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# One APIMarketplace for <u>Healthcare</u>

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Achieving Compliance With CMS/ONC Interoperability Rules with Google Cloud and DigitalAPICraft's Healthcare Solutions.

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digitalapicraft

#### Achieving Compliance With CMS/ONC Interoperability Rules with Google Cloud and **DigitalAPICraft's Healthcare Solutions**

- The biggest challenge healthcare organizations are facing is data interoperability and  $\succ$ orchestration.
- It is time to effectively and securely share and leverage healthcare data.  $\succ$
- Move on from interoperability standards. Offer experience healthcare and delight your customers with Disruption Suite for Healthcare.
- 💿 HHS Published the final Healthcare Interoperability, Information Blocking and Patient Access Rules Payers, Providers and Certified Health IT developers must support
- Interoperability by exchanging health plan and clinical data

FHIR® R4 compliant APIs to access Patient data

# CMS and ONC Final Rules

#### **CMS Interoperability and Patient Access Final Rule**

- Patients access to their health information
- **CMS Regulated Payers:** 
  - Medicare Advantage (MA), 0
  - Medicaid and CHIP Managed and FFS
  - Qualified Health Plan (QHP) issuers on the Federally-facilitated Exchanges (FFEs).



Implements interoperability provisions of 21st Century Cures Act (2016)

Health Information Technolog

Published in the Federal Register on 5/1/2020 and

effective on June 30, 2020

The final rule from ONC on Interoperability

and Information Blocking has been

published in the Federal Register on

5/1/2020 and is effective on June 30, 2020

tary certification of health IT for us

The Office of the National Coordinator for

(R) Rule

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Mandates technical standards for healthcare data interoperability



Published in the Federal Register on 5/1/2020 and effective June 30, 2020 and timelines starting Jan 1, 2021 with enforcement discretion till July 1, 2021

The final rule from CMS on Interoperability and Patient Data Access has been published in the Federal Register on 5/1/2020 and is effective on June 30, 2020

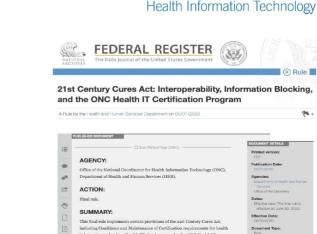


ACTION

SUMMARY

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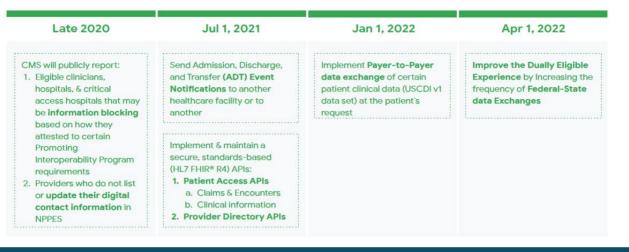




# CMS and ONC Rules

CMS, in partnership with ONC has identified Health Level 7® (HL7) Fast Healthcare Interoperability Resources (FHIR®)Release-4.6.0 as the foundational standard to support data exchange via secure Application Programming Interfaces (APIs).

