



Use cases for “file copy” between SRMs

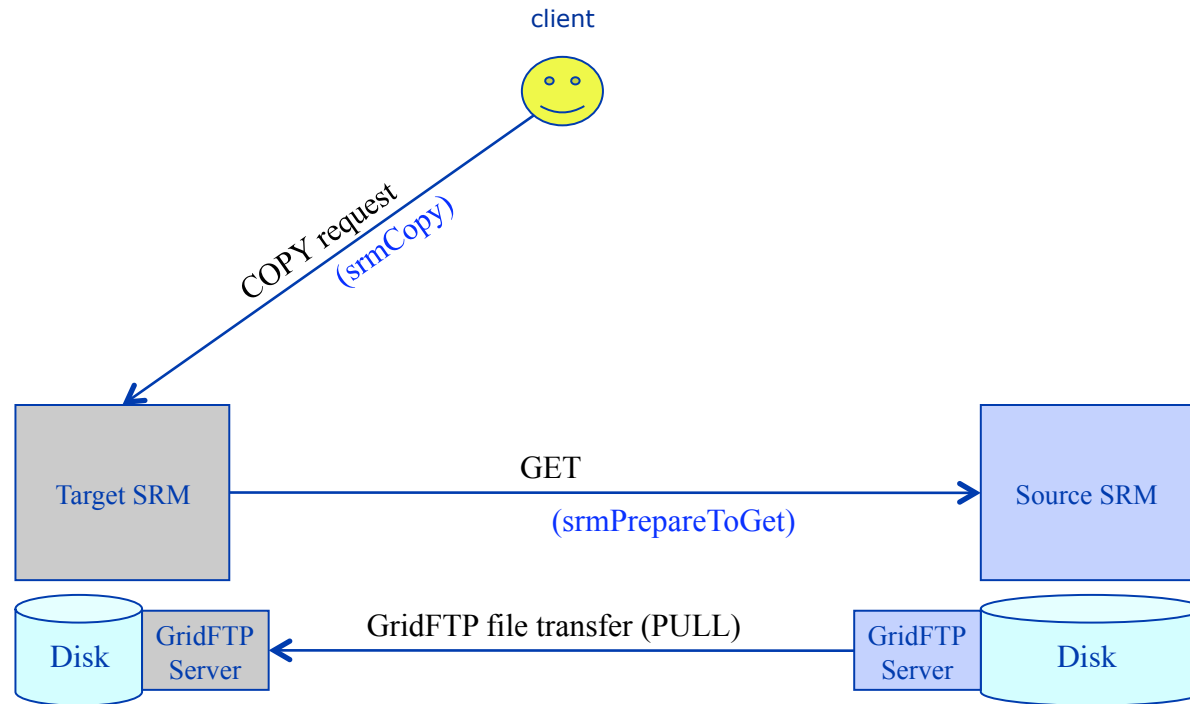


Introduction

- **This presentation describes use cases in combinations of SRMs at source and target for srmcp and srm-copy that work or do not work for**
 - srmcp/srm-copy – pull mode
 - srmcp/srm-copy – push mode
 - srmcp/srm-copy – 3rd party transfer
- **BeStMan Full mode and dCache**
 - behaves the same way in these use cases
- **srmcp and srm-copy**
 - When source and target are SRM endpoints
 - Has Copy/PULL mode by default



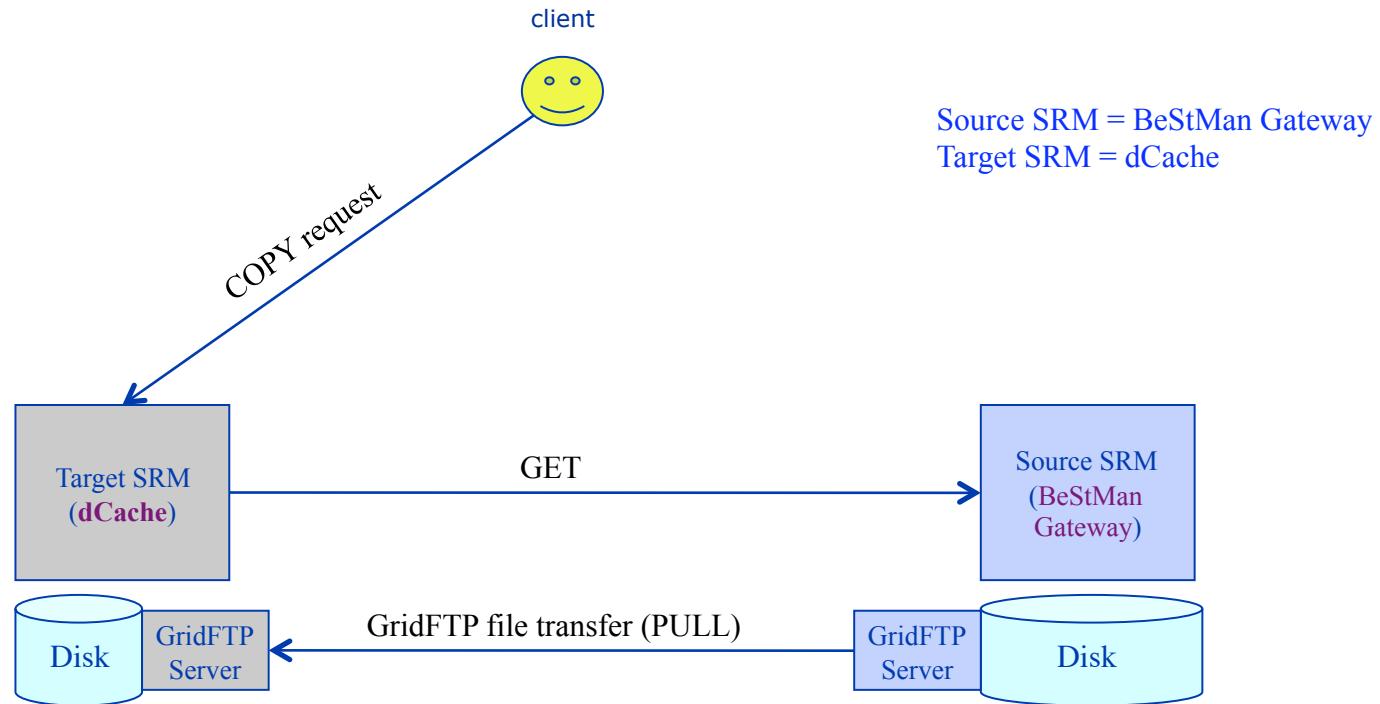
Use Case 1 – Copy/PULL



`srmcp/srm-copy srm://SOURCESRMendpoint\?SFN=/filepath srm://TARGETSRMendpoint\?SFN=/filepath`



Use Case 1.1 – Copy/PULL (BeStMan Gateway → dCache)

