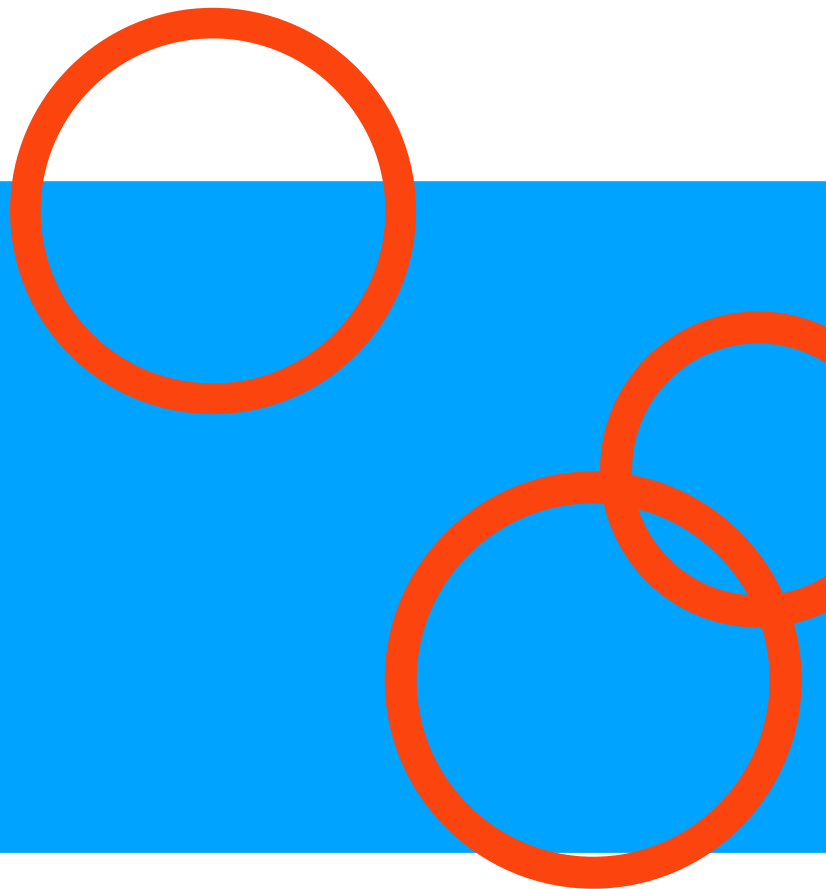




vNext Update

Apr 2022

vNext Team





Agenda

- Reference Architecture Documentation Status Update
- vNext Build Progress Update
- vNext Foundation - details



Fixes and improvements

Ref. Architecture Documentation

Ref. Architecture Doc - Status

Released Initial Version during PI 16

Ongoing Review Process Almost Complete

5 task in review – 3 blocked – 1 in progress - 2 in the backlog

<https://docs.mojaloop.io/reference-architecture-doc/>

mojaloop

This is the official Reference Architecture documentation for the Mojaloop project.

[Introduction →](#)

What it is

In a software system, a Reference Architecture is a set of software design documents, that capture the essence of the product and provide guidance to its technical evolution. The Reference Architecture is the architectural vision of the perfect design.

Objectives

Identify abstractions, interfaces and standardization opportunities; Solutions and patterns to common problems; Enforces technical design principles; Provides guidance to the implementation architectures; Foster's innovation and contribution, by defining what can be done and how

Benefits

Foundation for a Technical Roadmap; Guidance to decision-making regarding technology choices and implementation strategies; Alignment between technical vision and product vision



Progress Update

vNext Build

vNext – What is the Alpha Release

Internal release for developers

Stable interfaces

Happy path only

Fully testable

Requires load tests, but no optimisation

vNext - Alpha Release

Design

Build of the foundation & Cross Cutting Concerns

**<- We're
finishing this
part!**

Happy Path Features

vNext Build - PI 17 Objective

Deliver alpha version of the
cross-cutting concerns

(objective revised at PI16 convening due to lack of resources)

