POSC Caesar Association

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Semantic Days 2011 – Tutorials

Practical Use of ISO 15926

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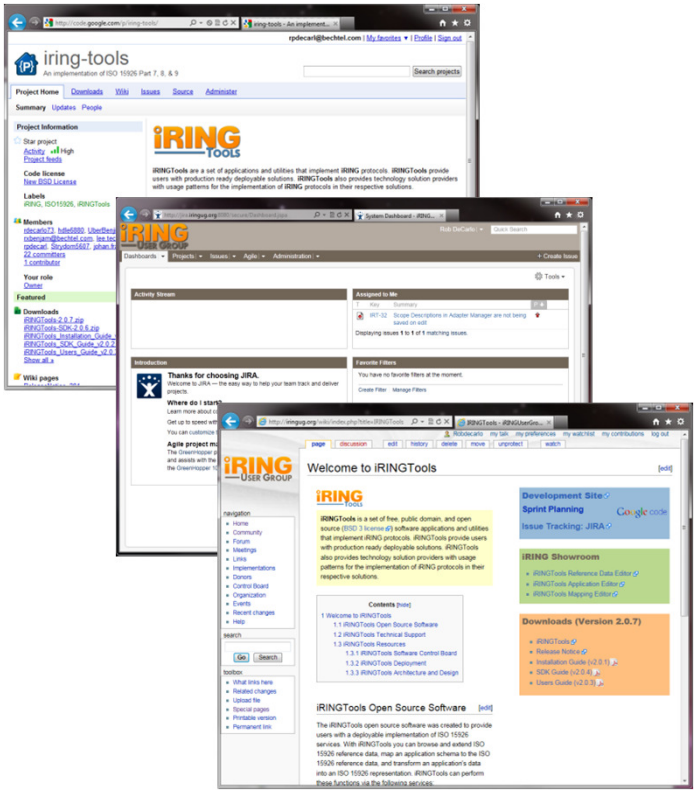
What is iRING?

- "iRING" is just a label for something else.
- A set of protocols and reference data, that are fully compliant with ISO 15926.
- Easier to say.
- Sets a clear expectation of the level of ISO 15926 compliance.

What is iRINGTools?

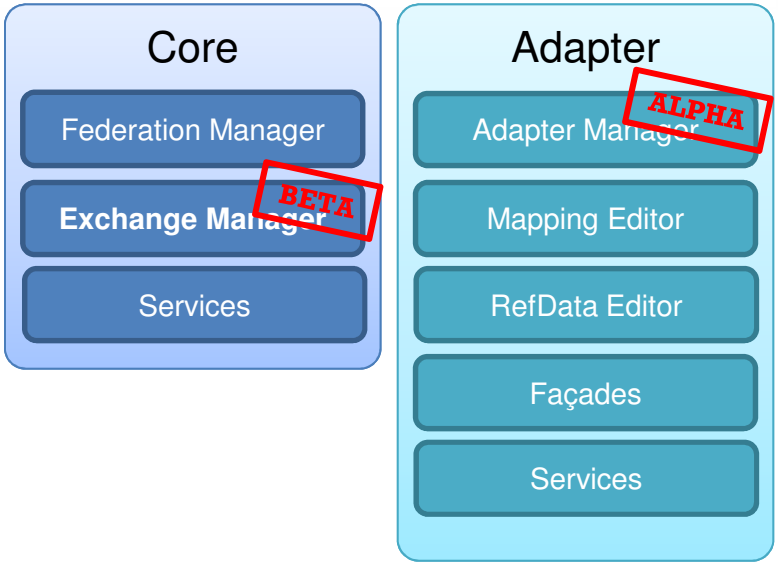
- Web Applications and Services to help use ISO 15926
- Open Source Project (BSD3)
- iRING User Group is the owner
  - http://www.iringug.org
- SVN hosted on Google Code
  - http://code.google.com/p/iring-tools
- Mix of .NET and Java
- Issue tracking in public JIRA
  - http://jira.iringug.org



iRING TOOLS

What does it do?

