# Documentation for Ariett Cloud Customers Client Services Installation for GP Integration

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## 1.) Ariett Web Services Overview

When an Ariett administrative user selects to import company information, GL accounts, or vendor master file information, Ariett on Windows Azure uses read only Ariett Web Service, which sends the appropriate information from the Dynamics GP company. Additionally, when posting approved Expense Reports or AP Invoice transactions to Accounts Payable, designated Ariett Cloud users will post the transactions by calling the same Ariett Web Service.

The web service will automatically create an un-posted batch of transactions in the correct Microsoft Dynamics GP Company Accounts Payable module. This web service provides a complete closed loop solution for processing approved transactions to a designated GP company database, following the business rules in Dynamics GP for the specific company selected. This capability eliminates the requirement for time-consuming and error prone manual data file uploads and downloads.

The Ariett Web Services will reside at the client's site on their Microsoft IIS Server. The web service utilizes a DSN entry that defines a specific SQL user to access Dynamics GP, posting eConnect stored procedures located on the client's Microsoft SQL server where Microsoft Dynamics is installed. The Web Service also has read only access to specific Dynamics GP tables in the company database.

Because the request for either type of Web service comes from a specific named location, the client firewall can readily be configured to only allow access to these Web services from the specific IP address or named location. Additionally, each Web service requires a password that is client specific in order to perform its required function.
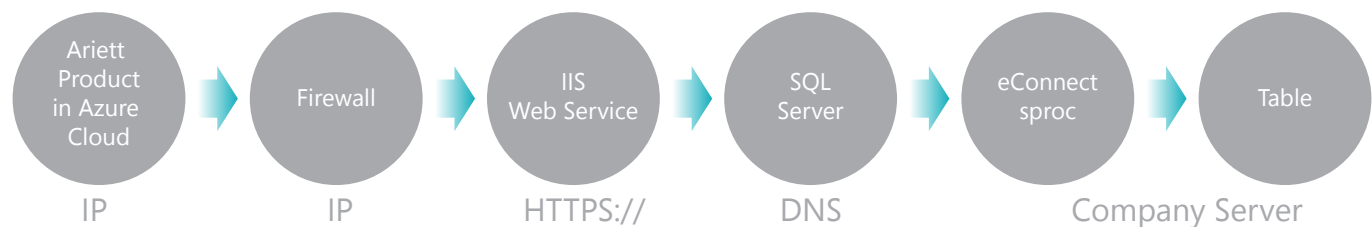
# 2.) Data Integration Access and Local Configuration for Ariett Web Services

Ariett's web service integration to Dynamics GP utilizes JSON Rest API and requires a small IIS server install locally of the web service, which then accesses the data through a DSN on your Dynamics Databases. There is a small list of tables to which it requires read only permissions, which are used to build and populate the Ariett Vendor Master, Ariett GL Master and Ariett Company tables in the Ariett Enterprise Cloud solution – all permissions for posting to a Payables Batch are processed through Dynamics GP eConnect stored procedures which require execute permissions – the JSON web service does not require write permission to the tables.

Most clients prefer to open up a specific firewall port to the IP address of Ariett Cloud for access from the web services. We also recommend that the local IIS server install be installed with a SSL certificate for security purposes, so that all web services calls will use encrypted communications via SSL through a secure https address.

# Here is a dataflow of the transactions:

## Posting

| Ariett Product in Azure Cloud | Firewall | IIS Web Service | SQL Server | eConnect sproc | Table |
|---|---|---|---|---|---|
| IP | IP | HTTPS:// | DNS | Company Server | |

## Importing

| Ariett Product in Azure Cloud | Firewall | IIS Web Service | SQL Server | Table (read only) |
|---|---|---|---|---|
| IP | IP | HTTPS:// | DNS | Company Server |

# 3.) What are the basic steps that IT needs to complete in setting up the connection between Ariett and our internal servers?

Here is the basis of the typical IT steps – (we strongly recommend using https, hence the need for certificates)

1. Obtain and install an SSL certificate for the IIS server on the production machine
2. Provide static address mapping for internal device to a public IP address
3. Create firewall rule allowing inbound and outbound access on port 443 (ssl) between public address and https://customername.ariettcloud.net – Ariett will provide the IP address for its web server upon request.
4. Create SQL user "ariettsa", apply strong password.
5. Provide SQL user account access to the following Dynamics tables and stored procedures:

Database: Dynamics
Read access to table SY01500 (company master)
Read access to SY003001 (Max # Segments)

Database: Dynamics Companies
Execute access to stored procedures:

taPMDistribution
taPMTransactionInsert
taGetPMNextVoucherNumber
taPMTransactionTaxInsert
taGLTransactionLineInsert
taGLTransactionHeaderInsert

Read access to PM40100 (payables setup)
Read access to PM00200 (vendor master)
Read access to PM00300 (vendor address)

Read access to SY03300 (payment terms master)
Read access to SY00300 (# Segments)
Read access to SY01100 (Default Payables Index)

Read access to GL40200 (GL segment descriptions)
Read access to GL00100 (GL master)
Read access to GL00105 (GLAccountIndex)

Read access to MC40000 (Currency Index)
Read access to MC40200 (Currency Symbol)

Read access to TX00101 (TaxScheduled ID)

Please make sure that you have set a Default Accounts Payable account in your Dynamics Purchasing setup window

# 4.) Frequently Asked Questions

## What are the IT-related Requirements for Ariett? (hardware, software, infrastructure, security licenses)

Ariett Cloud requires minimal Client IT related resources. Ariett web services for
integration with GP does require a local install on an ISS Server - a small investment for the reduction in labor and the potential for error in multiple manual entry points.

## Do you require someone from IT to maintain/manage this connectivity on an on-going basis?

IT will need to set up the firewall rules, install an SSL Certificate and the security in GP to allow the Dynamics GP eConnect stored procedures to run and read access to a few tables in GP (see documents for the specifics). Ariett will assist with the permissions issue and handles any issues specific to their software directly and very quickly in most cases.

## What data is sent from GP to Ariett and how often is this?

The web-services pull the designated Dynamics GL master, the vendor master and the vendor payment information. This is done on-demand from the web interface. You only have to execute the command (basically, clicking a button on the web site) when you make a change to the GL or the vendor master. Ariett then pulls updated information and makes it available.

## What data is intergrated to GP and is it schedules or real-time?

The push (write web services) into GP is also on demand. The accounting personnel who is authorized in Ariett to process the approved expense reports and AP Invoices  executes the processing routine that moves the approved transactions into GP. Essentially, it creates a GP batch for AP by pulling the next batch header number and then compiling the data from the waiting transactions – AP Invoices or Expense Reports. It creates the batch in GP, which then has to be posted to the GL by an accounting team member from within GP.

## What error checking does Ariett offer upon moving the data from the cloud to Dynamics GP?

The components of each transaction are grouped together to either succeed or fail as a single transaction – the last step of of the transaction is to park it as posted in Ariett and move it to history. Before a transaction is posted, we also perform a validation of the data on the transaction through our web services to ensure the data is still valid – vendors still exist, GL accounts still exist etc. Because the transaction is posted through Dynamics GP's own procedures via our web service, you receive the benefit of Dynamics GP's error checking during the posting process as well as Ariett's error checking.