



POET

*Bringing Trust to API Registration
for BlueButton On FHIR*

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Briefing: December 2015



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Disclaimer

The views expressed in this presentation are my own personal views and should not be construed as an official position of:

- US Department of Health and Human Services
or
- Centers for Medicare & Medicaid Services.



2



ROLES



HHS
Entrepreneur
-in-Residence



Big Data & Cloud
Technologist



Medyear CTO &
Co-Founder



HealthCa.mp
Chief Instigator



Health & Social
Data Ninja



Ski Instructor

BlueButton Vision

*“Build a Developer-friendly, Standards-based data API
that enables beneficiaries to connect their data to the
applications, services and research programs they trust”*



APIs are spreading like wildfire

BUT... Who does a publisher trust to consume them?

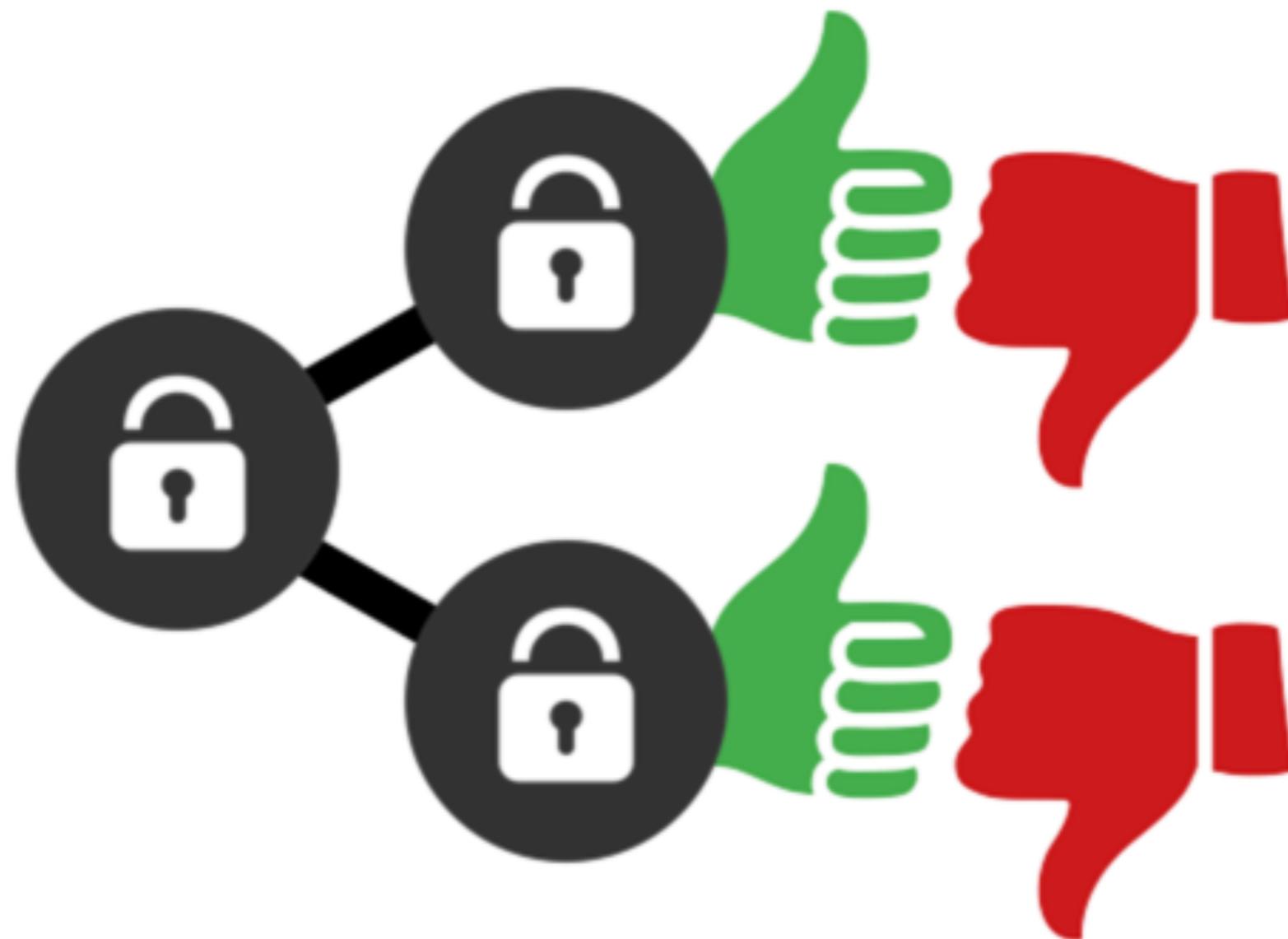




OAuth is proven at scale

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But OAuth still doesn't answer: "Who do you trust?"



