INFORMATICA®

DATASHEET

Informatica ContentMaster

Universal Data Transformation for the Realtime Enterprise®

Informatica ContentMaster™ is the industry's leading software for automating complex data transformation in high-performance, transaction-intensive applications and SOAs.

Using Informatica ContentMaster, organizations can:

- Define complex data transformations without writing code
- Immediately deploy and reuse transformations across enterprise software infrastructure, preserving investment and promoting loosely-coupled, service-oriented integration

UNIVERSAL DEPLOYMENT

- Immediate reuse of transformations that can be deployed across enterprise software infrastructure
- Ability to generate multiple, "platform-native" executables from a single transformation definition
- Unmatched level of flexibility, choice, and ease-of-integration
- Ability to avoid the maintenance problems associated with redundant code

Automating Complex Data Transformation Across Industry Value-chains

Complex data transformation is the greatest cost in SOAs, straight-through processing and end-to-end business process automation. Informatica ContentMaster Version 4 provides a comprehensive, enterprise-class solution to complex data transformation challenges. Informatica ContentMaster is architected for high-performance, real-time integration applications such as industry exchange hubs in banking, insurance, healthcare and manufacturing, legacy modernization, and distributed SOA data services.

Informatica ContentMaster Architecture

Informatica ContentMaster includes best-of-breed data transformation tooling, the industry's fastest and most flexible data transformation runtime engine, and a vast range of pre-built transformation libraries for industry data and document types.

Informatica ContentMaster Studio provides an easy-to-use graphical user interface that automates the creation of complex data transformations, reducing the time and effort required to develop complex data transformations by as much as 70 percent, compared to market alternatives. Informatica ContentMaster Engine executes the transformations defined in the Informatica ContentMaster Studio in real-time on any of its supported environments. It also provides comprehensive and flexible event logging and reporting. The result is rapid development and deployment of complex data transformation logic and significantly lower cost of ownership over the lifecycle of the data transformation.

Informatica ContentMaster provides out-of-the box support for most popular unstructured data formats including spreadsheets, PDFs, and word processing files. A set of pre-built transformations for popular messaging standards is provided as well—allowing non-programmers to define sophisticated bi-directional transformations across and between any such format and easy-to-understand XML. Informatica has created industry-specific Informatica ContentMaster extensions and enhancements to provide solutions for organizations in healthcare, banking, insurance, manufacturing and financial services.

Key Features

Informatica ContentMaster provides universal data transformation for the real-time enterprise across all forms of data and all forms of exchange. Informatica ContentMaster Studio provides a common GUI-based transformation designer. And Informatica ContentMaster Engine provides a common runtime execution engine across all supported platforms.

Informatica ContentMaster unique features include:

- Informatica ContentMaster Studio is a codeless design environment for modeling unstructured, semi-structured, and structured data transformations that typically delivers 300 percent ROI on first project involving complex data.
- Unique specification-driven transformation supports the creation and evolution of transformations which are automatically driven by new versions of specifications. This capability covers industry message sets, transaction sets, and data formats such as EDI X12 and EDIFACT, SWIFT, HL7, ACORD AL3, HIPAA, and many more.
- Pre-built transformations for all flavors of financial and healthcare messaging standards, EDI standards, XML –based messaging standards, Microsoft Office documents, Adobe PDF, and more. Together with Informatica ContentMaster Engine pre-built integrations, these features enable immediate deployment of industry exchange hubs, information model-driven integration architectures, and of transformation as a shared service within a heterogeneous SOA environment.
- Embeddable runtime engine provides scalability and avoids redundant code; Informatica ContentMaster is by virtue seamlessly integrated with all of its supported platforms and complementary to popular integration and application server platforms.

One Codeless Data Transformation Designer for all Types of Data

Informatica ContentMaster Studio is widely recognized as the most comprehensive and intuitive visual data transformation designer for easy management of complex transformations of structured, semi-structured, and unstructured data. Wizard-driven and Eclipse-Ready, Informatica ContentMaster Studio is integrated with the Eclipse development framework and most source control systems.

