Intelligent Plant™
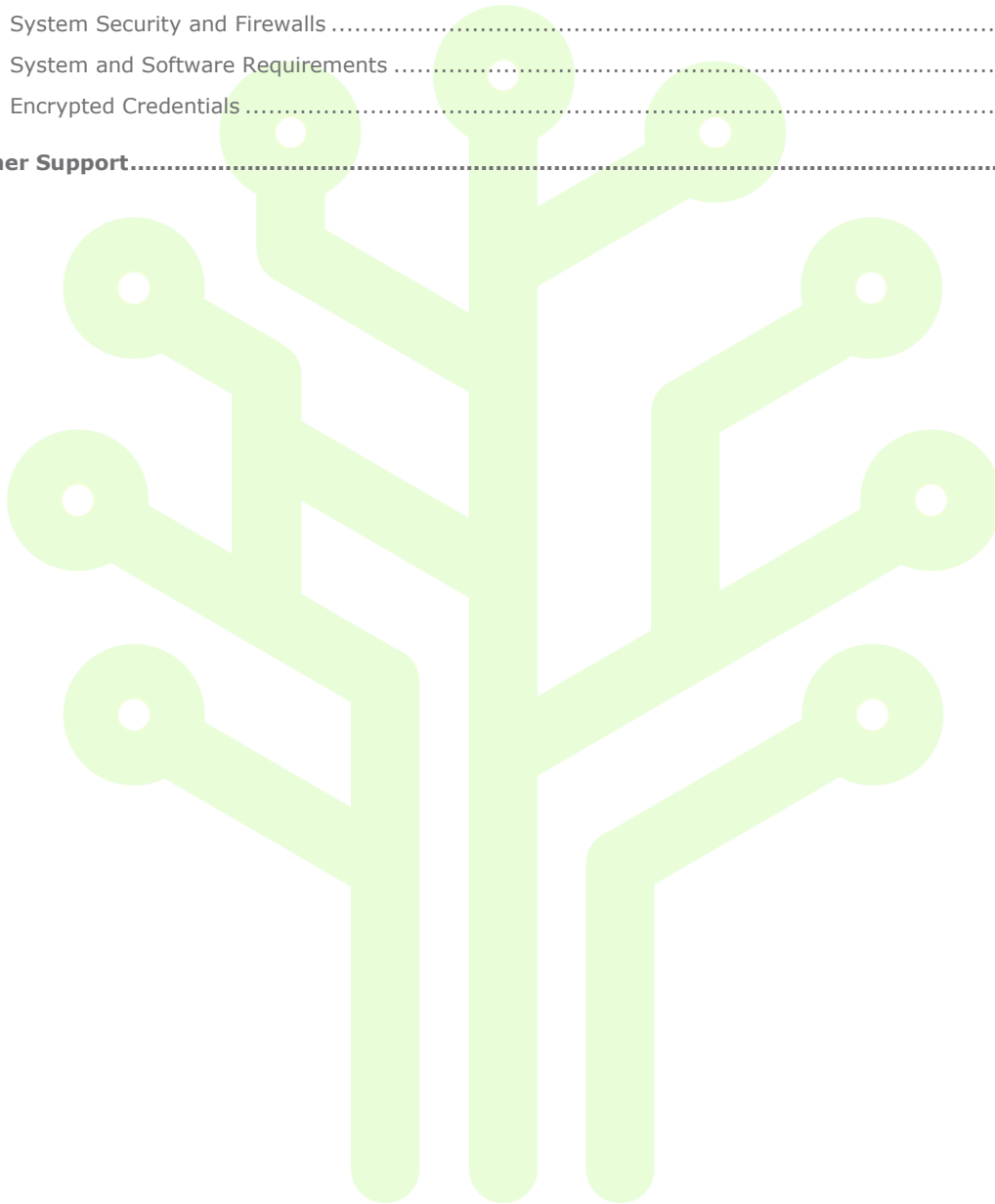
Inform, Enhance, Grow. Intelligently.

App Store Connect
Quick Reference

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1   App Store Connect

App Store Connect is the software that allows users to connect their data to cloud applications on the Industrial App Store. It is free to download from the Industrial App Store and installed to a client site.

Using the App Store Connect, an administrator can:

- Authorize a secure channel to the Industrial App Store
- Create connections to client data sources (e.g. process data historians, alarm and event collectors, etc.)
- Administer data sharing to App Store users

1.1 Connection Security

App Store Connect connects to the App Store using Microsoft's SignalR technology, which supports secure 2-way communication.

