Architectural Models

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ATF Meeting
9.4.02
CERN

Agenda

- Definition of Package
- Definition of Package Dependency
- Package Diagrams of EDG Architecture

Definition of Packages 1

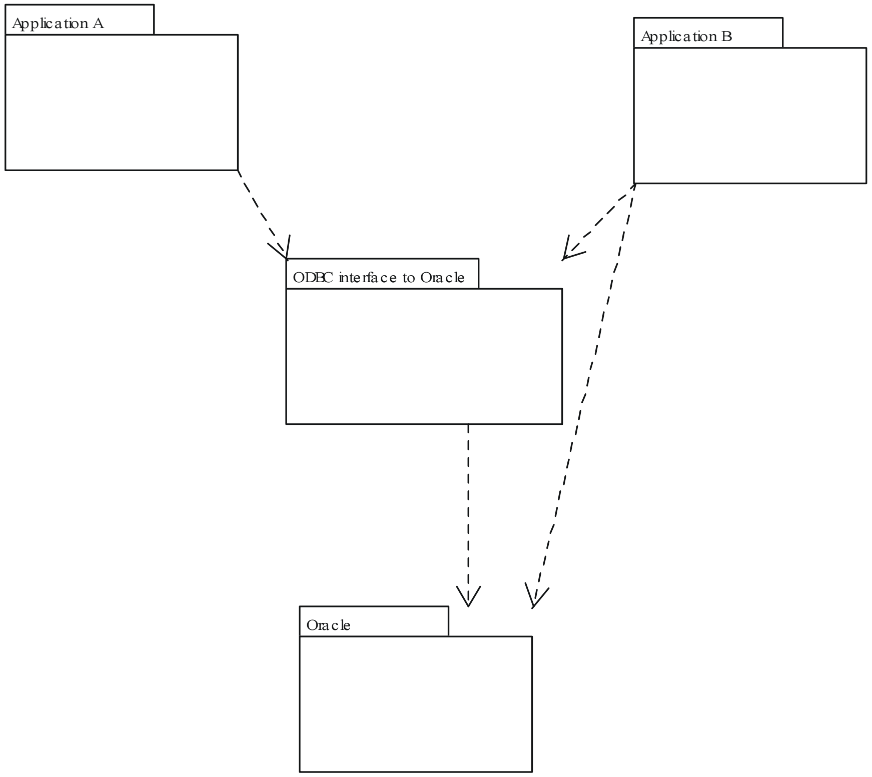
- UML designed for OO languages
- Packages usually defined by the classes & interfaces they contain
- But what are the classes and interfaces
  - EDG not OO
  - Even if EDG were OO, probably too big to model from the bottom up

