

Profium Metadata Server (MDS)

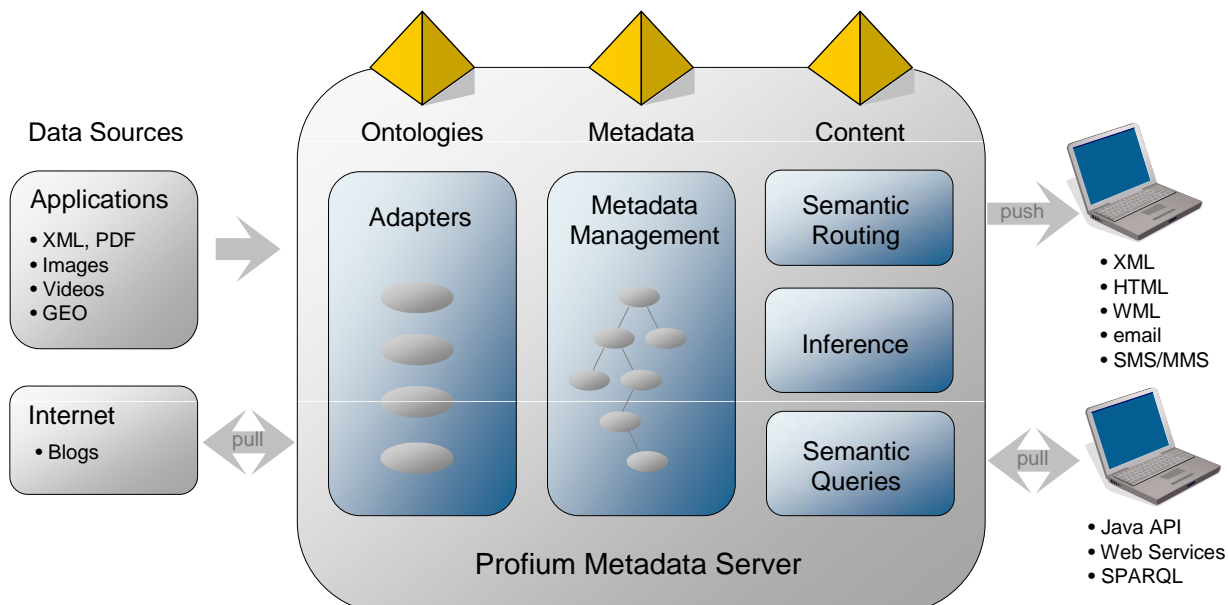
Unlock your enterprise data

Organizations are looking for new, effective ways to manage the rapidly increasing amount of digital content. Collecting large quantities of data is one thing, putting it into the hands of people who need it in their daily work is another thing. This seemingly simple equation can be solved with the help of Profium Metadata Server which adapts to enterprise data sources and can be used to mix and match those sources to many targets. These targets can be either interactive such as portal Web sites or reactive such as other IT systems which wait for signals to initiate their internal processes.

Profium Metadata Server provides an efficient, robust and proven way to manage and distribute data by leveraging Semantic Web technologies. This approach allows end-users rest assured their information is not locked in a yet-another-silo but is easily reusable in new services and integration scenarios.

Metadata Server is used by organizations ranging from media and telecom operators to the public sector. The solution helps Profium's customers to surpass the following challenges:

- Reception of information from several active and passive sources
- Find relevant information by running a query against a single metadata repository
- Deliver information to other IT systems in real-time
- Implement multi-channel publishing
- Transcode content on-the-fly with good performance already on entry-level servers
- Adapt to changes in business environment without rewriting software



Profium Metadata Server creates consistent metadata for all content objects, and stores it in its internal database. MDS adapts to new business requirements with ontologies and rules.

Profium Metadata Server

Adaptivity for new ontologies

When data enters MDS, it automatically extracts metadata and transforms it into standardized RDF format. RDF (Resource Description Framework) has been published by the World Wide Web Consortium (W3C), and is the basic foundation of the Semantic Web.

Metadata not only gives answers to traditional queries such as 'who', 'where', 'when', and 'what' which can be encoded using descriptive ontologies. Profium MDS can also give answers to 'why' and 'how' by linking the information with related content. For example, a Profium MDS enabled image repository can be configured with an ontology that has properties for the creator, location, timestamp, description and IPR conditions all which allow the users to find images for re-use. However, an ontology with properties for tracking the use of the image let publishers understand the use of the image for royalty reporting purposes and track all the contexts in which it has been used.

MDS can be configured with any amount of ontologies which can change during the application lifetime. These changes are reflected in the APIs Profium MDS provides for application developers.

Advanced search capabilities

In addition to SPARQL query service which allows other IT systems query the metadata from a running MDS instance, MDS provides SPARQL extensions for GIS queries. Such queries help find content that not only meets with the constraints expressed via metadata concepts but also with a region expressed in the query language.

Profium MDS also extends the usability of traditional search interfaces by supporting a schema adaptive multi-facet search which means the UI needs no rewriting when the underlying schema changes and it guarantees the users never get '0 hits' after they click on 'Search'.

Push service

Profium product family also provides a push service that automates the delivery of relevant information in the format, frequency and protocol preferred by the receiver. This makes Profium the ideal engine for publishing rich multimedia content in multiple formats including ready-to-publish HTML for web service, SMS and MMS messages for mobile phone users, delivery by email, or raw XML data for further processing.

Open architecture makes deployment easy

Profium MDS has an open architecture which allows its easy integration with customer's existing applications. For business critical environments Profium provides High-Availability (HA) deployment architecture as well as integration with management consoles.

Technical Data

Input options	Adapters	Content types	Query options
FTP HTTP SOAP Watched folder Java API RSS Poller Custom	XML RDF Adobe XMP Microsoft Office JPEG exif / IPTC Custom Scripting	Text Image Video Audio Data	Triggered Interactive Timed
Search options	Operating systems	High-Availability	Java
SPARQL Full text GIS Multi-facet	Windows 2008 64bit RHEL5 64bit	RedHat Cluster Suite	Java EE 6 on Tomcat 6.x

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