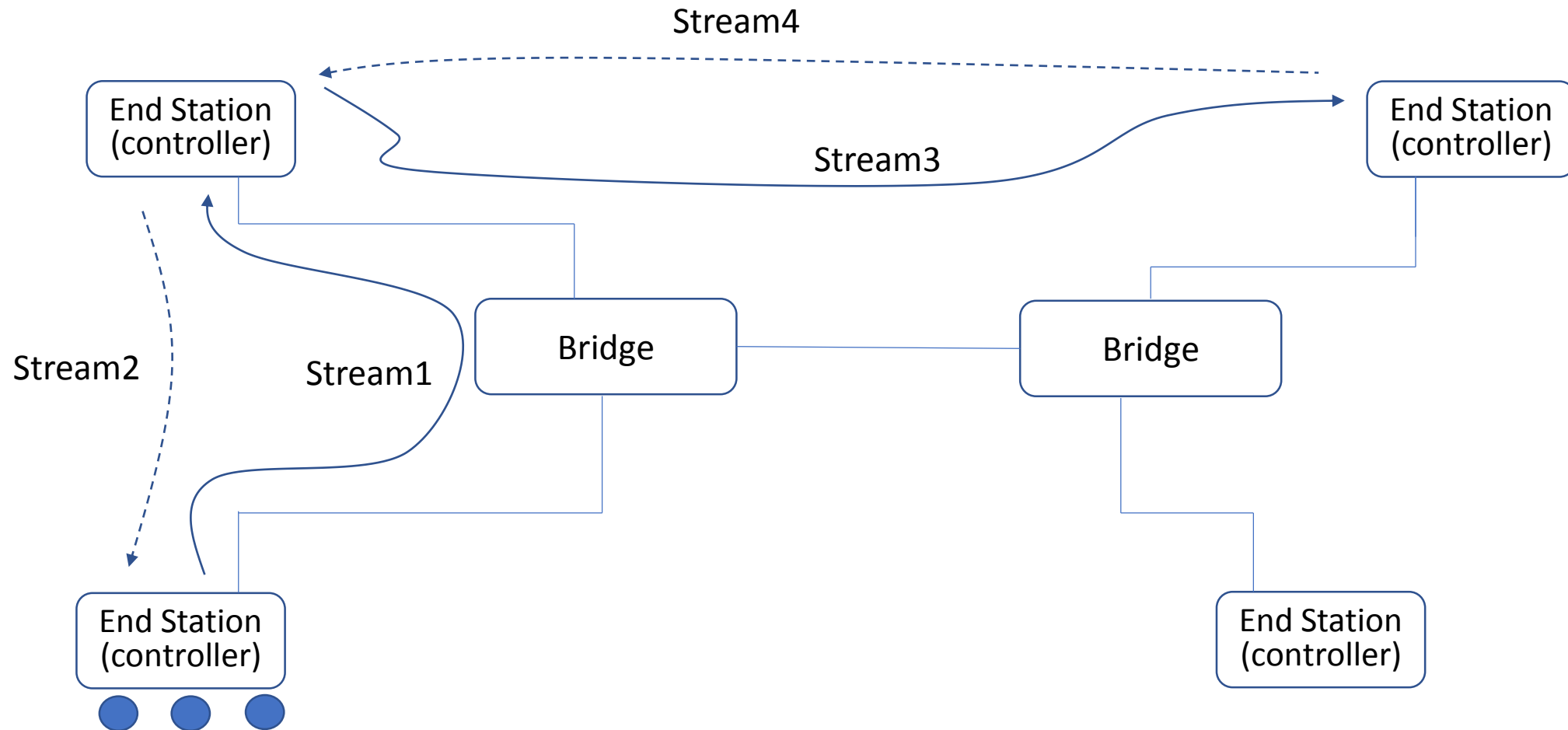