Message Brokers

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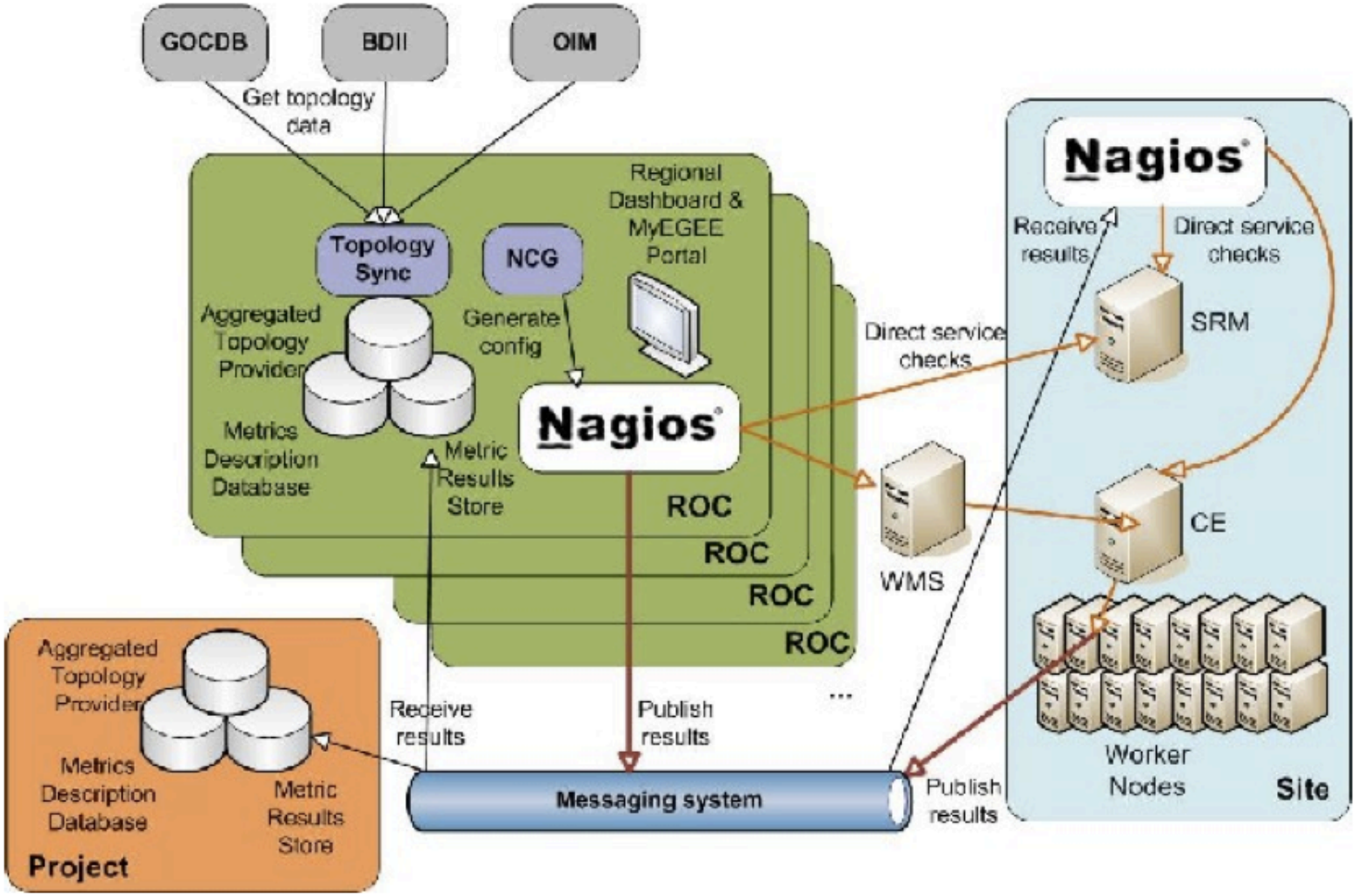
