

SRM Transfers explained

Srmcp Client Server Negotiation(1)

- [Srmcp reads/writes a file(s)
 - 1.srmcp issues get/put, gets request token back
 - 2.while request status is “Pending”, update request status
 - 3.once status is ready and TURL(s) is available perform transfer from/to TURL(s)
 - 4.once transfer completes, set file status to “Done”

Srmcp Client Server Negotiation(2)

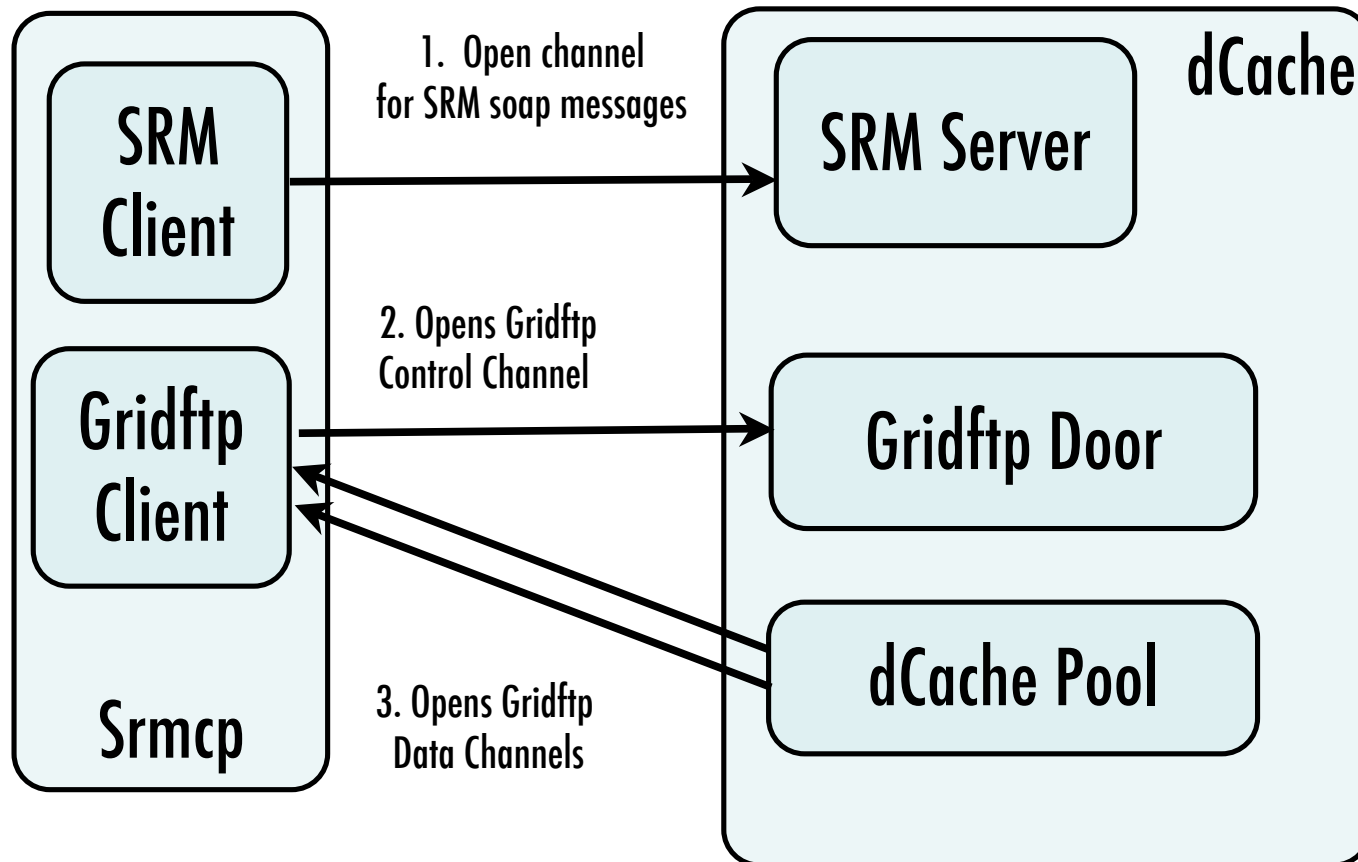
— [Srmcp copies a file from one SRM server to another

- 1.srmcp issues copy, gets request token back
- 2.while request status is “Pending”, update request status
- 3.once status is “Done” transfer has completed, report result and exit.

