



Reptor

A Status Update

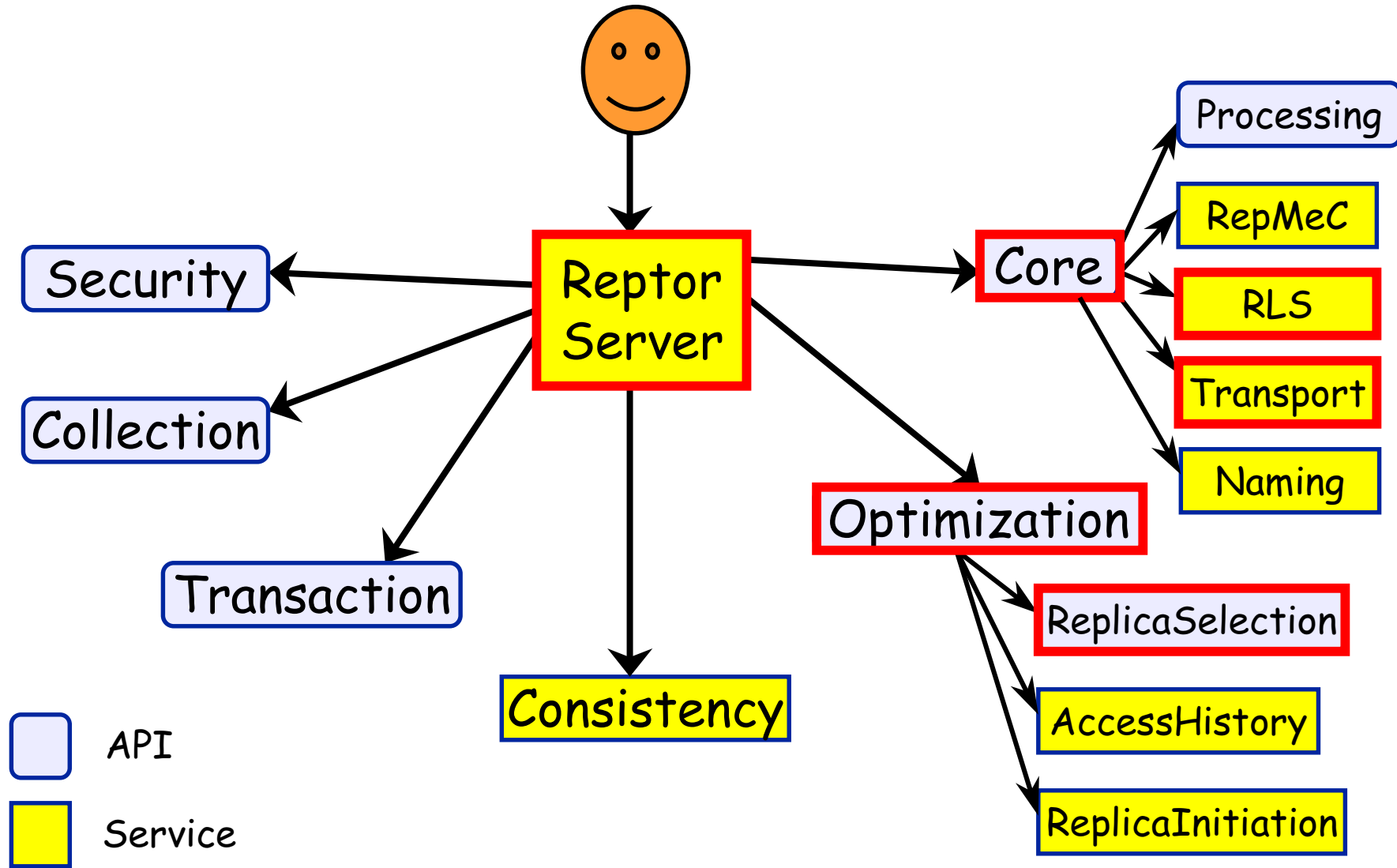
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WP2 (Data Management) - EU DataGrid Project