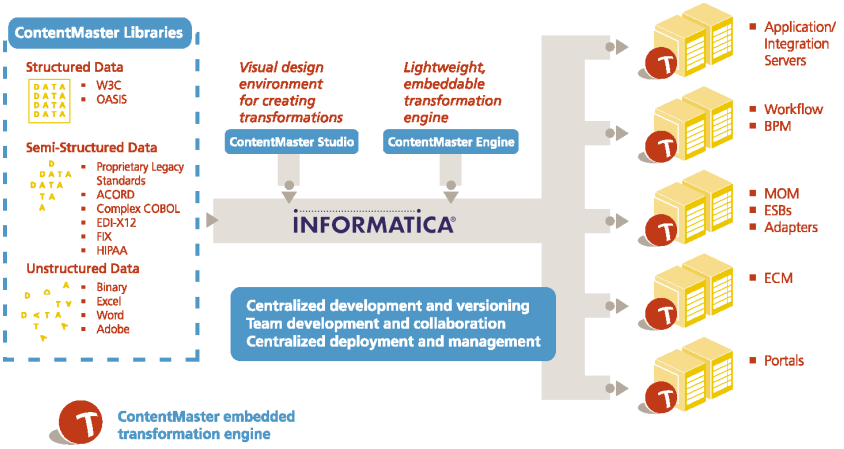
Informatica ContentMaster Studio features:

- Example-driven transformation– Informatica ContentMaster Studio's example-driven transformation allows users to define, test, and debug a transformation using a visual mark-and-map process directly on a sample of the data source.
- Specification-driven transformation– Informatica ContentMaster Studio takes a message specification as input and automatically generates a flexible transformation framework that includes intermediate XML XSDs, message parsers, and serializers.[1]
- Universal deployment–Data transformations can be deployed with a simple mouse click to any of its supported environments, yielding an unprecedented level of reuse for the high-value business rules that govern data transformation for business-critical enterprise data.

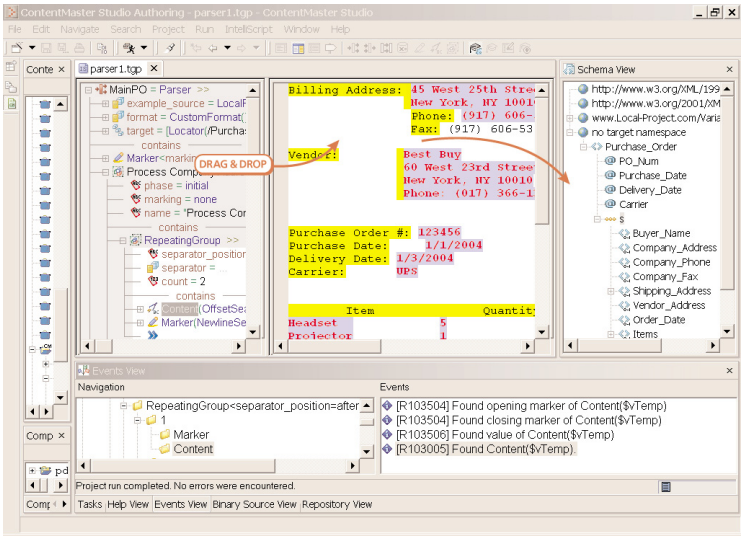
Universal Data Transformation Runtime

Informatica ContentMaster Engine leads the industry in platform coverage, scalability, and throughput for complex data transformations. Informatica ContentMaster Engine features a simple buffer- or file-passing API, and is available in the form of pre-integrated agents for its supported environments–including open source platforms, or as a callable software component from any C/C++, Java, or .NET application, on virtually all major distributed hardware/OS platforms.

Example-driven transformation has proven to dramatically increase productivity as compared with traditional data mapping approaches–whether the source is a PDF file, Excel spreadsheet, a COBOL copybook record, a SWIFT, NACHA or ACORD message, an EDI document, or any of the vast number of Office, legacy, EDI, and XML formats supported by Informatica ContentMaster.



ContentMaster Architecture



ContentMaster studio in Eclipse

Specification-driven data transformation (SDT) technology is used to create flexible and efficient data transformation frameworks for large message and/or transaction sets that are defined by industry and private standard specifications—SDT is applicable whenever a large set of related standards-based parsers, serializers, and/or schemas must be deployed or updated.

The Informatica ContentMaster Advantage

Unmatched adaptability to existing IT environment

- Plugs directly into any SOA, EAI, B2B, ETL, application server platform, or application, and as an add-on to popular integration and application server platforms. In addition to Informatica PowerCenter, its support also includes IBM WebSphere, Oracle Fusion Middleware, Microsoft BizTalk, SAP NetWeaver, webMethods, TIBCO, Sonic, and open source platforms
- Supports software applications including any software developed in Java, C/C++, J2EE, or Microsoft .NET

Unparalleled power and flexibility for codeless data mapping and conversion

- Allows user-defined, dynamic, reusable rules-driven transformations between any data formats
- Provides the most extensive set of pre-built transformation functions available anywhere and supports the encapsulation and management of existing transformation code for ease of migration
- Can be extended to encapsulate existing XSLT, custom or legacy code

