



# Predix Enterprise Connect Service

**September 26, 2017**

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Services Analytics Apps [Filter Categories](#)

## Services and Software

Use these key industrial services to build, test, and run your innovative Industrial Internet applications.

### EDGE SOFTWARE AND SERVICES

**Connectivity** SOON

Easily apply this plug-and-play, secure, and reliable connectivity service.

**PREDIX**

**EdgeManager**

EdgeManager is an application to manage the lifecycle of a fleet of edge devices.

**PREDIX**

**Enterprise Connect**

Provide manageable and scalable connectivity between the Predix cloud and your enterprise.

 **GE Digital**

**Predix Machine**

This stack for edge devices assures secure connectivity to the Predix cloud and device lifecycle management using EdgeManager.

**PREDIX**

### DATA MANAGEMENT

**Event Hub** BETA

This messaging system handles high-velocity event data, workload data, or other streaming data.

**PREDIX**

**Asset**

Create and store machine asset models and instances.

**PREDIX**

**Time Series**

Quickly and efficiently manage, distribute, ingest, store, and analyze time series data.

**PREDIX**

**Database as a Service**

Apply this robust, highly available, ACID-compliant, relational/SQL database as a service.

**PostgreSQL**

**Blobstore**

Use this binary large object storage (BLOB) service to store and manage large files and data.

**Message Queue (AMQP)**

Use this scalable, high-performance, multi-protocol message queue to connect and manage devices and applications.

**Key-Value Store**

Use this open source key-value cache and storage to store and retrieve data.

# Securely manage and scale connectivity between the Predix Cloud and your enterprise

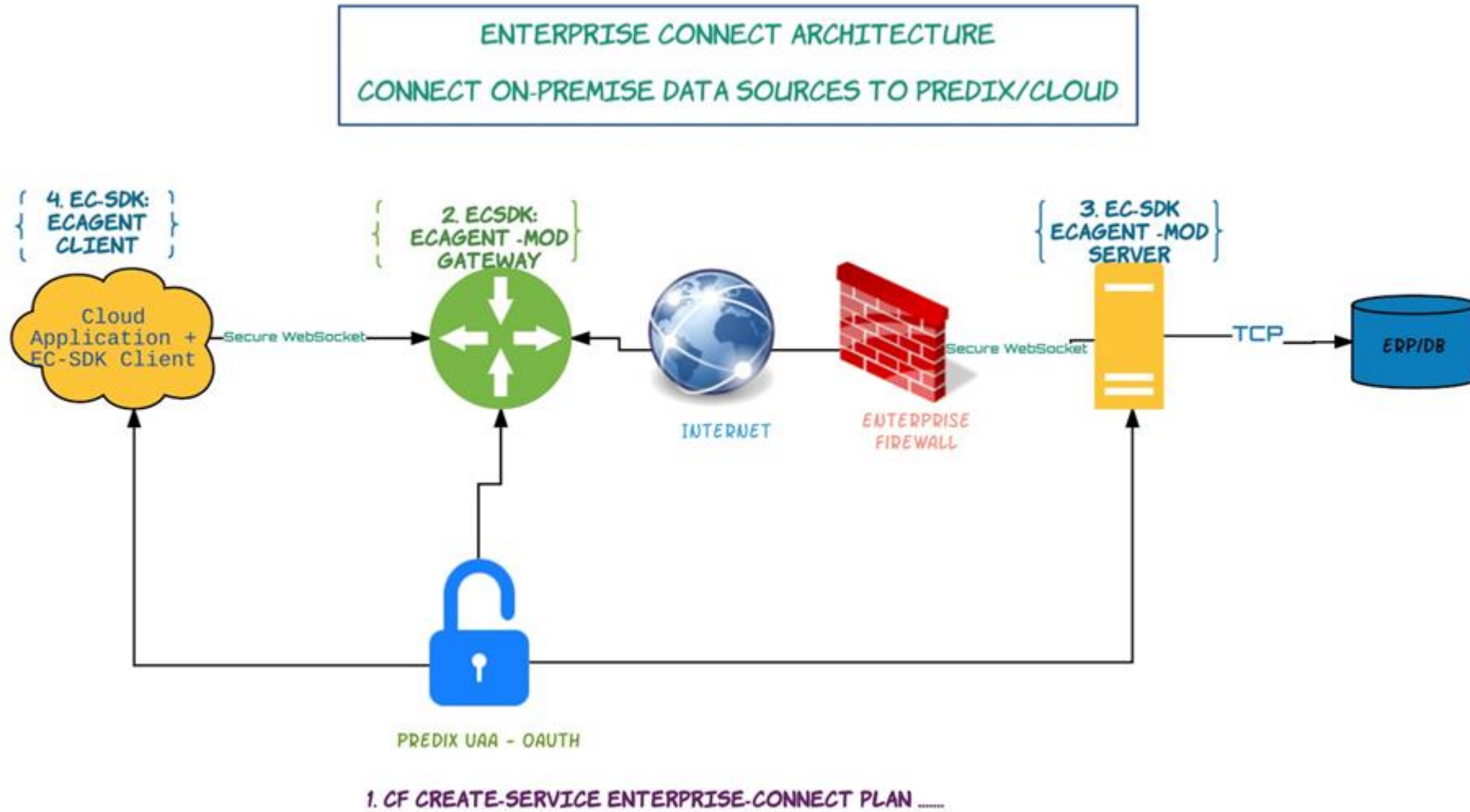
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## Enterprise Connect service :