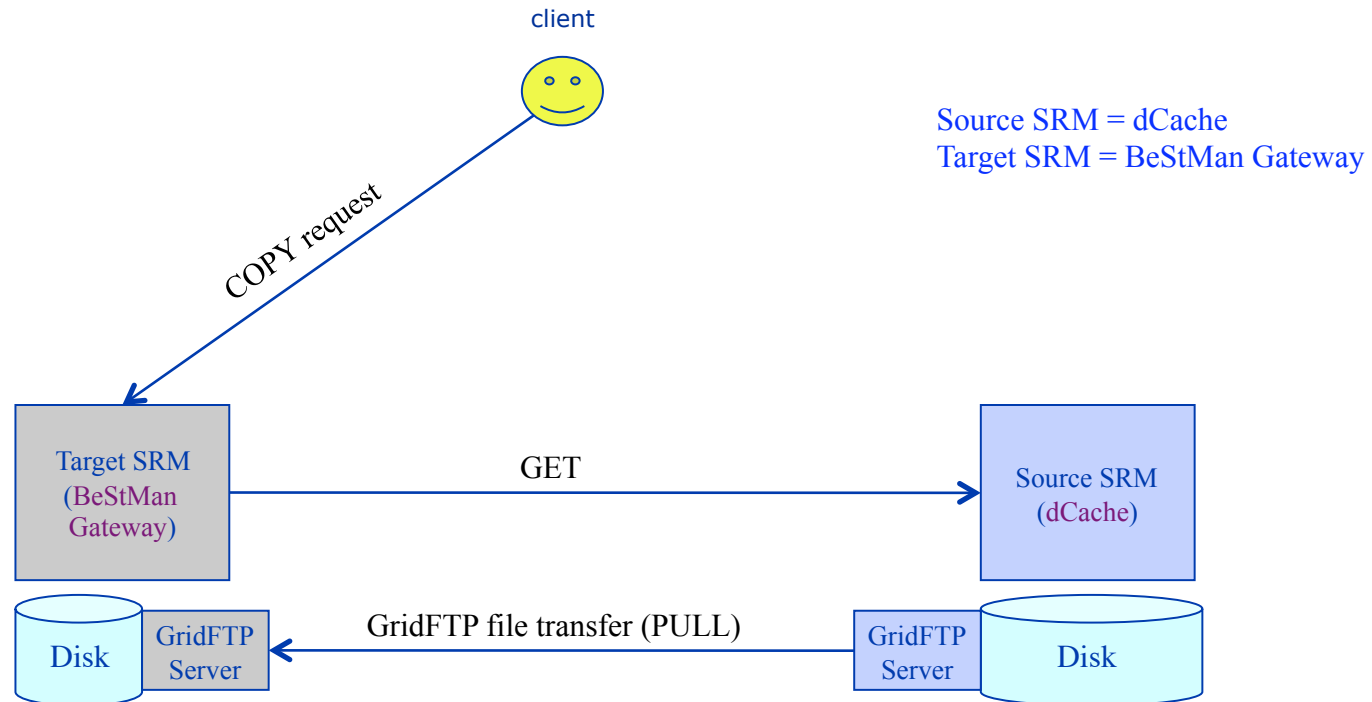


`srmcp/srm-copy srm://SOURCE:port/srm/v2/server\?SFN=/filepath srm://TARGET:port/srm/managerv2\?SFN=/filepath`

OK!



Use Case 1.2 – Copy/PULL (dCache → BeStMan Gateway)

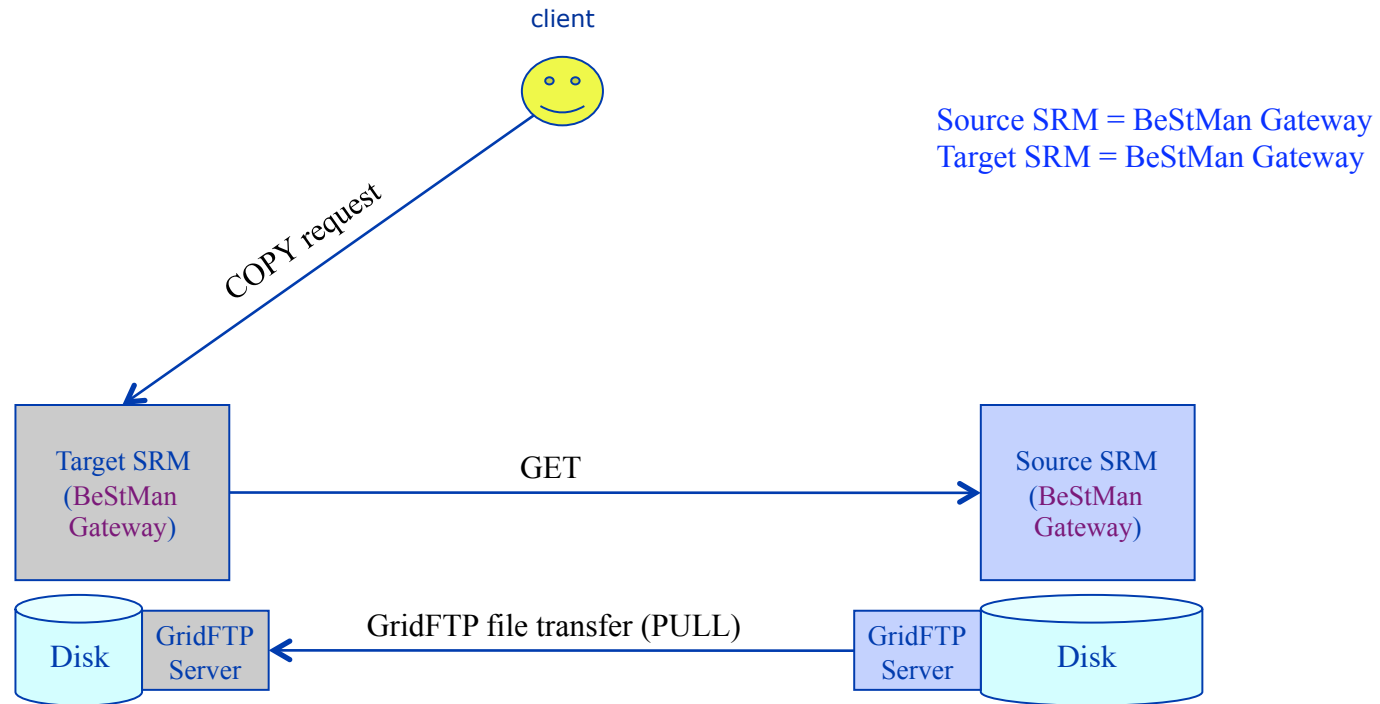


`srmcp/srm-copy srm://SOURCE:port/srm/managerv2\?SFN=/filepath srm://TARGET:port/srm/v2/server\?SFN=/filepath`

Not Working!