Powerful, GUI-based transformation definition, testing, and debugging

- Implemented as a plug-in to Eclipse using wizard-driven, drag-and-drop interfaces
- Simple, point-and-click, mark-and-map process
- Unique, patented example-driven transformation capability

Specification-driven transformation

- Generate a flexible transformation framework from a message specification
- Avoid regulatory penalties—and loss of data—by keeping compliant with the latest standard versions, without having to wait for a patch or upgrade
- Used by Informatica to provide up-to-the-minute pre-built transformations in support of industry standards
- Used by customers to stay current with both industry and proprietary standards

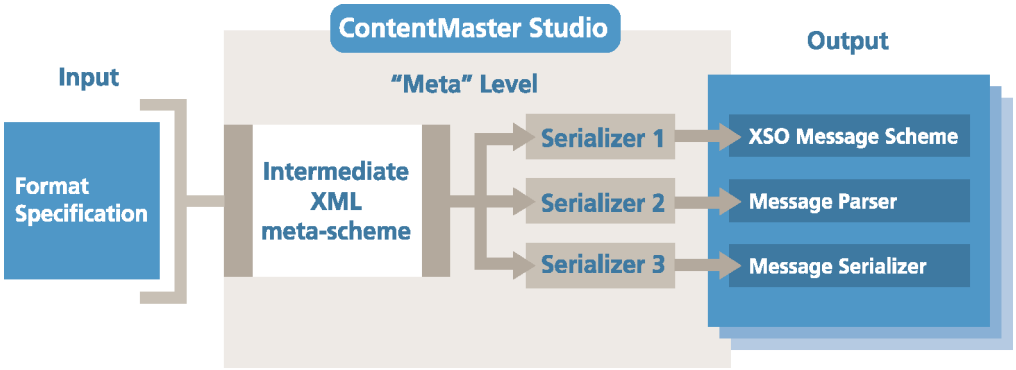
High-performance runtime

- Robust scalability due to multi-threaded architecture, caching of metadata, and optimized in-memory look-ups for one-pass validation in complex rules-driven processing scenarios
- Support for stand-alone transformation servers—no other solution lets you avoid the overhead of off-platform service invocations from multiple middleware systems

Unmatched set of pre-built transformations

- Broadest support of unstructured, semi-structured, and complex structured data, available in a single solution
- Supported document formats include Word, Excel, PDF, Star Office, AFP, Postscript, PCL, and HTML
- Supported industry formats include EDI X12, EDIFACT, HL7, SWIFT, HIPAA, UCS and WINS, AAR, AL3, VICS, ACORD, Cargo IMP, Legal XML , HR-XML, Cxml, and RosettaNet
- Supported legacy formats include COBOL, and legacy reports (positional, non-positional, variant files, and undocumented binaries)

1 A parser is a component that converts a source data format to XML; a serializer is a component that translates XML to a target data format. See the Informatica ContentMaster end-user documentation for more information about the Informatica ContentMaster Transformation Component Model and related product capabilities.



Spec-driven Transformation

Informatica ContentMaster Engine Features Include:

- Service-oriented architecture—Transformations can be published as reliable Web services and invoked via SOAP over HTTP, JMS, WebSphere MQ, or TIBCO EMS.
- Faster execution is assured as transformations are managed at design time, thus eliminating run-time latency of SOA deployments introduced by forced run-time conversion from type trees to XML.
- Enterprise qualities of service—Including rich event logging and reporting, flexible exception handling, content-based routing, chained transformations, pipeline processing, one-pass validation and lookups, and optional parsing. Solutions built on Informatica ContentMaster are highly adaptable to enterprise management and operations such as contact center help desks.
- Pre-built integrations — Available for most SOA, EAI, B2B, ETL and application server platforms including open source platforms. Informatica ContentMaster Engine allows an organization to centralize the management and reuse of high-value data transformations across heterogeneous IT infrastructure.

Operating System Support

Windows, Solaris, IBM AIX, HP UX, Linux, 32-bit and 64-bit

Available Localizations

French, German, Japanese

Supported Hardware and Operating Systems

Windows 2000 (SP 4), Windows XP (SP 2)
Windows 2003 (SP 1)
AI X 5.2 Linux RH EL 4
AIX 5.3
HP 11.11 PA-RISC
HP 11.23 PA-RISC
Solaris 8 HP 11.23 Itanium
Solaris 9 Linux RHEL 3
Solaris 10 Linux SUSE 9

Pre-built Platform Integrations

SAP NetWeaver 04, 04s
Informatica PowerCenter 7, 8
Oracle BPEL Process Manager 10g
IBM WebSphere Message Broker 5, 6
Microsoft BizTalk 2006, 2004, 2002
webMethods Fabric 6.5, Integration Server 6.1
Open Source SOA Platforms

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