



Enabling Grids for E-science

FQAN and Shares in EGEE

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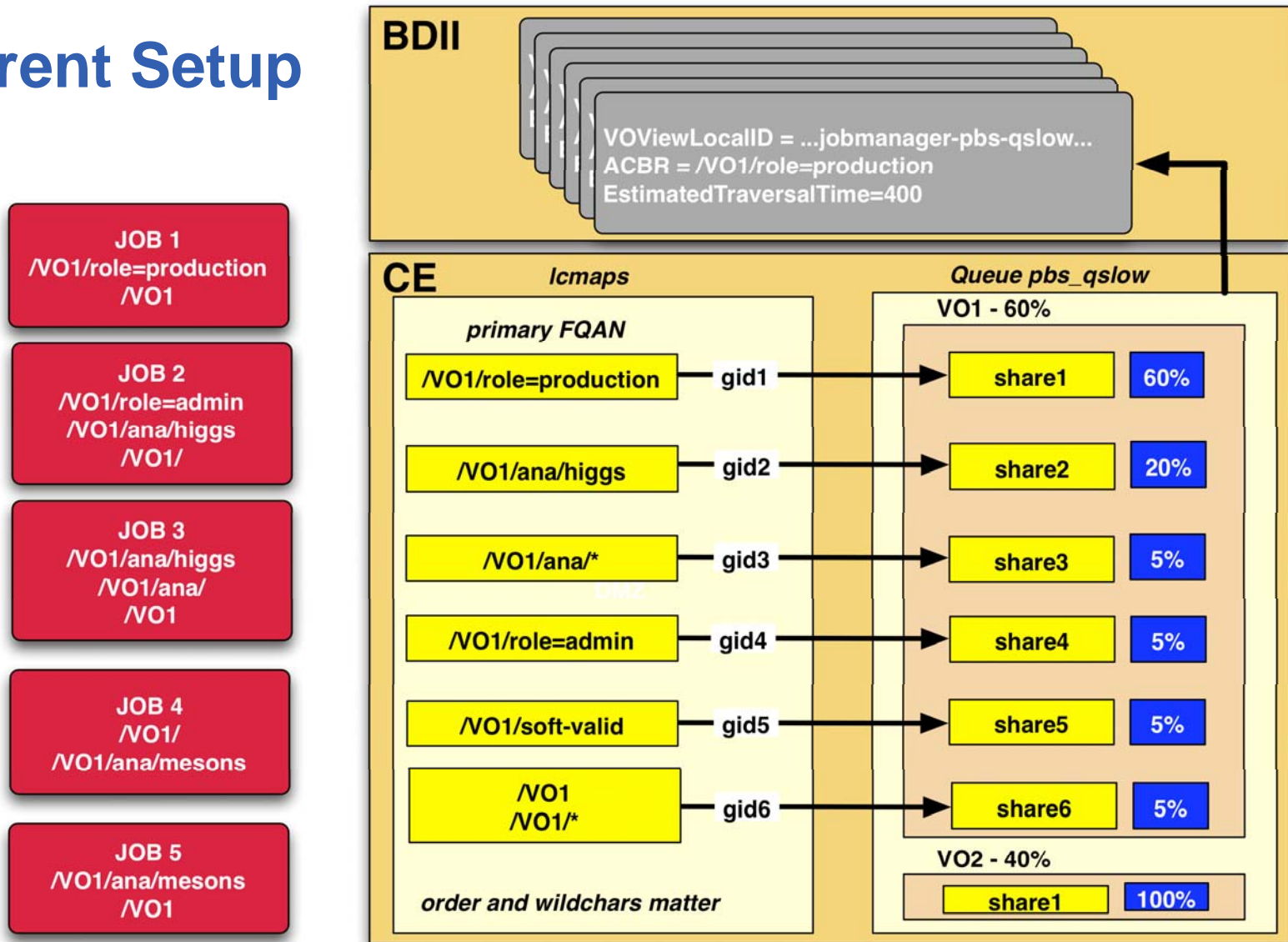
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- **Current setup**
- **Future setup under consideration**

