Using OpenGIS Services for Internet Mapping Applications

URISA BRITISH COLUMBIA CHAPTER

Web Based Solutions to Infrastructure and Asset Management

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Agenda

Web based Solutions to Infrastructure and Asset Management

- OpenGIS overview / concepts.
- Application design considerations.
- On-line demonstration.
- Questions and answers

Why OpenGIS?

- Community defined specifications.
- Vendor compliance.
- Vendor independence.
- Open source (free) options.
- Interoperability, collaboration.
- Public data availability.
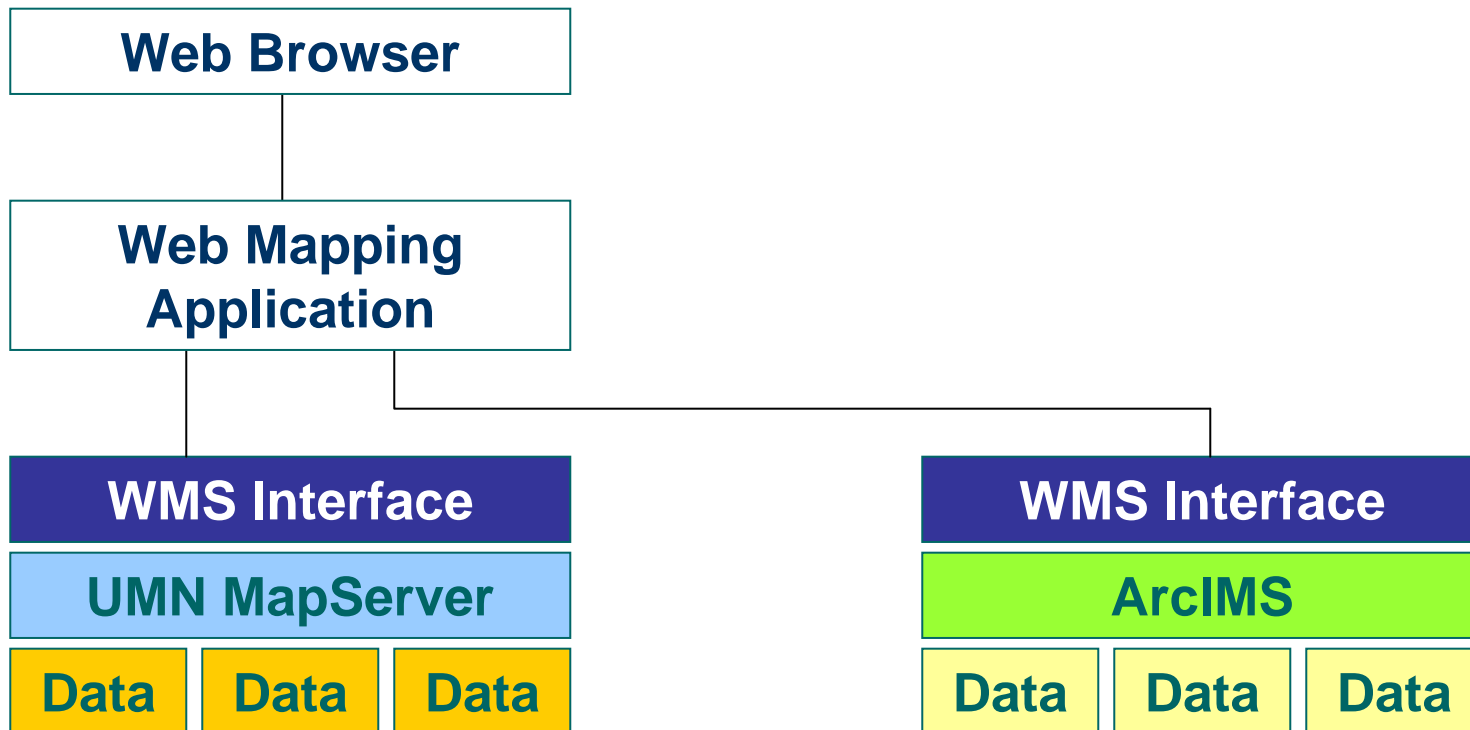- Custodian managed data sources.

