



# Information Services

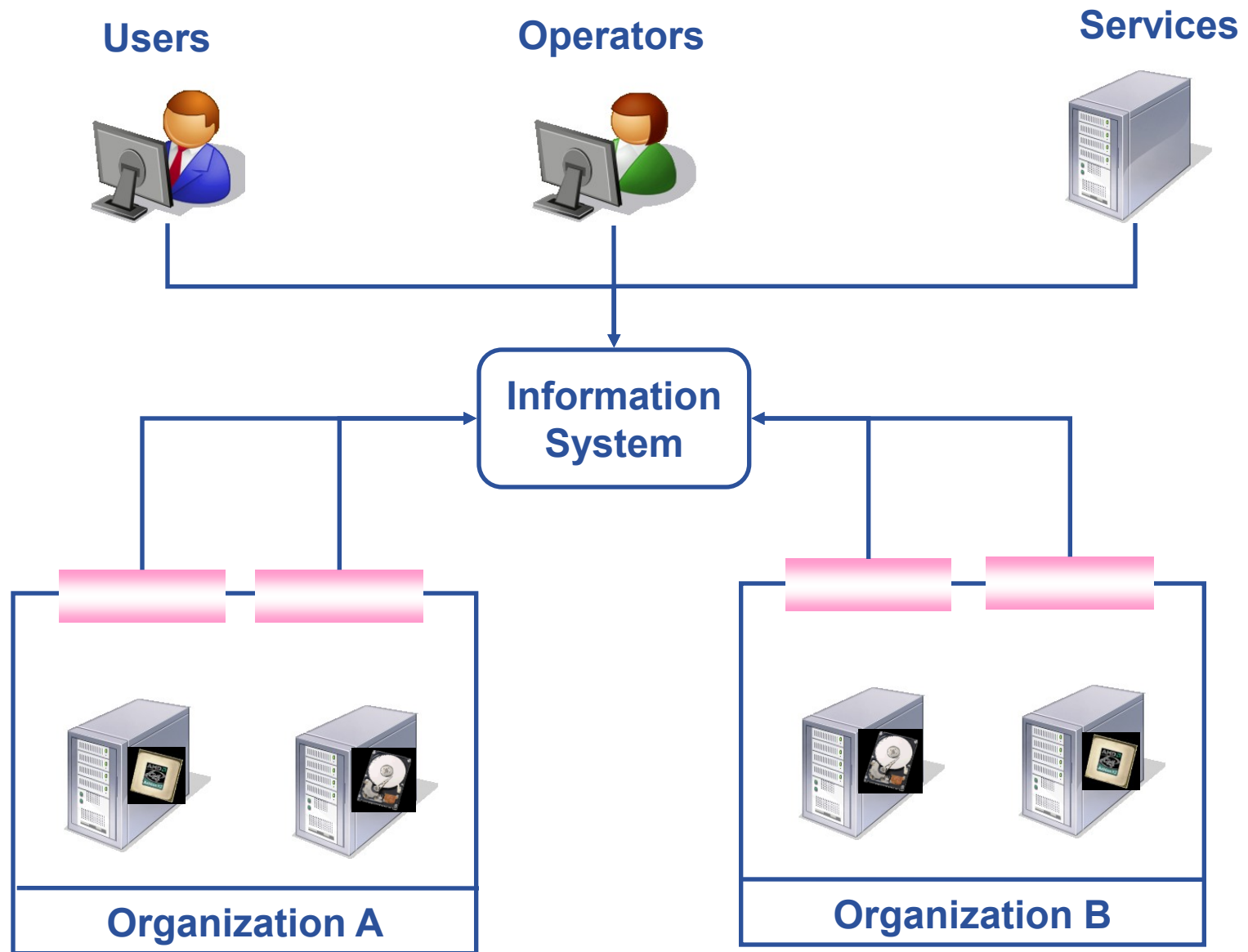