- **Applications**
  - Search Reference Data
  - Edit Reference Data
  - Map between Data and Reference Data
  - Query Façade
- **Services**
  - Federate Reference Data
  - Transform Data in terms of Reference Data
  - Expose Multiple Protocols and Data Formats
  - Populate Façade



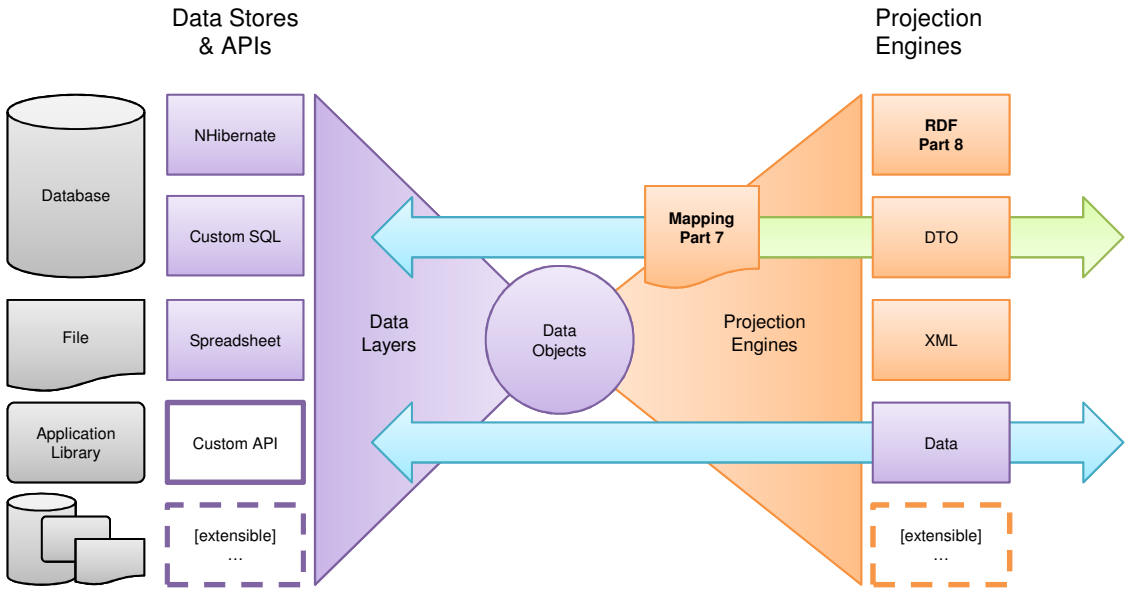
Federation Manager

Demo

http://dev.iringsandbox.org/apps/adaptermanager

Adapter Framework

- **Extensible DataLayers**
  - Databases
  - Excel
  - Custom APIs
- **Extensible Projection**
  - Flexibility
  - Harmonization
- **Raw Data is Possible**