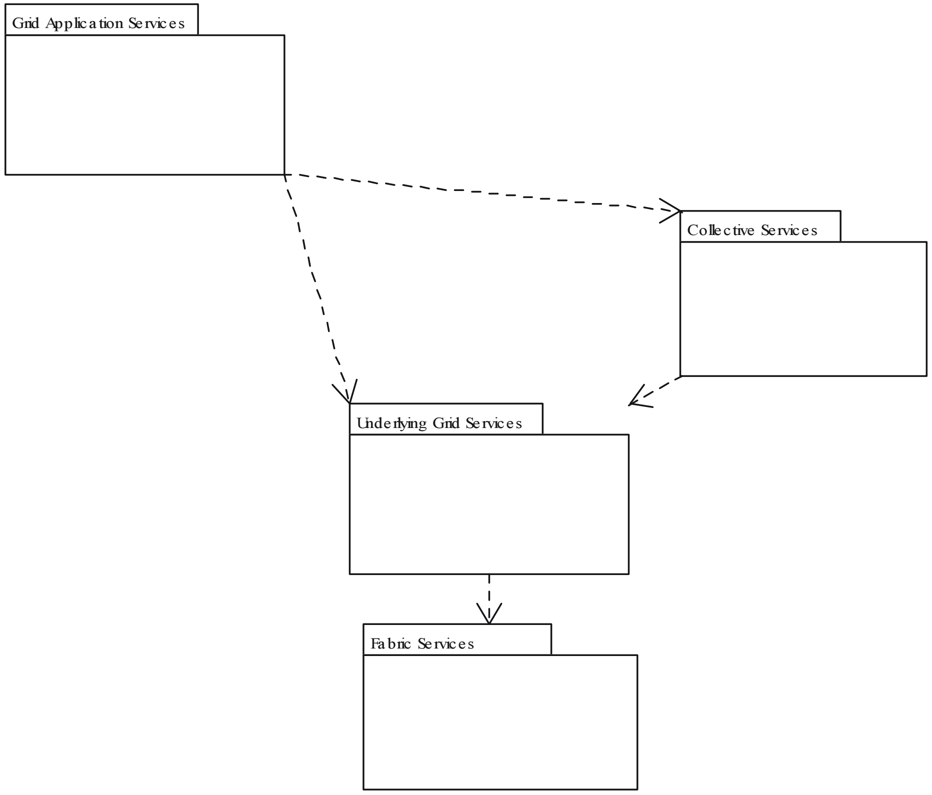
Definition of Packages 2

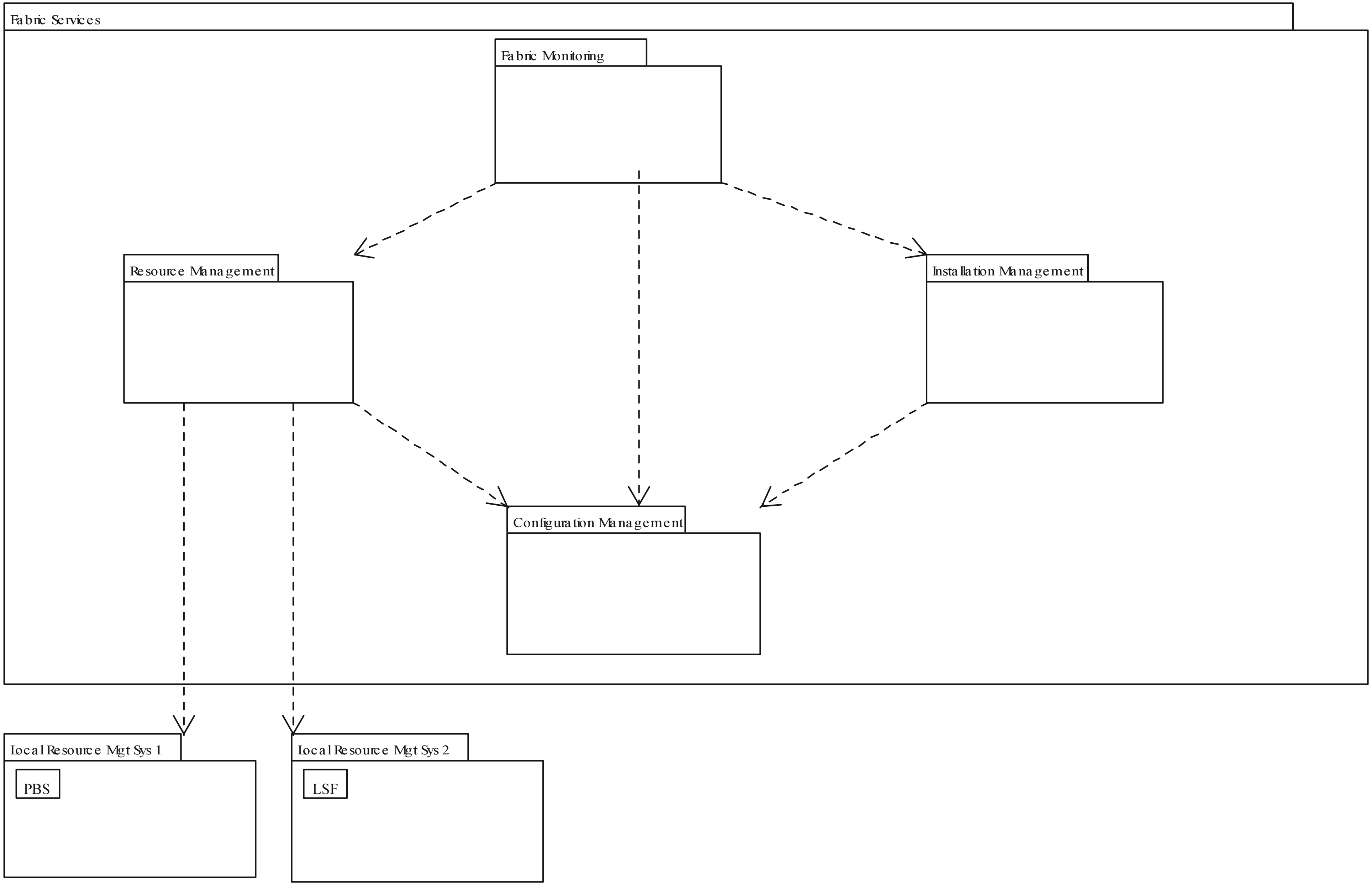
- I tried to use standard terms
- Package names are mapped onto delivered products by WP6
- At least, if we agree on a diagram we can pinpoint any disagreements to particular package or ‘class’ definitions

