

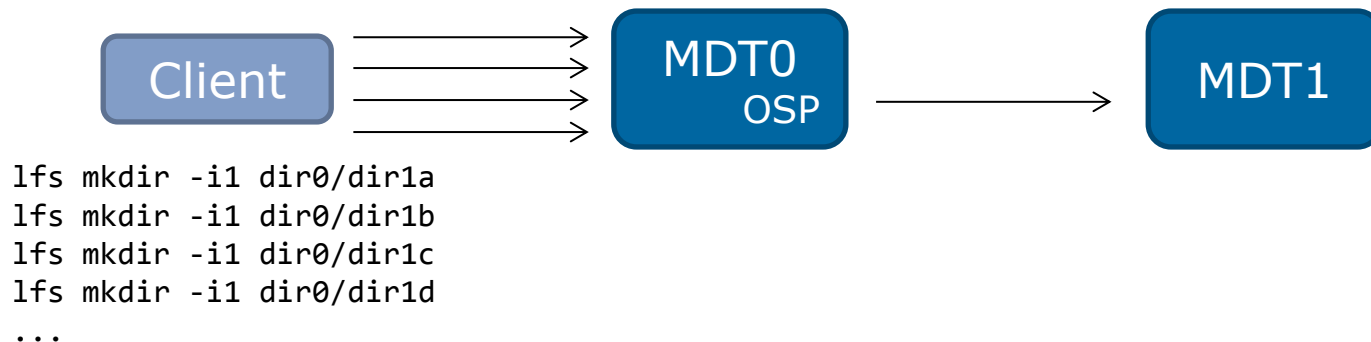
# OSP multiple modify requests to MDT

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- ▶ [LU-6864](#) "Support multiple modify RPCs in flight for MDT-MDT connection"
  - gerrit patch 14375 "osp: manage number of modify RPCs in flight"
- ▶ Implementation
  - use the same client\_obd fields than for MDC
  - call `obd_get_mod_rpc_slot()` / `obd_put_mod_rpc_slot()`
  - OSP `max_mod_rpcs_in_flight` parameter
  - OSP `modify_rpc_stats` statistics
- ▶ **How to identify modify vs. non-modify OSP requests ?**
  - currently if transaction needs sync commit (`th_sync`) or wait to submit (`th_wait_submit`) then no `rpc_lock`  
else take `rpc_lock` but no `max_rpcs_flight` control (`obd_get_request_slot()`)
  - opcode is always `OUT_UPDATE`

# OSP multiple modify requests to MDT (2)

- ▶ Cross MDT modify requests
  - remote directory operations
    - creation
    - unlink
    - any other ?
  - namespace LFCK operations
    - mostly non-modify requests
    - how to test it ?



# OSC or OSP multiple modify requests to OST

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*Following information come from discussions that occurred during LU-5319 development. It needs to be confirmed.*

- ▶ LAST\_RCVD is currently not used for OSTs
  - performance more important than correctness of data
- ▶ OSC modify operations are not all idempotent
  - lockless IO
  - attribute set
- ▶ OSP requests for layout LFSCK