WP2 Workshop

29-30 August 2002

Main Reptor Components

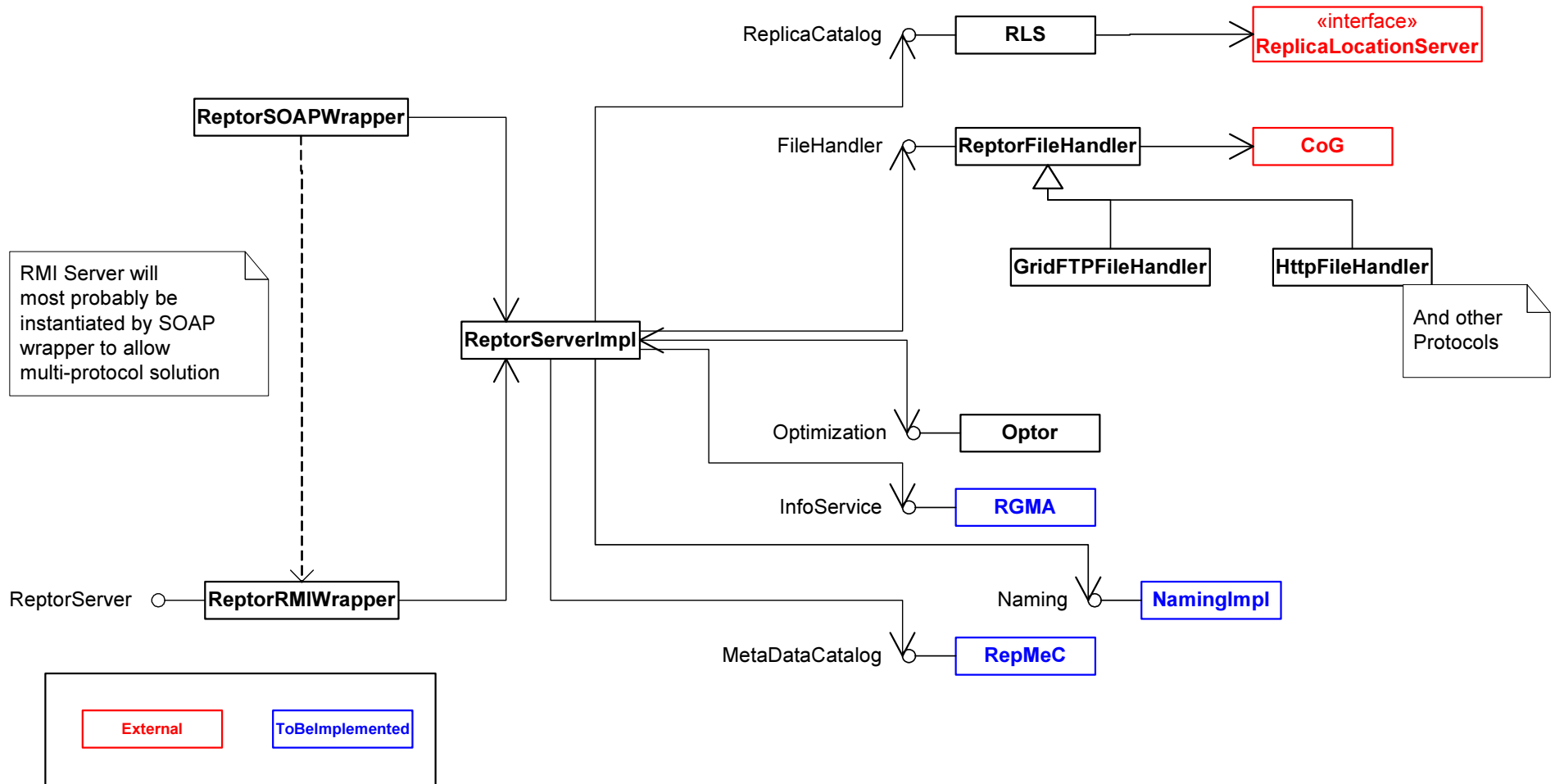




Reptor Technology



- u Reptor Server Java 2
- u Client/Server communication RMI (SOAP under way)
- u Client API Java (remote interface)
 C++ through JNI
- u Replica Catalog RLS (Giggle) through JNI
 interface
- u Transport CoG (Java Globus)





Reptor Core API



- u **registerEntry** (lfn, source)
- u **unregisterEntry** (lfn, source)
- u **copyFile** (source, destination, protocol)
- u **copyAndRegisterFile**(lfn, source, destination, protocol)
- u **replicateFile**(lfn, source, destination, protocol)
- u **deleteFile**(lfn, source)
- u **listReplicas**(lfn, [ce|se])