#### CMS Rules – Timelines and Key Requirements

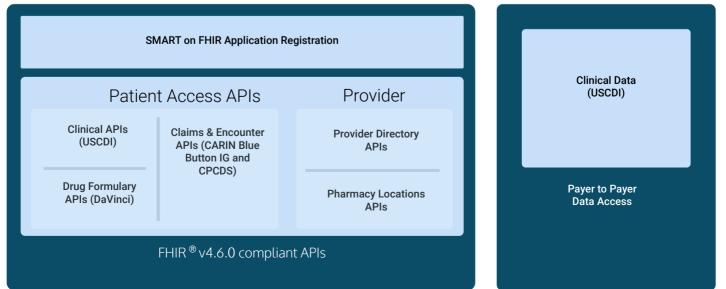


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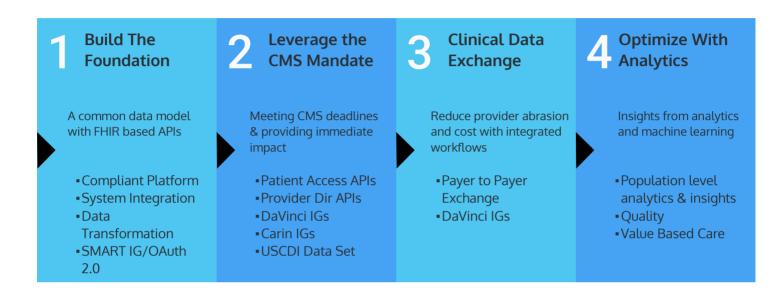
#### ONC Rules – Timelines and Key Requirements



#### CMS Final Rule – Technical Requirements

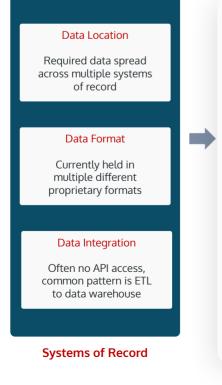


### A Phased Approach to Compliance Framework



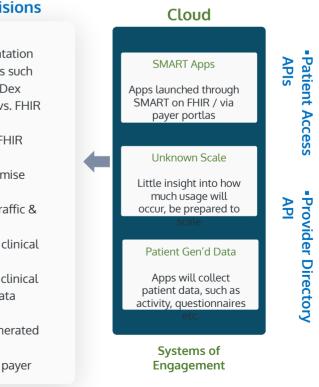
# Key Technology Decisions

#### **On Premise**



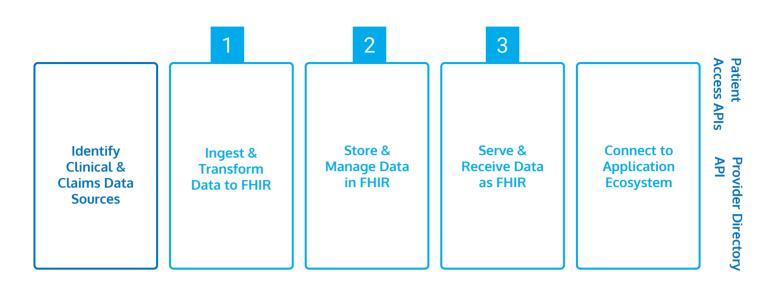
#### Key Technology Decisions

- Design your own implementation vs. adoption for industry IGs such as CARIN BB and DaVinci PDex
- Secondary FHIR datastore vs. FHIR Facade over existing APIs
- Buy, Build or Open Source FHIR Server
- Cloud vs. Hybrid vs. On Premise
- Expected level of App/Interoperability data traffic & latency
- How to integrate & expose clinical data
- How to receive & integrate clinical data (in FHIR) from payer data exchange
- How to manage patient generated data
- What (if any) integration to payer portals

