As a global container logistics company, we work with various partners (customers, manufacturers, suppliers, and other partners) to interchange information for managing customers supply chain. Timeliness and data accuracy play a vital role in managing customers end 2 end supply chain. Robust integration hub that can help orchestrate information from various partners to internal systems at scale help company manage this information.

**Use Cases:**

* Onboarding a new customer
* Implementing the customer standard operating process using business logic layer to enrich information.
* Ability for the users (both partners and internal operations) login and upload or update relevant information to further enhance or exception management.
* Restricting access based on Roles, countries or customers.

**Functional requirements:**

We need to build an integration hub that can perform following

1. Able to connect with various partners to receive information
2. Able to use various communication protocols (basic SFTP to API etc)
3. Can receive information in different formats (from basic excel to Json, YML etc)
4. Host received information on integration hub (normalize)
5. Apply further business logic to enrich data
6. Connect with internal systems and publish enriched information
7. Internal systems have their own standards for information interchange, and we need to follow the internal systems standard to interact
8. User interface for visibility, tracking and exception management
9. Reusable and flexible loosely coupled components to easily onboard new customers with minimal configuration.

**Non-functional requirements:**

* Integration hub able to handle more than 100 transactions per second and automatically scale up based on volume.
* As a business-critical component, this platform should be highly available with 24X7.
* Able to identify both business and technical errors and make proactive alerts to relevant parties with actionable tasks to minimize the business disruption.

**Based on above requirement, present following**

1. Process flow
2. Solution architecture clearly showing the suitable Azure services used
3. Integration/reusable architecture