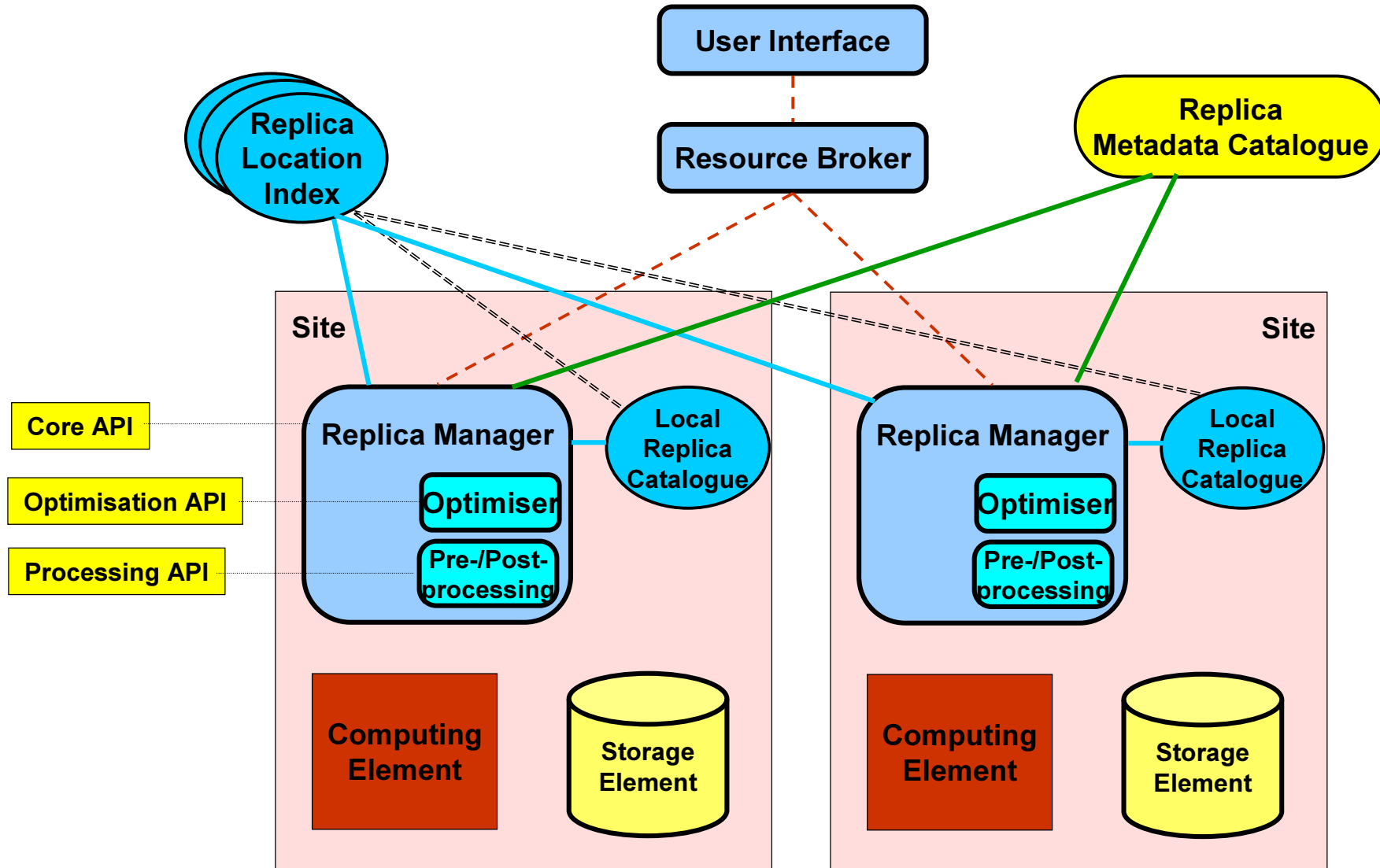


Optimization API (Optor)

