

Glassbeam Studio

Industry's premier data transformation and preparation platform

Glassbeam Studio is the industry's leading platform for transforming and preparing complex machine data generated from IoT-connected devices for rich visualization and deeper analytics. Studio adds immense horsepower to the process of assimilating, cleansing, preparing and transforming unstructured machine data – and in that it is the industry's first, and probably boldest attempt to derive business value from unstructured and semi-structured data.

Massive amounts of data from connected machines are creating exciting opportunities to make better business decisions in real time.

However, generating this data is only half of the equation. Harvesting and making the data actionable is where real value lies. Glassbeam Studio helps in effectively modeling the data using Semiotic Parsing Language (SPL™) — an intuitive language that describes the structure and semantics of a class of documents.

“ With Glassbeam Studio, the ability for product manufacturers and service providers to transform complex machine log data into actionable information in minutes is going to have a major impact on the industry. ”

Jason Stamper, 451 Research

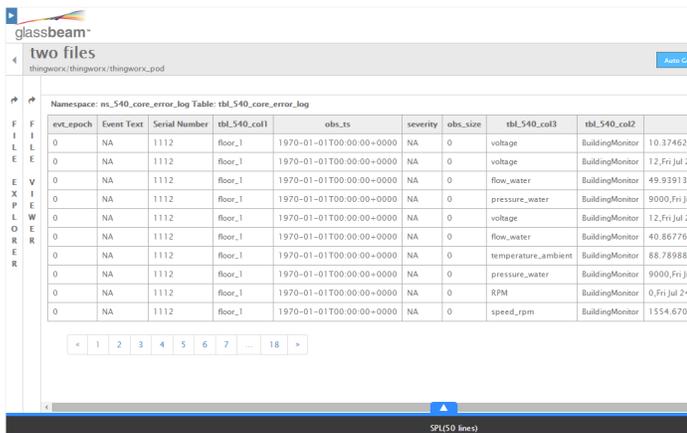


Figure 1 – Glassbeam Studio IDE

Key Benefits

- **Easy to Use** — Upload any log format from any machine and within seconds you get back structured data. It's that simple.
- **Instant Data Quality Validation** — Since Studio is fully integrated with Glassbeam applications, instantly view, check, and graph the transformed data using Glassbeam Workbench and validate the final output. If parsing rules have to be modified, you can do it right away and improve on data quality.
- **Ingest Multiple Data Sources and Files** — Easily ingest multiple files from one or more bundles using single project workflow. Data sources supported today include syslogs and CSV formats. Future upgrades coming soon to include support for other formats such as XML, JSON, etc.
- **Reduce Data Organization Time** — Eliminate the most strenuous effort in machine data analytics: extracting and organizing data. Studio takes care of translating log content however formatted into meaningful data, mapping common fields consistently, handling incomplete or erroneous data, and also provides self-describing data.

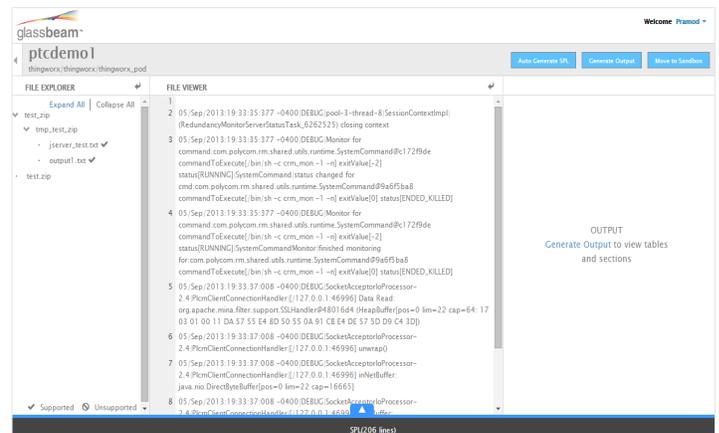


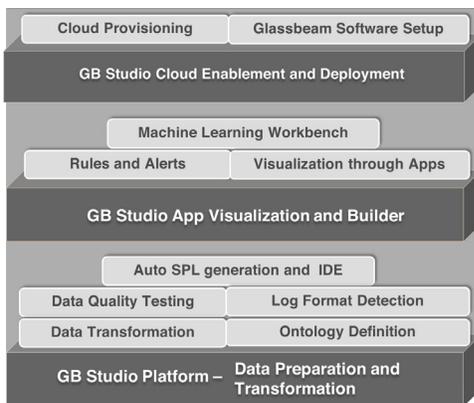
Figure 2 – Apply Transformations on Prepared Data

Technology Architecture

The building blocks of Studio are broken into three parts: Data Preparation and Transformation, App Visualization, and Cloud Enablement layers. In the Data Preparation layer, well-known time series formats like syslog, comma, pipe, tab, space separated files, single line or multi-line events are detected. Apart from detection, it also provides all the standard features of an IDE like code editor, syntax checking, and auto code completion. A variety of functionality is also made available, including merging and splitting of auto detected formats and the extraction of additional content using simple drag and select UI actions.

Once the data is ingested and cleansed, the prepared data feeds the App Visualization layer. Here's where the integration with other Glassbeam Apps takes place for consuming the prepared data. The prepared data is made available for dashboard development, Rules Engine, and the Machine Learning platform. In this layer, the required structure is created in both Cassandra for analytics and indexing in Solr to enable search on the parsed content.

The diagram below identifies the key components of Glassbeam Studio's technology architecture:



Note that each layer builds upon the ones below it. In the Cloud Enablement layer, provisioning for large scale deployment can be managed using inbuilt tools to size and deploy the complete solution on a cloud platform.

Studio represents a revolutionary approach to detect, prepare, manipulate, and transform any log data content. Without writing a single line of code, for the first time, any business or technical user in an organization has access to a development environment to easily transform complex log data into a source for rapid decision making.

“ Analytics and machine learning in the IoT world have a significant dependency on data transformation when dealing with unstructured machine log data... We believe Glassbeam has created a valuable footprint in this space and Studio is another proof of their mission to simplify IoT analytics implementation life cycles. ”

Ryan Caplan, President and GM of Analytics at PTC

Features

Intuitive User Interface

Work with the versatile functionalities of Glassbeam Studio from an intuitive UI that makes data preparation and transformation easy and efficient.

Native Log Format Support

Automatically detects the type of log format you have uploaded or are streaming and appropriately applies built-in algorithms to parse the data.

Apply Transformations on Parsed Data

Allows multiple transformations on the parsed data like merging and splitting of auto detected formats, extraction of additional content using a simple drag and select UI, performing calculations on parsed data, pivoting rows, etc.

Prepared Data Available for Auto-Indexing and Searching

Creates the required structure in both Cassandra for analytics and indexes in Solr to enable search on the parsed content.

Contact: sales@glassbeam.com

Glassbeam, Inc., 5201 Great America Parkway, Suite 360 • Santa Clara, CA 95054

Phone: 408-740-4600