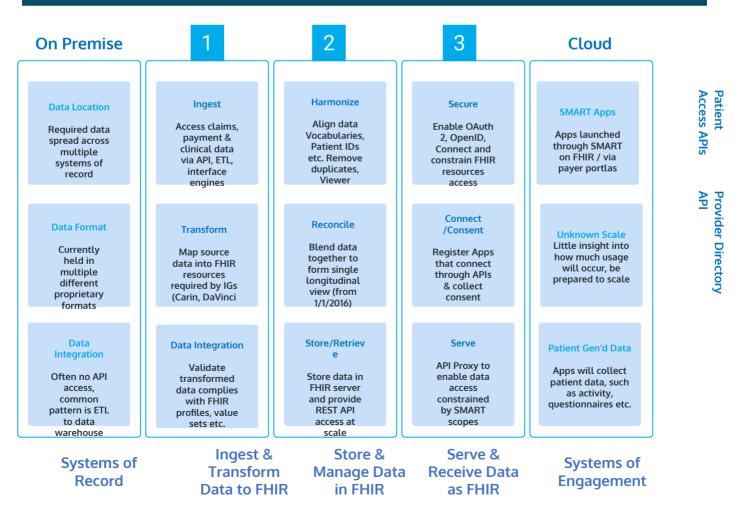


# **Compliance Framework**

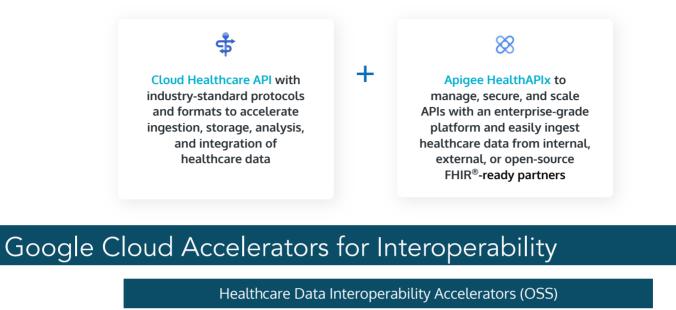
### CMS Rules Compliance Framework



### Key Technology Decisions



#### **Google Cloud Accelerators**





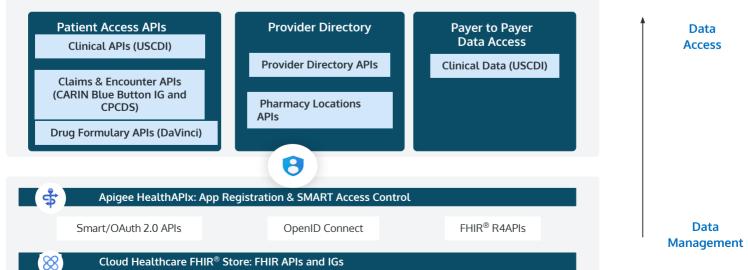
- R4, STU3 and DSTU2
- Backend store support for key healthcare standards: FHIR<sup>®</sup> R4, DICOM and HL7 v2

 Security, traffic management and analytics for API consumers

 Built-in capability to auto provision FHIR<sup>®</sup> stores in GCP with SMART on FHIR support

#### Interoperability APIs





# One **API**Marketplace

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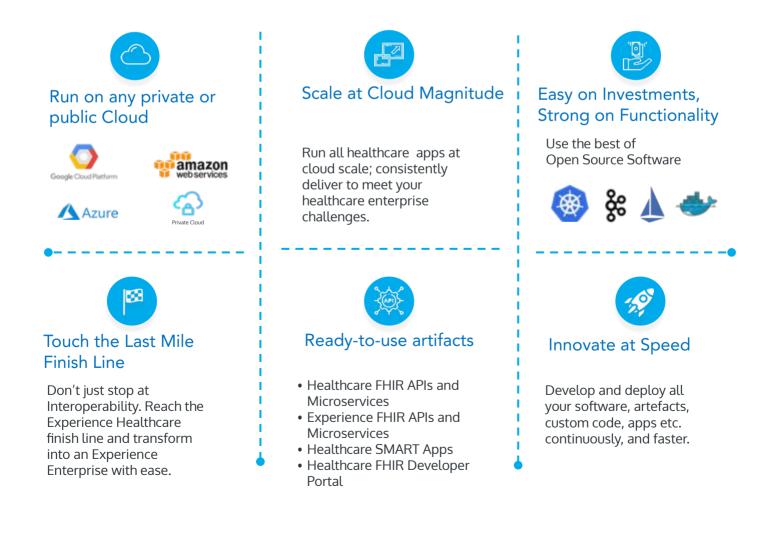
- The biggest challenge healthcare organizations are facing is data interoperability and orchestration.
- > It is time to effectively and securely share and leverage healthcare data.
- In partnership with Google Cloud's Apigee, DigitalAPICraft's Solution to meet CMS and ONC Compliance and Interoperability.

