

# **An ELT Alternative to Oracle Data Integrator (ODI)**

**Semarchy**

# Introduction

**Are you working with traditional data integration solutions that are complex, costly, and complicated? They don't need to be.**

Do you need to simplify your data integration?

Do you have any challenges migrating to the latest ODI version?

Would you like to reduce your ownership costs?

**If you answered yes to any of the above, keep reading.**

Companies often have difficulty accelerating their digital transformation using traditional data integration solutions. There is a gap between the current needs in the field and in the market – hence more and more organizations are struggling to tackle innovative results.

## WHY?

# Traditional solutions come from an era that did not foresee the digital transformation at work today.

While the usage of traditional relational databases (Oracle, MySQL) has stagnated or even regressed since the beginning of the 2010s, alternative technologies like Mongo DB or Elastic Search are growing at more than 40% per year. The IT landscape has evolved very quickly, unlike Oracle Data Integrator (ODI). This has resulted in a critical lack of agility for its customers who are struggling to move quickly on projects critical to their organization's business strategy. Developments around NoSQL technologies and the use of traditional technologies such as ODI are difficult because they require complex technical sequences.

ODI's complex architecture and implementation time make Big Data projects seem larger than they need to be. The fusion of ELT and ETL modes (formerly Sunopsis and OWB) adds another level of complexity due to the arrival of a component-based logic. Moreover, the installation of Weblogic servers, almost mandatory, makes the tool heavy and expensive. Add to this, several solutions are now needed to cover the entire spectrum of data integration: ETL, ESB, CDC, WebLogic, Fusion Middleware, etc. solutions of various origins (acquisition, historical solution, different internal development team, etc.) which do not always cohabit very easily.

If you are working with Oracle's Data Integrator (ODI), you may have encountered challenges like:



The need to install an Oracle Weblogic application server



Multiple technological requirements necessary to cover the entire spectrum of Data Integration: ETL, ESB, CDC, WebLogic, Fusion Middleware, etc.



A usage of third-party components to complete the basic features (Golden Gate)



Complex mappings and packages

If you have problems migrating to new versions of your current ODI solution, you are not alone. The new version brings structural changes necessary to integrate with its existing software ecosystem. These issues multiply when business teams launch e-commerce, CRM, PIM initiatives, which require the usage of Web services, unstructured data and/or NoSQL databases.

Therefore, it may be really difficult to handle a Big Data initiative.

And all this may be at the expense of your independence and productivity, such as:



Are automatic upgrades no longer possible?



Is it necessary to set up a complex process, which requires full technical and functional tests?



Does your bill increase from year to year, but you don't have any additional services?

## To meet new challenges and data integration initiatives, companies need to be agile, speed up the “time to market,” and remain flexible to future technologies.

With all of this considered, perhaps you are asking yourself:



Should we migrate to the latest version?



Should we choose another solution and redevelop everything?



Or more simply, can we find an alternative solution that is close to the current solution and that allows us to migrate in a (almost) transparent way?

That's where Agile Data Integration comes in.

# Advancing Agile Data Integration

Successful data integrations should promote productivity and performance gains, with a unified solution that covers all data integration needs and current and future technological challenges.

Sounds too good to be true? Keep reading.

## Agile data integration should:



**Migrate seamlessly via automation:** with simple and straightforward recovery



**Maintain consistent development philosophies:** with simple mapping



**Keep the same ETL transformation principles** such as in Sunopsis or Oracle Data Integrator



**Offer a complete toolbox:** to facilitate the migration process



**Reduce costs:** with no Big Bang effect, in a mastered and progressive way



**Improve customer service and support:** with data integration specialists

## SEMARCHY xDI

# A Unified Solution to Simplify Big Data Initiatives

Thanks to its [unified data solution](#) and scalable technology, Semarchy xDI allows you to accelerate and industrialize your digital transformation while modernizing your information system, in just a few clicks.

### Replace rigid and complex systems with the Semarchy xDI platform:



Agile methodology, fast time to value, flexible, scalable



Reconcile business and IT needs



Simplified GUI integration design, faster ROI, immediate ROI



Iterative, business driven approach

### Semarchy's xDI platform offers:



A flexible API studio to facilitate the development of APIs and transformation of legacy information systems as part of an IS modernization initiative (API my Legacy)



An agile solution for the management of unstructured NoSQL databases often associated with e-commerce, PIM, and other web projects



A complete environment to lead a 360° customer initiative with the implementation of a CRM such as Salesforce

Benefits

Development productivity

Tenfold gains on technologies such as JSON, XML

Gains 5x-20x for Web services/API development

Industrialization

Eighty percent of our customers go live with their first data integration project in less than three weeks

