

# Globus Toolkit End-of-Support (EoS) and its impact on dCache

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## Software that dCache team maintains:

There are four distinct packages:

- dCache (i.e., the server),
  - srm-client,
  - dcap client,
  - Nagios probes.
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## dCache – the server

- Written in pure Java – no C library dependencies (\*)
- dCache v2.14 and earlier: depends on jGlobus

By 2013 Globus had abandoned jGlobus. It is now maintained by the dCache team (+ others).

- dCache v2.15 and later: **no** Globus dependency

This is true for *entire* dCache: GridFTP (client and server), SRM (client and server), dcap server, and all crypto and certificate handling.

- Globus Toolkit EoS has **no impact** on dCache.

[\*] with the exception of CEPH integration.

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# SRM client

- Client used for interacting with SRM endpoints:
    - used in production,
    - supports namespace operations, staging, file transfers, etc...
  - Written in pure Java – no C libraries
  - v2.14 and earlier depended on jGlobus
    - jGlobus now maintained by dCache team (+ others).
  - v2.15 and later has **no** Globus dependencies
    - This is true for *all* code, including FTP and SRM transfers.
  - Globus Toolkit EoS has **no impact** on srm-client
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# dcap

- C library that provides a POSIX-like interface.
  - Structured as a core library and various “tunnel” wrapper libraries
  - Core library (no Globus dependencies)
  - “GSI tunnel” (depends on Globus Toolkit)
    - GSI tunnel is in production use at multiple sites
  - Currently evaluating how best to react; options include:
    - Join collaboration participating in supporting GT,
    - Fork GT and bundle library with GSI-dcap,
    - Port GSI code from Globus GT to caNL,
    - Drop GSI support and move to pure TLS/SSL.
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## Nagios probe

- Python scripts that support testing SRM endpoints
  - Make use of CERN supplied clients
  - Not directly affected by EoS of Globus Toolkit, provided gfal continues to work.
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## Summary

dCache unaffected.

srm-client is unaffected.

Nagios probe is not directly affected.

Support for GSI authentication in dcap is affected.

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