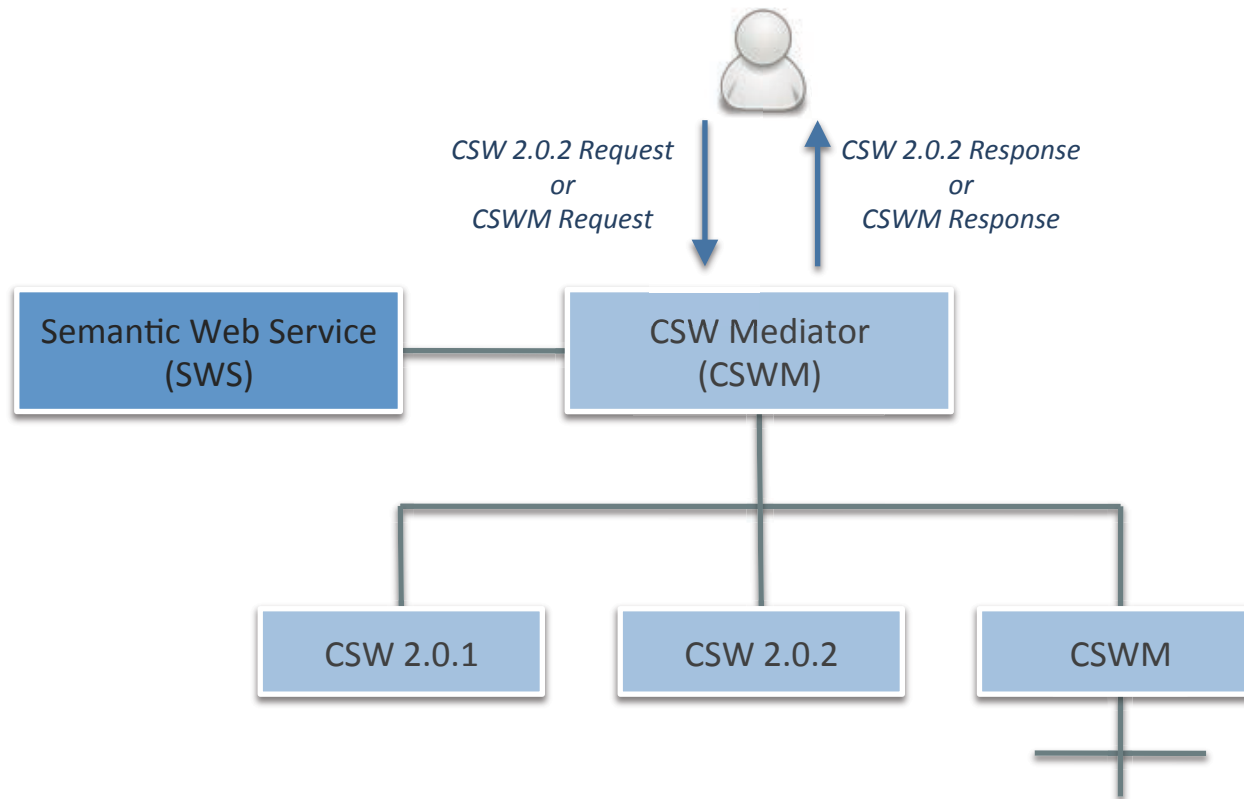


ICWA 3 – Features

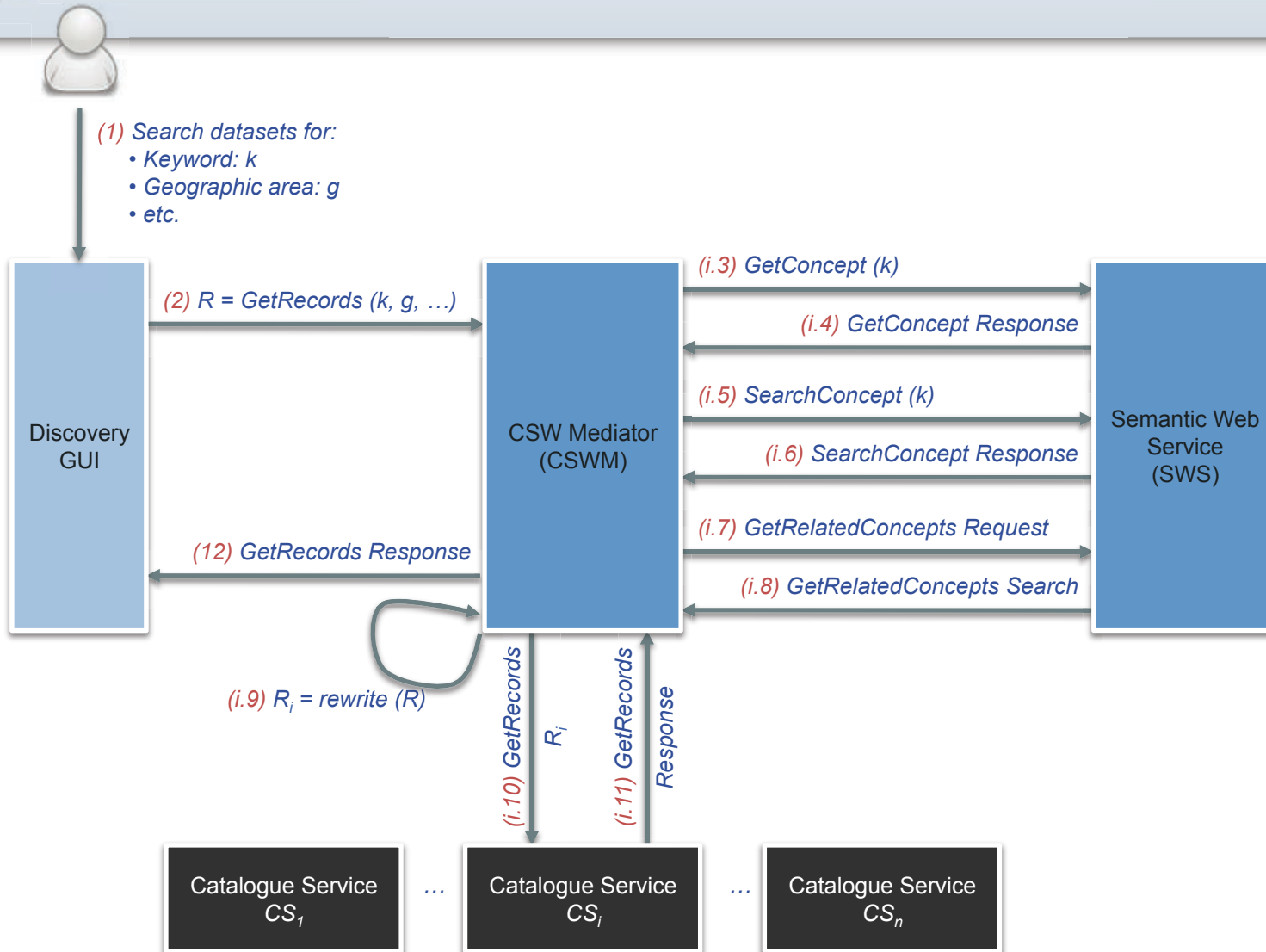
- ICWA 3 is based on four components:
 - Ontology Browser (OB)
 - Discovery interface (GeoFinder)
 - Metadata viewer (MetaViewer)
 - Semantic Web Service (SWS)
 - CSW Mediator (CSWM)



ICWA 3 – Features



ICWA 3 – Features





ICWA 3 – Features

- Semantic Web Service:
 - Ontologies are stored and managed in a DBMS (RDB or triple store)
 - Improved ontology structure (SKOS-based)
 - The SWS is accessible on the Web and supports a set of high-level operations (GetConcept, GetConceptScheme, GetRelatedConcepts, SearchConcept, etc.)



ICWA 3 – Features

- CSW Mediator:
 - Supports CSW 2.0.1, CSW 2.0.2, and CSWM nodes
 - Provides CSW 2.0.2 and CSWM interfaces
 - Ontologies are not required
 - Improved performance (nodes are interrogated in parallel)
 - CSWMs may be nested



ICWA 3 – Demonstration

- The NETMAR prototype is available at:
<http://netmar.ucc.ie/discovery>



Connecting Atlases

- Connecting atlases as nodes
 - Needed: CSW 2.0.1 or 2.0.2 (preferred)
 - Optional: local ontology for metadata keywords
 - Metadata keywords may be:
 - Concept URIs
 - e.g., <http://geodi.ucc.ie/ont/20110429#Geology>
 - Concept labels
 - e.g., Geology, Marine Geophysics
 - Free text
 - Atlas parameters (CSW URL, etc.) to be added into the ICAN registry by the ICWA administrator



Connecting Atlases

- Connecting atlases as clients
 - Required: CSW 2.0.2 or CSWM client

