



# **Service Monitoring and Remote Management (Task Force)**

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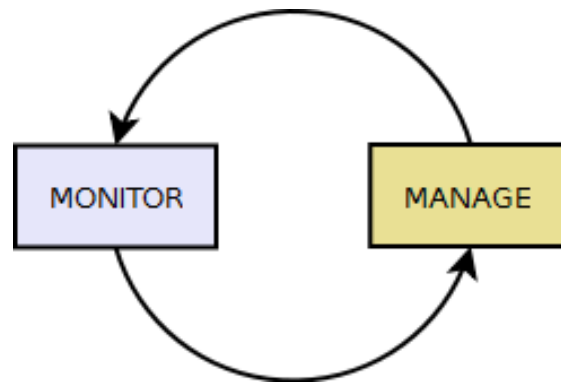
# Outline

- Basic Concept
- Service Monitoring
- Remote Service Management
- Role of Messaging



# Basic Concept

- Use service monitoring data to feed service management decisions
- Check if service management decisions have desired effects



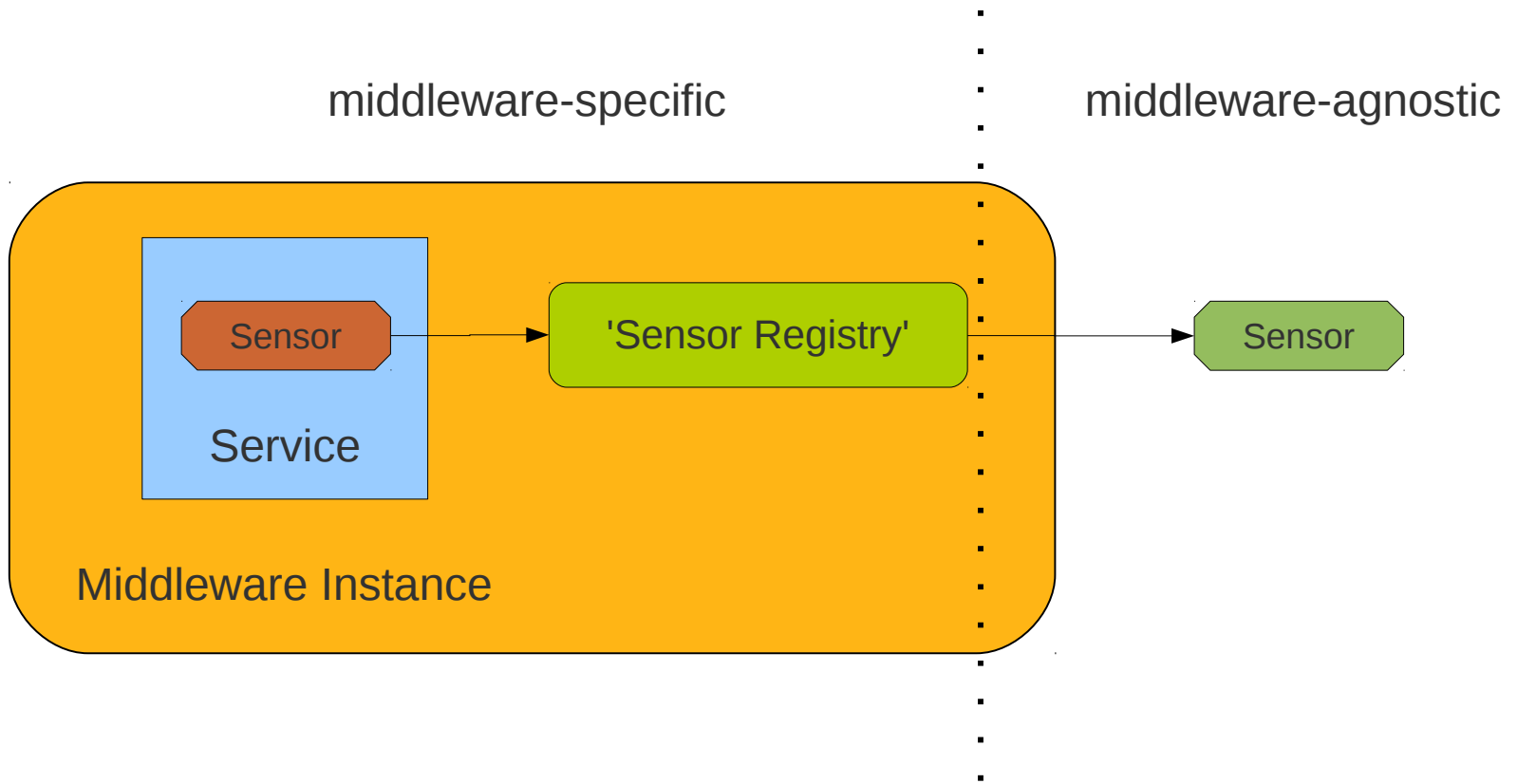
# Service Monitoring I

- HOW TO: enable a service for monitoring
  - Expose data pertinent to certain criteria:
    - General behaviour (logging)
    - Performance (call frequency, current/mean processing times...)
    - Usage (current/mean user count...)
    - ...

# Service Monitoring II

- Sensor
  - actual software artefact exposing data about a service
  - according to one criterion (call frequency, processing time etc.)
- Tackle middleware heterogeneity
  - Middleware-specific layer / concrete sensors
  - Middleware-agnostic layer / abstract sensors
- Harmonisation
  - Abstract sensors available to all 3 middlewares

# Service Monitoring III



# Service Management I

- HOW TO: make a service manageable
  - Add means to issue service management commands to service, e.g.:
    - Enable/disable service
    - Deploy/un-deploy a service
    - Change behaviour (e.g. employ a rule engine)
    - (Modify access control?)