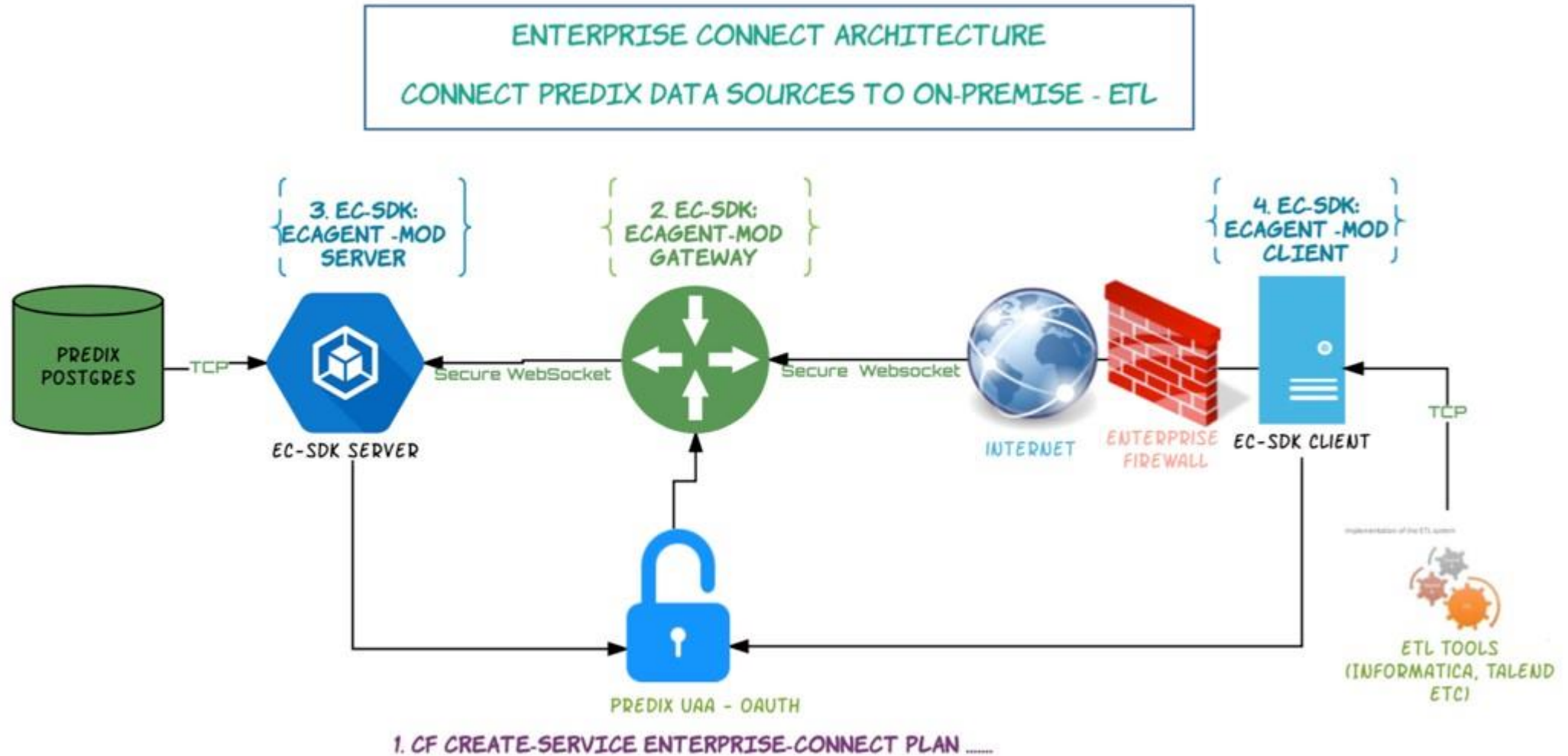
- To connect to internal and external resources
- Secure gateway that supports all TCP protocols through native websockets for scalable and flexible tunneling deployment.
- Provides integrated security with UAA