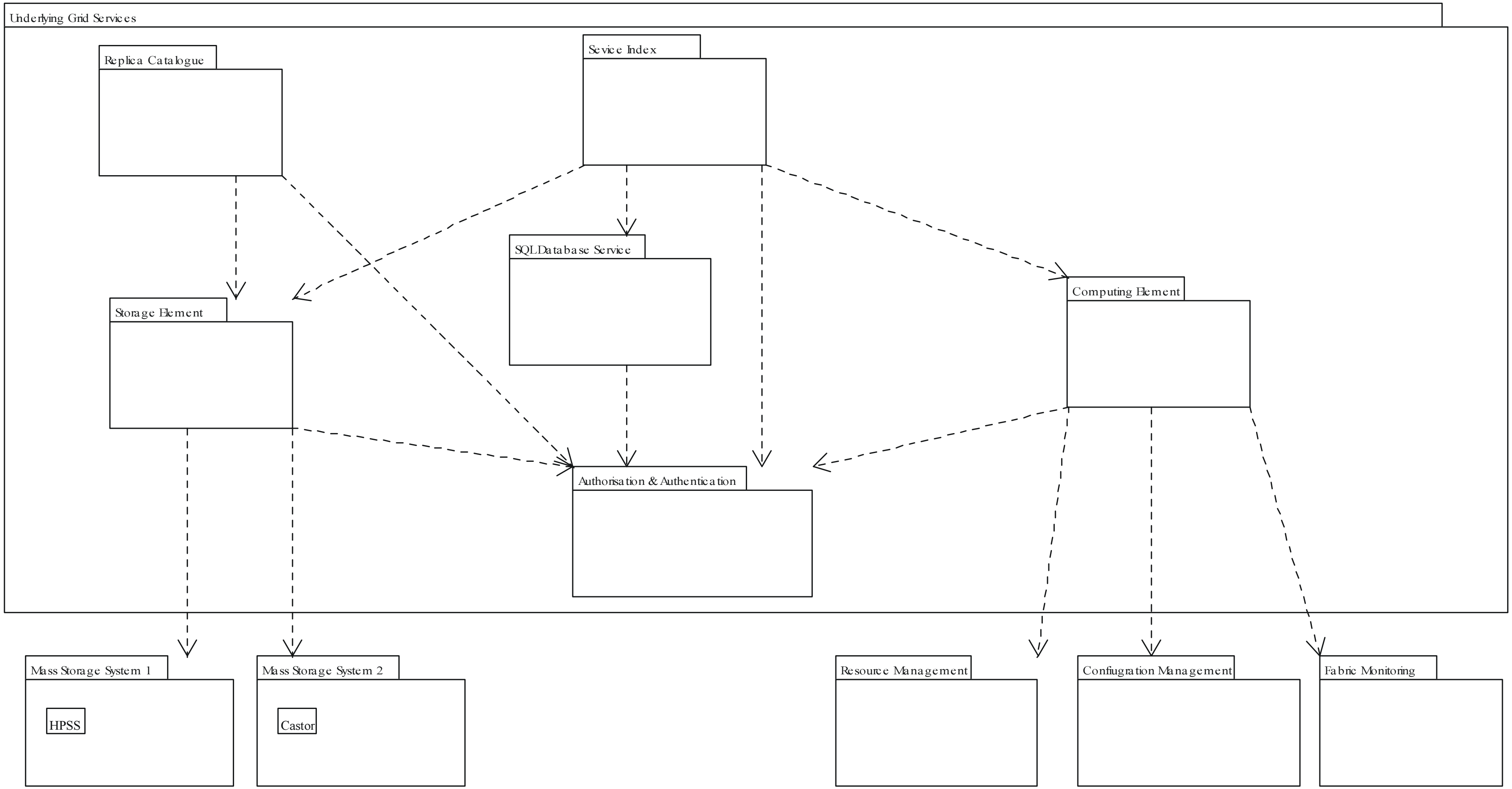
Definition of Package Dependency

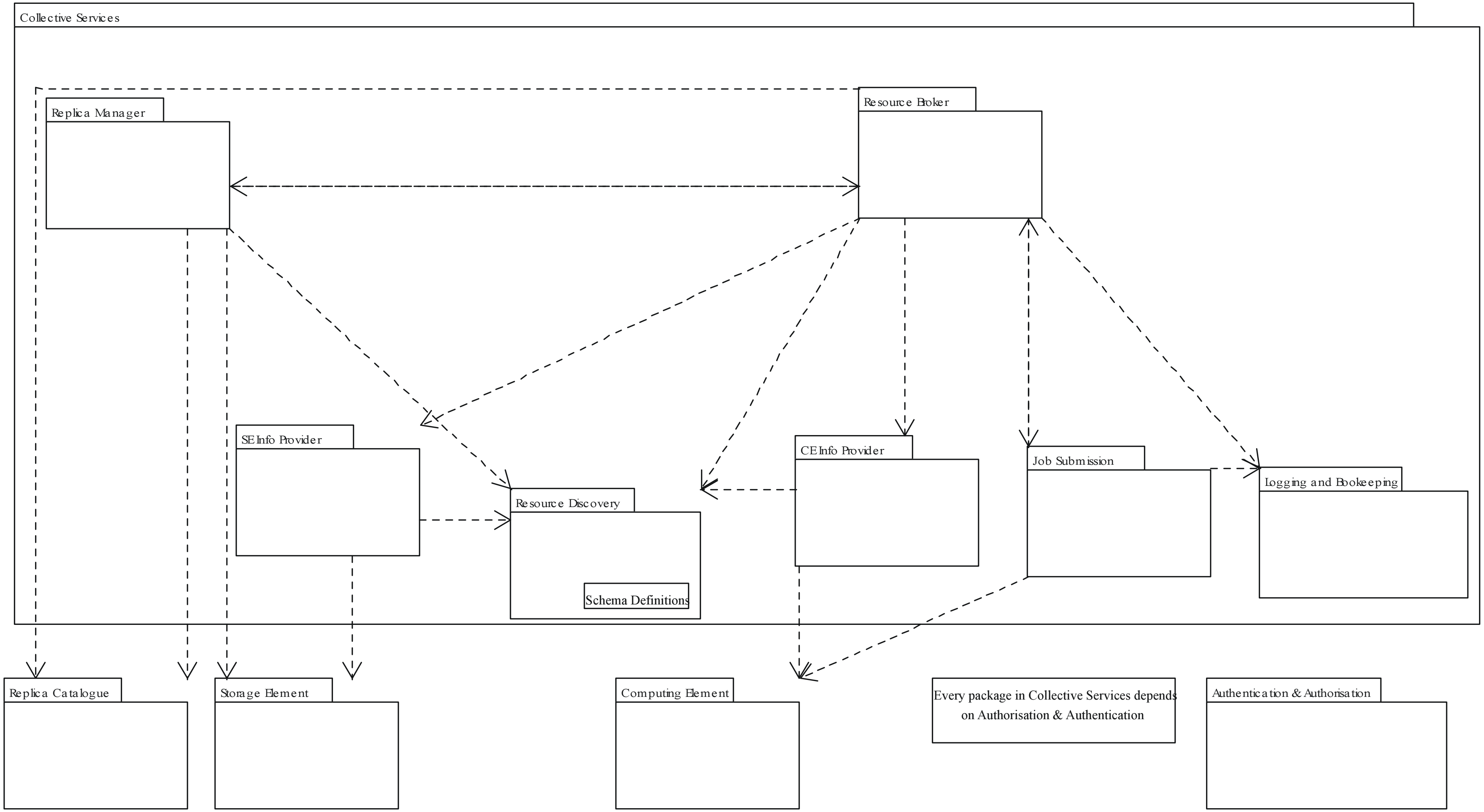
- A->B if a change to B may necessitate a change to A
- Not transitive
- Not the same as testing dependency
- Doesn't show information flow

