

# Informatica Intelligent Structure Discovery

## Benefits

- Leverage AI, machine learning, and auto-generated visual models to more quickly understand machine data and prepare it
- Empower teams to be more agile with machine data through advanced tools that assist through automation
- Easily put auto-generated parsers for machine data and other log files to work in Informatica Intelligent Cloud Services or on-premises
- Leverage high-performance loading with advanced partitioning and push-down optimization

## Accelerate Data Discovery and Integration With Enterprise Data to Create Business Value

With the explosion of data and machine-generated data files from the Internet of Things, the web, networking, security, and other appliances and systems, organizations are looking for easier ways to make sense of data so they can integrate it with other enterprise data to drive business outcomes. The data can take many forms, including log files that may not have a standard structure, and can be difficult to understand, transform, and integrate.

The content of the data files can vary among providers, software revisions, configuration parameters, and other criteria—as well as change over time. There is a need for tools to find the structure of the data and automatically create a model to parse and transform a variety of files in the cloud or on-premises.

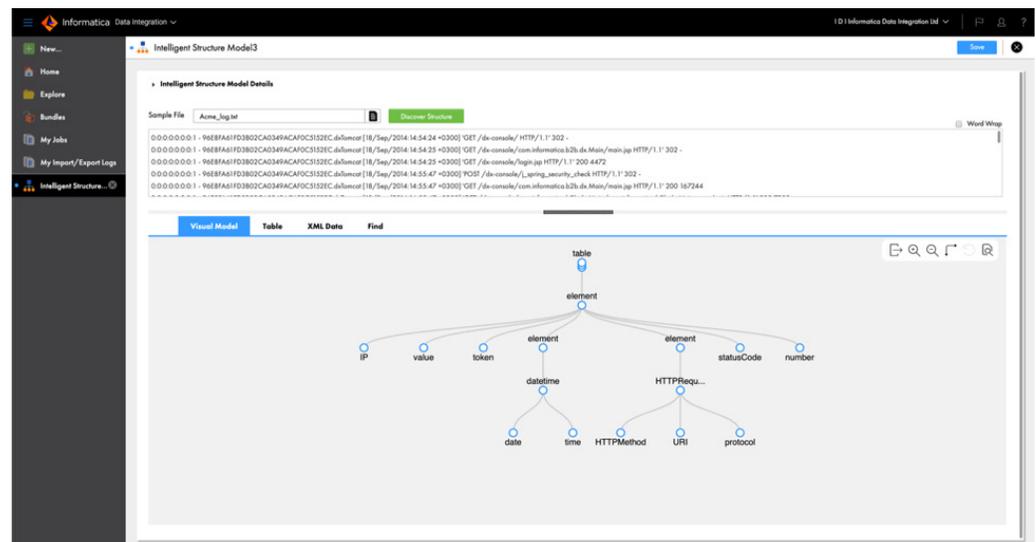


Figure 1: A simple, machine learning-generated dynamic visual model aids in understanding data.

## Rapidly Understand and Parse Data With Automation

An increasing number of organizations are searching for new and improved ways to capitalize on the steady flow of data they are receiving from machines, applications, the web, and other sources throughout their enterprises. Most companies use humans to manually analyze and integrate the data. In addition, they may use traditional tools with complex user interfaces that require specific expertise, or use purpose-built systems to analyze any data in isolation.

The resulting use of new data sources is usually limited, project-specific, opaque in process, slow, and difficult to adapt to changes in data formats. There is also the need to dynamically process many variations over time. Instead of easily leveraging all of this data freely with any other enterprise data, most companies find that their ability to use this data in the way they want is restricted and slow.

Informatica® Intelligent Structure Discovery (ISD) automates file ingestion processing and is powered by the Informatica CLAIRE® AI engine to discover and parse complex files. Informatica Intelligent Structure Discovery provides out-of-the-box support for a variety of data file formats including clickstreams, IoT log, CSV, text delimited, XML, JSON, Excel, ORC, Parquet, Avro, PDF forms, and Word table files.

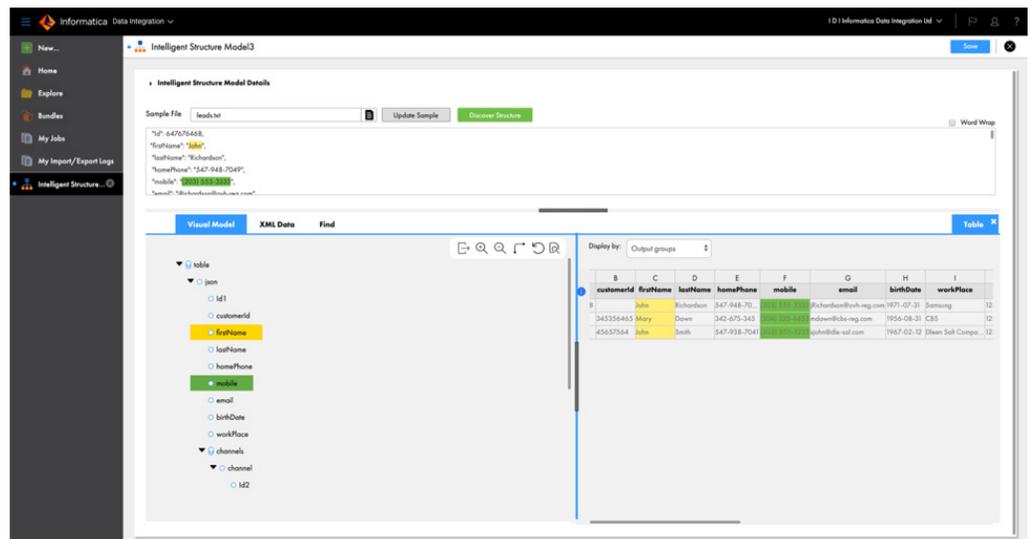


Figure 2: Preview the target data structure specified in the visual model and see how it compares to the source data.