The exact communication protocol is determined by the capabilities of the computer running App Store Connect; if the computer is capable of using HTML5 websockets (Windows Server 2012 or later, Windows 8 or later), the App Store connection will automatically be upgraded to a secure websocket connection for best performance. Earlier versions of Windows will fall back to other communication protocols, but the connection is always encrypted, regardless of which protocol is used.

The secure connection allows App Store Connect to communicate with the App Store, and vice versa, but prevents any application from accessing your data unless it meets several layers of security requirements.

For more information, refer to the App Store Wiki: Connection Security.

1.2 User Access to data available on App Store Connect

The data sources configured on App Store Connect are only available to users via explicit role-based permissions.

For instructions on sharing data, refer to the App Store Wiki: Share Data with other App Store Users.

1.3 Application Access

Apps on the Industrial App Store can only access App Store Connections data-sources with user permission.

For more information, refer to the App Store Wiki: Application Permission.

1.4 Database Management

App Store Connect operates with the following types of database:

|	
Elasticsearch	App Store Connect ships with Elasticsearch 2.4 configured for local data storage. For custom configuration, including using an alternative Elasticsearch instance, or modifying the default store location, refer to the App Store Wiki: Big Data Service Advanced Configuration.
Process Historian	App Store Connect connects to all industry standard Process Historians. For a complete list, refer to the App Store Wiki: Advanced Data Core configuration. If you have further requirements, contact Intelligent Plant.
Alarm Collectors	App Store Connect connects to all industry standard Alarm Collectors. For a complete list, refer to the App Store Wiki: Advanced Data Core configuration. If you have further requirements, contact Intelligent Plant.

1.5 Data Storage and Backup

App Store Connect configuration and data should be backed up regularly.

For guidelines refer to the App Store Wiki: App Store Connect Back-up and Restore.

1.6 System Security and Firewalls

App Store Connect is firewall friendly and designed to operate in a multi-firewall protected architecture.
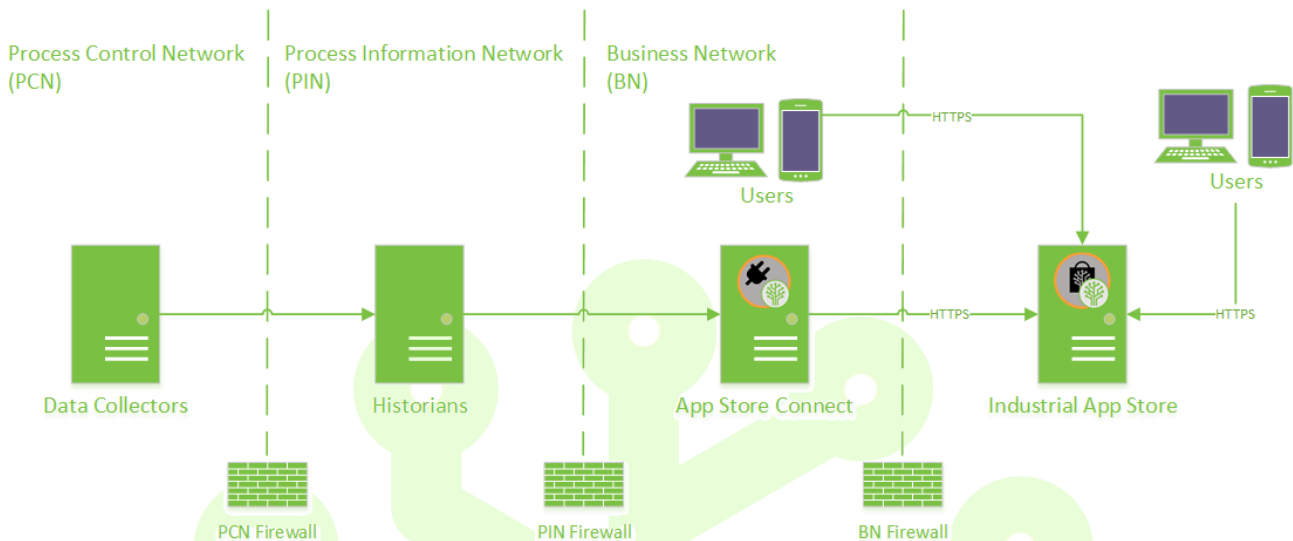
The above diagram illustrates a typical architecture. App Store Users (internal and external) can only access business data from the Industrial App Store through the secure App Store Connection.

Firewall Requirements

BN Firewall	TCP Port 443 open to outbound traffic from computer hosting App Store Connect to https://appstore.intelligentplant.com TCP Port 443 open to outbound traffic from user workstation to authentication provider: Microsoft Azure Active Directory: https://login.microsoftonline.com
App Store Connect Host Computer	TCP Port 443 open to outbound traffic
PIN Firewall	*Site specific.* To support access to Process Data, open TCP port 443 to inbound traffic from App Store Connect to required Historians.
PCN Firewall	*Site specific.* No direct App Store Connect access required.

