

**TCS MICROSOFT BUSINESS UNIT**

# **Compliant Data Interoperability for Healthcare using Azure Health Data Services (Azure FHIR)**

# Solution Highlights

## Background

The large amount of exponentially growing health data being generated in the healthcare ecosystem, leads to highly disconnected and randomness in the data. Missing data standardization makes interoperability complicated. Interfacing different applications and environments, without interoperability, becomes difficult. With the finalization of ONC's Cures Act Final Rule in March 2020, regularizing of interoperability by providers and payers is being observed.

Azure FHIR built on open standards of FHIR, DICOM, helps bridge the gap by standardizing diverse data from clinical, imaging, device, and unstructured data using FHIR, DICOM, and MedTech services.

## TCS Solution Overview

If you are a healthcare organization and planning to leverage FHIR from Microsoft, then this offering (targeted for both Provider and Payer), is for you.

1. Understand Customer Ecosystem
2. Build Use case, prioritize/shortlist these use cases
3. Identify the fit for purpose FHIR configurations available from Microsoft:
  - Azure Health Data Services (PaaS Platform) consisting of FHIR Service, DICOM Service, MedTech Service, Unstructured data (Clinical notes or Health documents)
  - Azure API for FHIR
  - FHIR Server for Azure
4. Proof of Value Development (1 Use Case):
  - Translation of HL7v2, CDA, JSON, or CSV formats to FHIR R4
  - Process Visualization (based on Power Platform)
5. Evangelization and Manifestation of outcome of Proof of Value highlighting the benefits of FHIR to your organization

## Use Cases

Provider:

- Clinical Data Exchange
- Provider Data Exchange

Payer:

- Payer Coverage Data Exchange
- New Payer Enrollment

Provider & Payer:

- Patient Access API
- Data Exchange for Quality Measures

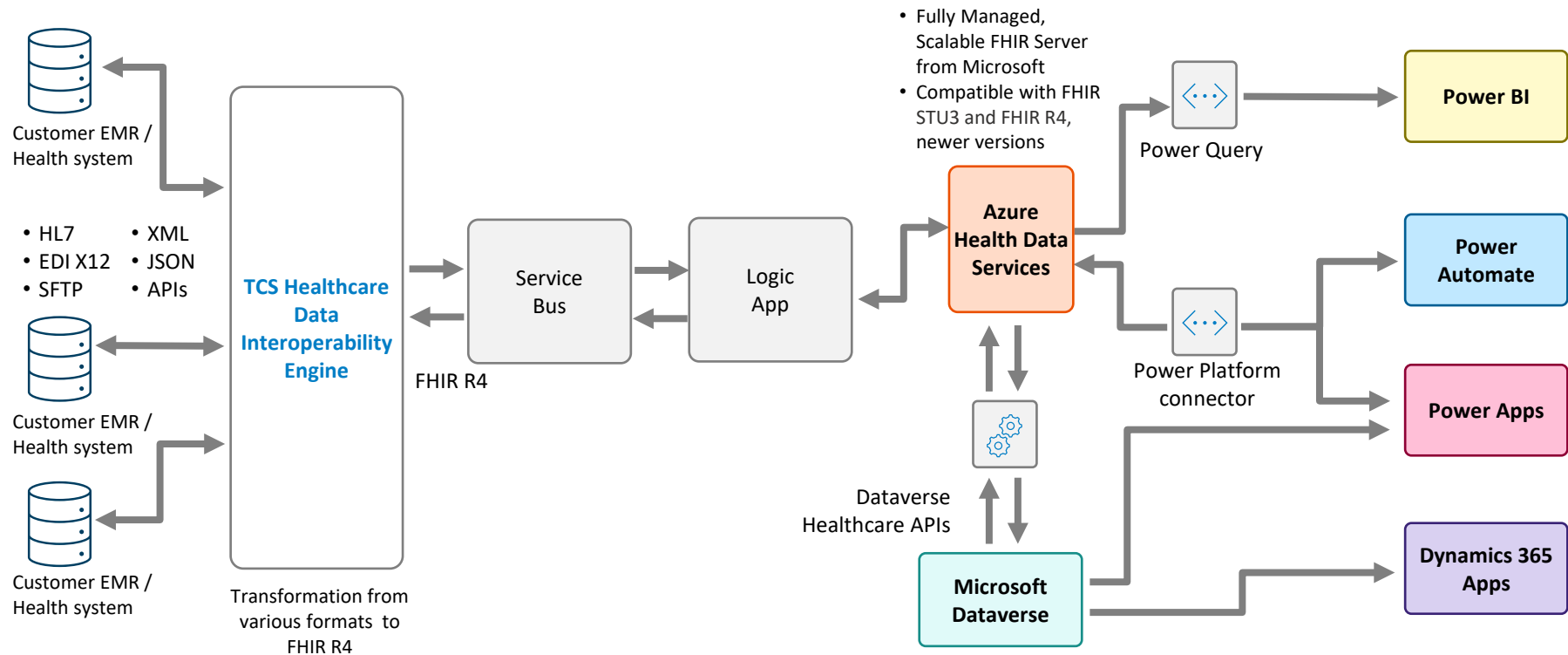
# Proposed Indicative Plan



# Value Proposition

- A reusable framework for easy onboarding onto Healthcare ecosystem
- TCS Reference architectures and templates to quickly setup an environment from scratch
- TCS prebuilt sample transformation logic for HL7, EDI X12, JSON, CSV
- Visibility to actionable insights on stored FHIR data or consumption channels
- Guidance on healthcare data interoperability with respect to FHIR R4 Compliance

# Reference Architecture



**Thank You.**