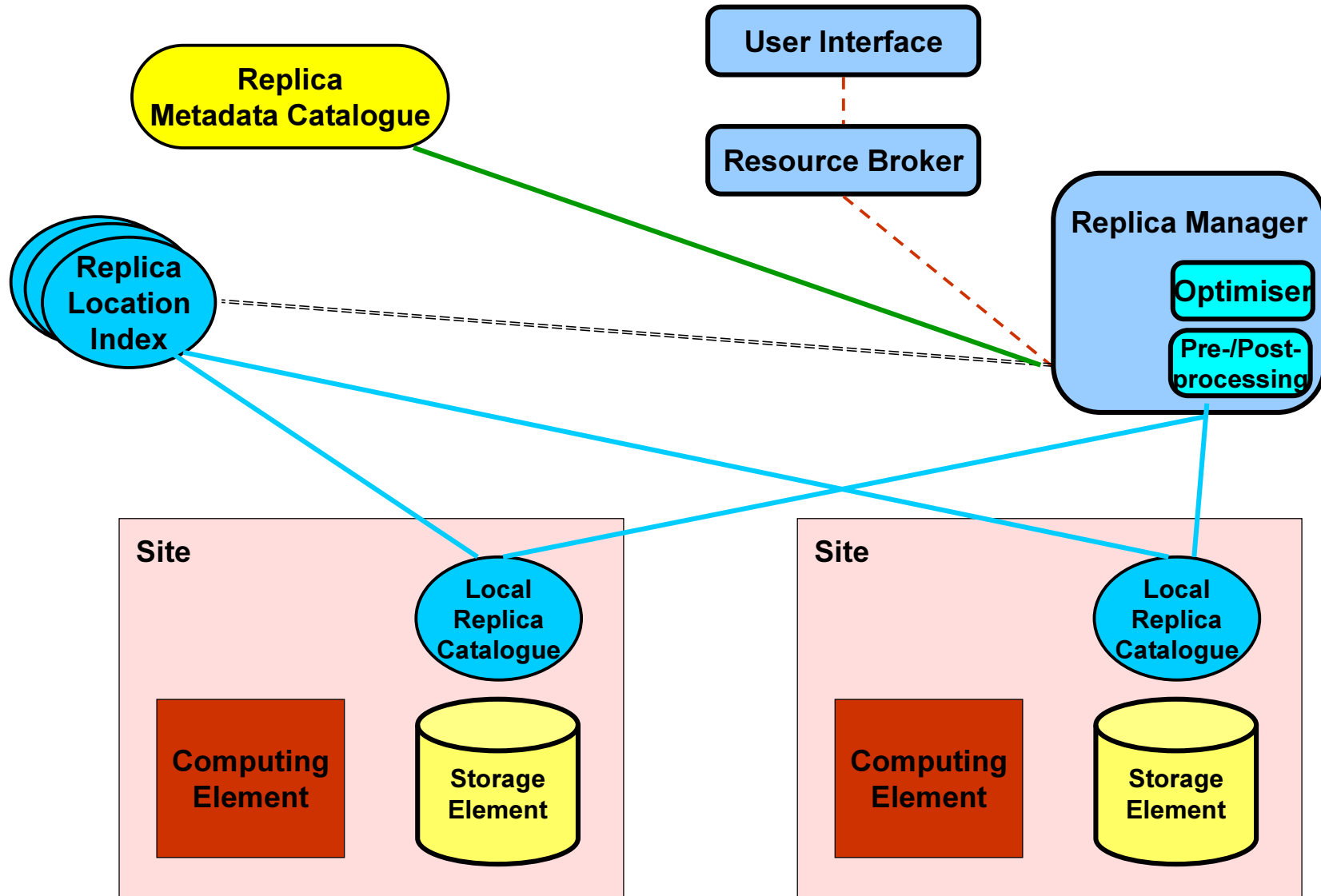


- u **getAccessCost** (String[] lfn, String ce, String[] protocol, float[] fileFraction)
- u **getBestFile** (String[] lfn, String destinationSE, String[] protocol, float[] fileFraction)

Possible Reptor Deployment I



Possible Reptor Deployment II





Open Issues for TB 2.0



- u RepMeC connection
- u Name Generator
- u R-GMA connection
- u RLS deployment (multi-VO support)
- u Security
- u SOAP interface
- u Testing (unit + functionality)
- u SE (VO + storage dir from R-GMA)



Priorities for TB 2.x



- u Consistency
- u Transaction/Fault Tolerance
- u Pre/Post Processing
- u Collection
- u Advanced Optimization