Use Case 1.3 – Copy/PULL (BeStMan Gateway → BeStMan Gateway)

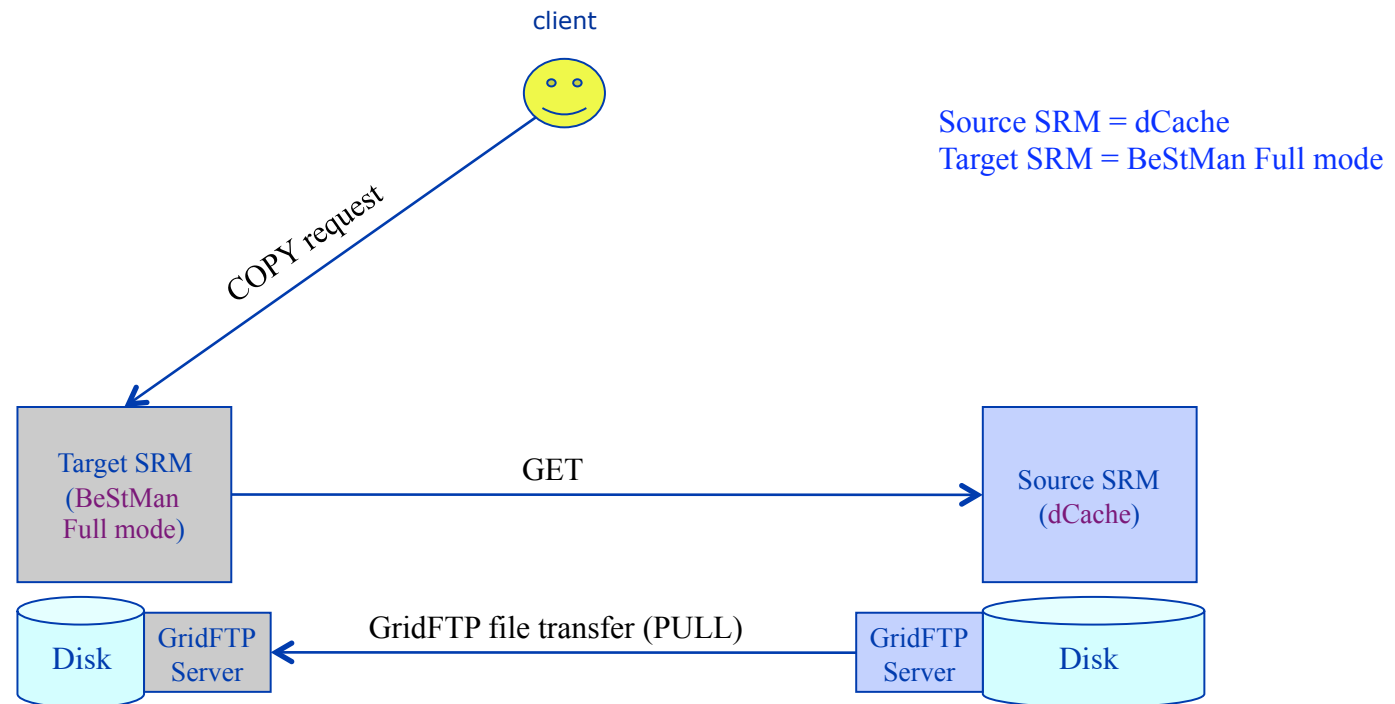


srmcp/srm-copy srm://SOURCE:port/srm/v2/server\?SFN=/filepath srm://TARGET:port/srm/v2/server\?SFN=/filepath

Not Working!



Use Case 1.4 – Copy/PULL (dCache → BeStMan Full mode)

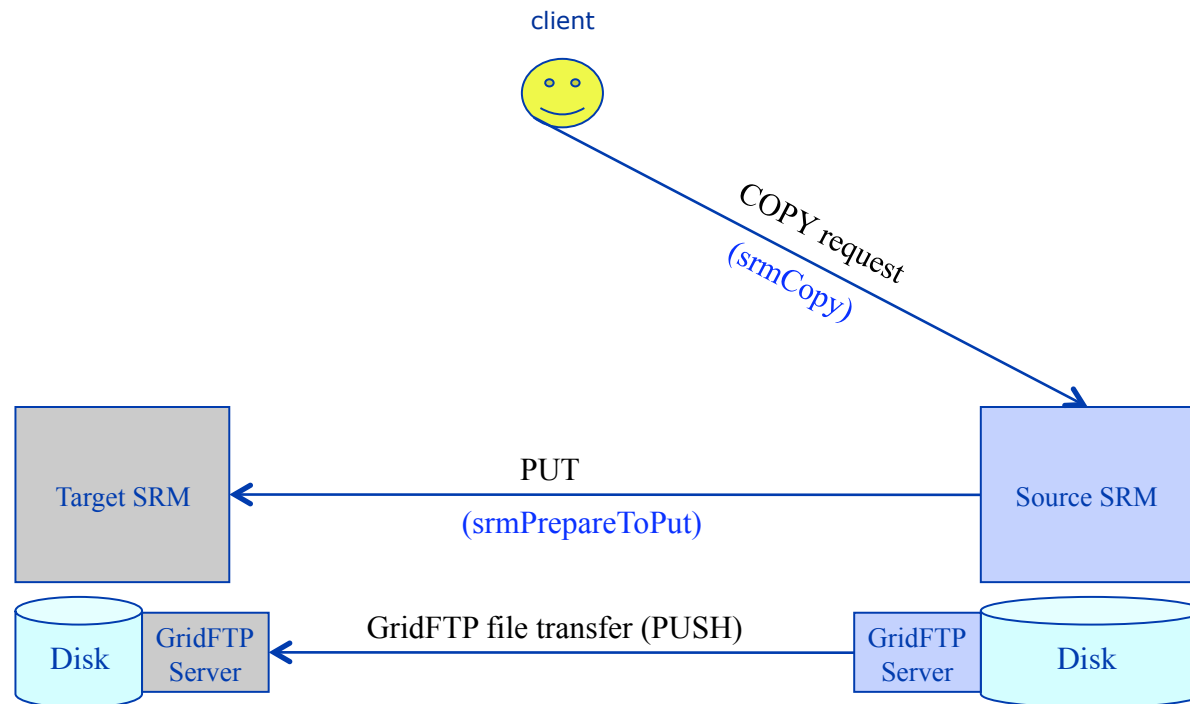


`srmcp/srm-copy srm://SOURCE:port/srm/managerv2\?SFN=/filepath srm://TARGET:port/srm/v2/server\?SFN=/filepath`

OK!