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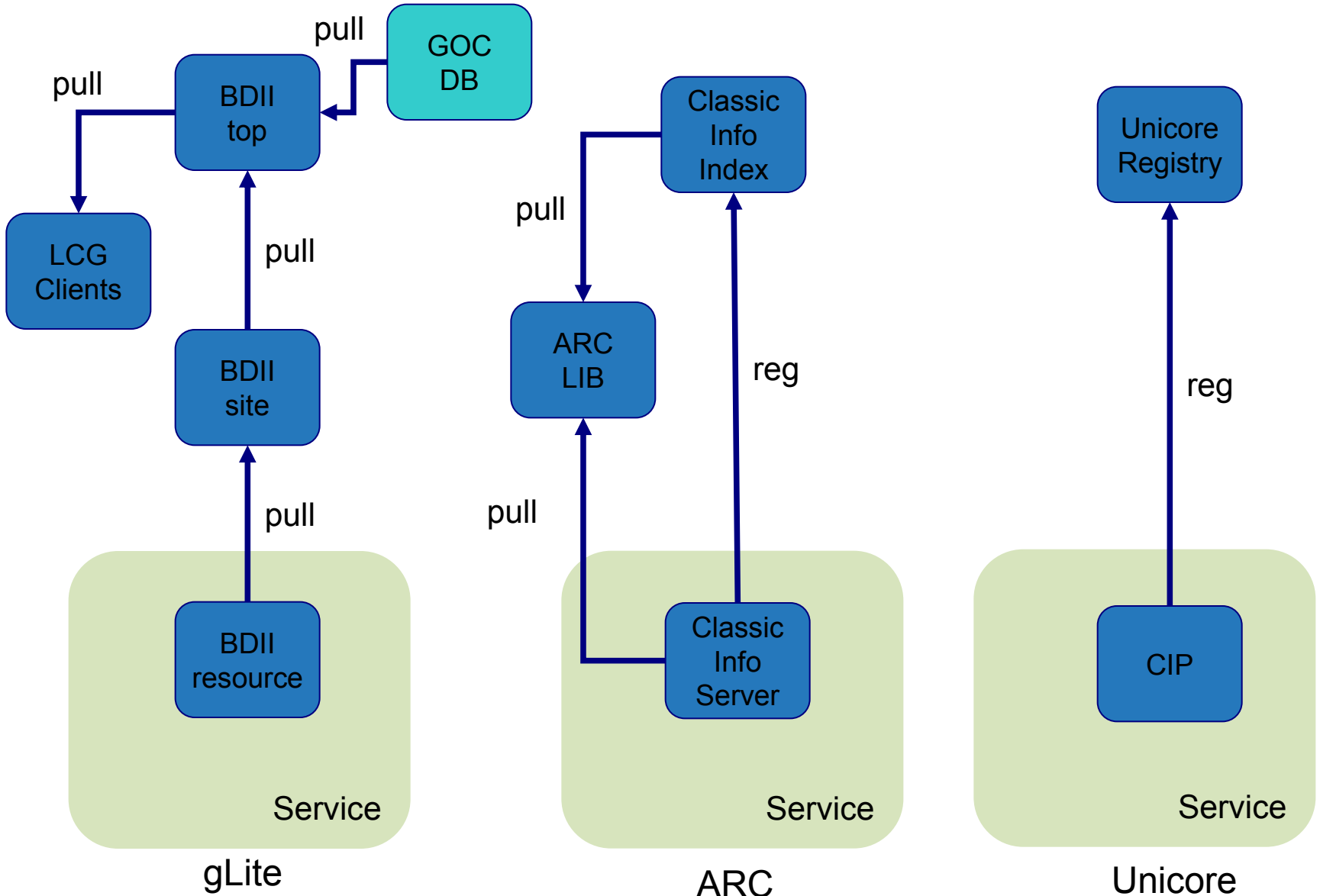
# Overview

