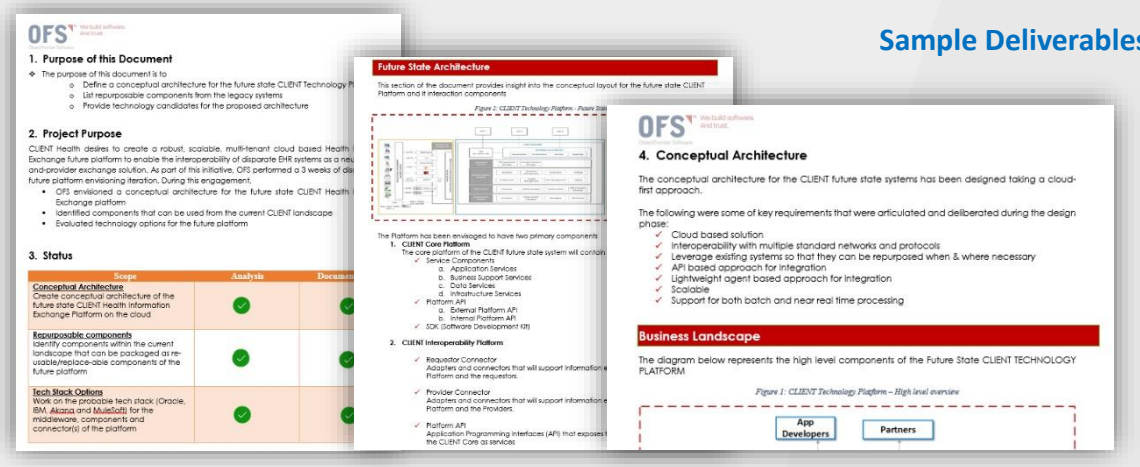
Discovery Engagement for Designing Architecture for Cloud-Based HIE Platform

The client is one of the US market's largest ROI service providers with access to more than 75,000 healthcare providers. The client also has the broadest network and capabilities in release of information (ROI), record retrieval and health information management. Its suite of products has tailored features for information exchange, record retrieval, coding, ROI, analytics and decision support. In its effort to transform into a healthcare technology platform provider, the need to migrate and rebuild the existing systems as an SOA platform on the cloud was realized. OFS was involved to understand the legacy systems, propose the future-state, cloud-first architecture, identify repurposable components and advise technology candidates for implementation.

Business Benefits:

- Allowed client to transform from a healthcare service provider to a technology platform provider, which opens new business opportunities
- Cloud-based solution provides improved processing, dynamic scalability and increased performance to customers while reducing cost
- API-based approach and SDK provides the ability to monetize services provided by the technology platform
- Ability to provide better analytics and reports for insights leading to better revenue generation

Sample Deliverables



Key Highlights

- Future-State Architecture Design Phase
  - Identified and componentized the interoperability and core platform systems
  - Designed microservices-based architecture
  - Abstraction of business support services, operational services and infrastructural services that enables the legacy and cloud platform to coexist
  - Designed API-based solution with microservices, which enabled batch and nearly real-time processing on structured and big data stores
  - Compared and proposed possible technology candidates for the cloud platform, messaging, storage, microservices, orchestration, security, analytics and connector components

Technologies Considered

- **Cloud:** Google Cloud, AWS Cloud, Microsoft Azure
- **Middleware**: AWS SQS, MuleSoft, Kafka, Jboss Fuse
- **Microservices**: LightBend Lagom, Spring Boot
- **API Management**: Apigee, Akana, Mulesoft
- **Identify Management**: AWS IAM, Google Cloud IAM, ForgeRock, Stormpath