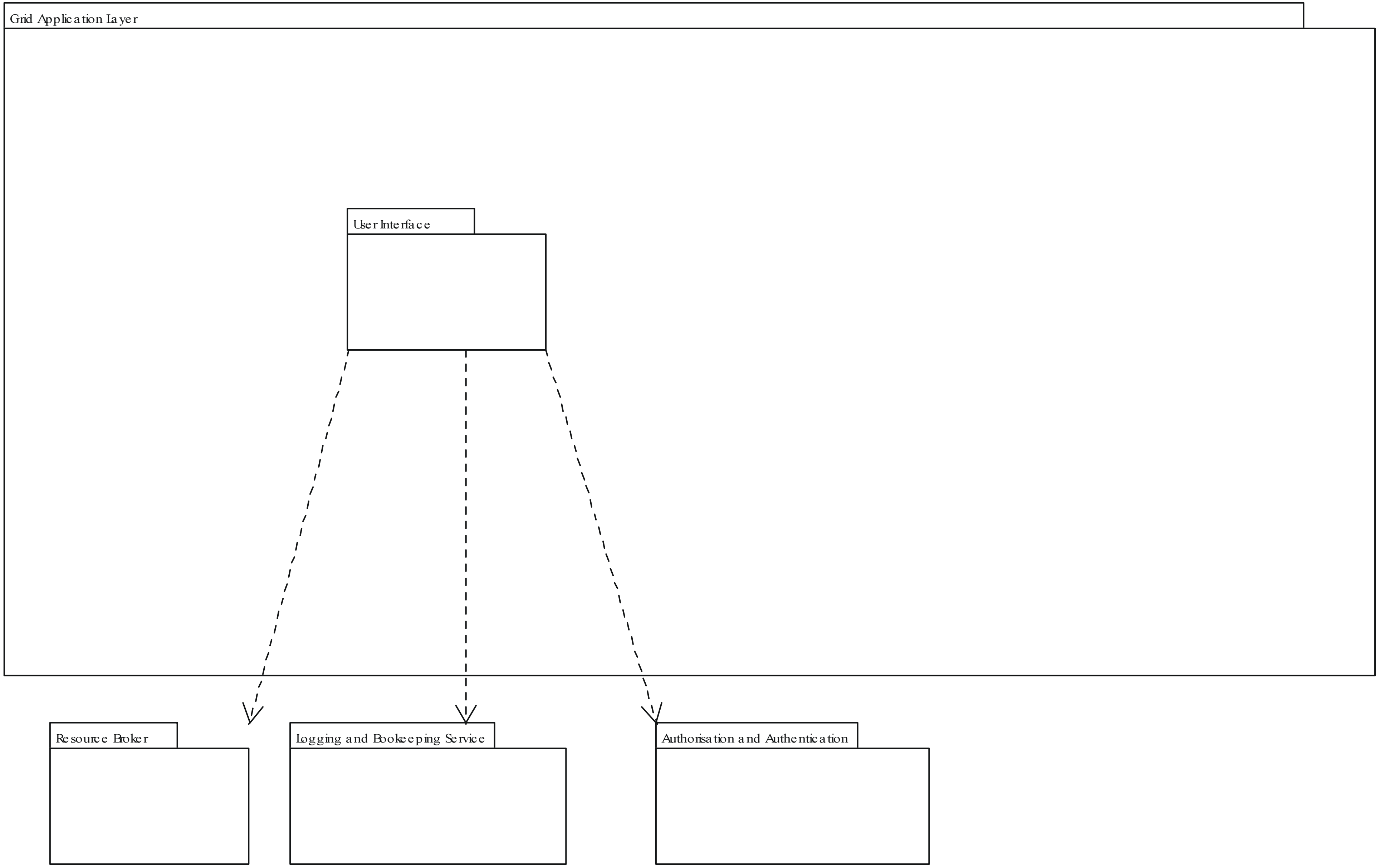

Application A
Application B
ODBC interface to Oracle
Oracle


Grid Application Services
Collective Services
Underlying Grid Services
Fabric Services


Fabric Services
Fabric Monitoring
Resource Management
Installation Management
Configuration Management
Local Resource Mgt Sys 1
PBS
Local Resource Mgt Sys 2
LSF


Underlying Grid Services
Replica Catalogue
Sevice Index
SQLDatabase Service
Storage Element
Computing Element
Authorisation & Authentication
Mass Storage System 1
HPSS
Mass Storage System 2
Castor
Resource Management
Confiugration Management
Fabric Monitoring


Collective Services
Replica Manager
Resource Broker
SE Info Provider
Resource Discovery
Schema Definitions
CE Info Provider
Job Submission
Logging and Bookeeping
Replica Catalogue
Storage Element
Computing Element
Every package in Collective Services depends on Authorisation & Authentication
Authentication & Authorisation


Grid Application Layer
User Interface
Resource Broker
Logging and Bookeeping Service
Authorisation and Authentication