- Information System
- EMI Today
- Comparisons
- Consolidation and Harmonization

# Grid Information Systems



# Today



# Comparison Matrix

Stack	Service Level	Registry	Information Model	Data Model	Global Cache	Transport Model	Federated
<b>gLite</b>	resource-level BDII	GOC DB	GLUE 1.3	LDIF	Top-level BDII	Pull	Kind of
<b>ARC</b>	Classic Info Server	Classic Info Index	NorduGrid Schema	LDIF	No	Pull	Not really
<b>Unicore</b>	CIP	Unicore Registry	GLUE 2.0	XML	No	Pull	Possibly

# What do we agree on?

- ✓ Grid services
  - The fundamental entity
- ✓ GLUE 2.0
  - As the information model
- ✓ Publishing from the service Itself
  - The service being the information source
- ✓ The need for a registry
  - Bootstrapping the Grid
- ✓ The need for a client tool
  - Hide the implementation from users

# Where we differ

- ✘ Data model
  - XML vs LDIF
    - Both are too verbose for transport
- ✘ Transport
  - Push vs Pull
- ✘ Caching
  - Central cache vs service contact
    - Querying services is a potential DNS
    - Distance from source increases uncertainty
- ✘ Approaches to Federating
  - Weak in all implementations

# Consolidation and Harmonization

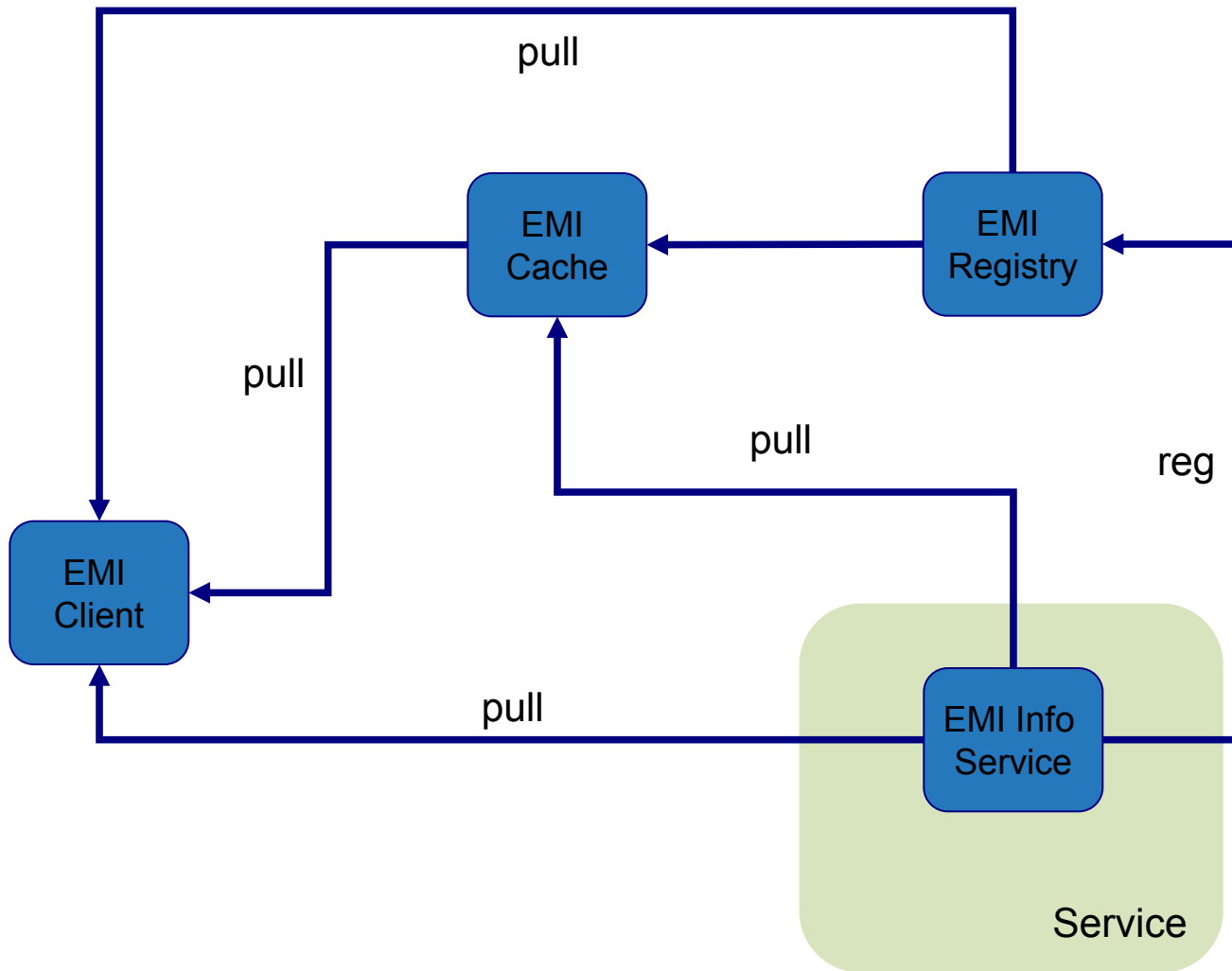
- This is not interoperability!
  - If it does the same thing
    - It should be the same thing
- Service level publisher
  - What functionality is required?
  - Can we have only one solution?
- GLUE 2.0
  - Validation tool (gstat-validation)
  - Is anything missing?
  - Phase out plans for other models?



# Consolidation and Harmonization

- EMI Registry
  - Need to agree on architecture
- Client Tools
  - There are currently four
  - Which ONE do we take for EMI-2?
- Assuming we have the EMI Registry
  - Do we need caches
    - Where?

# Tomorrow?



# Conclusions

- Three parallel systems
  - All production quality
    - Slight different approaches
- Consolidation and Harmonisation
  - Major challenge
    - Requires tough decisions
  - Focus first on where we agree
    - And provide one solution
  - Discuss where we differ
    - Understand technical arguments
    - Decide or support multiple scenarios



**Thank you**

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