## Gain Greater Value With Integrated Data

Instead of waiting for specialized IT resources to manually analyze and prepare the data before being able to use it, users can take advantage of Informatica Intelligent Structure Discovery automation and visual design tools to help process and use the data more quickly.

Organizations can rapidly put these new data sources to work with the rest of their enterprise. This means you can leverage these new, rich sources of non-standard data beyond point projects more easily to unlock greater value to your organization. You may start with an initial use case to identify anomalies for security or fraud detection or the behavior of remote systems and can easily expand to broader analytics or operational use cases that are predictive.

## Increase the Value of Any Data With Automation

Informatica Intelligent Structure Discovery is embedded in many Informatica technologies including Informatica Intelligent Cloud Services<sup>SM</sup> (IICS) Cloud Data Integration, Informatica Data Engineering Integration, and Informatica Data Engineering Streaming. Informatica Intelligent Structure Discovery uses an algorithmic approach and applies machine learning techniques to generate a visual model structure. This visual representation makes it easier and faster for the user to understand the file structure and the data contained within the files as well as the relationships among the data elements.

Users can decide which elements they need and refine an output structure to leverage the data with data from other enterprise systems. An auto-generated parser then converts the data into the desired structure for consuming systems, such as relational databases. This auto-generated parser can be used seamlessly within Informatica Cloud Designer to transform large amounts of any data on an ongoing basis.

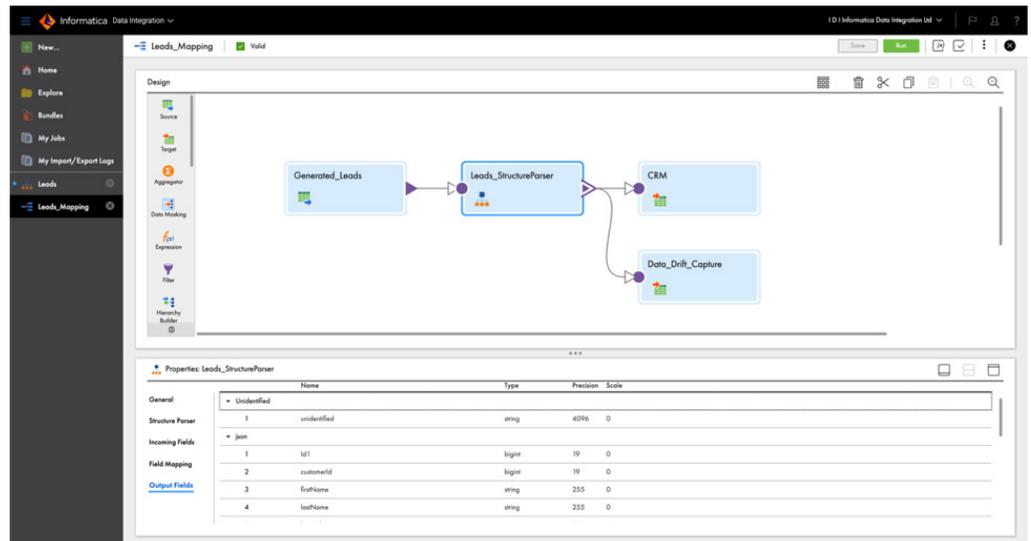


Figure 3: Data parsers generated in Informatica Intelligent Structure Discovery can easily be put to work in Informatica Intelligent Cloud Services mappings.

## About Informatica

Digital transformation changes expectations: better service, faster delivery, with less cost. Businesses must transform to stay relevant and data holds the answers.

As the world's leader in Enterprise Cloud Data Management, we're prepared to help you intelligently lead—in any sector, category, or niche. Informatica provides you with the foresight to become more agile, realize new growth opportunities, or create new inventions. With 100% focus on everything data, we offer the versatility needed to succeed.

We invite you to explore all that Informatica has to offer—and unleash the power of data to drive your next intelligent disruption.

## Improve Your Ability to Dynamically Manage Data Drift

Increase team agility and efficiency through machine learning and visual tools to automate the transformation and integration of any data type in your enterprise. Easily manage data drift and gracefully overcome noise and changes in incoming data with the ability to capture unexpected data for further processing. Automatically manage data drift, such as different data formats like dates, in-file inconsistencies where some rows include extra fields, or new file format changes with additional fields.

Try Informatica Intelligent Structure Discovery within Informatica Intelligent Cloud Services or on-premises today. Or [contact us](#) for more information about how your organization can benefit from Intelligent Structure Discovery of any data.