SRM Get Network Flows

srmcp srm://dCache:8443/dir1/file1 file:////tmp/file1

Firewalls:

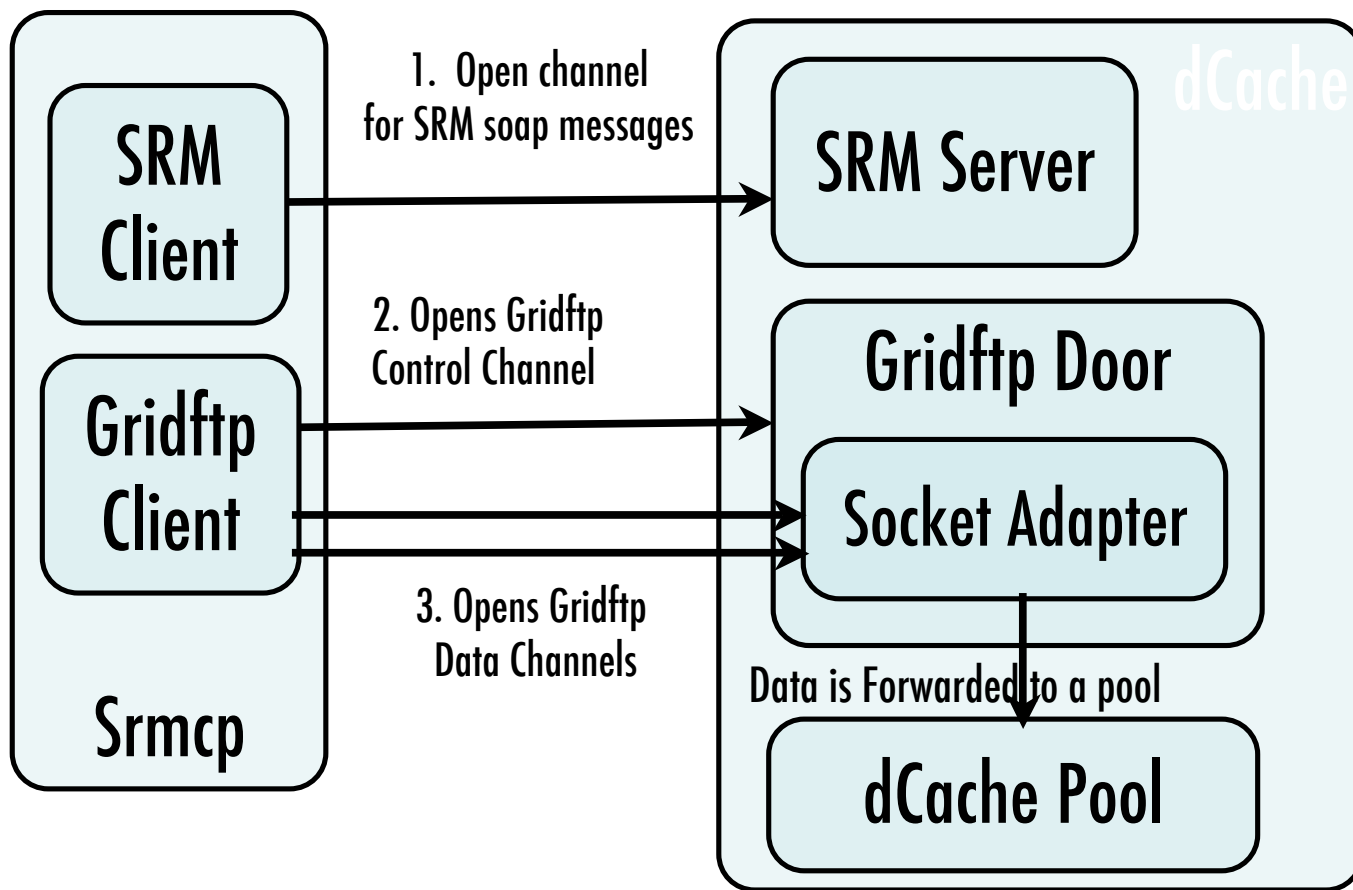


- Srmcp Client port range needs to be open and configured when behind a Firewall
- Pools can be behind firewall
- Srm server port must be open on srm node
- Gridftp server port must open on Gridftp door

Configuration details at
http://www.dcache.org/manuals/experts_docs/firewall.html