Enabling healthcare institutions go-to-market with a digital marketplace and enriched functional application without disrupting your existing digital applications

Ready to go digital healthcare enablement supporting governance, compliance and regulations while plugging into your existing healthcare infrastructure

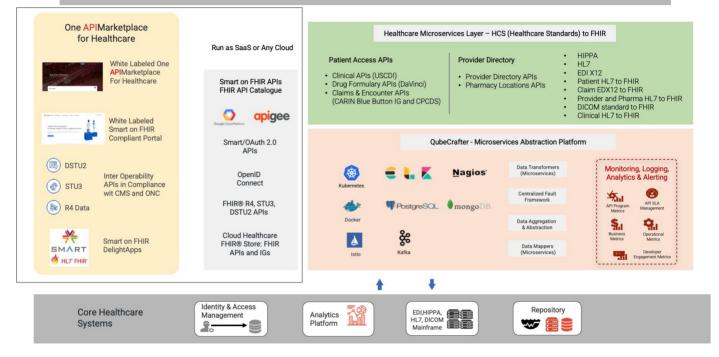
Leverage a suite of FHIR/HL7 APIs and Smart compliant APIs and enabling API ecosystems with ready
 made standards assets and governance tool sets for faster go to market IT deliverables

### **One APIMarketplace** for Healthcare – Value Adds

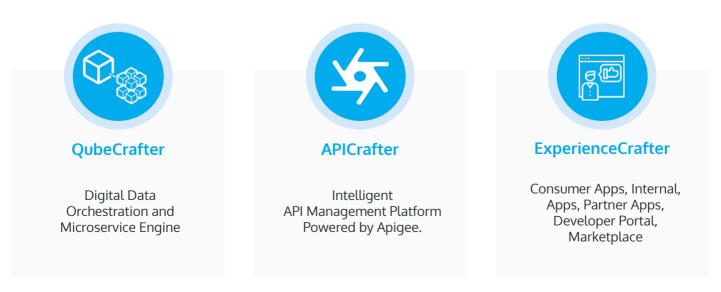


# One APIMarketplace for Healthcare Tech Stack

# One **API**Marketplace Tech Stack for Healthcare



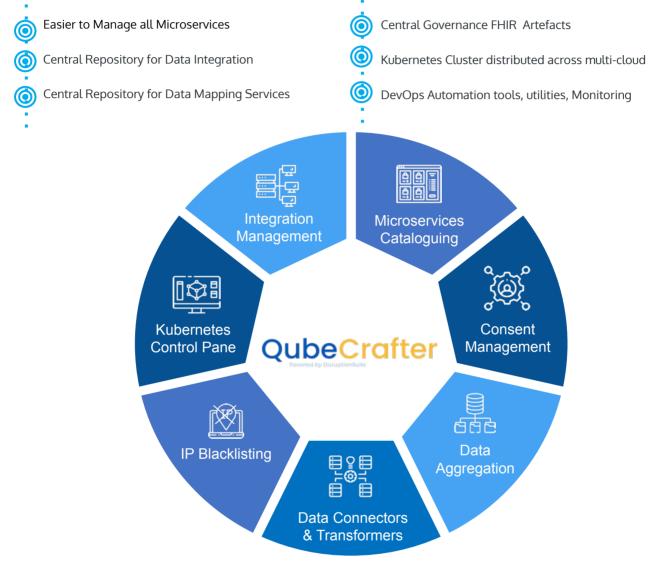
### Three distinct solution platforms





#### **QubeCrafter**

A solution platform that delivers enterprise digital transformation faster and easier by leveraging:



#### Integration Management

Integration of APIs, services, data, and systems has long been one of the most challenging yet most essential requirements in the context of enterprise software application development. QubeCrafter eases this obstacle by offering simplified way for all your systems to integrate, streamline and be able to scale with ease.



Analytics, Monitoring, Logging & Alerting
Audit Logging
Control Pane



#### **APICrafter**

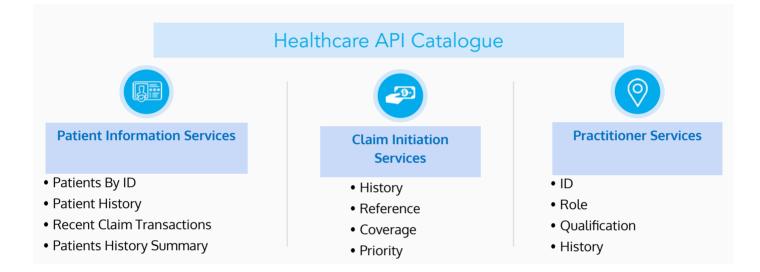
An intelligent API solution platform powered by Apigee and GCP; bundled with our ready-to-use APIs, accelerators, and utilities to kick-start your API journey.