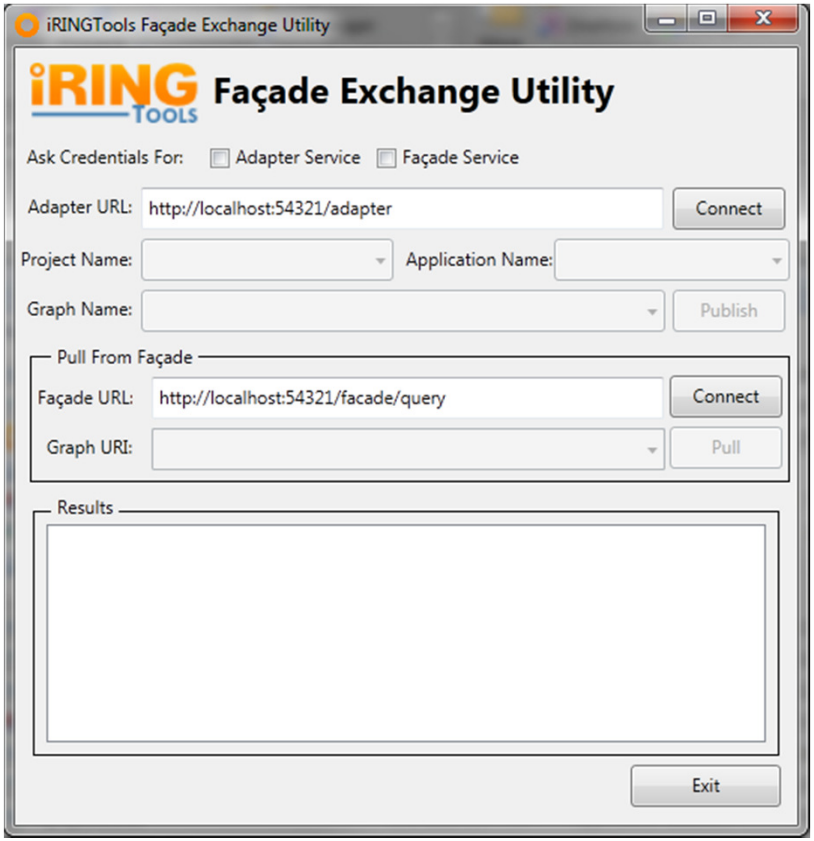
Adapter Manager

Demo

http://dev.iringsandbox.org/apps/adaptermanager

http://dev.iringsandbox.org/services/data/help

Façade Exchange

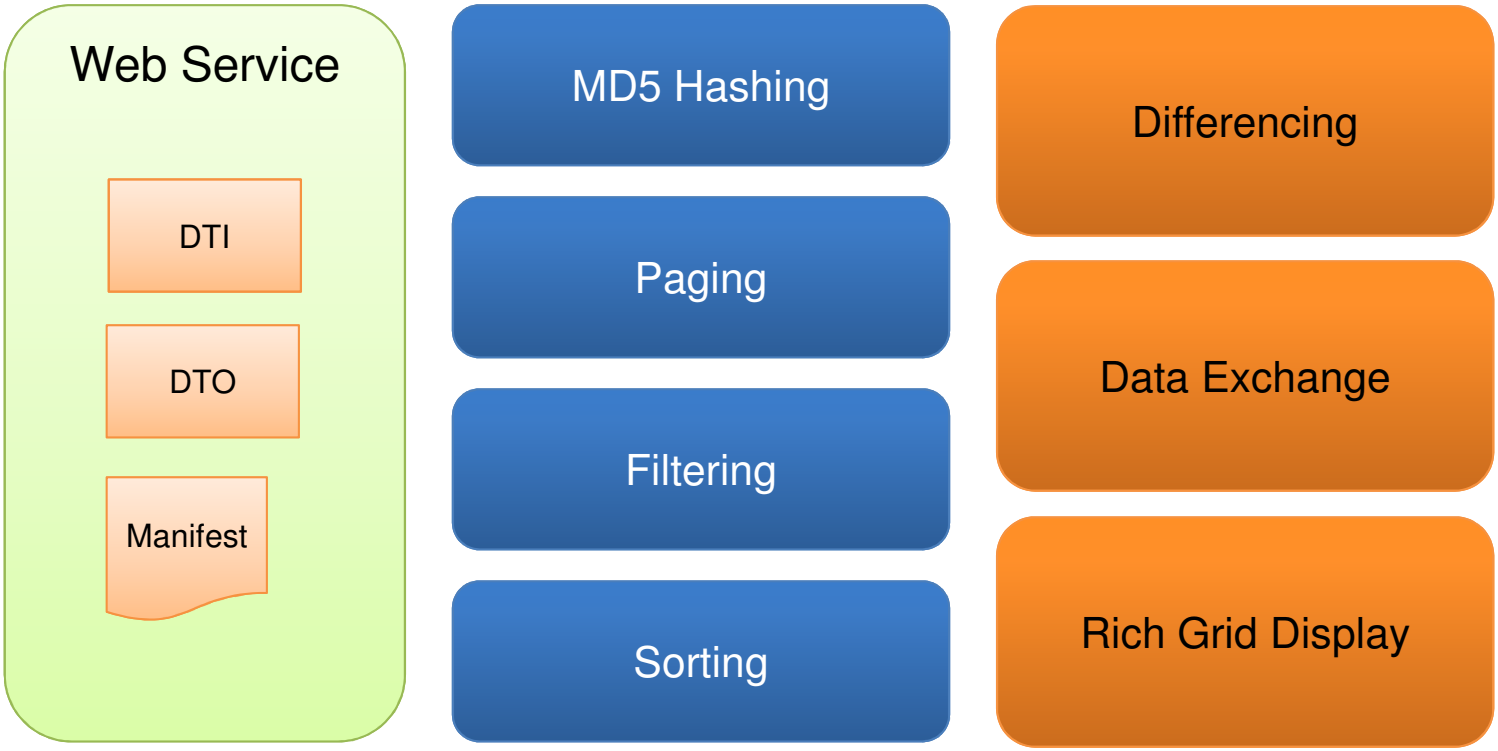


Façade Exchange

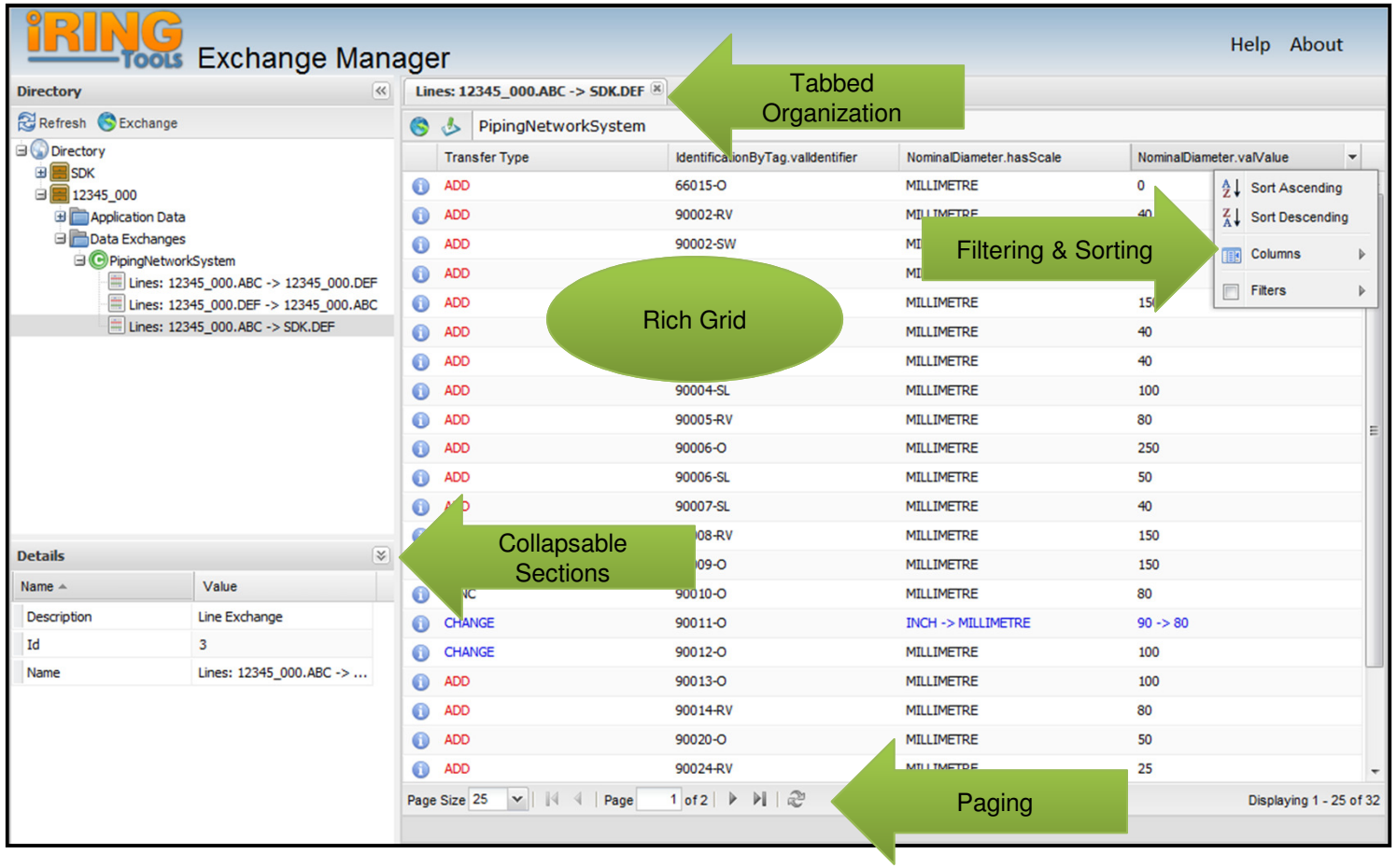
Demo

http://dev.iringsandbox.org/services/facade/sparql/query