Semarchy Data Integration (xDI) reduces development time up to 80% and maintenance up to 300%

Performance

Native ability to manage parallelization

Optimizes thirdparty technology

Lightweight execution engines, easy to install and duplicate



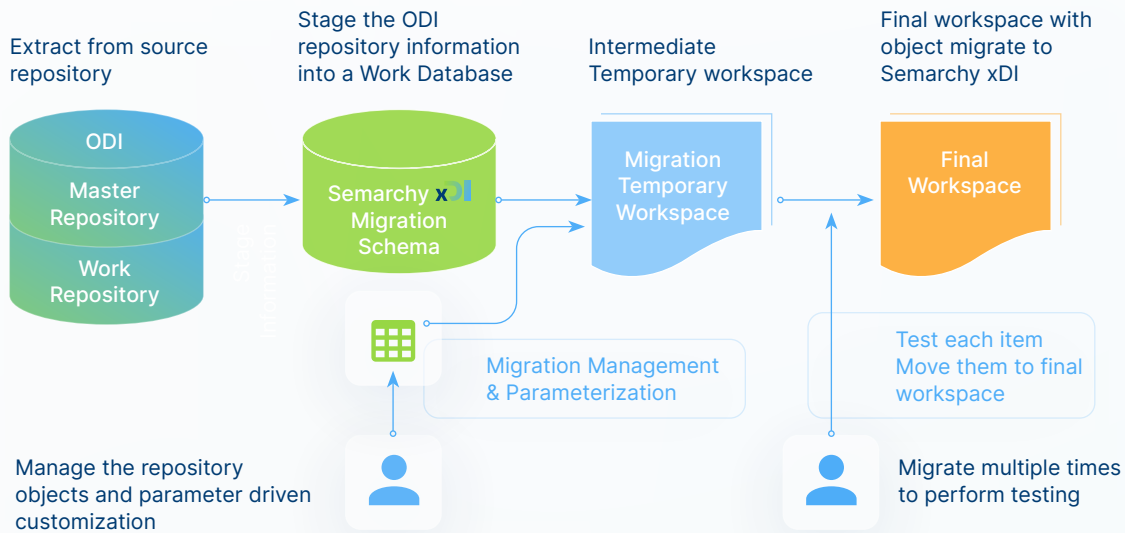
*Five days were enough for the solution to be operational in our context. Thanks to the technical templates, everything is prepared, the tool is simple and intuitive, and ready to use.*

**Virginie Samson - ProBTP**

## HOW IT WORKS

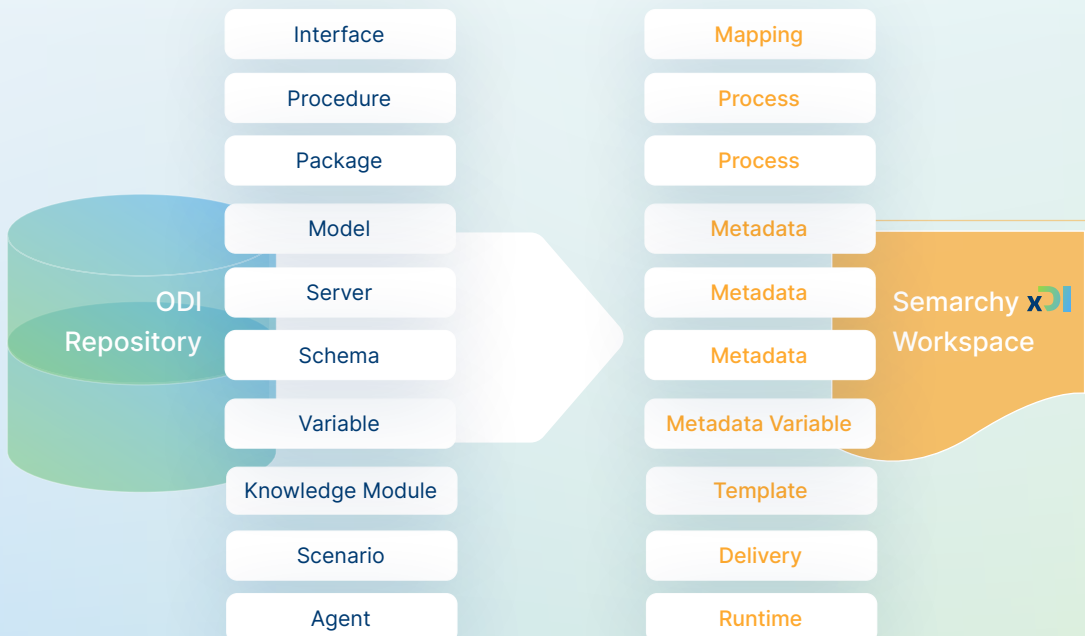
# Agile Data Preparation with Semarchy xDI

Preparing data with Semarchy xDI offers an easy and seamless migration.