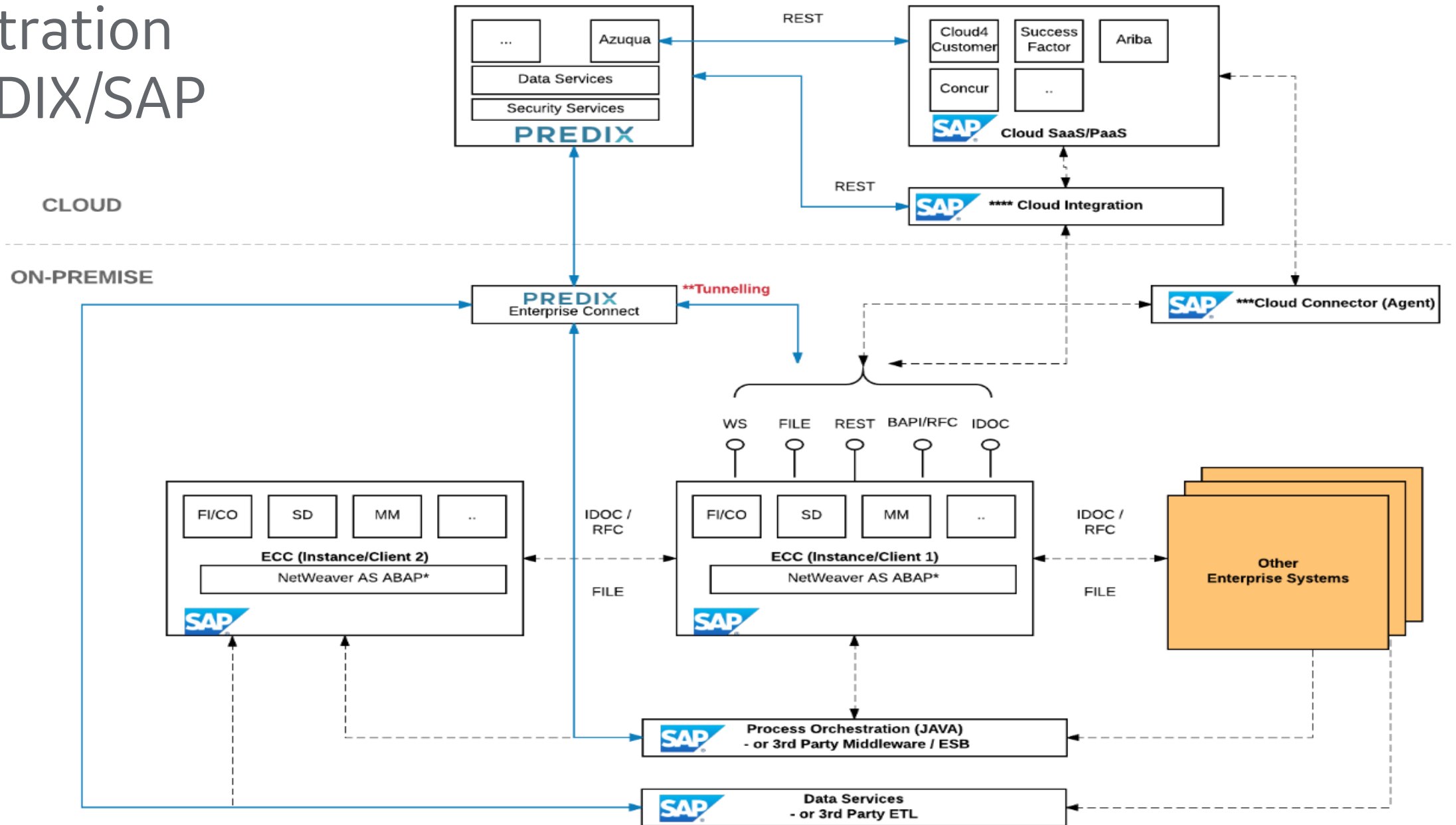
# Connect an on-premise data source to the Predix cloud



# Connect a Predix data source to an on-premise ETL



# Illustration PREDIX/SAP



\* ABAP (Advanced Business Application Programming) is a high-level programming language created by SAP  
 \*\* PREDIX Enterprise Connect uses Websockets to securely support all TCP protocols for scalable and flexible tunnelling deployment.  
 \*\*\* SAP Cloud Connector works like PREDIX Enterprise Connect  
 \*\*\*\* SAP Cloud Integrations has both ETL and Middleware functionalities. The ETL needs an agent to be installed on-premise

# Server components

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- CLI and Binary libraries for both Server and Client
- Node Oracle Database support
- Java Library Support with examples and Product Benchmark for sizing document
- Auto Token Refresh for UAA
- Two-way Mutual Authentication Transport Layer Security (TLS) for both Server and Gateway and with manual cert provisioning
- Efficient error handling and graceful exits for slow or congested networks
- Enterprise Connect is cloud-agnostic and includes these Security features:
  - Single tenant service
  - Web WSS - Secure Sockets
  - UAA and OAuth integration
  - TLS & PKI authorization
  - IPv4 and IPv6 compatible whitelisting and blocklisting
  - Configurable proxy



