

## Eiffel-Collector

The CI Systems best friend for collecting Eiffel Event and trigger CI activities

Tobias Åkervik Ericsson

#### Overview



- What is Eiffel-Collector?
- Eiffel-Collector idea/project presented last Eiffel-Summit 2023
- What happened after Eiffel-Summit 2023
- Some short diffs between Eiffel-Intelligence (EI) and Eiffel-Collector (EC)
- How does Eiffel-Collector work?
- Demo
- Q&A

#### What is Eiffel-Collector?



- Eiffel Collector (EC) system is a collection of microservices that consumes Eiffel events and supports subscribing to specific data in Eiffel event(s).
- When an Eiffel event is consumed by EC and is matched against one or more subscriptions based on event conditions, a notification is made to the configured receiver in the subscription.
- The receiver is often a CI System that can trigger an activity, e.g a pipeline or a dependency update (a use-case explained by Emil Bäckmark in an earlier presentation)

## Eiffel-Collector project

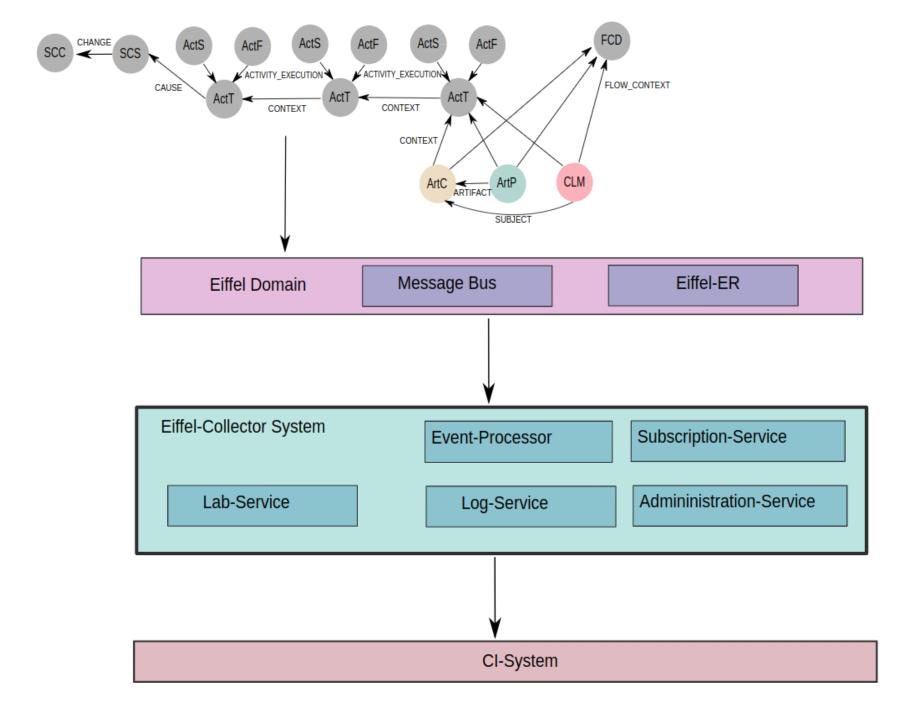


- Simple to create subscriptions and event conditions
  - No JMEPaths expressions (Eiffel-Intelligence "EI" solution) -> More commonly known JsonPaths and regular expressions in event conditions.
- No fixed rules (EI solution) of which events that are collected -> define which events to collect in each subscription, a more dynamic solution for different Eiffel event flows.
- Make the Event processing more transparent for the user -> Easy way to check why a Notification never was executed.

