



25 Feb, 2025

CDI – Industry Solutions

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Where data & AI come to **LIFE**

Housekeeping Tips



- Today's Webinar is scheduled for **1 hour**
- The session will include a webcast and then your questions will be answered live at the end of the presentation
- All dial-in participants will be muted to enable the speakers to present without interruption
- Questions can be submitted to "All Panelists" via the **Q&A option** and we will respond at the end of the presentation
- The webinar is **being recorded** and will be available on our [Success Portal](#) - where you can download the **slide deck** for the presentation. The link to the recording will be emailed as well.
- Please take time to complete the **post-webinar survey** and provide your feedback and suggestions for upcoming topics.

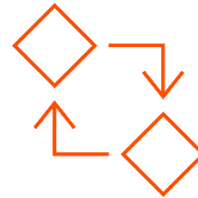
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Documentation

<https://docs.informatica.com>



University

<https://www.informatica.com/in/services-and-training/informatica-university.html>

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Agenda

- Key Challenges
- Solution: Industry Solutions
- Architecture
- Key Features
- Key Benefits
- Components
- Use Cases in HealthCare
- Demo
- Q&A

Key Challenges

In today's world, organizations want to

- streamline their operations
- meet industry-specific requirements
- gain a competitive advantage in a data-driven business landscape

They need the tools and expertise required to leverage data effectively and drive better business outcomes in a specific industry

They are also interested in the solutions that are tailored to their specific industry to face a range of challenges that can impede their success

These challenges can have significant implications for their competitiveness, compliance, and operational efficiency.

Solution: Industry Solutions

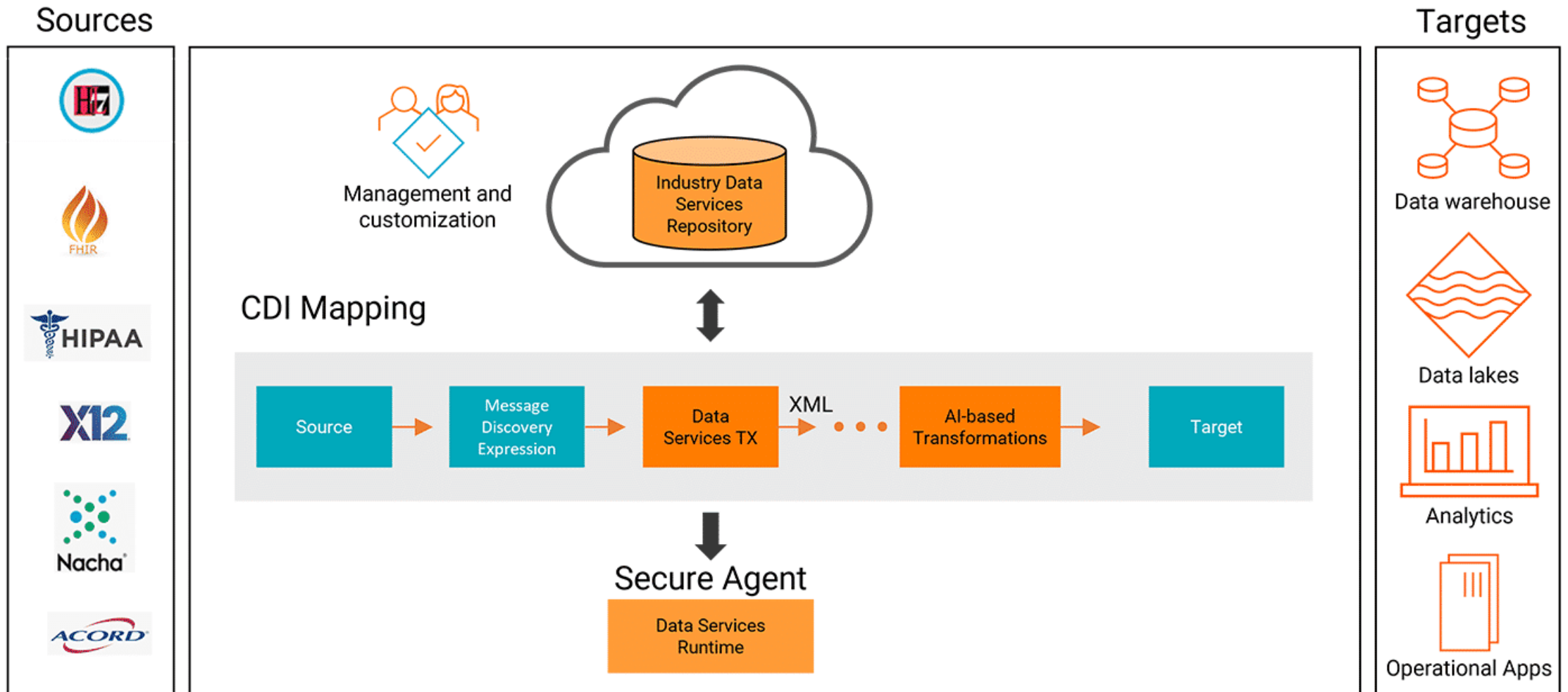
Informatica Data Management Cloud (IDMC) offers industry-specific solutions that streamline and accelerate the management of data integration requirements unique to each industry.