Use Case 2 – Copy/PUSH

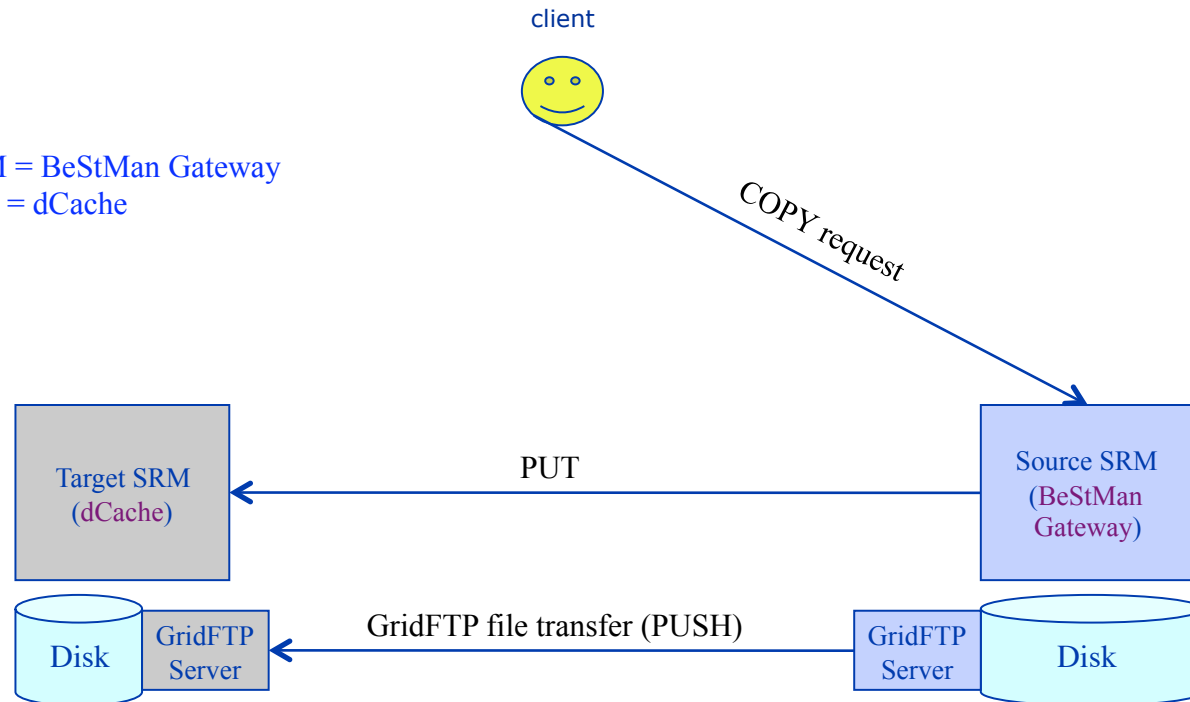


```
srm-copy srm://SOURCESRMendpoint\?SFN=/filepath srm://TARGETSRMendpoint\?SFN=/filepath -pushmode  
srmcp srm://SOURCESRMendpoint\?SFN=/filepath srm://TARGETSRMendpoint\?SFN=/filepath -pushmode=true
```




Use Case 2.1 – Copy/PUSH (BeStMan Gateway → dCache)

Source SRM = BeStMan Gateway
Target SRM = dCache



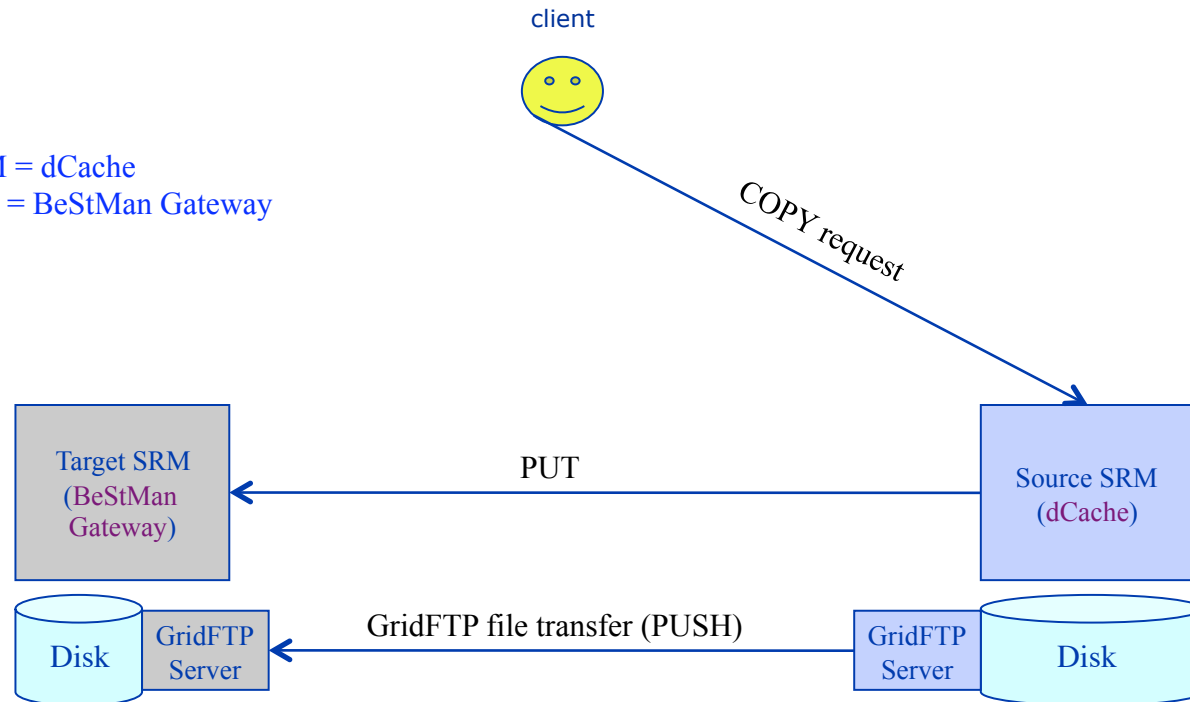
```
srm-copy srm://SOURCE:port/srm/v2/server\?SFN=/filepath srm://TARGET:port/srm/managerv2\?SFN=/filepath -pushmode  
srmcp srm://SOURCE:port/srm/v2/server\?SFN=/filepath srm://TARGET:port/srm/managerv2\?SFN=/filepath -pushmode=true
```

Not Working!



