

ETL Data Integration

Orchestrating data integration is delivered with vendor or open source components, giving you options to work with Pentaho, Talend, Informatica, DataStage or ESB tools including Mulesoft or TIBCO.

End-to-end secure cloud-hosted infrastructure-as-software delivered over Amazon Web Services (AWS), Azure, OpenStack, VMWare.

Integrate with Texuna's Enterprise Data Warehouse.

Overview

In a world with increasingly sophisticated expectations concerning service and personalisation, data must be seen as a fundamental asset, and organisations must improve their level of maturity of handling that data as an enterprise. Texuna is laser focused on the business case. Texuna's expertise and experience with cloud solutions and open source software absolutely minimises capital investment costs and service fees. Our agile business friendly project methodology guarantees early and frequent realisation of benefits. This disciplined approach enables Texuna to ensure delivery is on time and to budget, while providing the flexibility needed to ensure that the right priorities are in place for the project.

Texuna are certified partners of Pentaho (who a suite of open source Business Intelligence products which provide data integration, OLAP services, reporting, dashboarding, data mining and ETL capabilities).

Texuna have experienced staff who are very familiar with the tools and have actively implemented complex installations that use a range of different data sources. Texuna are able to support you through the whole of your implementation and '*business as usual*' phases with our comprehensive solution services offering. The result is that your implementation is customised to suit your unique requirements. This can be simply extracting, transforming and loading data from a variety of sources to a single database or data warehouse, or it may also include the full use of a business analytics package so that you can maximise the use of your data in terms of generating actionable insights.

Features

- Integrate hundreds of data feeds via metadata injection framework.
- Fully Integrated pipeline orchestrating ODS, MDM, EDW, Star schema views.
- Data governance metadata extraction, publish data lineage/provenance, complete audit trail.
- ETL/ELT metadata framework supports Data Vault 2.0 and/or Mirror/Stage/Star schema).
- Big Data ingestion via Extract Load Transform pattern.
- Elasticsearch Logstash Kibana (ELK) for processing unstructured web/system logs.
- Metadata ELT/ETL framework helps standardise pattern maintenance, testing, simplifying orchestration.
- Integrate data from NoSQL like MongoDB, CouchDB, DynamoDB, CosmosDB.
- Work with SSIS, Pentaho, Talend, Informatica, DataStage, Wherescape, Matillion, Alteryx.
- Integrate with Texuna's EDW, BI Analytics services on G-Cloud.

Benefits

- Intuitive Interface Enables Users to Ensure a Reliable Transformation Process.
- Incorporate new Source systems easily with customisable ETL plugins.
- Data Governance, Reliability and Security maintained and assured.
- Blend All Data in Real Time and Obtain Immediate Results.
- Plug and play architecture ensures vendor lock-in is minimised.
- REST API for 3rd Party Applications.
- ODBC/JDBC connectors for RDBMS; JSON connectors for NoSQL.
- Unstructured data plugins for social media (Facebook, Twitter etc.).
- File systems: OneDrive, Sharepoint, box.net, Google Drive, Webdav, HDFS, S3.
- Plug in to message queues, Enterprise Service Bus.

Technical Detail:

Texuna will work with you to identify and provide the best data integration tool for your organisation and context. We believe in leveraging any investments you may already have made in tools and will utilise them where practical.

Where there is no existing investment, Texuna strongly recommends the Pentaho Data Integration (PDI) suite for our clients because PDI has:

- A modular structure with loosely coupled components relatively independent of each other.
- PDI (Pentaho Data Integration) ETL (extract, transform, load) tool for data profiling, integration, transformation and loading to warehouse and data marts.
- Pentaho Reporting (Rich Designer), OLAP & Dashboards for business intelligence needs.
- Capability to avoid expensive proprietary vendor lock-in across the whole architecture.
- Adherence to open standards - the ultimate in extensibility.
- An Open Source Software alternative where we can demonstrate maturity and reliability.
- Attractive, competitive pricing.
- Effective process able to expose its own metadata through cross-industry standards.
- Extensive scheduling and automation support.
- Deep possibilities to integrate, embed or extend the tool software with new plugins or extensions.