vNext Build - Status

	Component Type	Repo name	Repo sub-dir / module
Done	Client - Shared Lib	platform-configuration-bc	config-client-lib
Done	Client - Shared Lib	platform-configuration-bc	secret-client-lib
Done	Service	platform-configuration-bc	config-svc
WIP	Service	platform-configuration-bc	secret-svc
Done	Client - Shared Lib	auditing-bc	auditing-client-lib
Done	Service	auditing-bc	auditing-svc
Done	Client - Shared Lib	logging-bc	logging-client-lib
Done	Service	logging-bc	logging-svc
Done	Client - Shared Lib	security-bc	authn-client-lib
Done	Service	security-bc	authn-svc
WIP	Client - Shared Lib	security-bc	authz-client-lib
WIP	Service	security-bc	authz-svc
	Service	security-bc	kms-svc
WIP	Service	scheduling-bc	scheduling-svc
WIP	Service	scheduling-bc	scheduling-client-lib
	Service	reporting-bc	reporting-svc
	Client - Shared Lib	platform-monitoring-bc	metrics-client-lib
Done	Client - Shared Lib	platform-shared-lib	nodejs-kafka-client-lib
Done	Client - Shared Lib	platform-shared-lib	messaging-types-lib
Done	Service Template	nodejs-template-bc	n/a

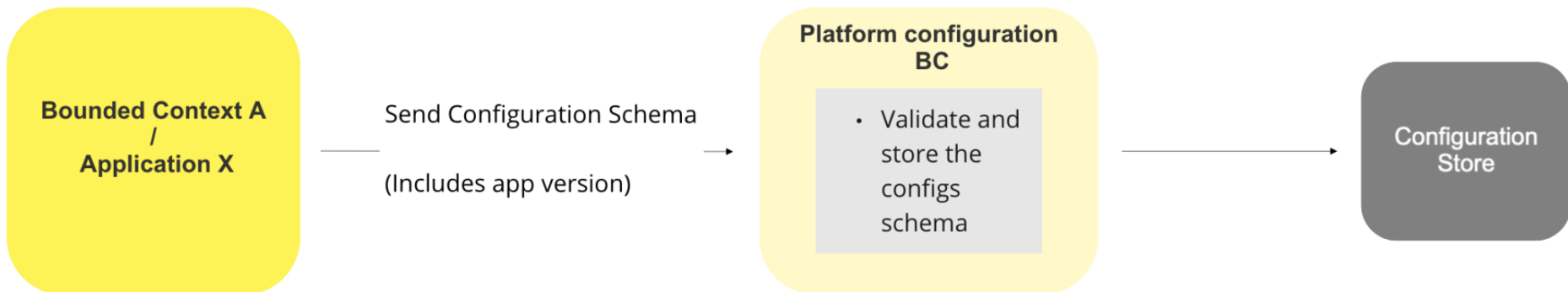


How does it work?