Use Case 2.2 – Copy/PUSH (dCache → BeStMan Gateway)

Source SRM = dCache
Target SRM = BeStMan Gateway

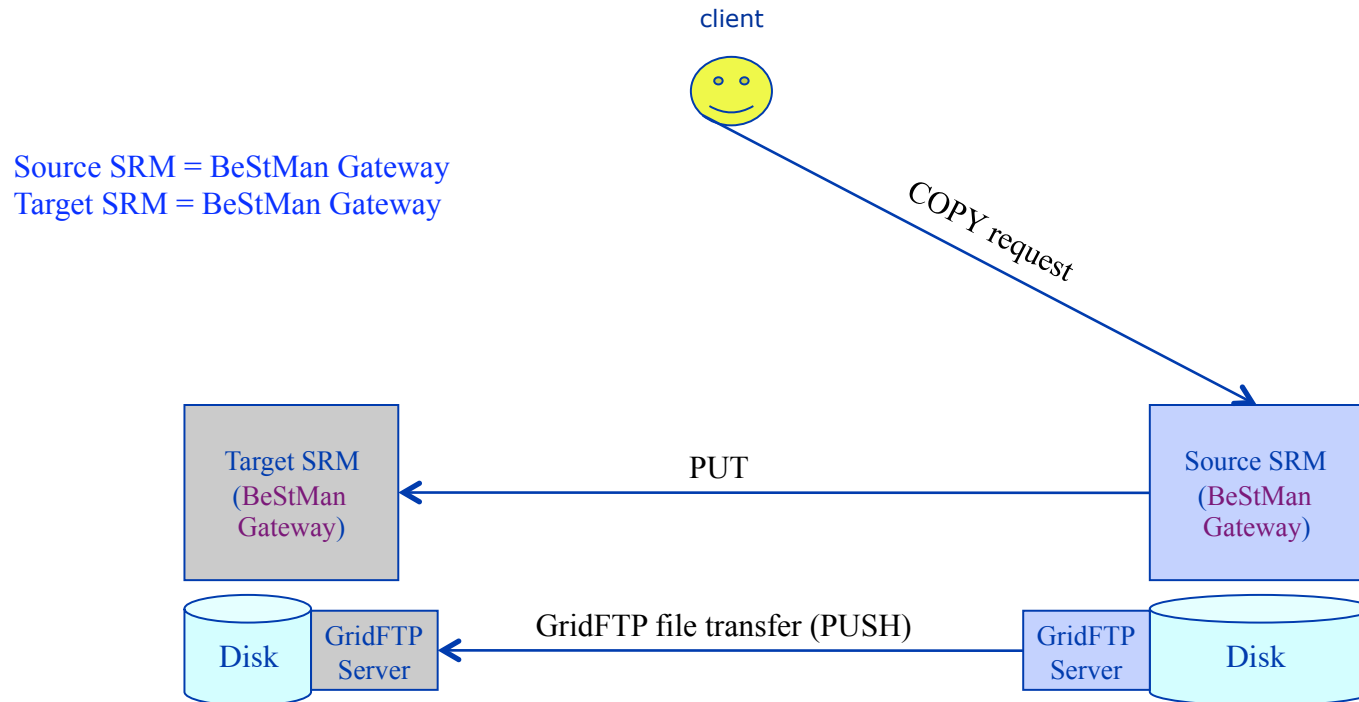


```
srm-copy srm://SOURCE:port/srm/managerv2\?SFN=/filepath srm://TARGET:port/srm/v2/server\?SFN=/filepath -pushmode  
srmcp srm://SOURCE:port/srm/managerv2\?SFN=/filepath srm://TARGET:port/srm/v2/server\?SFN=/filepath -pushmode=true
```

OK!



Use Case 2.3 – Copy/PUSH (BeStMan Gateway → BeStMan Gateway)



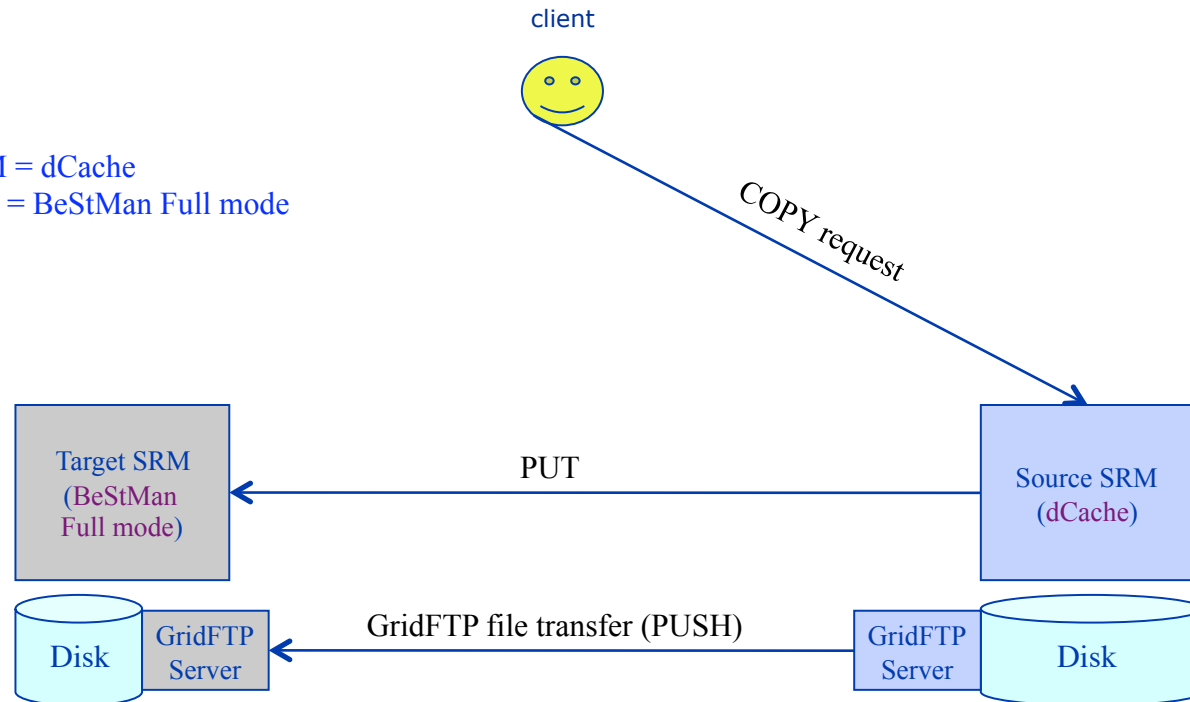
```
srm-copy srm://SOURCE:port/srm/v2/server\?SFN=/filepath srm://TARGET:port/srm/v2/server\?SFN=/filepath -pushmode  
srmcp srm://SOURCE:port/srm/v2/server\?SFN=/filepath srm://TARGET:port/srm/v2/server\?SFN=/filepath -pushmode=true
```

Not Working!