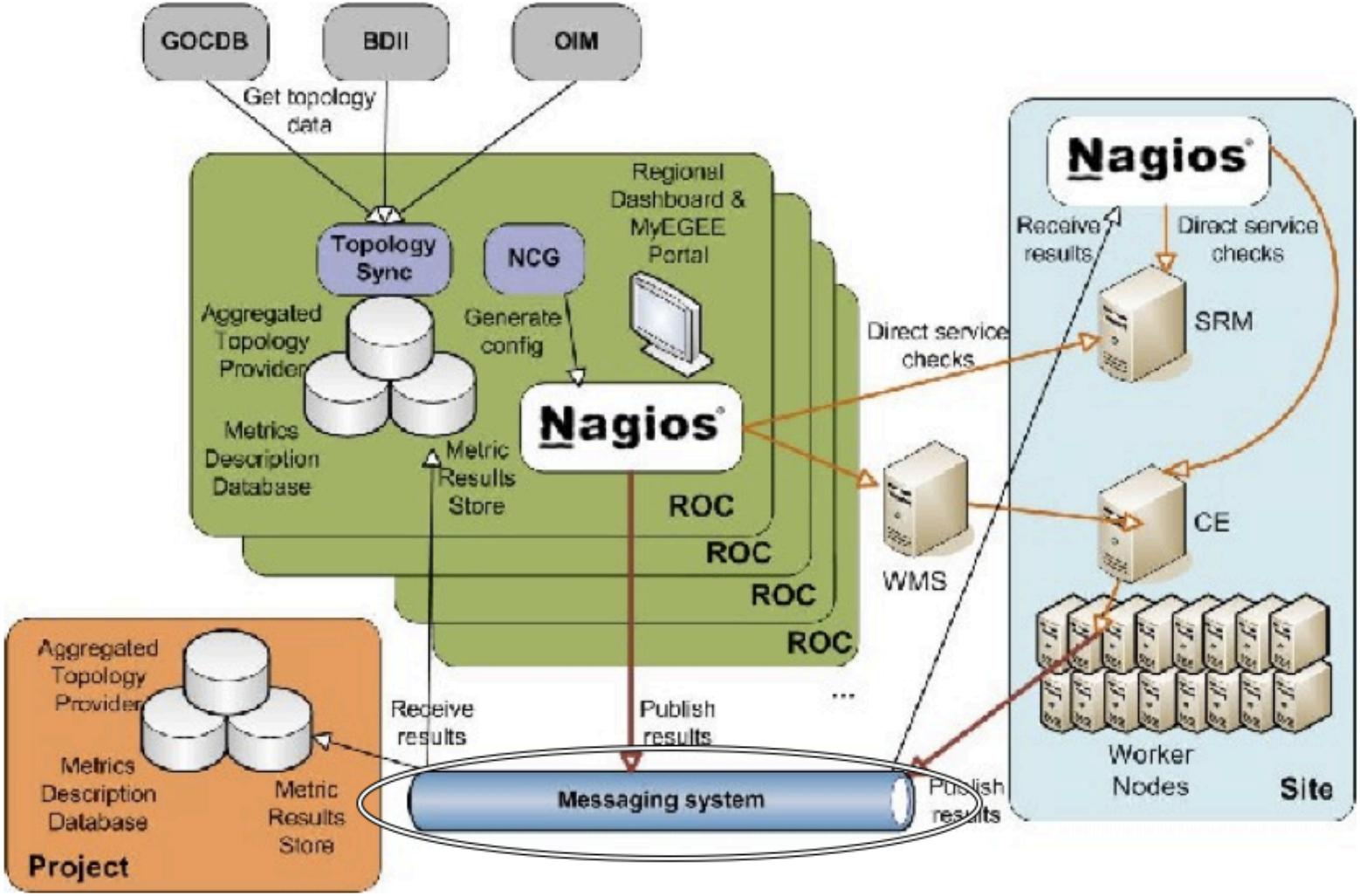
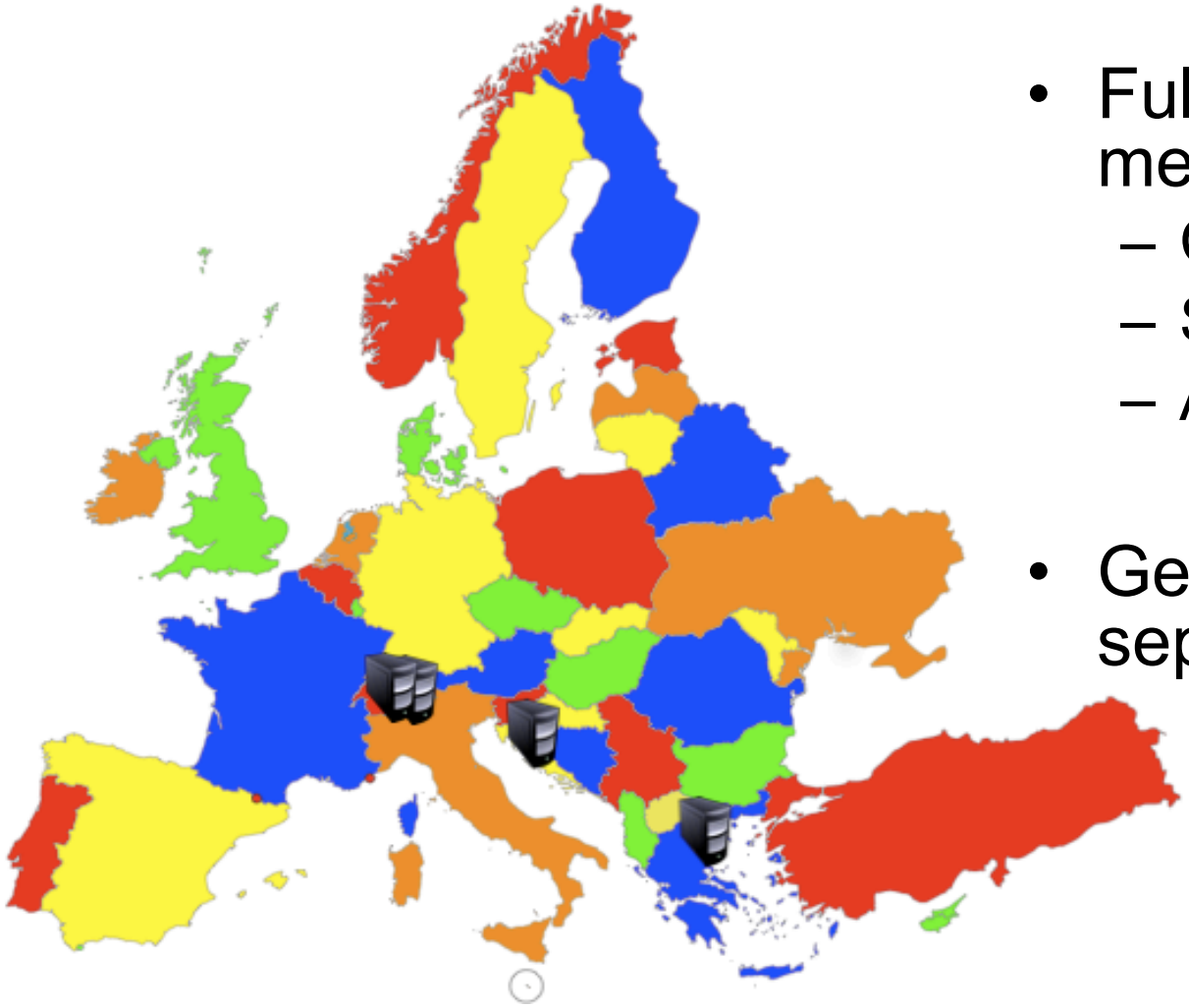
Message broker network?