1.7 System and Software Requirements

App Store Connect consists of a base windows services with data connection drivers and components. Each has its own minimum system requirements.

App Store Connect base windows service

- Windows Server 2008 x64 or above
- 8GB RAM
- 1.4 Ghz Dual Core Processor or above
- .Net Framework 4.8
- Active internet connection permitting access to App Store
- Data Volume Disk Space: +5GB (depending on your requirements)
- Port 443 (HTTPS) access to appstore.intelligentplant.com

Intelligent Plant Alarm Analysis Data Source Driver
If actively recording Alarms & Events:
- allocate approx. 3GB per 1 million events.

Intelligent Plant Historian Data Source Driver
If actively recording process data,
- allocate approx. 60MB per 1 million records.

Matrikon ProcessNet Data Source Driver
No additional requirements

OPC DA/HDA Data Source Driver
- OPC Foundation Core Components (provided by OPC vendor)

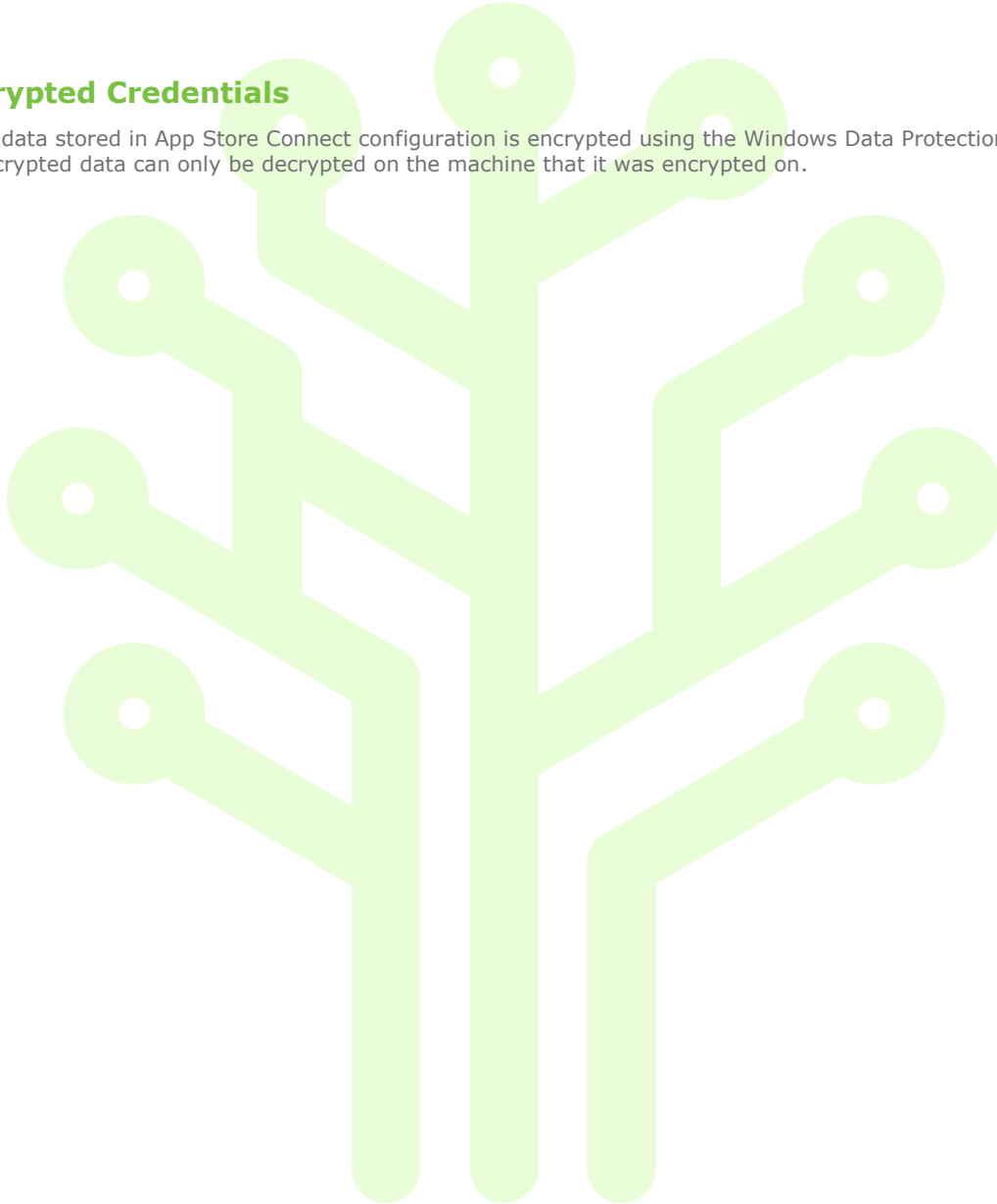**OSIsoft Asset Framework Data Source Driver**
- PI AF Client 2014 or above 64bit