vNext Foundation

vNext Platform Configuration

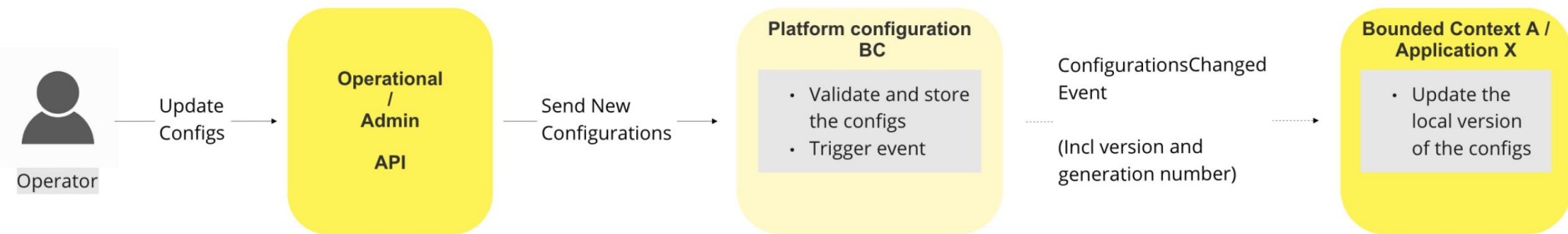
Bootstrap



- Configs can be:
- Parameters
 - Feature Flags
 - Secrets

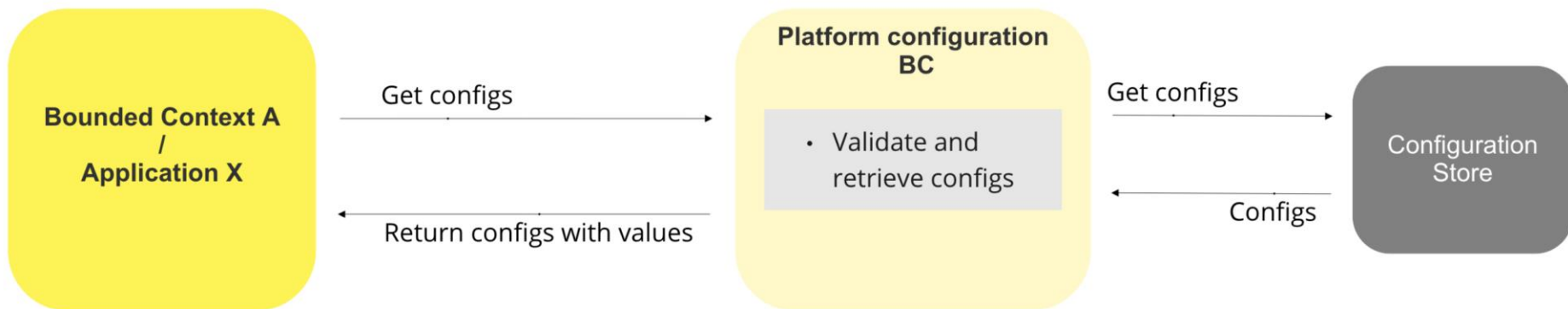
vNext Platform Configuration

Operator Changes



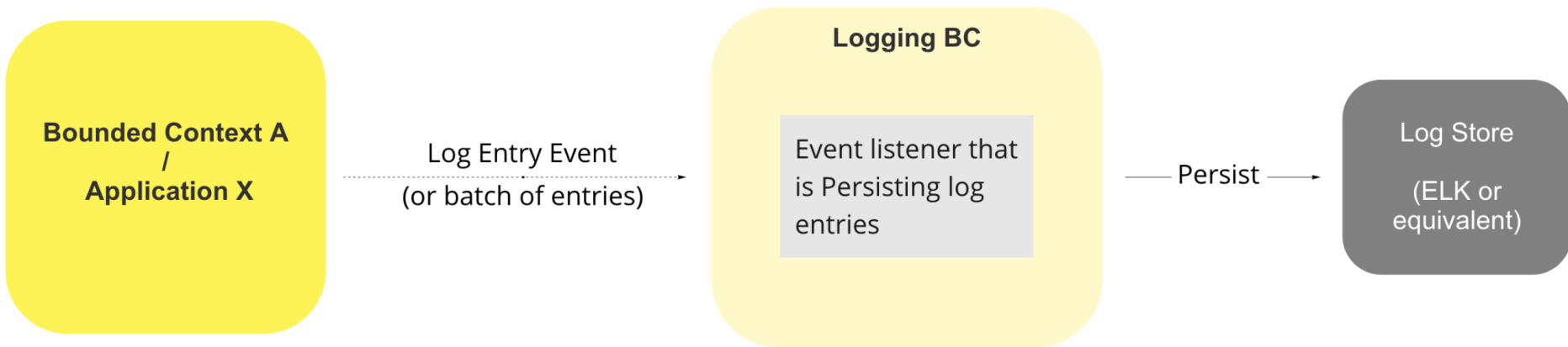
vNext Platform Configuration

Application Start



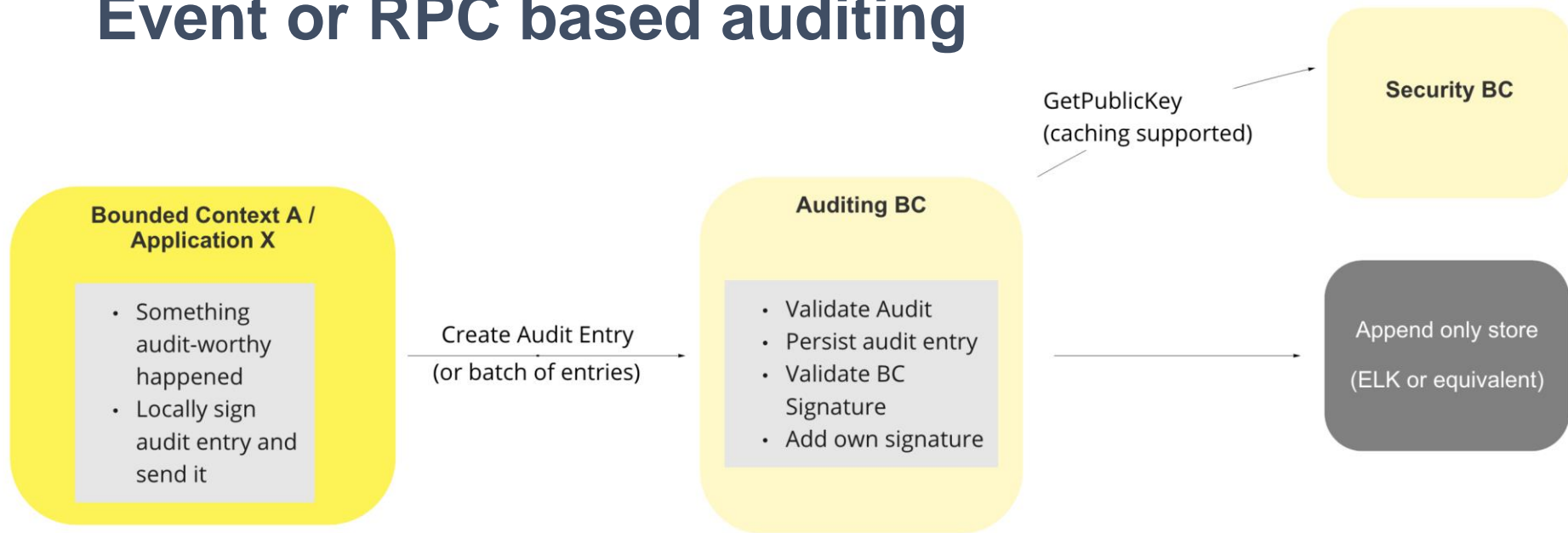
vNext Logging

Event or RPC based logging