<http://www.hhs.gov/idealab/2015/11/19/trusting-health-apis/>

Do we want another Bureaucracy to determine Trust?



Healthcare already has established Networks of Trust



POET

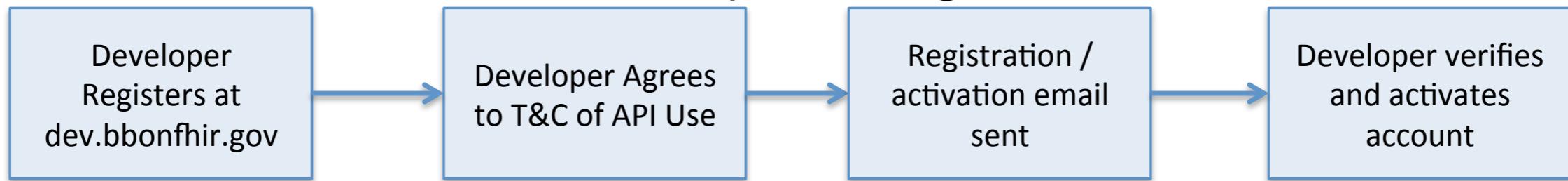
Pre Oauth Entity Trust api

A Secure open source Trust Validation API that leverages Direct Trust Bundle administration functions to provide a basis for trusting 3rd Party Applications requesting access to Health Data APIs, such as FHIR