Major Source System Plug-ins

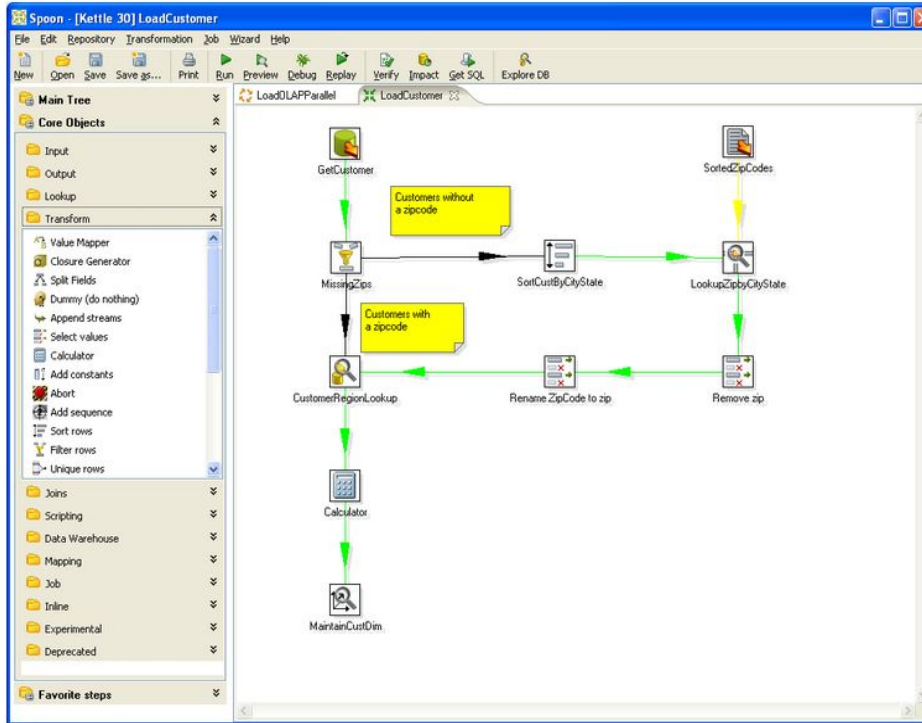
1. **Relational Databases:** Oracle, DB2, MySQL, SQL Server.
2. **Hadoop:** Cloudera, HortonWorks, MapR.
3. **NoSQL:** MongoDB, CosmosDB, DynamoDB, Cassandra, HBase.
4. **Analytic tools:** Vertica, Greenplum, Teradata.
5. **Enterprise apps:** SAP, Oracle.
6. **Cloud/SaaS:** Salesforce, Amazon Web Services, Azure Web Services.
7. **Files:** XML, Excel, flat file, Object Storage and web service APIs.

This means that your data sources can be easily and cheaply be included so that the data content can be leveraged for analysis and decision making. PDI has put a huge development focus on big data tools and are a recognised leader in the Gartner magic quadrant.