Message broker network?



The EGI PROD network



- Fully connected mesh of 4 brokers
  - CERN (2 brokers)
  - SRCE
  - AUTH
- Geographically separated

Message Brokers in JRA1

- We are NOT developing the broker software
  - Apachedoes it for us:
    - http://activemq.apache.org
    - **CERN** updated FUSE support contract for 1 more year!
- We are NOT applying any patch to the software
  - EMI does this for us
    - CERN as an interim until EMI release

Message Brokers in JRA1

- We cover the configuration needs of the EGI.eu project
  - Configuration changes
  - Collaboration with EMI for updates / patches
  - Additional plugins as needed to help operations

Queues / Topics?

- Topics
  - One message / many recipients
  - Only connected consumers get the message
  - Affected by network glitches

Queues / Topics?

- Queues
  - One message / one recipient
  - Messages are kept till someone consumes them
  - “Network glitches”-proof

Till now…

- APEL integration
  - Needs authentication/authorization
- First issues
  - GOCDB integration
    - JIRA task: MIG-112
  - Implement the notion of groups of users
    - JIRA task: MIG-118

APEL is not done yet ☹

- APEL still runs its own broker network
- New issue found
  - Authorization plugin breaks the broker network
  - In collaboration with EMI (CERN) in order to solve this

APEL was the beginning

- Issues will be solved soon
- Willing to help more applications
  - Take advantage of the PROD network
  - Migrate their information exchange needs

Questions?

Thank you!