The entire process is automated:

- Models, servers, and schema migrated to Semarchy xDI metadata
- Migrate and merge multiple repositories Interfaces/process steps migrated to mappings keep the same GUI and can be rearranged later Knowledge modules migrated to Semarchy xDI templates
- Supports any type of relational database
- Supports any version from Sunopsis v3.2 to ODI 12





## KEY BENEFITS

# Simplify with Semarchy xDI

Finding a reasonable alternative to migration from ODI can be difficult. Semarchy offers a structured, reliable, and measured approach. The result is a migrated environment that recovers all existing data flows, while allowing a gradual migration (project by project or interface by interface). Customers see a fast time to ROI, with projects carried out in a few days compared to a few months on other traditional or open source solutions.

## Discover data integration from Semarchy xDI that is:

### **Business-Centric**

Convert business rules into deployable code that integrates, transforms, and publishes data.

### **Efficient**

Continuous integration and deployment (CI/CDs) works seamlessly with external DevOps tools.

### **Consistent**

Consistency in design, regardless of project type, facilitates transfer of teams from one project to the next.

### **Unified**

Single technology federates all forms of data integration (Big Data, no SQL, API, IOT, etc.) real-time streaming or batch processing.

### **Connected**

Exhaustive portfolio of dedicated connectors supporting legacy and modern sources.

### **Productive**

Template design components provide out-of-the-box capabilities saving teams valuable implementation time.

### **Agnostic**

Extensible and open architecture supporting on-premise, cloud, hybrid, and multi-cloud environments.

### **Low Code**

Low code development with flexible and scalable architecture facilitates rapid generation of projects.

### **Adaptable**

Complete customizable templates support unique requirements and underlying tech changes.



*Beyond the structural technological advantages of the Semarchy (formerly Semarchy xDI) solution, the guarantee of availability that our Management imposed in the specifications, the maintainability, the traceability, all these criteria are respected by the implementation of the solution; the financial aspect of the solution really and pleasantly surprised us. Any other solution such as Oracle ODI, evaluated during the choice phase, would have cost us perhaps 3 or 5 times more. We really maximized our investment with Semarchy.*

Jean-Benoit Mehaut  
ADEO Group - Leroy Merlin

Thanks to its **unified solution** and **scalable technology**, Semarchy allows you to accelerate and industrialize your digital transformation while modernizing your information system, just in a few clicks.

Data integrations demand changes and enhancements to the data and its architecture. Data migration experts need tools and utilities that can migrate and enhance data quickly. Make sure your business accelerates your data access with an easy, fast, and agile data integration implementation.

## Declare data freedom by turning business users into data champions, today

Semarchy xDI Data Integration for ODI provides a simple and agile way to integrate data and use it to build solutions with:

### Support

A global tech support team to assist clients from proof of concept to project completion.

### Consistency

Universal Data Mapper and Templates keep designs consistent as integrations and architectures change.

**Speed**

Built-in templates simplify migration of all data without the need to design mapping for each entity.

**Flexibility**

All templates are open for customization, allowing you to choose what to migrate, how to perform data conversions, and enable reconciliations.

**Low Cost**

With no hardware or user environment requirements, xDi Data Integration is cost-effective, simple to learn and scalable to meet your growing data needs.

## What are your strategic data needs?

To find and maintain a competitive edge, your enterprise needs complete, compliant, consistently defined data that's both secure and accessible. How can you empower every team to make better business decisions every day? Do it with the Semarchy Unified Data Platform. Handle data projects holistically, from inception to iteration. Integrate and transform data from any source. Define quality policies and create collaborative governance. Manage all data initiatives in a single environment.

We've helped companies like yours turn intractable data blockers into unparalleled data insights.

Solve your top business challenges and capture ROI at breathtaking speed — 80% of our customers measure value in less than 10 weeks.

Data governance is easier with a fully customizable platform. The [Semarchy Unified Data Platform](#) is designed to fit your business, not the other way around. Get better data, build more trust, and realize ROI faster with Semarchy xDM and xDI.

Contact us today to see how we can help you leverage your business platforms for greater business intelligence.



## ABOUT SEMARCHY

# Semarchy Unified Data Platform

Semarchy Unified Data Platform enables organizations of any size to quickly integrate critical information scattered across applications with a single platform to discover, integrate, manage, enrich, and govern data. By providing a unified breadth of capabilities, organizations can focus on targeted initiatives that deliver rapid business objectives with the ability to seamlessly expand or scale.