OSIsoft PI Data Source Driver
- PI AF Client 2014 or above 64bit

1.8 Encrypted Credentials

All sensitive data stored in App Store Connect configuration is encrypted using the Windows Data Protection API (DPAPI). Encrypted data can only be decrypted on the machine that it was encrypted on.
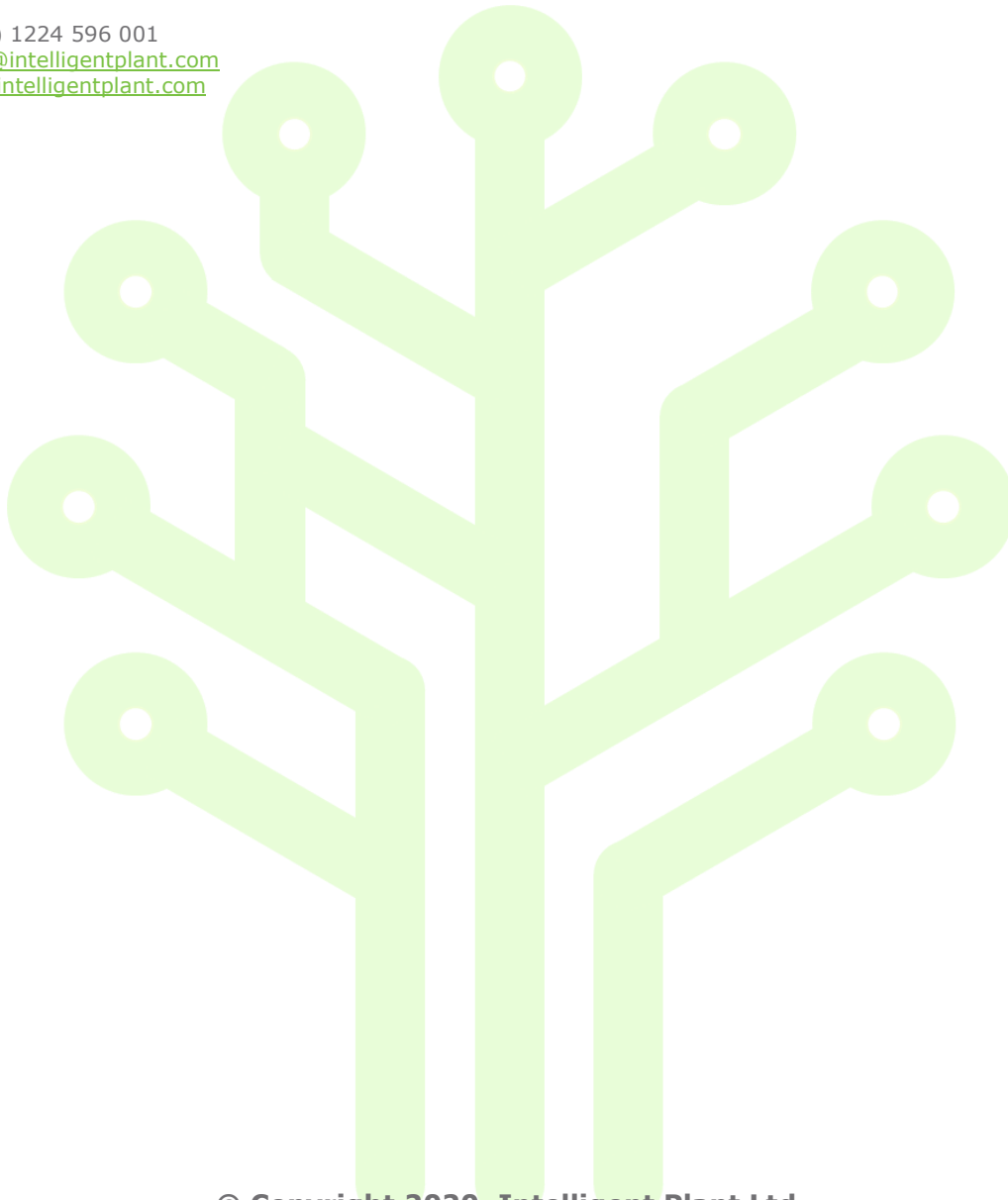
2 Customer Support

We welcome customer feedback and can provide assistance with any problems you may encounter.

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