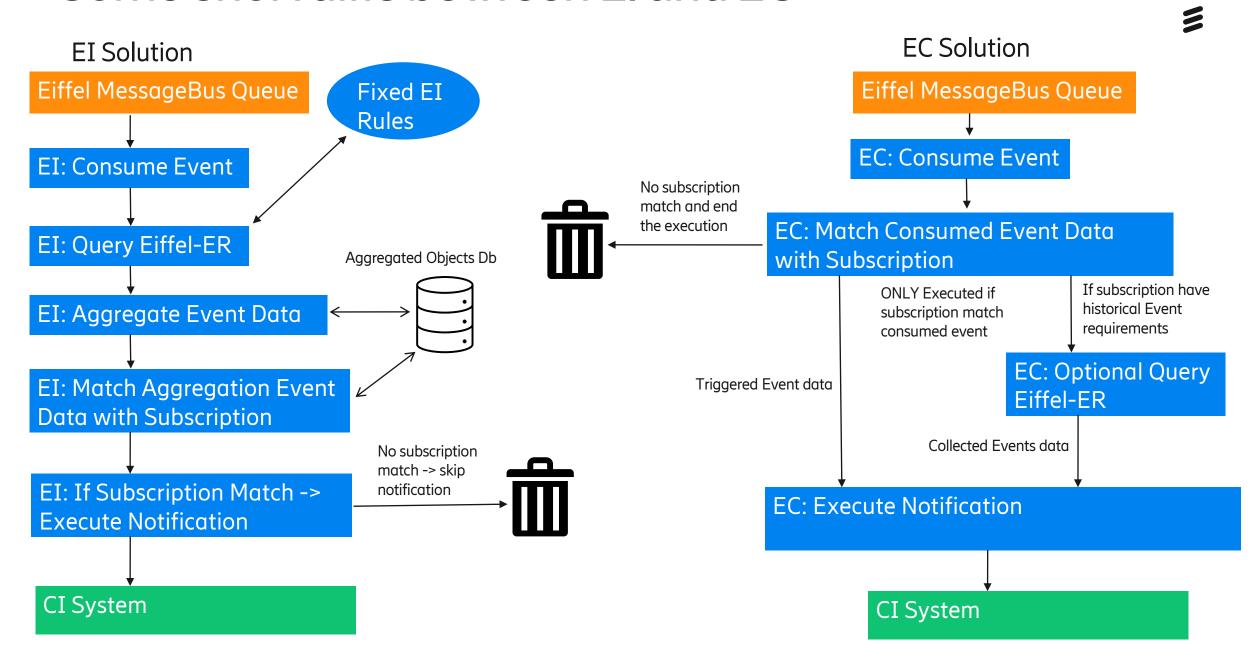
## What happened after Eiffel-Summit 2023

3

- Development continue internal at Ericsson.
- Eiffel-Collector PoC state around August/September 2023. (Deployment in Docker and Kubernetes)
- September -> November 2023: Presentation in different architecture boards.
- Continue development and productization of Eiffel-Collector work started January/February 2024.
- September 2024 released and deployed in some of development unit CI systems in Ericsson.



#### Some short diffs between El and EC

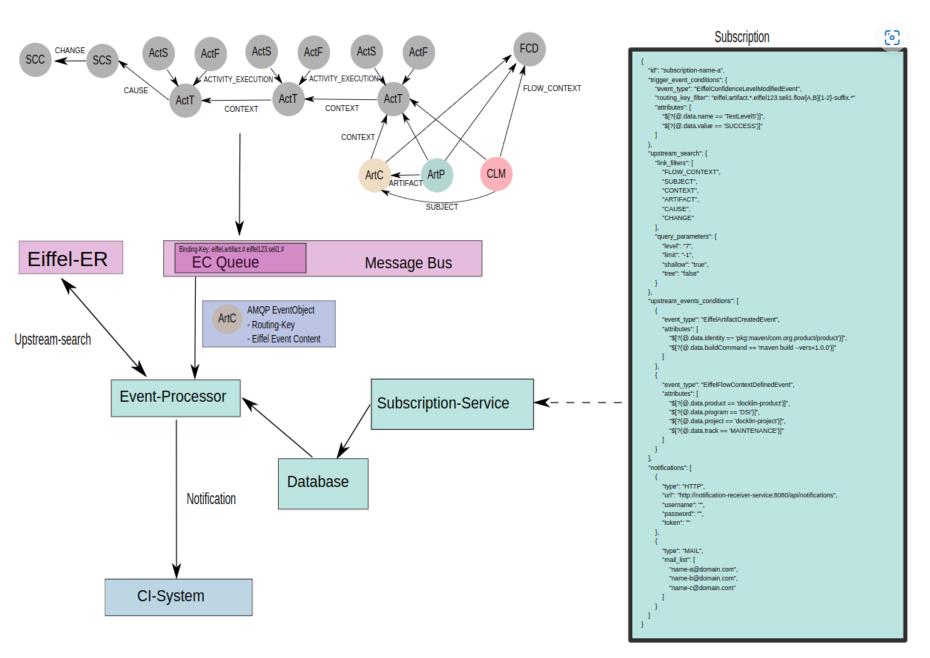


# Cont. Some short diffs between El and EC

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- EI is Open Source <-> EC is Ericsson internal product
- EI Aggregate Event Data to Database and wait for one level of downstream events <-> EC collect event data upstream (only) and execute notification without storing data in Database.
- EI have fixed rules (per instance) for which Eiffel events data to collect and cannot be changed during run-time <-> EC have no fixed rules for which Events to collect. Which events data to collect are defined in each subscription. One EC instance can collect any Eiffel events data.
- EC has a log-service where any user can query the event processing logs <-> EI don't have support for this.