There are two modules within the unified data platform :

## Semarchy xDI

Semarchy xDI provides high-performance, agile, and extensible data integration for all integration styles and use cases. With its Universal Mapping, metadata-driven approach, and ELT architecture with delegated transformations, xDI empowers clients to deliver the data their business requires in time while keeping their costs under strict control. Utilizing xDI, organizations can tackle all integration challenges, including business intelligence, advanced analytics, application integration, data hubs, anonymization and compliance, data services, cloud modernization, and migration.

## Semarchy xDM

Semarchy xDM automates the discovery, management, enrichment, and governance of data to quickly generate business value. Semarchy xDM is agile and pragmatic, allowing organizations to rapidly scale, adapt, and reduce IT administration and overhead. Semarchy xDM is natively available on the most popular cloud marketplaces, including Microsoft Azure, Amazon Web Services (AWS), and Google Cloud Platform (GCP), and also as Software as a Service (SaaS), all with the same features as the on-premises platform.

80%

Eighty percent of our customers have data integration projects in production in less than three weeks.

For the fourth consecutive time, Semarchy was recognized in the 2021 Gartner® Magic Quadrant for Master Data Management Solutions (MDM) 2021. Semarchy is the only MDM MQ leader who has achieved 100% customer satisfaction ratings from GPI in the last 12 months.

**Gartner**

*Magic Quadrant  
Leader in Master Data  
Management*



*Customer Choice in Master  
Data Management*

**FORRESTER**

*Forrester Wave Strong  
Performer in Master Data  
Management*

# Technical specifications and prerequisites

Specifications	Description
<b>Oracle Data Integrator (ODI)/ Sunopsis version</b>	<ul style="list-style-type: none"><li>• ODI 10.x, 11.x, 12.x</li><li>• Sunopsis 3.x</li></ul>
<b>Hardware and software environment for migration</b>	<ul style="list-style-type: none"><li>• Memory: 8 Gb RAM</li><li>• Free Harddrive space: 10 Gb</li><li>• Operating system: Windows 7 ou plus</li><li>• Additional software: Excel 2010</li></ul>
<b>Terminology</b>	<p>Oracle Data Integrator (ODI)</p> <ul style="list-style-type: none"><li>• Interface</li><li>• Procedure</li><li>• Package</li><li>• Load Plan</li><li>• Model</li><li>• Server</li><li>• Schema</li><li>• Variable</li><li>• KM</li><li>• Scenario</li><li>• Agent</li></ul> <p>Semarchy xDI</p> <ul style="list-style-type: none"><li>• Mapping</li><li>• Process</li><li>• Metadata</li><li>• Metadata variable</li><li>• Template</li><li>• Delivery</li><li>• Runtime</li></ul>
<b>Connectivity</b>	<ul style="list-style-type: none"><li>• Any relational database system such as Oracle, PostgreSQL, MSSQL, etc.</li><li>• Any NoSQL database system such as MongoDB, Elastic, etc.</li><li>• Any Cloud system such as Amazon Web Service (AWS), Google Cloud Platform (GCP), Microsoft Azure, etc.</li><li>• Any ERP applications such as SAP, Microsoft Dynamics, etc.</li><li>• Any SAAS applications such as Salesforce, Snowflake, etc.</li></ul> <p>For more information, consult the technical documentation</p>

## Specifications

## Description

### Standard Features

- Reverse: The database structure can be reversed in a dedicated Metadata
- DDL/DML Operations: DML/DDDL operations can be performed on the database, such as Insert, Update, Select, Delete, Create, or Drop
- Integration methods: Append, Incremental Update
- Staging: The databases can be used as a staging area to make data transformation, mutualization, etc. The following modes are supported:
  - staging as subquery
  - staging as view
  - staging as table
- Reject: Reject rules can be defined to filter or detect data that does not fulfill the rules during integrations.
  - Three type of rules can be created: Fatal, Warning, Reject
  - Depending on the specified type, the rejected data will not be handled the same way
  - Rejects of previous executions can also be recycled

Replication: Replication of databases is supported. The replication source can be any RDBMS, Flat files or XML files.

### Advanced Features

- Slowly Changing Dimension Integrations: Integrations can be performed using Slowly Changing Dimension (SCD)
- Load methods (depending on connectivity):
  - Generic load
  - COPY loader

### Semarchy xDI Version

From Semarchy xDI Designer s19.0.0

### Semarchy xDI Runtime version

From Semarchy xDI Runtime S17.4.8

### Notes

- Development environment: any system supporting Semarchy xDI Designer (Windows, MacOS, Linux)
- Runtime environment: any system supporting a Java environment (JRE 1.8 minimum)

**Free your data.**

Start fast. Scale infinitely.

Govern & secure collaboratively.

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**Semarchy** 

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