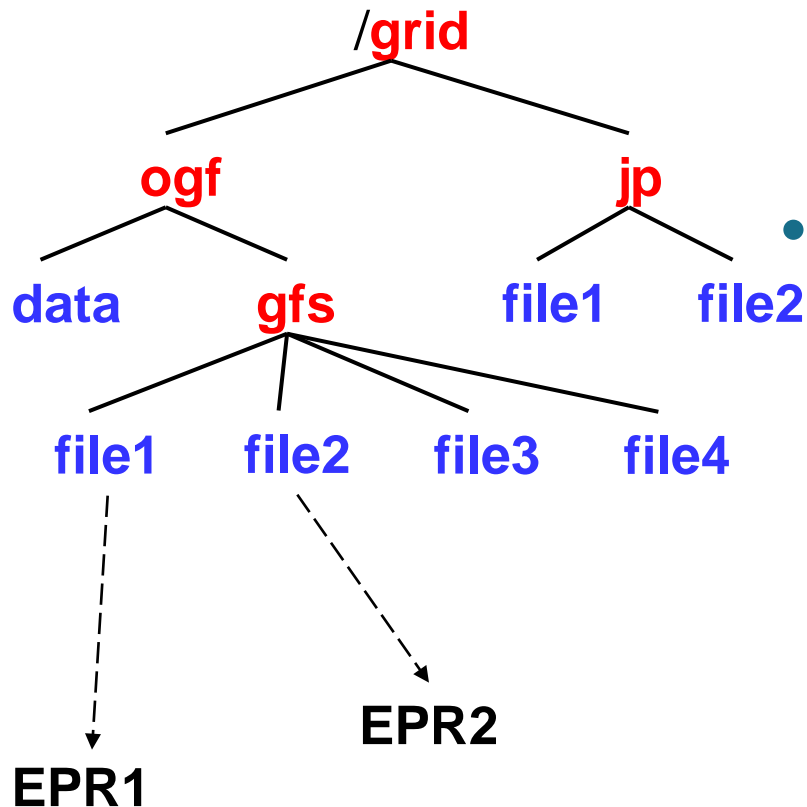


RNS 1.1 Demonstration

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Resource Namespace Service (2)



EPR: Endpoint Reference

- Hierarchical namespace management that provides name-to-resource mapping
- Basic Namespace Component
 - **RNS directory entry**
 - Non-leaf node in hierarchical namespace tree
 - **RNS non-directory entry**
 - Name-to-resource mapping that interconnects a reference to **any existing resource** into hierarchical namespace

Operations in RNS Specification 1.1



add (entryName: String, [entryEndpoint: EPR],
[entryMetadata: XML]): RNSEntry

lookup ([entryName: String]): LookupResults

remove (entryName: String): RNSEntry

rename (oldEntryName: String, newEntryName:
String): RNSEntry

setMetadata (entryName: String, newMetadata:
XML): RNSEntry

Current Implementation at Osaka U. (RNS Client Operations)



add operation:

rns-mkdir directory-path (Directory Entry)

rns-add ur URL RNS-path / **rns-add er** EPR_file RNS-path
(Another RNS (Directory) Entry)

rns-add u URL RNS-path / **rns-add e** EPR_file RNS-path
(NonDirectory Entry)

rns-gridftp-put local-file-path physical-location-URL RNS-path
(NonDirectory Entry, file transfer is under construction))

lookup operation:

rns-ls directory-path (Directory Entry)

rns-getepr RNS-path (NonDirectory Entry)

rns-gridftp-get RNS-path

(NonDirectory Entry, file transfer is under construction))

remove operation:

rns-rmdir directory-path (Directory Entry)

rns-rm rns-path (NonDirectory Entry)

rename and setMetadata operations are not yet implemented.

Example of RNS operations

```
$ rns-mkdir /dir1
```

```
$ rns-mkdir /dir1/dir2
```

```
$ rns-add u gsiftp://host/file /dir1/dir2/file
```

```
$ rns-ls /dir1/dir2/file
```

```
/dir1/dir2/file -> gsiftp://host/file
```

```
$ rns-rm /dir1/dir2
```

```
/dir1/dir2: Is a directory
```

```
$ rns-rm-f /dir1/dir2
```