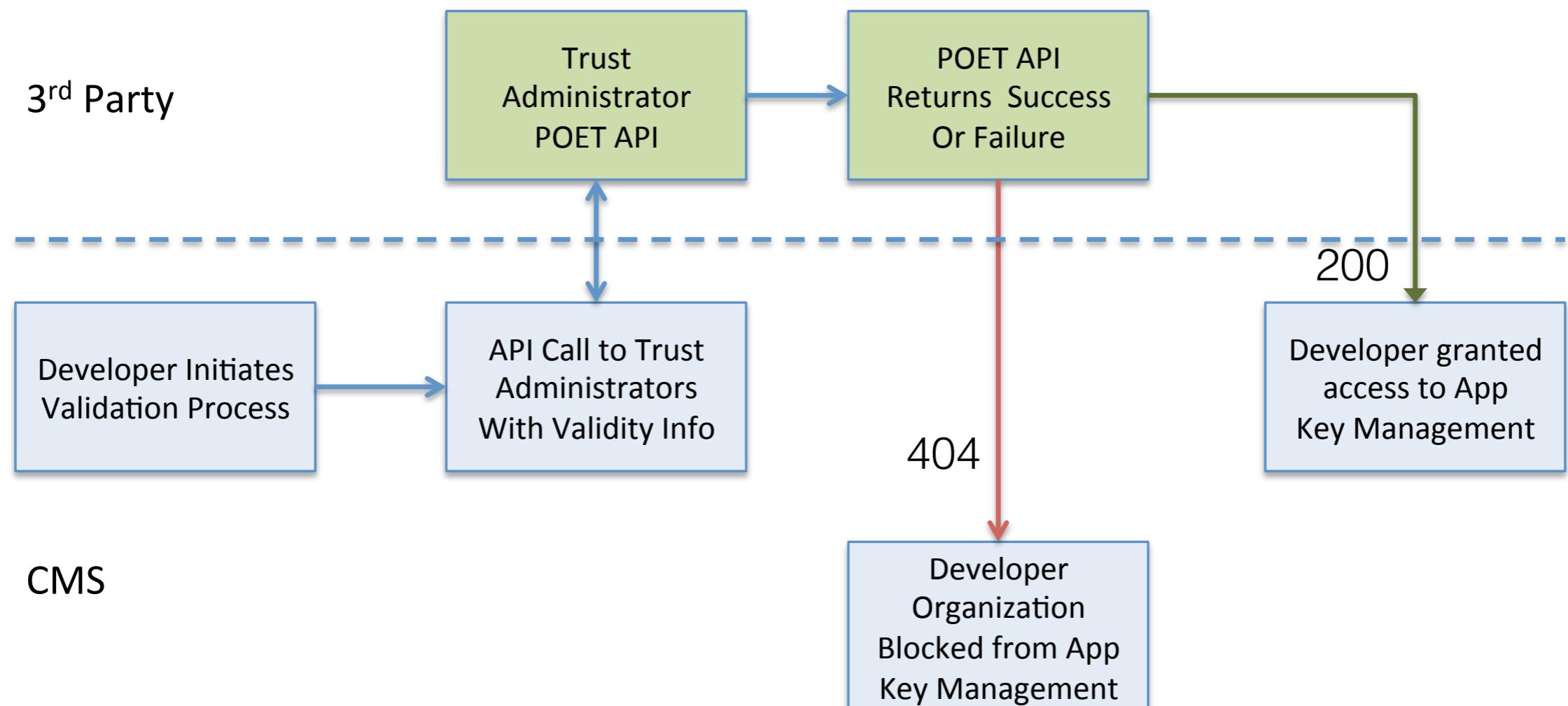
<https://github.com/ekivemark/poet>

POET Validation Flow

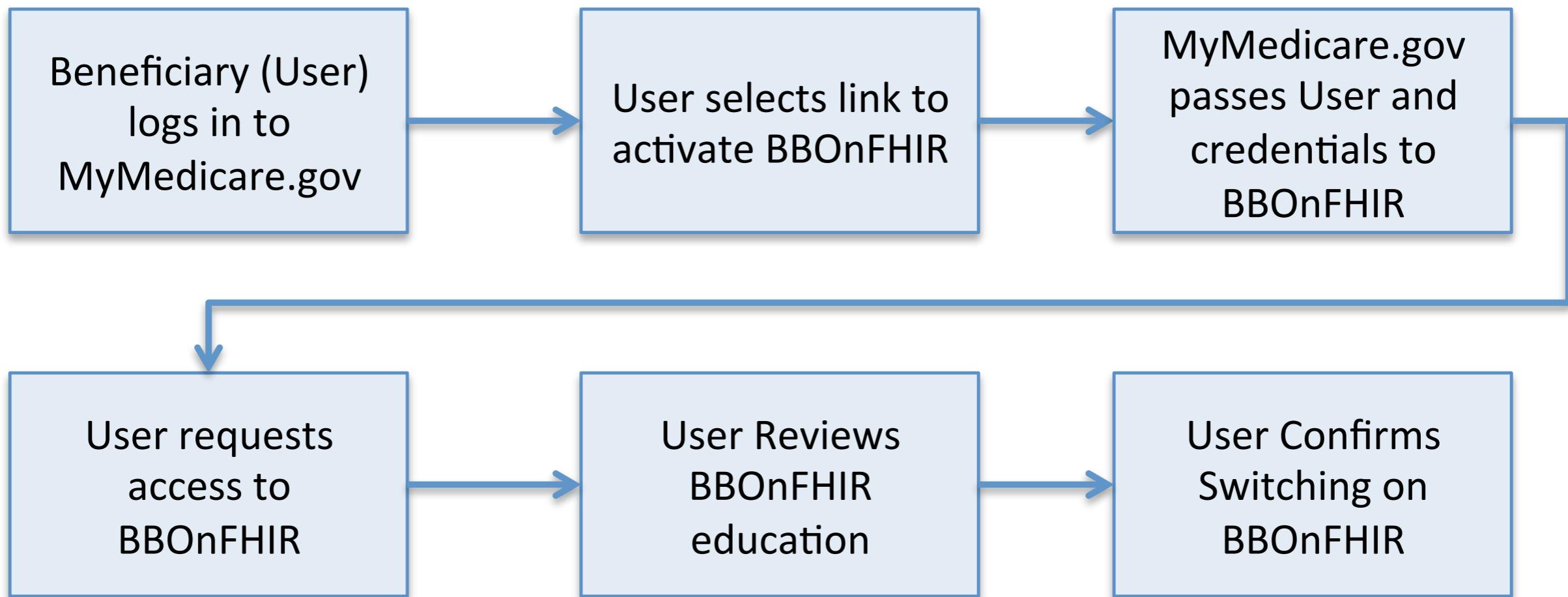
CMS BlueButton Developer Registration



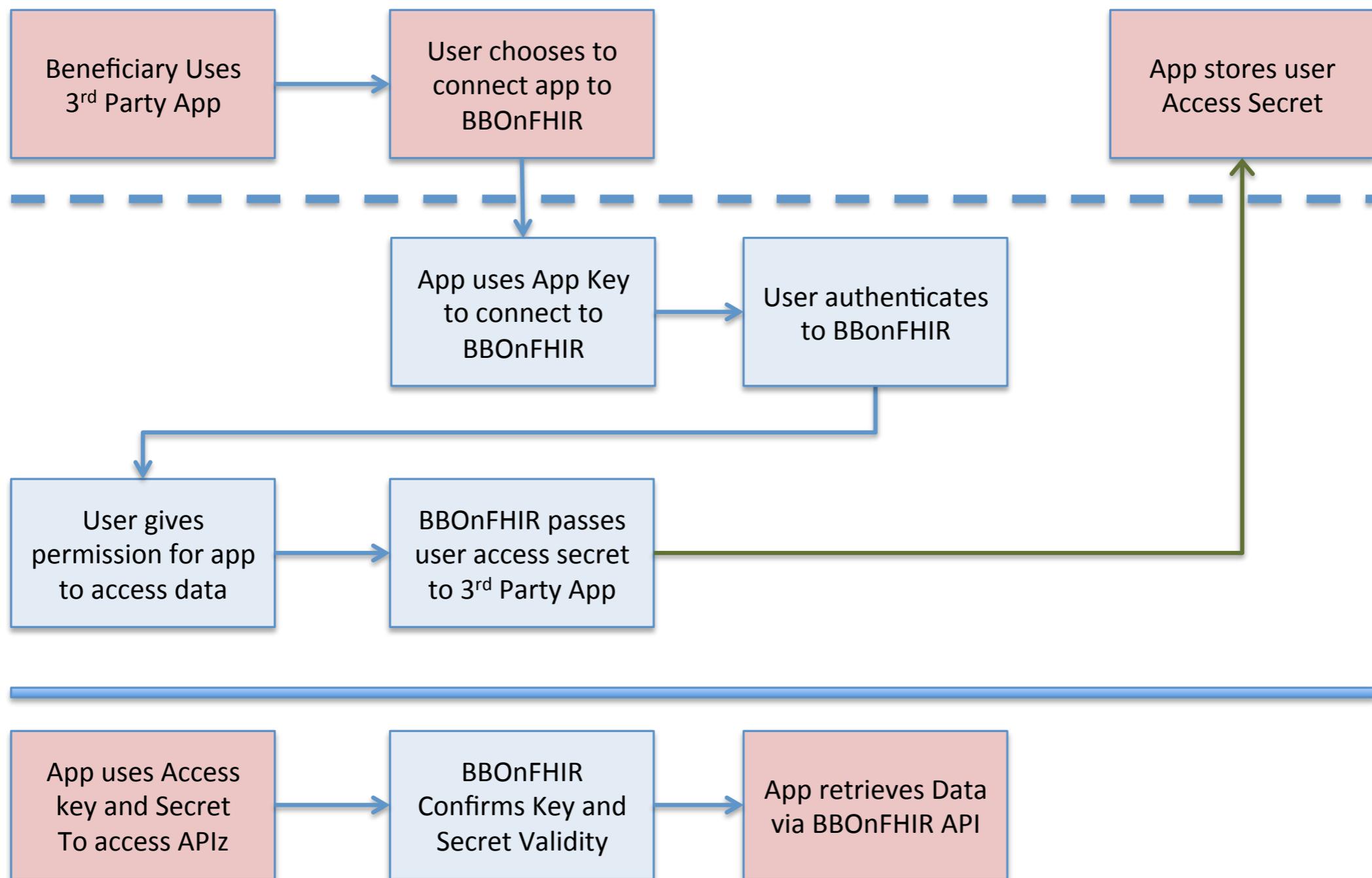
Developer Validation Flow (POET)



Medicare Beneficiary BlueButton On FHIR API Activation



Medicare Beneficiary gives 3rd Party POET Validated Application permission to access their individual BlueButton claims information



POET Payload

- Trust Bundle Reference
 - enable Trust administrators to support multiple bundles*
- Common Name / Subject Alternative Name
 - DNS / email*
- Administration email address
 - Use as control mechanism to limit developers to the same organization via a common email domain*
- Shared Secret
 - Shared secret or Public key for certificate that shares same parent as Trust bundle entry*

How can you help?

- Provide feedback to the specification
<https://github.com/ekivemark/poet>
- Support Open Source Development of Core API
- Implement Core API for established trust bundles
- Get involved with the BlueButton On FHIR Code-a-Thon (April 1-2, 2016) <http://healthca.mp/onfhir>

Why POET?

Pre OAuth Entity Trust

- Bridges Direct Trust Bundle Administration to the world of APIs
- Leverages the established communities of Trust
- Enables organizations like CMS to outsource trust verification
- Fills a feature gap until Trust solutions are pervasive
- Simple to implement

... And you always need a good Protocol acronym



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