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# HTTP Storage Requirements

This page tracks the required and desired functionality requested from HTTP storage, as defined by the HTTP Deployment Task Force.

We can classify these requirements in different ways, to discuss at the next meeting, but one possibility is

- A: required for the deployment of HTTP to be worth pursuing at all
- B: required for SRM-free operation of disk storage
- C: required for single-protocol (ie HTTP-only) disk storage
- D: desirable feature
- E: irrelevant

Functionality	Atlas	LHCb	dCache	DPM	EOS	StorRM	xrootd
Create, Read, Update, Delete	A	A	Y	Y	Y (GET HEAD PUT DELETE OPTIONS)	Y	Y
WebDAV (which bits?)	PROPFIND, MOVE	Partially	Partially	Y	Partially: MKCOL PROPFIND PROPPATCH COPY MOVE LOCK UNLOCK - some special header support	PROPFIND, CP, MV	Y
X509/VOMS AA	A	A	Y	Y	RFC Proxies	at VO granularity per storage area	Y
Multi-range requests	D		Y	Y	Y	Y	Y
Directory Space Reporting	C	C	N	N (planned)	custom Rest API using subtree accounting	N (planned)	Y via virtual partitioning
Calculate checksum / type	C, e.g., md5		N	Y (md5, adler32)	implicit (md5,adler32,crc32c,crc32,sha1)	Y (adler32)	Y internal
Set checksum / type	C, e.g., md5		N	N	set XS: support for custom header to preset checksum on PUT for OC - set type:Y	N (if this means setting the checksum after the transfer)	Y internal
Get checksum	C	C	Y	Y	Y (PROPFIND, custom Rest API)	Y	Y internal
3rd Party Copy Source	C	D	Y	Y	N	N	Y
3rd Party Copy Destination	C	D	N	N	N	N	Y
3rd Party Copy S3	D	D	N	Y, prototype		?N	N
3rd Party Copy gridFTP	D	D	Y	?		N	N

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ACL Management	D	D	N	N	Y (custom rest API)	N	N
Monitoring of HTTP traffic	C (network monitoring, popularity ?)	D	N(planned)	Y	Y (internal, not via xrootd)	N	Y

| Endpoint publication to BDII | C | C | Y | Y | N | Y | Y | |

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