Use Case 2.4 – Copy/PUSH (dCache → BeStMan Full mode)

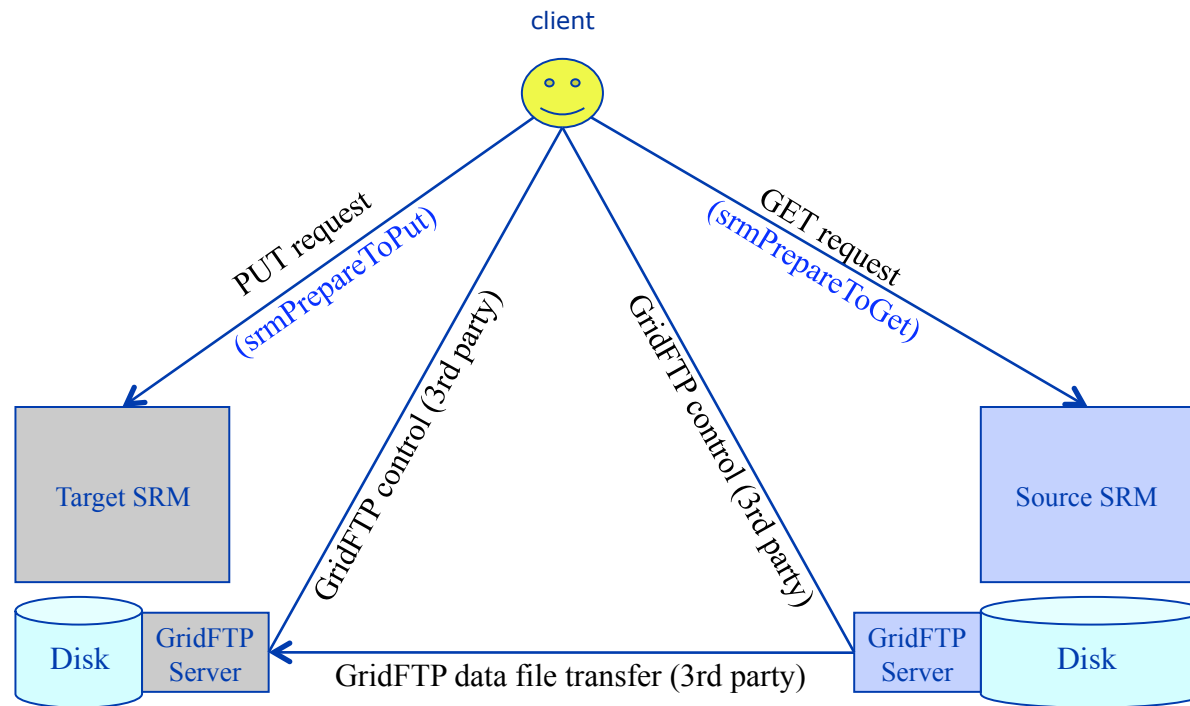
Source SRM = dCache
Target SRM = BeStMan Full mode



```
srm-copy srm://SOURCE:port/srm/managerv2\?SFN=/filepath srm://TARGET:port/srm/v2/server\?SFN=/filepath -pushmode  
srmcp srm://SOURCE:port/srm/managerv2\?SFN=/filepath srm://TARGET:port/srm/v2/server\?SFN=/filepath -pushmode=true
```

OK!

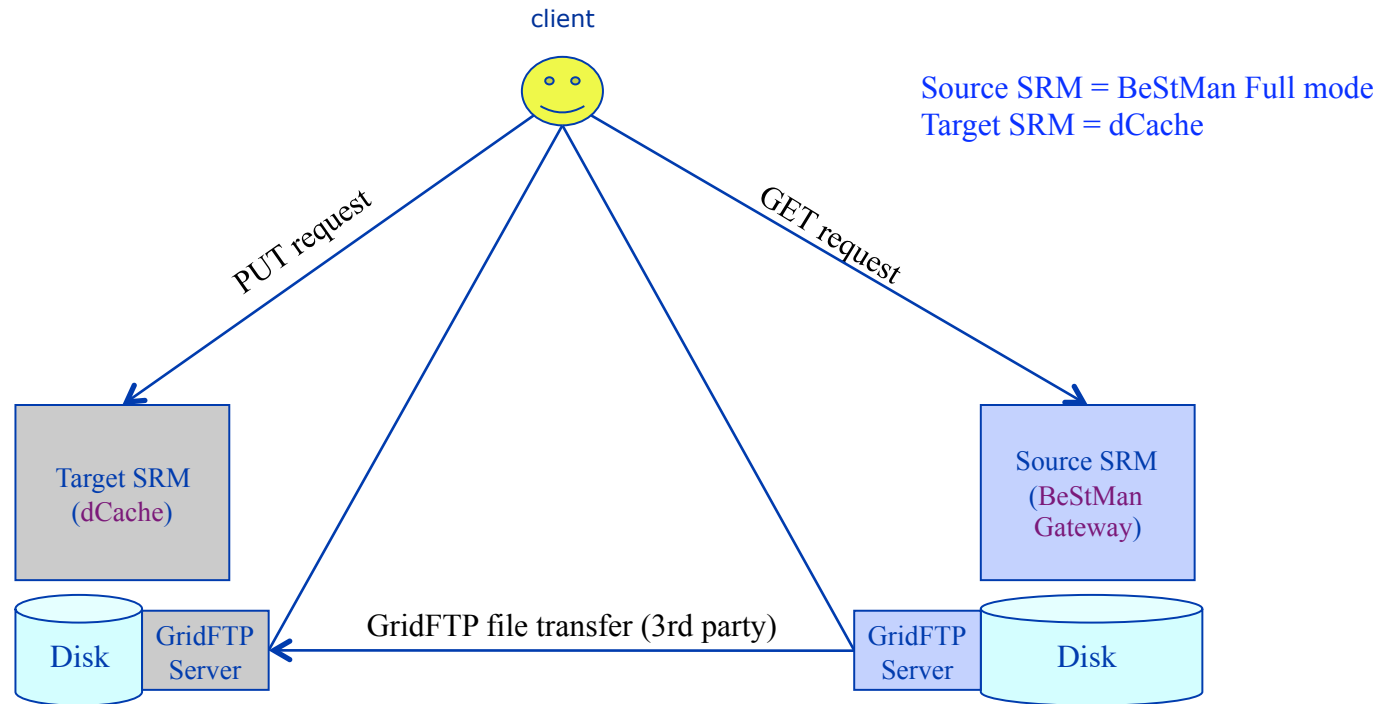
Use Case 3 – Copy/3rdParty



`srm-copy srm://SOURCESRMendpoint\?SFN=/filepath srm://TARGETSRMendpoint\?SFN=/filepath -3partycopy`



Use Case 3.1 – Copy/3rdParty (BeStMan Gateway → dCache)