Securely manage your API development right from creation to deployment

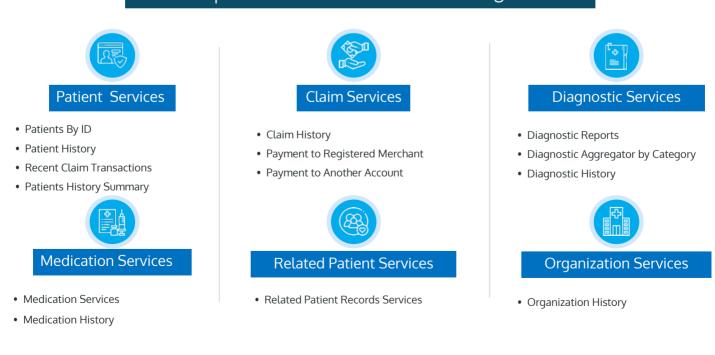
Socialize and monetize APIs to open up revenue streams

Achieve business growth through insights obtained through analytics

Leverage a suite of FHIR/HL7 APIs and Smart compliant APIs



#### Experience Healthcare API Catalogue



### Architecture Differentiation

An intelligent API solution platform powered by Apigee and GCP; bundled with our ready-to-use APIs, accelerators, and utilities to kick-start your API journey.



### Data Consolidation Microservices

An intelligent API solution platform powered by Apigee and GCP; bundled with our ready-to-use APIs, accelerators, and utilities to kick-start your API journey.



# Marketplace for Healthcare

- An intuitive and fast way for Healthcare and 3rd party Healthcare aggregators to setup and deploy a marketplace is here!
- > Create and publish your APIs and apps on a marketplace in weeks.
- DigitalAPICraft's Marketplace for Healthcare caters to all your consumer, administrator and infrastructure needs.

### Key Features



#### Integration with Apigee

In-built integration with the Apigee Edge API platform, allowing the app and API publishers to leverage credential generation, usage metering, analytics and monetization.



#### **API & App Monetization**

Set up packages best suited for your business; offers flexibility to tailor on demand packages, easy and intuitive package pricing.



#### Integration with CRM systems

Easy integration with leading CRM systems; offers great user experience by enhancing lead generation, dispute resolution, process updates and much more.



#### **Team Feature & Governance**

Allows multiple teams within the organization to collaborate on various aspects of the marketplace such as documentation, blogs, forums, and other asset.



#### **Highly Extensible**

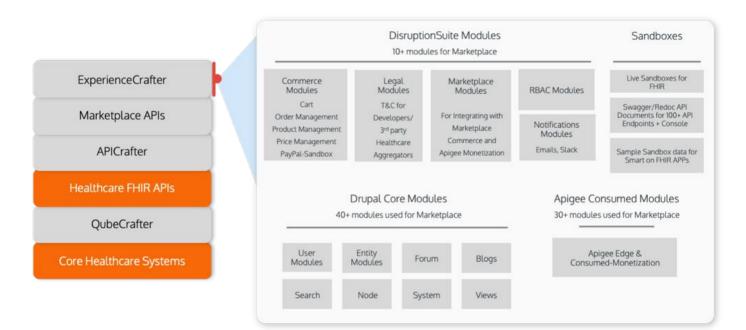
Built on a modular architecture; quickly and easily extend the platform for new features for faster time to market.