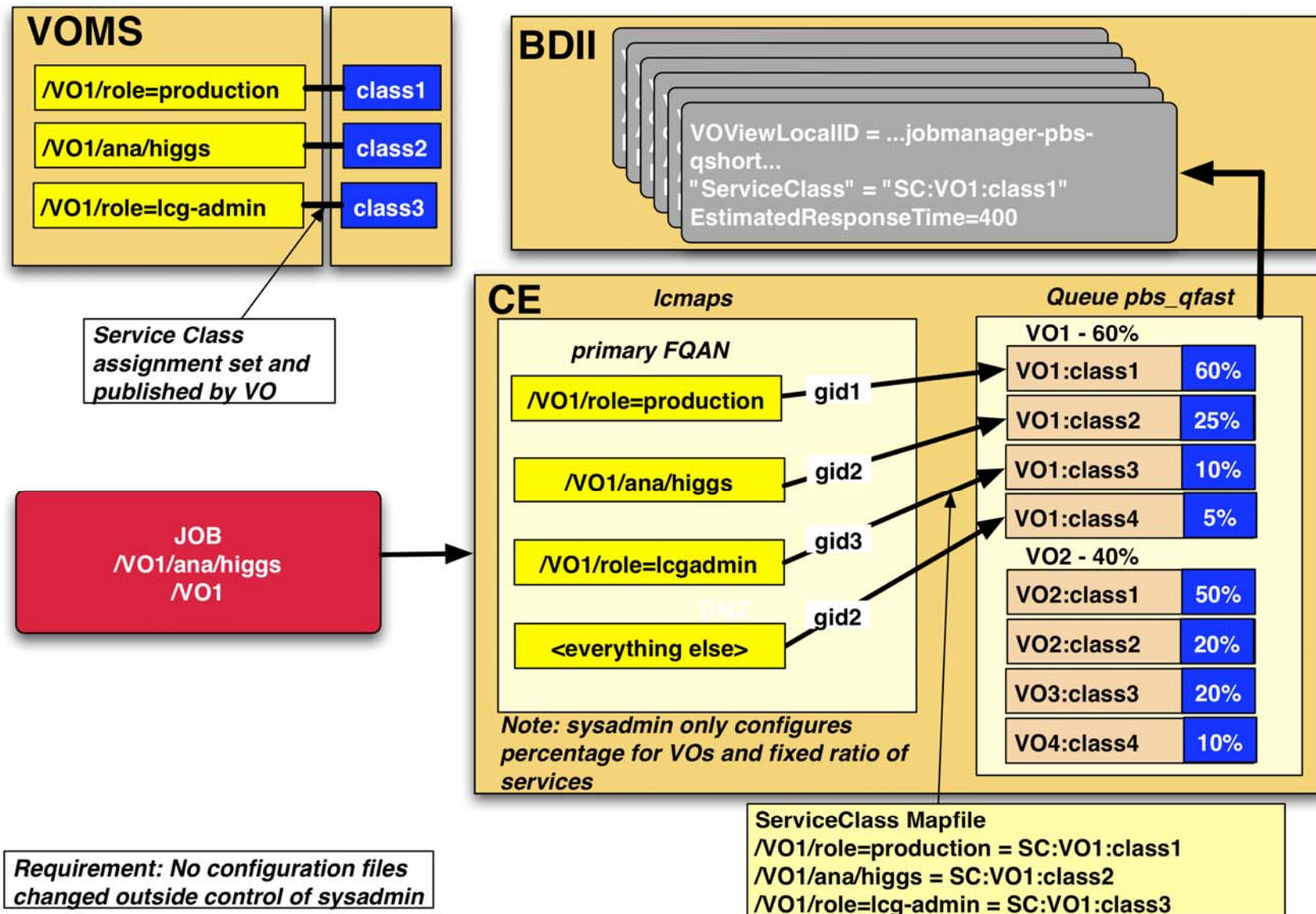
Current Setup



- Mapping *FQAN* --> *GID* --> *share* links the FQAN to the scheduling
- Sites tend to decide share between VOs
- VOs tend to decide share between types of jobs (e.g. FQANs)
- Sites need to be reconfigured by site admins if VOs wants to change the relative share of the FQANs