SRM Put Network Flows

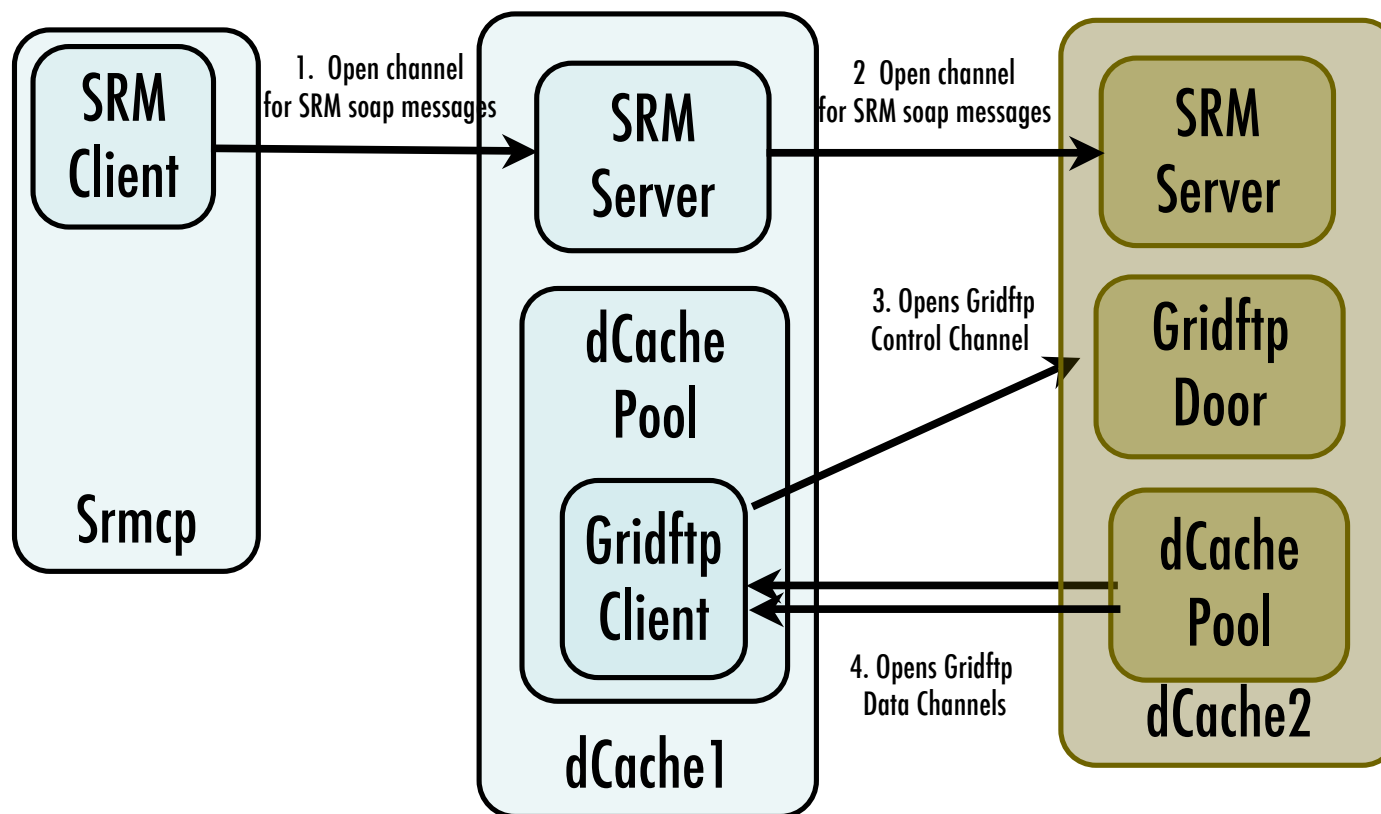
srmcp file://///tmp/file1 srm://dCache:8443/dir1/file1 **Firewalls:**



- Srmcp Client can be behind a Firewall
 - Pools can be behind firewall
 - Srm server port must be open on srm node
 - Gridftp port and port range for data must be configured on Gridftp door
- Configuration details at http://www.dcache.org/manuals/experts_docs/firewall.html

SRM Copy in Pull Mode Network Flows

`srmcp srm://dCache2:8443/dir1/file1`
`srm://dCache1:8443/dir1/file1.copy`



Firewalls:

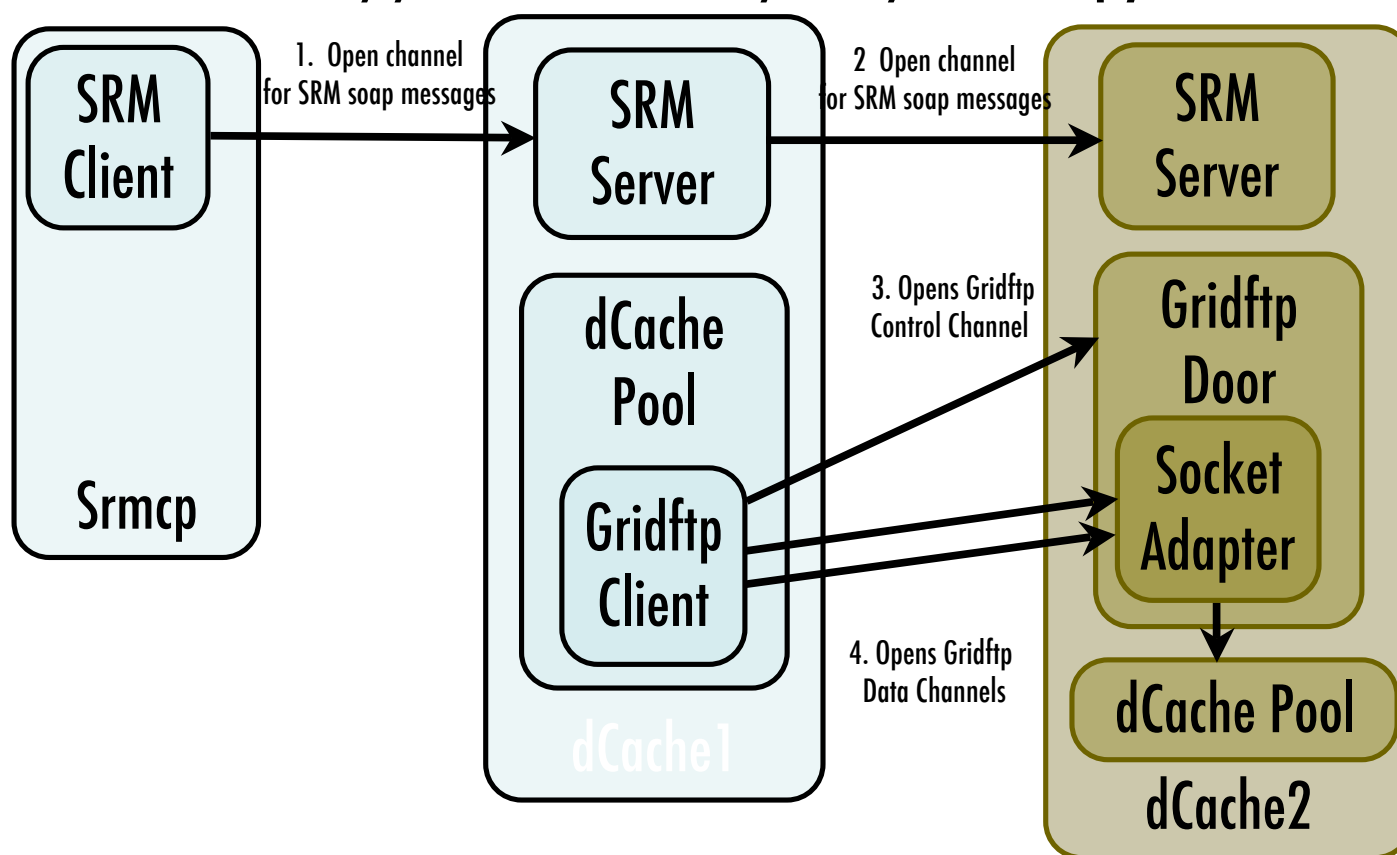
- Srmcp Client can be behind a Firewall
- dCache1 Pools need a port range set up and configured
- Srm servers ports must be open on srm nodes
- dCache2 Gridftp server port must be open on Gridftp door node

Configuration details at
http://www.dcache.org/manuals/experts_docs/firewall.html

SRM Copy in Push Mode Network Flows

`srmcp -pushmode srm://dCache1:8443/dir1/file1`
`srm://dCache2:8443/dir1/file1.copy`

Firewalls:



- Srmcp Client can be behind a Firewall
- dCache1 Pools and dCache2 Pools can be behind firewalls
- Srm servers ports must be open on srm nodes
- dCache2 Gridftp server must have a port range open and configured port must be open on Gridftp door node

Configuration details at

http://www.dcache.org/manuals/experts_docs/firewall.html