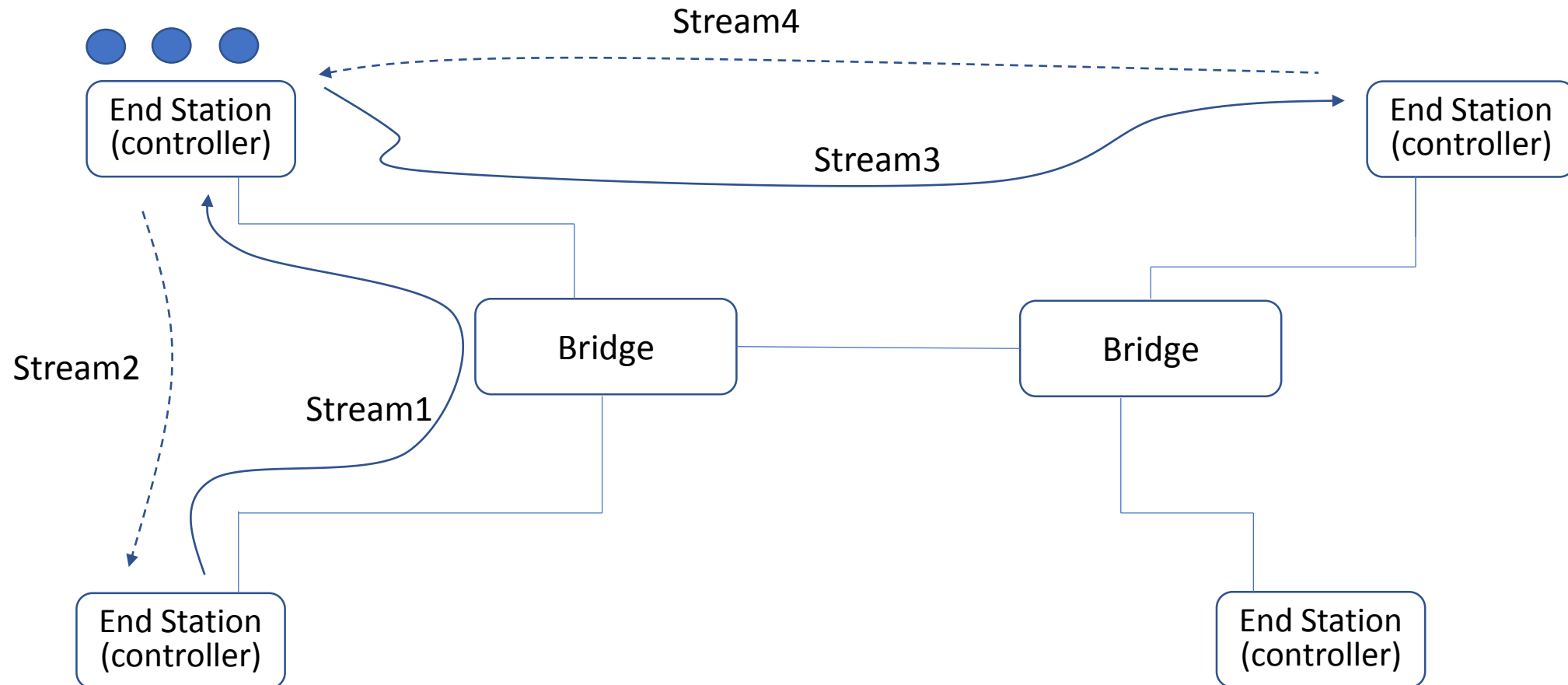# Event-based control