This includes a set of industry-specific capabilities to help organizations with industry-specific data integration challenges.

The domains supported are :

- **Retail and Manufacturing:** To process EDI X12, EDIFACT messages
- **Healthcare:** To process HL7 V2, HL7 FHIR, HIPAA X12 messages and pre-built mappers to bridge between HL7 V2 and HL7 FHIR
- **Financial Services:** To process NACHA, SWIFT messages
- **Insurance:** To process ACORD AL3 messages

Architecture



Key Features

- Pre-built data services to parse, generate, validate, and transform industry-specific data standards, with the option to customize messages and services as needed
- Pre-built AI models to parse messages to relational structures and to support writing to relational data models and analytical targets
- Pre-built industry-specific connectivity in addition to an extensive list of IDMC connectors to connect to any source/target
- Exchange data in batch or in real-time

Key Benefits

- Simplify and expedite the handling of complex industry-specific data standards
- Harmonize trusted, accurate healthcare data across applications
- Support interoperability standards
- Adhere to data security and privacy mandates

Data Services Repository

- The data services repository is a central repository that includes a wide list of pre-built data services for handling different industry-standard messages.
- It includes parser and serializers and some pre-built mappers
- If your organization exchanges customized messages with your partners, you can upload custom data services to the repository to process the custom messages.
- Currently, the Data Services Repository includes the following out-of-the-box data services:
 - ACORD
 - EDIFACT
 - EDI
 - HIPAA
 - HIX
 - HL7 all versions
 - NACHA
 - SWIFT

Data Service Names and Types

The name of a data service indicates the industry standard, the version of the standard, the message type, and the service usage type in the following syntax:

<industry standard>_<version>_<message type>_<usage type>

The usage type can be one of the following types:

IParser: Use a parser service to receive messages from your partners.

Serializer: Use a serializer service to send messages to your partners.

Restricted serializer: Use a restricted serializer service to send messages to your partners, including validation messages. Applies to HIPAA messages.

For example, to build HIPAA message 270, version 5010A1, use the following service: HIPAA_5010A1_270_Parser.

Data Services Transformation

- Data Services transformation sends message data to downstream transformations in either a file or buffer.
- Depending on the status tracing level and usage type of the data service, the transformation may create additional output fields.
- You can add more Target transformations to the mapping and configure the Data Services Transformation to send different output types to different targets.
- When you add the transformation to a mapping, you define the Data Services that the transformation invokes. You can choose one of the following options:
 - Use a single Data Service to process a single message type for a specific standard and a specific usage type. For HIPAA messages, you can also select a data service that sends messages and validation messages to your partners.
 - Use a dynamic service name to process messages for multiple message types from different standards and usage types. When you use a dynamic service name, you pass the data service names to the transformation as parameters.

Data Services API

The data services resource can be used to run industry data services using Informatica Intelligent Cloud Services REST API.

The Data Services can also be called from CAI.

To run a data service, use the following URI:

/DSRepo/rest/api/v1/services/run/<service name>

When you use the services resource, use the following request header format:

```
<METHOD><base URL>  
Content-Type: application/json  
Accept: application/json  
IDS-SESSION-ID: <SessionId>
```

Industry Data Service Customizer

- An industry data service customizer can be created to customize an industry-standard message and publish it as a custom data service to the data services repository.
- A customizer provides out-of-the-box message types based on the messaging standard.
- You select a message type and customize the message structure by adding, editing, and removing elements.
- You can save the message to continue editing it later, or you can publish the message as a data service so you can use it in a Data Services transformation.
- You can't edit the published data service, but you can edit the customizer and republish the message as another data service using a different name.

Use Cases for HealthCare

The following are some of the use cases that industry solution provides for healthcare organizations:

Batch Analytics

- You can use Industry data services to extract healthcare data from HL7/FHIR for analytical purposes.
- You can parse and transform the already extracted messages to be stored in a CDW

Example: customer receives patient data from different hospitals in different formats and needs to push it to a DWH for clinical research

Use Cases for HealthCare

Real Time and Operational Use Case:

- You can source and parse messages in real-time using CDI or CAI.
- You can achieve high transactional volume for HL7 and FHIR.
- You can transfer the messages via MLLP, Kafka, FHIR REST connector

Example: process HL7 messages in hospital to update patient data using MLLP with Kafka provides real-time operation

Bridging between HL7 and FHIR

For organizations that are still using HL7 V2 but are gradually adopting HL7 FHIR, pre-built mappers can be used to convert from HL7 2.x to HL7 FHIR. For example, receiving HL7 patient data and need to store it in FHIR format in Healthlake.

Demo

References

Industry Solutions

- <https://docs.informatica.com/integration-cloud/data-integration/current-version/industry-solutions-for-healthcare/preface.html>
- <https://docs.informatica.com/integration-cloud/data-integration/current-version/mappings/mappings/mapping-templates/industry-solutions-templates.html>
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- <https://docs.informatica.com/integration-cloud/application-integration/current-version/serialize-swift-messages-with-secure-signatures/preface.html>

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Q & A

Thankyou