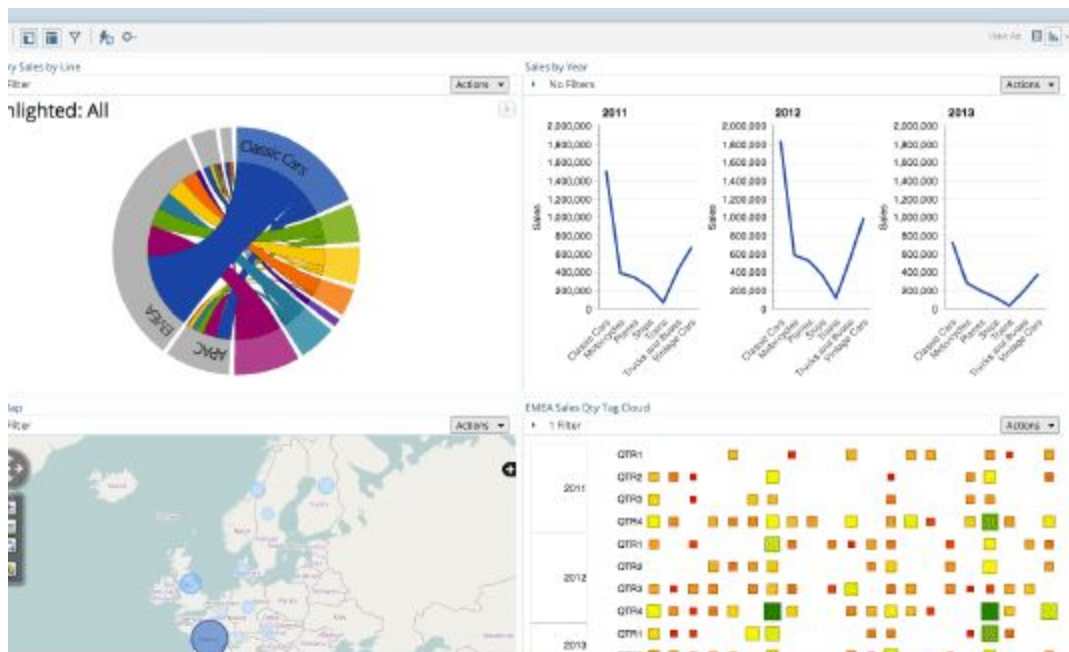
Intuitive Graphical User Interface:

The following screenshots gives a flavour of the UI and layout.

A close look on the first image of the Spoon ETL designer at the left hand menu reveals the extent of features available (Input; Output; Lookup; Transform; Joins; Scripting; Data Warehouse; Mapping; Job; Inline; Experimental; Deprecated), each of which has its own list of detailed functions, connections and components.



The next image shows a dashboard collection of interactive graphical reports that can be used for portal and mashup integrations that can integrate analytics with other applications.



Delivery Mechanism

Texuna will work with you to formulate the best plan for implementation. Implementation services are delivered through our Specialists as listed on the G-Cloud Support Services framework. SaaS applies to the business as usual phase on transition to live running.

Our Software Service is designed so that your budget is managed to a fixed monthly fee inclusive of:

- Fully managed hosted solution as SaaS on cloud infrastructure within the EEA region and secured to ISO 27001 standards (please ask us about alternative cloud deployments).
- Onboarding process including licences.
- Application support services.
- Off-boarding process on contract termination.

Our Cloud Support services are recommended for any complex implementation phase when the business requirements demand. Cloud Support services cover:

- Project setup and implementation is managed by our team of skilled and experienced professionals.
- Analysis of business requirements and specification of detailed solution.
- Agile implementation services to integrate data sources, profile and cleanse data, create master data management workflows and a Kimball style enterprise data warehouse with reporting and analytics data mart implementation if required.
- Handover and training services.
- Deployment and transition management services to business as usual.

Our Platform as a Service options also provide for:

- Specialist costing options to leverage any existing investments in licences to utilise the “bring your own licences” options, and to leverage hosting instances available for the software you already have. This is useful if you already have an investment in tools such as Tableau, Business Objects, Alteryx, Microsoft SqlServer etc. and you want to continue using them.
- Agile development services to implement any specialised functional requirements.
- Texuna follows an Agile development methodology and is an experienced open source solutions integrator. We have the skills and capability to provide cost effective solutions within short implementation timeframes.

Pricing

Pricing for this service is provided in our separate pricing document in this catalogue entry.

Any customisation or in-house implementation charges and change control items may be purchased through Cloud Support Services. The Texuna SFIA rate card day rates will be applied. Discounts may be possible for large projects.