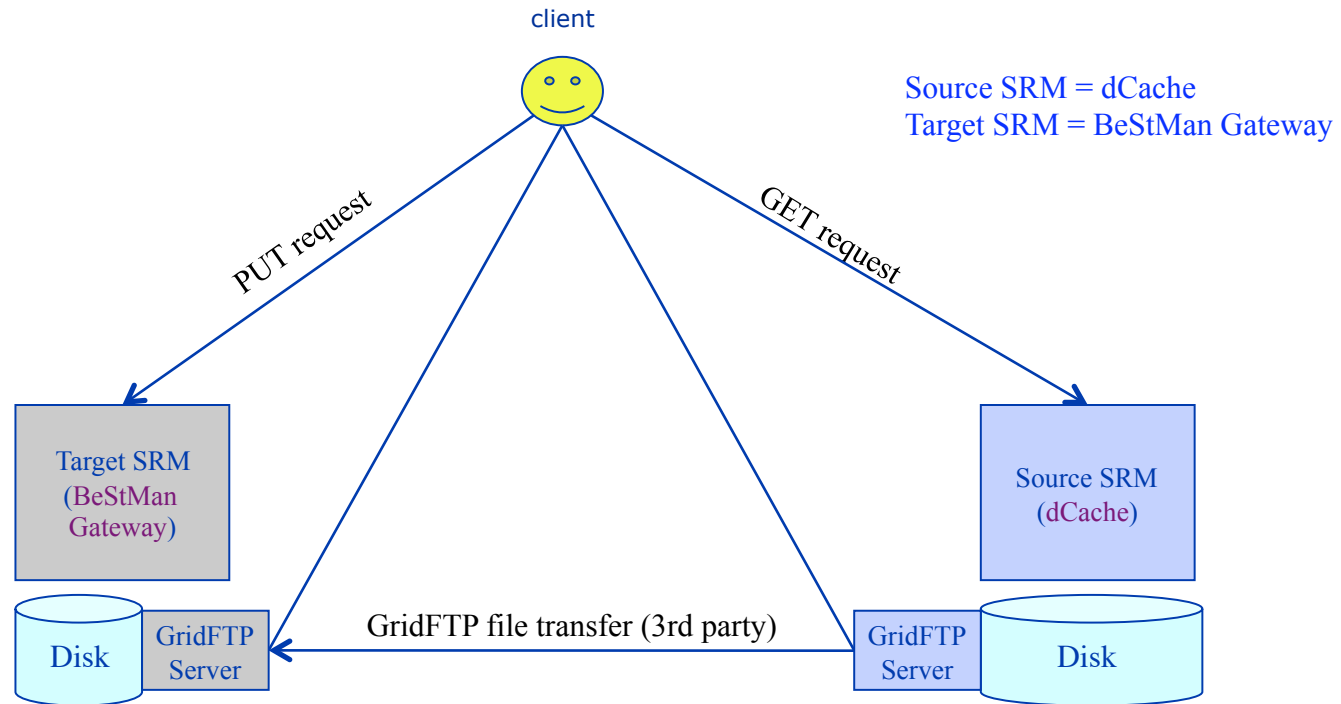


```
srm-copy srm://SOURCE:port/srm/v2/server\?SFN=/filepath srm://TARGET:port/srm/managerv2\?SFN=/filepath -3partycopy
```

OK!



Use Case 3.2 – Copy/3rdParty (dCache → BeStMan Gateway)

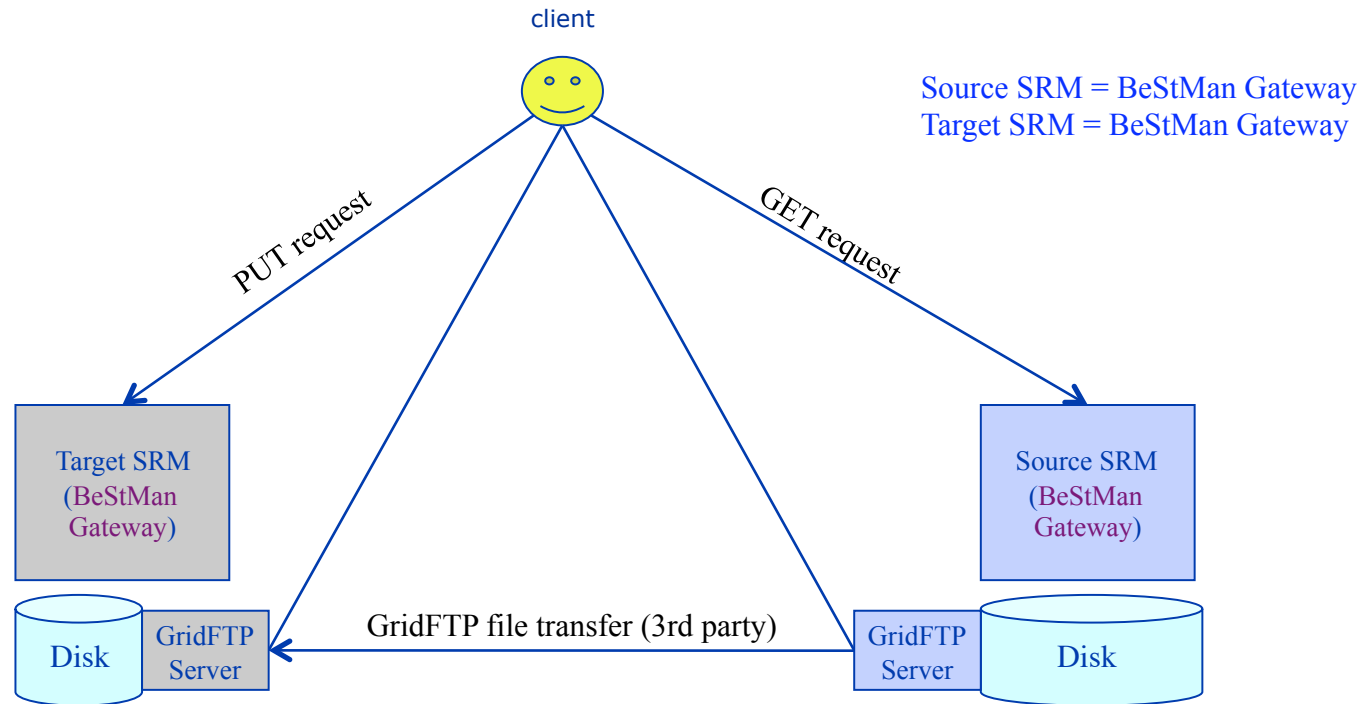


```
srm-copy srm://SOURCE:port/srm/managerv2\?SFN=/filepath srm://TARGET:port/srm/v2/server\?SFN=/filepath -3partycopy
```

OK!