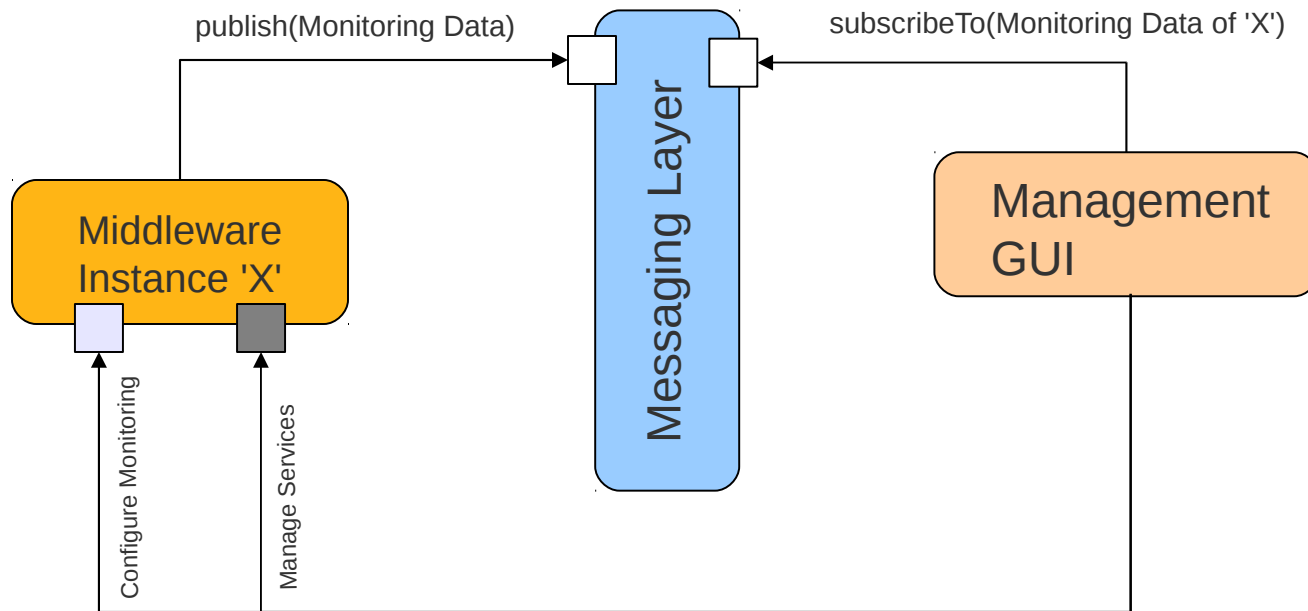


- Graphical User Interface
  - Browser-based
  - Used for monitoring and managing
  - Lists all monitorable and manageable EMI middleware instances
  - Retrieves monitoring data
  - Allows for executing *management commands*



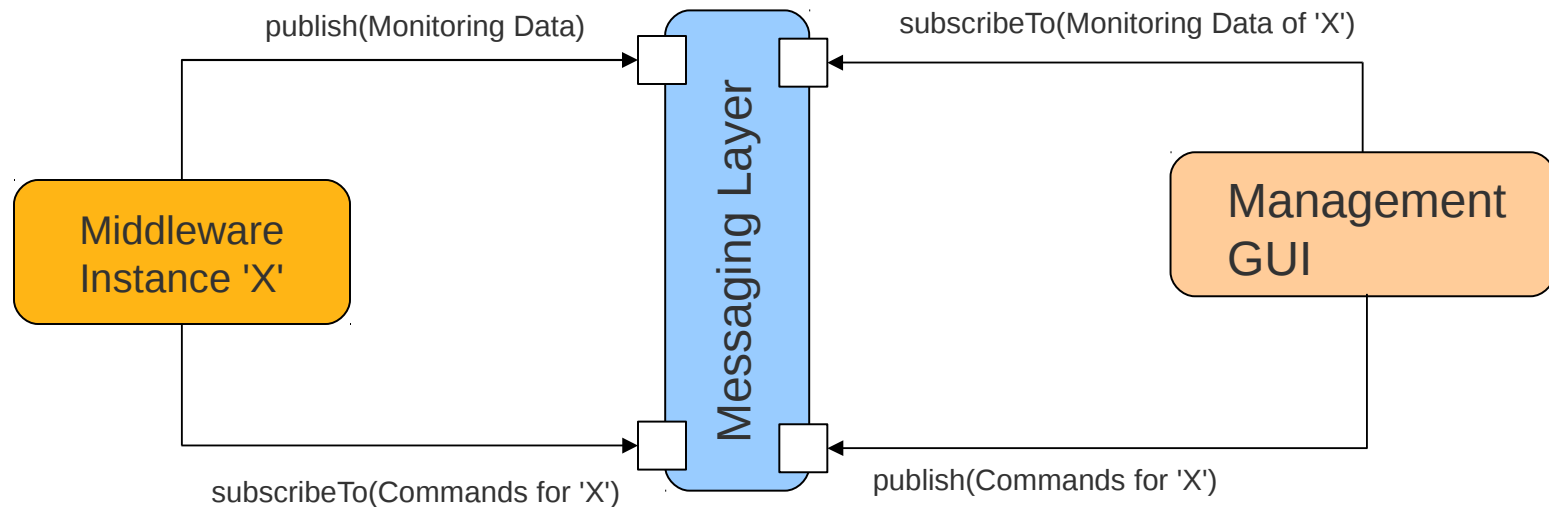
# Role of Messaging I

- Use Messaging to retrieve monitoring data



# Role of Messaging II

- Use Messaging to retrieve monitoring data & issue service management and monitoring actions





# Thank you

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