#### How does Eiffel-Collector work?





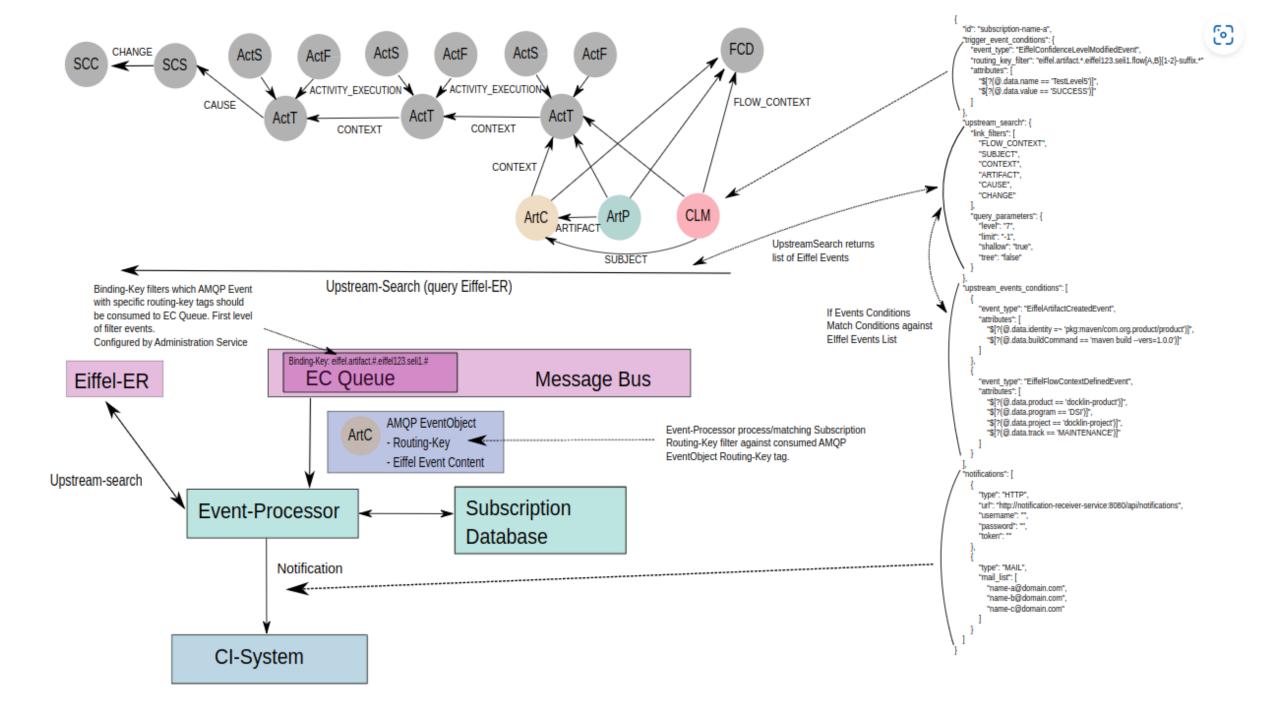
## Input and Output

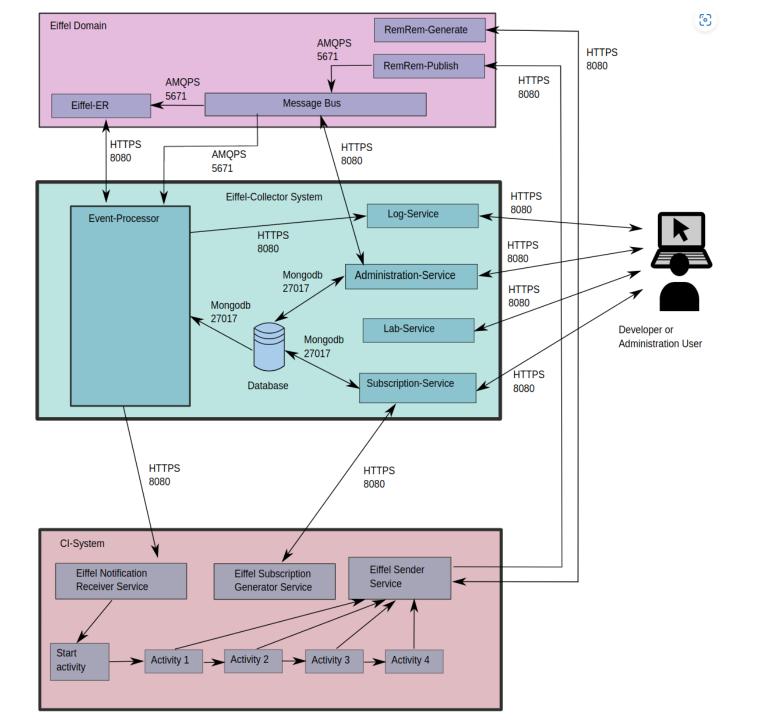


- Subscription Is the input to the EC system
  - o Defines which event type and Event conditions to trigger and start the event processing on.
  - Define binding-key filters
  - Define Event Upstream Search and Upstream Event conditions
  - Define Notifications, supported types: HTTP and Mail.
- Notification
  - Contains trigger/cause Event-id
  - Collected Eiffel-Events



Some System Overview pictures





### Demo

3

Time for Eiffel-Collector Demo

Q&A