DataTransfer Protocol



Exchange Manager



Exchange Manager

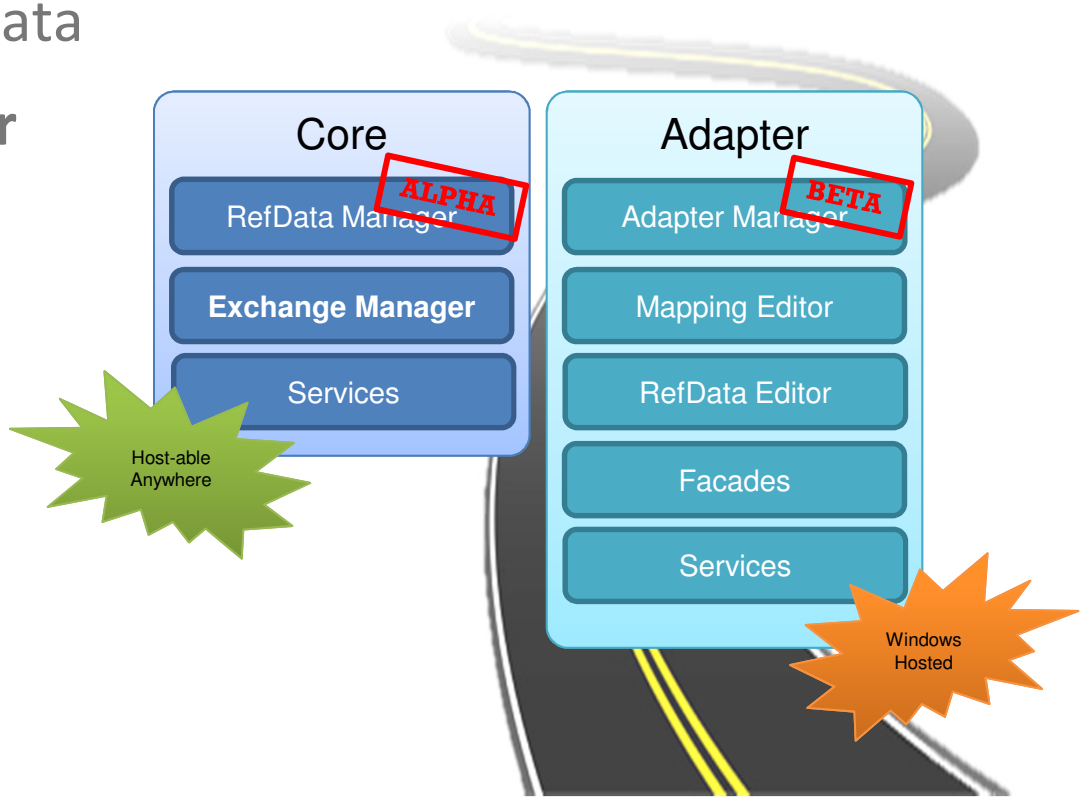
Demo

http://tomcat.dev.iringsandbox.org/services/dxfr/help

http://tomcat.dev.iringsandbox.org/apps/xchmgr

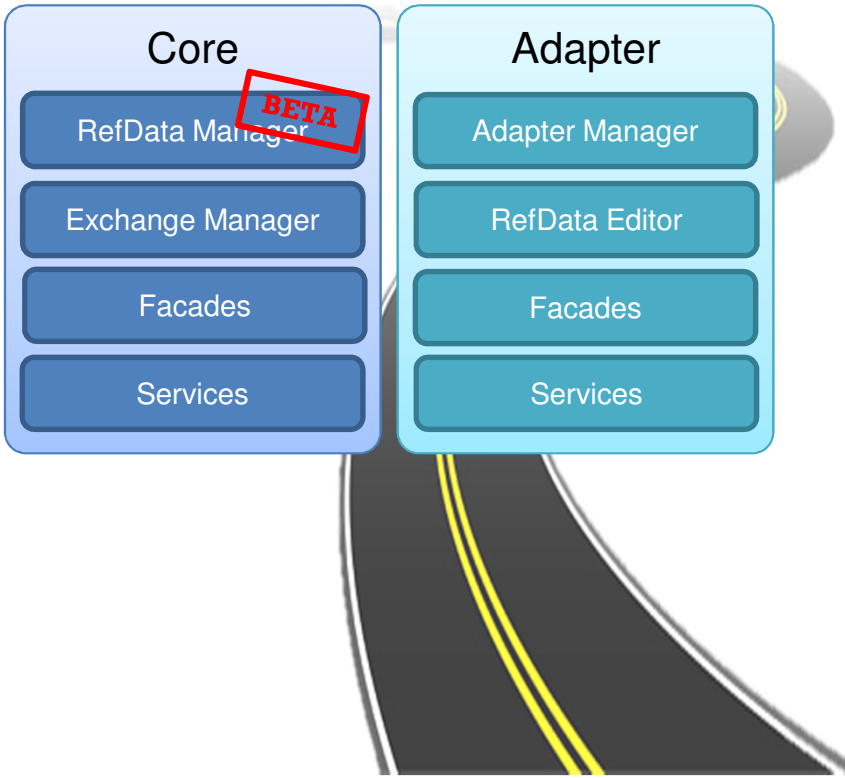
Roadmap

- **2.1 – June 2011 (Pending)**
  - Part 8 Reference Data
  - **Exchange Manager**



Roadmap

- **2.2 – September 2011**
  - Basic Security
  - Adapter Manager
  - Exchange Enhancements
- **2.3 – Late 2011**
  - RefData Manager
  - ID Generator
  - Exchange Configuration



iRING Tools

Wrap-up

- Federated Reference Data
- Adapter Framework
- Multiple Protocols and Format (Extensible)
- Part 8 RDF
- Façade Exchange
- Exchange Manager

iRING Tools