- Built-in Integration with Apigee
- Onboarding Workflows
- Developer Subscriptions and App
   Management
- Developer Dashboards and My
   Subscriptions
- Developer Keys Management
- API Documentation + Try Out Console
- API as a Product Catalogue

- Multi-tenancy
- Unauthenticated User Flows
- Apigee Monetization Integration
- App Monetization Integration
- App Monetization & Commercialization
- CRM Features
- Payment Gateway Integration
- Commerce Reporting

- Developer App Code Submission, POC
   Reviews and Workflows
- Support Ticket System
- Administration Dashboard
- Developer Sandbox

### Healthcare API Marketplace



**RBAC** 

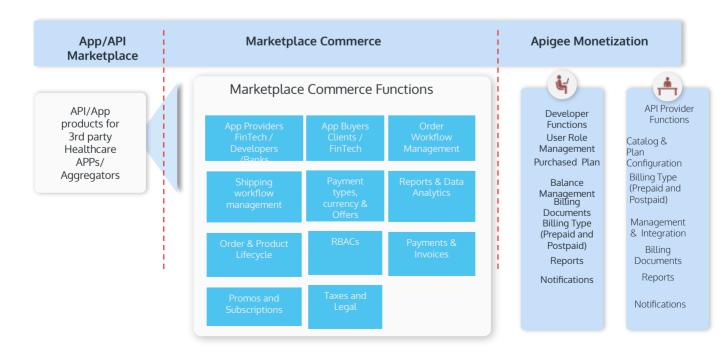
**SEO** 

**SSO** 

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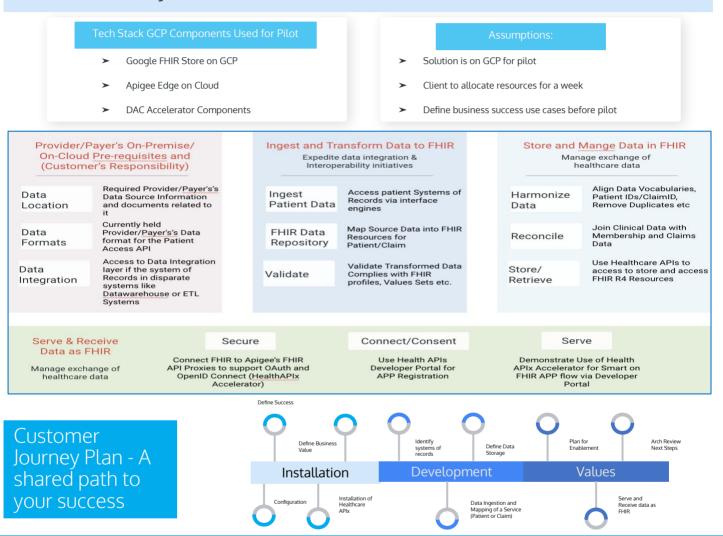
### Monetization & Commerce for App/API Marketplace



#### Provider/Payer's Pilot Agenda – Google FHIR and Healthcare Interoperability on Google HealthAPIx

Summary: Google Cloud and DigitalAPICraft's Discovery and POC on Google's FHIR and HealthAPIx Accelerator in the following high level approach

- Identify Systems of Record at Provider/Payer for Patient Info/Claim
- Ingest and Transform Data to FHIR
- Store and Manage Data to FHIR
- Serve and Manage Data as FHIR



#### About DigitalAPICraft

DigitalAPICraft, through its products and services, helps global brands establish their API Ecosystem and transform into a truly Experience Enterprise. As a leading end-to-end digital transformation partner, our API-led approach enables banking, healthcare, telecom, insurance & retail companies to offer delightful customer experience, transform business processes and boost operational efficiency.

DigitalAPICraft has been awarded "Delivery Partner of the Year for APAC 2017- Google Cloud" and is a premier Google - Apigee partner. Over three consecutive years (2020, 2019 & 2018), DigitalAPICraft is recognized as one of the fastest-growing technology companies by Deloitte in its Technology Fast 50 India and twice (2019 & 2018) in Technology Fast 500 Asia pacific rankings.

Located in USA, UK, and India, and with customers across the globe, DigitalAPICraft brings extensive product and platform experience to help enterprises with digital strategy and consulting, disruption engineering, end-to-end DevOps, experience engineering, and much more.

Visit www.digitalapicraft.com for more information



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