Marius Stanica, ABB

Event based control

- Exception reports (events) are raised whenever a variation appears in one or more process variables value
- Usually the information reported gets about process variable value, timestamp and event type
- It is an implementation-specific concept on how to pack these events in various frames payloads
- Acknowlegdments to the source may be needed on reception
- Examples: process automation power generation controller-controller communication, GOOSE (General Object Oriented Substations Events) in IEC 61850, IEC 61499
- Delivery time constraints may vary following the usage area
  - Controller-controller: several ms
  - Controller-server (HMI): tens of ms
  - GOOSE: 1 ms or less
- Traffic type already included in the contribution from Bangkok: http://www.ieee802.org/1/files/public/docs2018/60802-ademaj-traffic-type-characterization-1118-v01.pdf
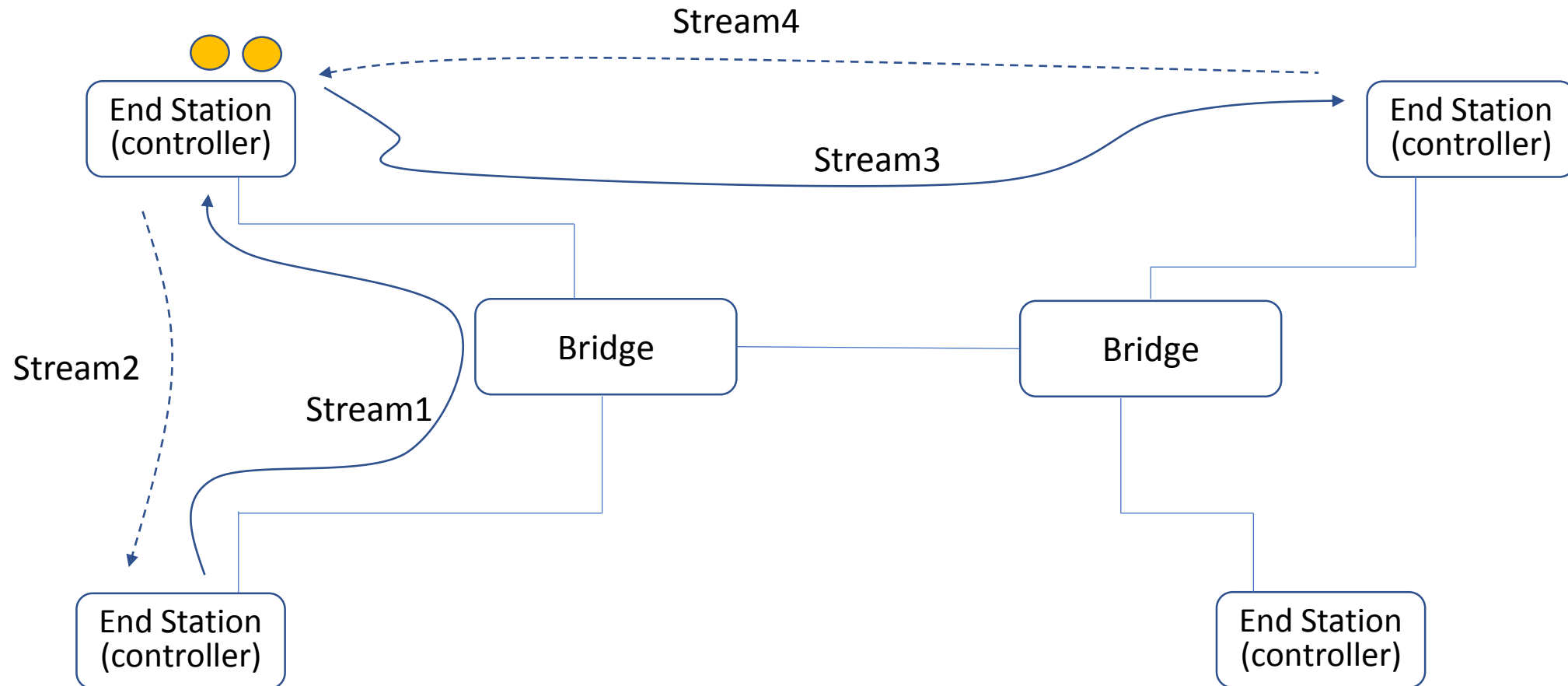- Make sure we support this in the profile

Use Case. Event-based control

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