EGEE Decoupling FQANs and Shares (2/4)

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- **Note: There are three issues here:**
 - Link: GID <--> share
 - Link: Scheduling <---> FQAN
 - VO has means to influence share usage dynamically (without the need for a local site reconfiguration)
- **These issues can be discussed separately**

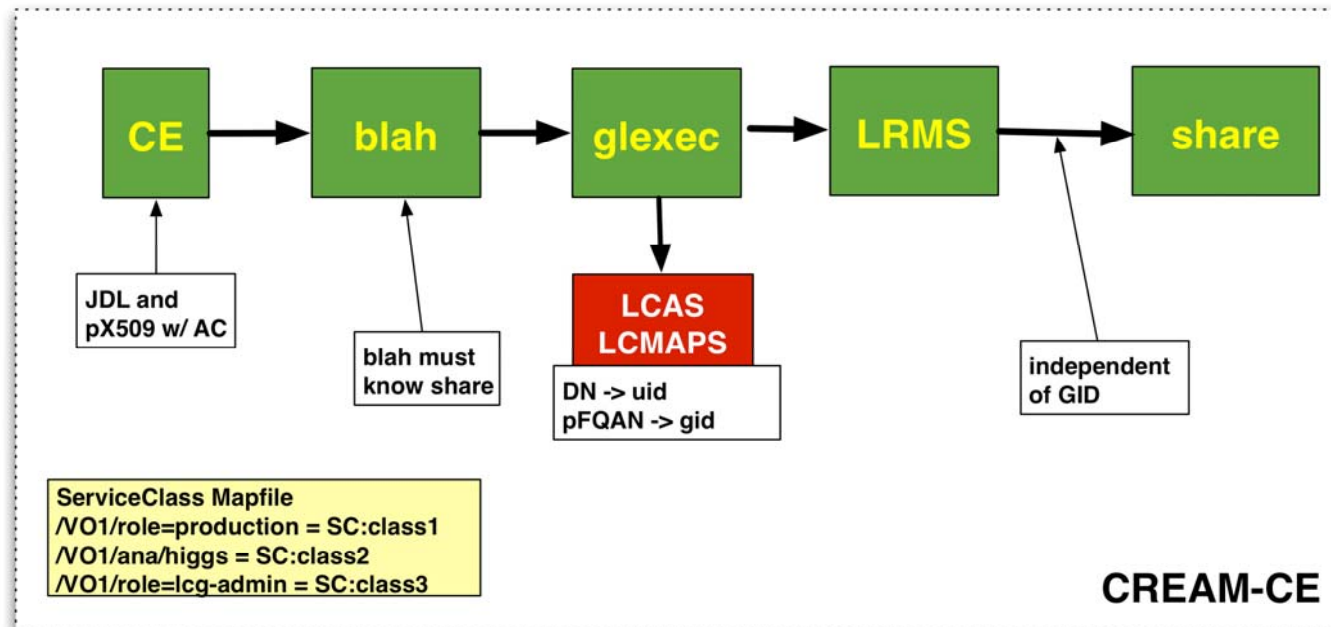
- **Several ways to implement this scheme**
- **Several components have to be adapted**
 - Feedback from middleware developers expected
- **Site retains full control**
 - Site can override the assignment of FQAN service class
- **Note: a site can define additional shares based on FQANs in order to fulfil site-specific requirements**

- **Consequences:**
 - WMS:
 - MM must either consider FQAN or SC in ACBR:
 - *E.g. Search all VOViews with*
 1. ACBR = SC:class1 OR
 2. ACBR = VOMS:/atlas/analysis/higgs
 - *If both match, take the “most specific one” := FQAN*
 - *Every site has a default share*
 - BDII:
 - ACBR can accommodate SC:class1 as well as VOMS:/atlas/analysis in VOView

- **Consequences II:**

- CE: blah must know the share

- As external input parameter
 - Extracts it from the proxy --> blah needs access to security code
 - External input preferred
 - *Relate to new authZ service*



- Issue has been identified but not enough support by VOs and site administrators to make any changes in the near future
- TCG decision
 - to defer any change in FQAN share handling
 - Will be dealt with as part of the new authorization service