Vendor Independence

- OGC specifications (www.opengis.org)
  - Web Map Service (WMS)
  - Web Feature Service (WFS)
- OGC compliant servers
  - MapServer
  - GeoServer
  - Cubewerx
  - Ionic RedSpider
  - ArcIMS …

Interoperability (conceptual)

Web Browser

Web Mapping Application

WMS Interface

UMN MapServer

Data Data Data

WMS Interface

ArcIMS

Data Data Data

IMF Overview

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- Developed for the Province of BC.
- Server-side Java / JSP application.
- Rapidly deployed applications.
- Customized using XML.
- Extensible, geo-processing capable.
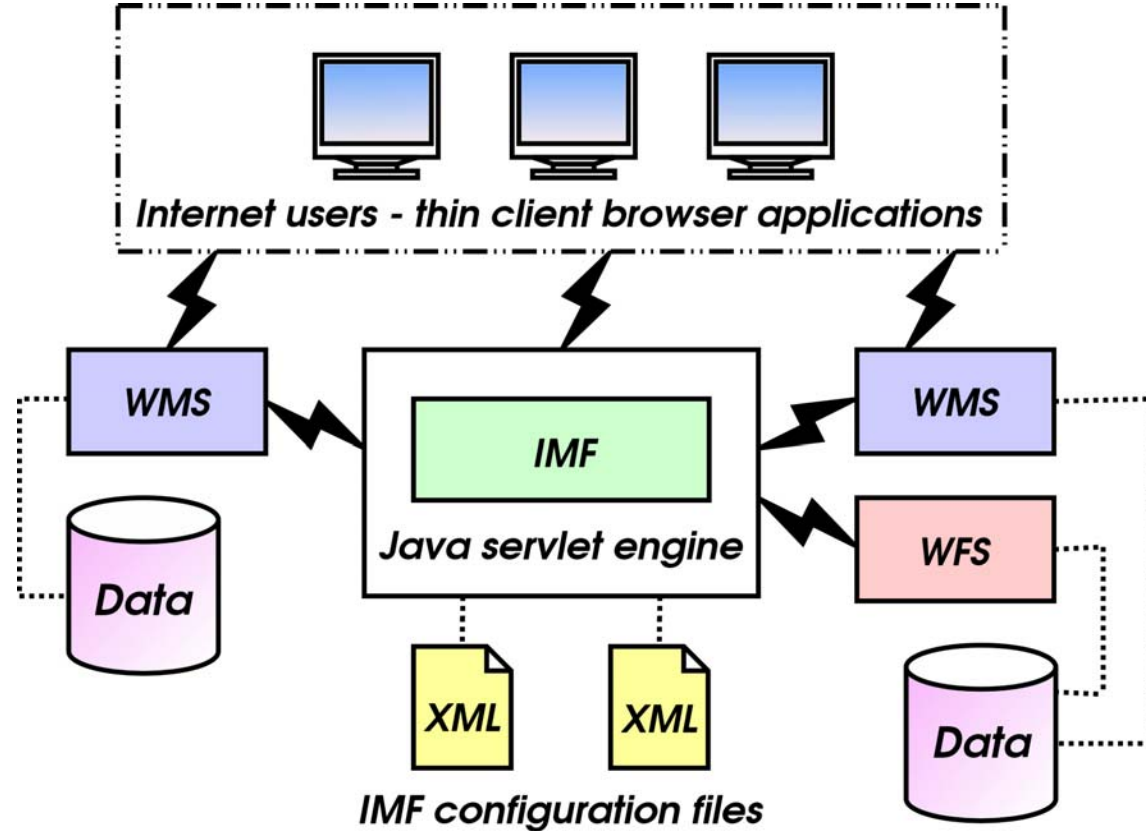- Used by 60 organizations world-wide.

IMF Design

- Directly connect to multiple services.
- Layer WMS maps in browser.
- Project results when necessary.
- Forward maps from secure servers.
- Support graphic layers.
- Use WFS for advanced queries.

IMF Implementation

Demonstration

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- ## WFS transactional editing demo
  http://www.moximedia.com/imf-ows/imf.jsp?site=edit

- ## Mapster - Fisheries and Oceans Canada
  http://www-heb.pac.dfo-mpo.gc.ca/maps/maps-data_e.htm

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