Use Case 3.3 – Copy/3rdParty (BeStMan Gateway → BeStMan Gateway)

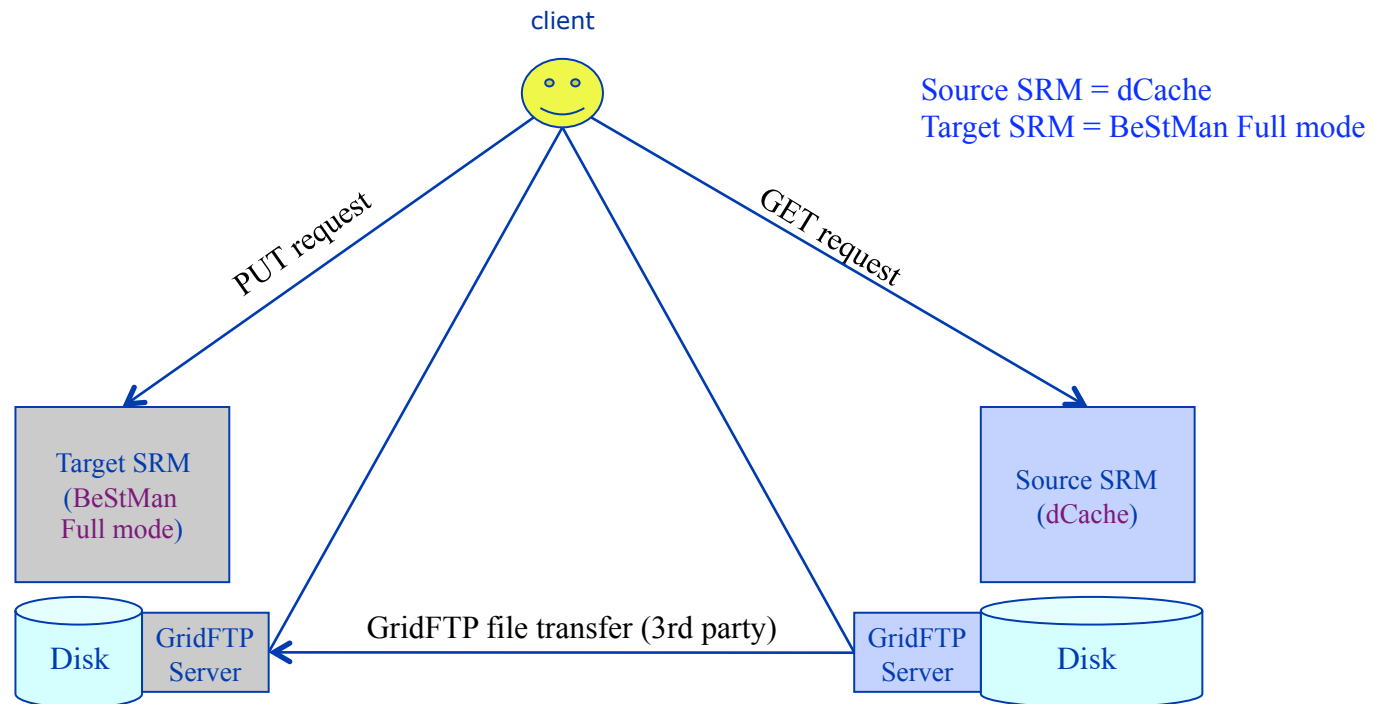


`srm-copy srm://SOURCE:port/srm/v2/server\?SFN=/filepath srm://TARGET:port/srm/v2/server\?SFN=/filepath -3partycopy`

OK!



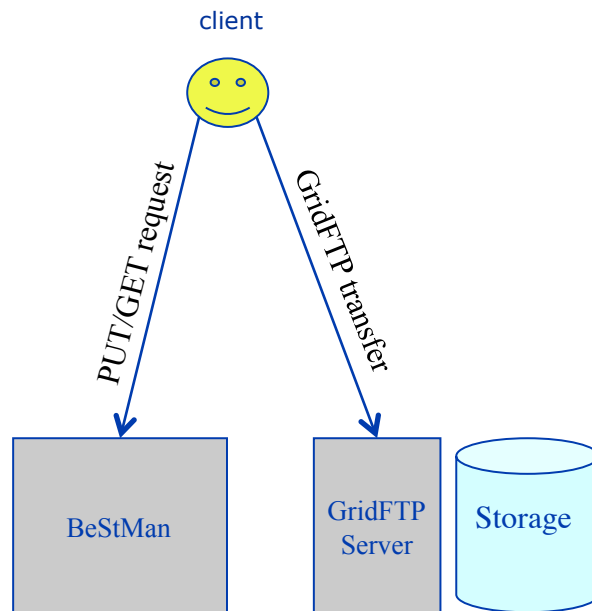
Use Case 3.4 – Copy/3rdParty (dCache → BeStMan Full mode)



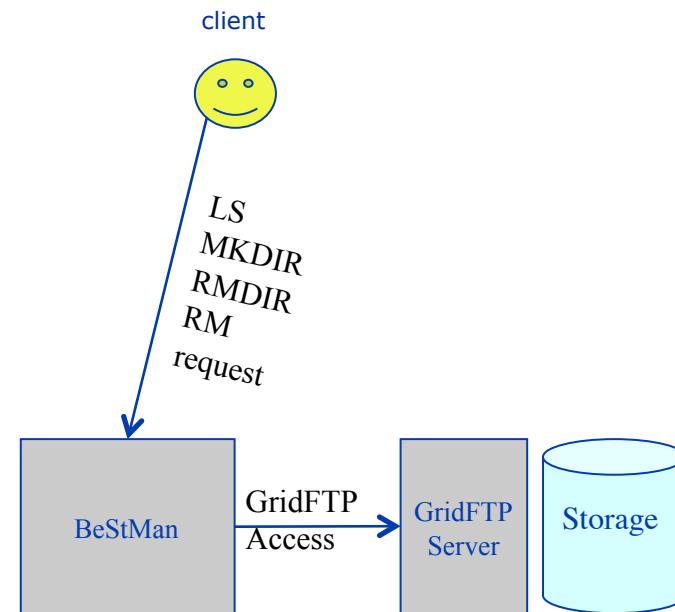
```
srm-copy srm://SOURCE:port/srm/managerv2\?SFN=/filepath srm://TARGET:port/srm/v2/server\?SFN=/filepath -3partycopy
```

OK!

Use Case 4 – BeStMan on GridFTP



OK!



Maybe!

- Requires GSI delegation
- lcg-utils: not working
- FNAL srmls: ok by default
- LBNL srm-ls: option “-delegation” required



Summary

Copy/PULL

SOURCE \ TARGET	BeStMan Gateway	BeStMan Full mode	dCache
BeStMan Gateway	NOT WORKING	OK	OK
BeStMan Full mode	NOT WORKING	OK	OK
dCache	NOT WORKING	OK	OK

Copy/PUSH

SOURCE \ TARGET	BeStMan Gateway	BeStMan Full mode	dCache
BeStMan Gateway	NOT WORKING	NOT WORKING	NOT WORKING
BeStMan Full mode	OK	OK	OK
dCache	OK	OK	OK

Copy/3rdParty

SOURCE \ TARGET	BeStMan Gateway	BeStMan Full mode	dCache
BeStMan Gateway	OK	OK	OK
BeStMan Full mode	OK	OK	OK
dCache	OK	OK	OK