General terms

Information Assurance and ISO 27001

Texuna have a strong focus on high quality delivery and implement rigorous Quality Assurance processes and procedures:

- ISO 9001 certified with BSI as external auditors.
- Cyber Essentials and IASME Governance Standard compliant.
- ISO 20000-1 certified with BSI as external auditors.
- ISO 27001 certified with BSI as external auditors.
- ISO 14001 by QMS International.
- Our project managers are PRINCE2 certified.
- Developers are certified under Brainbench and Sun standards (amongst other accreditations).
- We are an Amazon Web Services (AWS) cloud hosting certified partner.
- We are a Pentaho partner authorised to provide the Pentaho suite for big data integration, ETL tools and analytics.

Government Classification Scheme (GCS)

Texuna solutions are in use for 'official' level data systems. We ensure that your personal and sensitive data items are identified, encrypted and shown only to those users who have a need to see them. All sensitive and personal data is protected by stringent access control mechanisms. Data in transit and at rest is also encrypted as are all data backup files.

Comprehensive support of good data governance will often underpin data migration as well as best practice data warehouse management. We have a strong track record in migrating legacy systems to create a unified datastore while improving the quality and integrity of the data held (as well as in reducing duplication). This can also be done during data migration.

- Texuna can deliver a metadata rich data warehouse which incorporates best practice design, so that management and maintenance, is cost effective and efficient.
- Texuna will ensure that client data, and especially any personal and sensitive data is:
 - Protected by encryption in transit and at rest;
 - Protected by stringent access control;
 - Guarded from improper use through sophisticated access and authentication controls;
 - Tracked using a comprehensive audit trail that can be reported on.

Backup and Maintenance

Texuna-managed services include support for backups, maintenance, monitoring, disaster recovery and upgrades. Hosting is always provided in AWS or Azure zones physically located in the EU so that your data is fully protected.



Detailed maintenance guidance is provided for internally-hosted implementations, including all disaster recovery instructions and scripts necessary to restore the application in case of failure.

In addition, Texuna provides information on backups and monitoring that can be implemented using existing infrastructure, along with step-by-step guides to install upgrades.

Invoicing

Charges are invoiced in monthly in advance. Payment terms are 30 days with a purchase order or immediate via credit card.

Contract Term

Contract term for Pentaho products is 1 year. Each year contract will need to be renewed. Contracts will automatically renew without loss of data or service if sufficient credit is on account with Texuna.

On-boarding

The on-boarding steps are as follows:

- Contact Texuna with a draft order form, or submit online request.
- If required, a dialogue is opened to discuss the options most suited to your requirement.
- When options are agreed, the order form is finalised and formally accepted by both parties.
- Within agreed timelines, technical information related to install PaaS will be provided to Texuna.
- The live environments and credentials will be sent to the Customer;

Off-boarding

At the end of the agreed contract term, the off-boarding steps are as follows:

- Either Texuna or the customer can provide notice of termination at least 30 days in advance of the end of term.
- All stored data is extracted in .csv or database format and sent to customer via secure file transfer service. On confirmation of receipt, data is purged and destroyed from servers;

Time to Provision/De-Provision

Dependent on customer requirements and options selected, time to provision is from 48 hours of order form acceptance. Time to de-provision can be from 24 hours of expiry of contract.



Service Constraints

Texuna applications may be subject to routine maintenance and this will be agreed in advance with our client so that disruption is minimised. Routine maintenance is never scheduled during the normal working day and does not typically result in noticeable downtime.

Customisation can be achieved via Cloud Support services. No features will be deprecated without advance agreement with the customer. New features may become available from time to time.

Service Level Agreements

All user account information is encrypted to prevent unauthorised use. The SLA guarantees a monthly uptime percentage of at least 99.9% for SaaS. Different support level options are available as per the detailed pricing schedule. Severity level definitions and response times as well as financial recompense are only available under an enterprise support package.