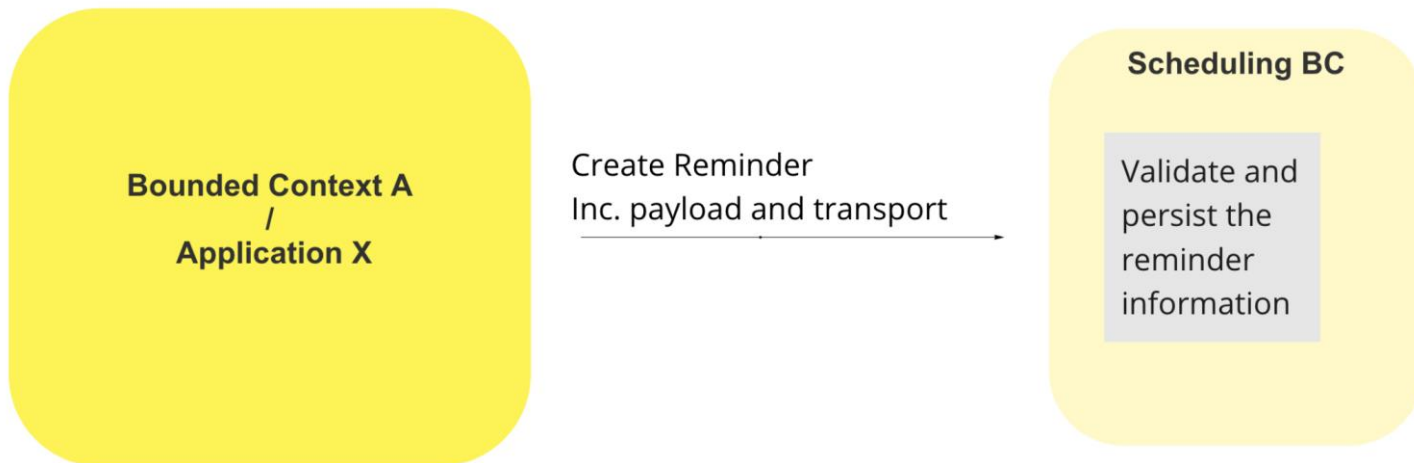
vNext Auditing

Event or RPC based auditing



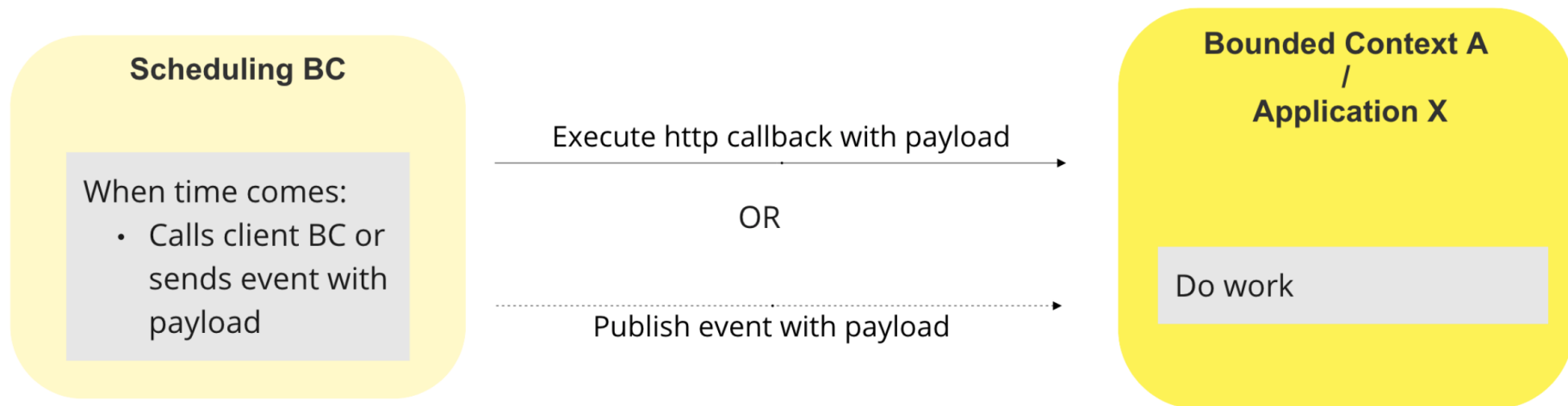
vNext Scheduling

Create reminder

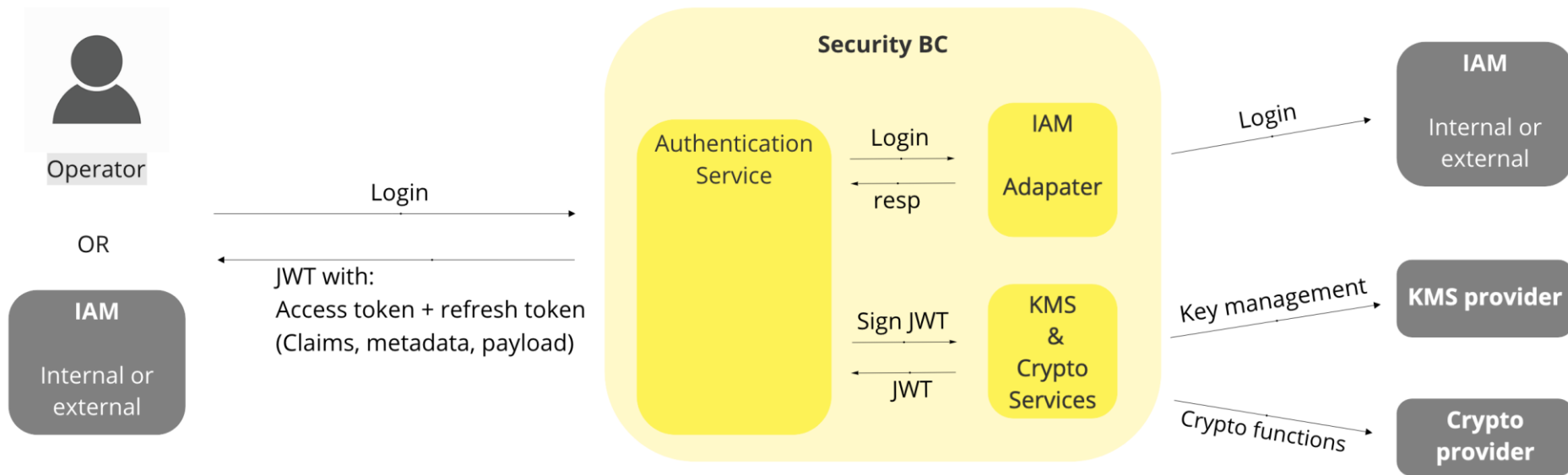


vNext Scheduling

Trigger reminder



vNext Security - Authentication



We really need help!!

We **STILL** need developers
willing to work on this effort

Questions?

Reading / References?

PI-13 Jan 21 - Mojaloop Performance, Scalability and Architecture Update: [here](#)

Official Ref Arch Doc Page: [here](#)

Ref Arch Working Doc: [here](#)

Ref Arch Miro Board: [here](#)

Next version build plan working doc: [here](#)

PI-14 Apr 2021 - Opening and Mojaloop Reference Architecture and TigerBeetle: [here](#)

PI-15 July 2021 - Reference Architecture v1.0: [here](#), [videos](#)

PI-16 Oct 2021 - Reference Architecture and V2 update: [here](#), [videos](#)