



# GlobalGridForum

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## Future Work Proposal

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# Future Work Proposal

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- Supporting Agreement for Web Services
  - Key Performance Indicators (KPIs) for managing Web Services
  - Resource claiming in Web Services
  - Further alignment of agreement with the Web Services Stack

# Key Performance Indicator (KPI) for Web Services

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Issue: Define commonly (expected to be) used KPIs for web services

✍ KPIs and their semantics must be well-defined in order to use in agreements for web services

✍ a small set will cover commonly used scenarios

✍ applicable to all web services

✍ use of agreement, i.e., customization based on client input is important for configuring services

✍ Performance (Example KPIs)

- Average response time

Parameters: averaging window, unit, measurement point

- Percentile response time

Parameters: Additionally Percentile target

- Throughput

Parameters: Window, unit

✍ Resiliency (Example KPIs)

- Availability

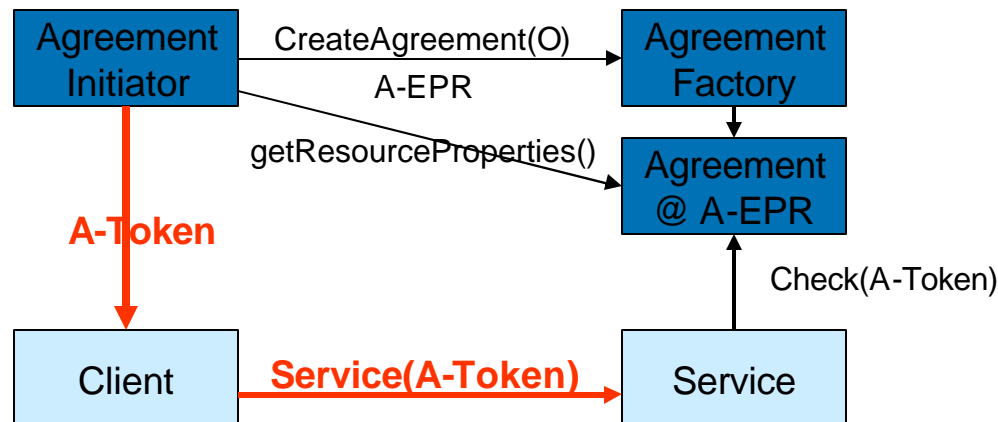
Parameters: window

- Maximum down time

Parameter: unit

# Claiming and Agreement Reference

- Issue:
  - How to claim a service against an agreement, e.g., in a SOAP service call?
- Objective:
  - Common specification of reference to an agreement, i.e., define agreement token
    - Use of web services security
  - Can be used for other purposes, such as reporting on agreements





# Further alignment of agreement with the Web Services Stack

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Issue: Embrace emerging web services stack for further alignment for defining Agreement for web services

- WS-Metadata Exchange – for discovering service capabilities and customization policies,
- WS-Policy – for expression of customization policies and other service configuration policies