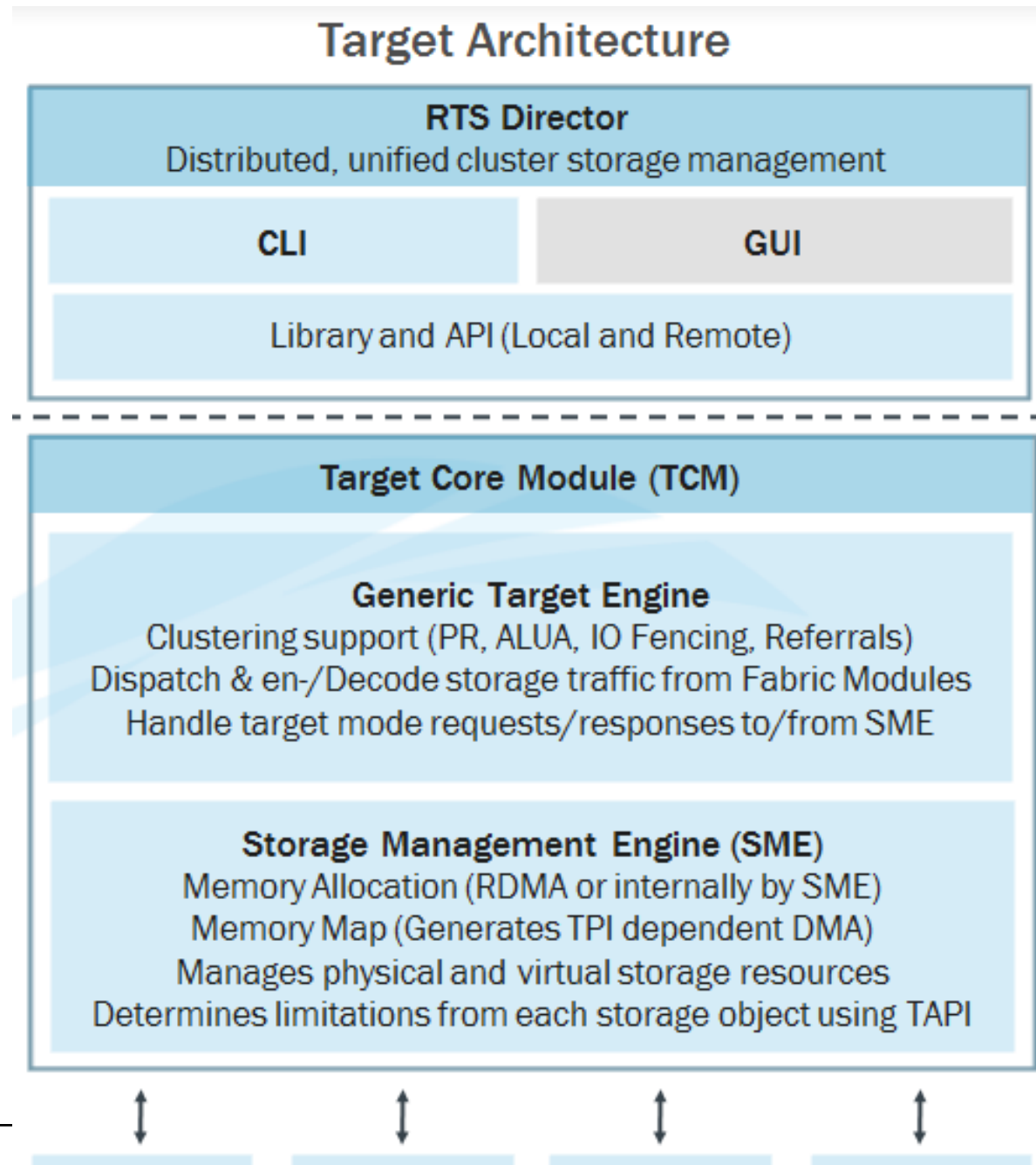


target_core_mod.ko aka Comstar for Linux

Michael Fuckner <michael@fuckner.net>

For HHOSUG #15 (May 17th 2011)

LIO_Architecture



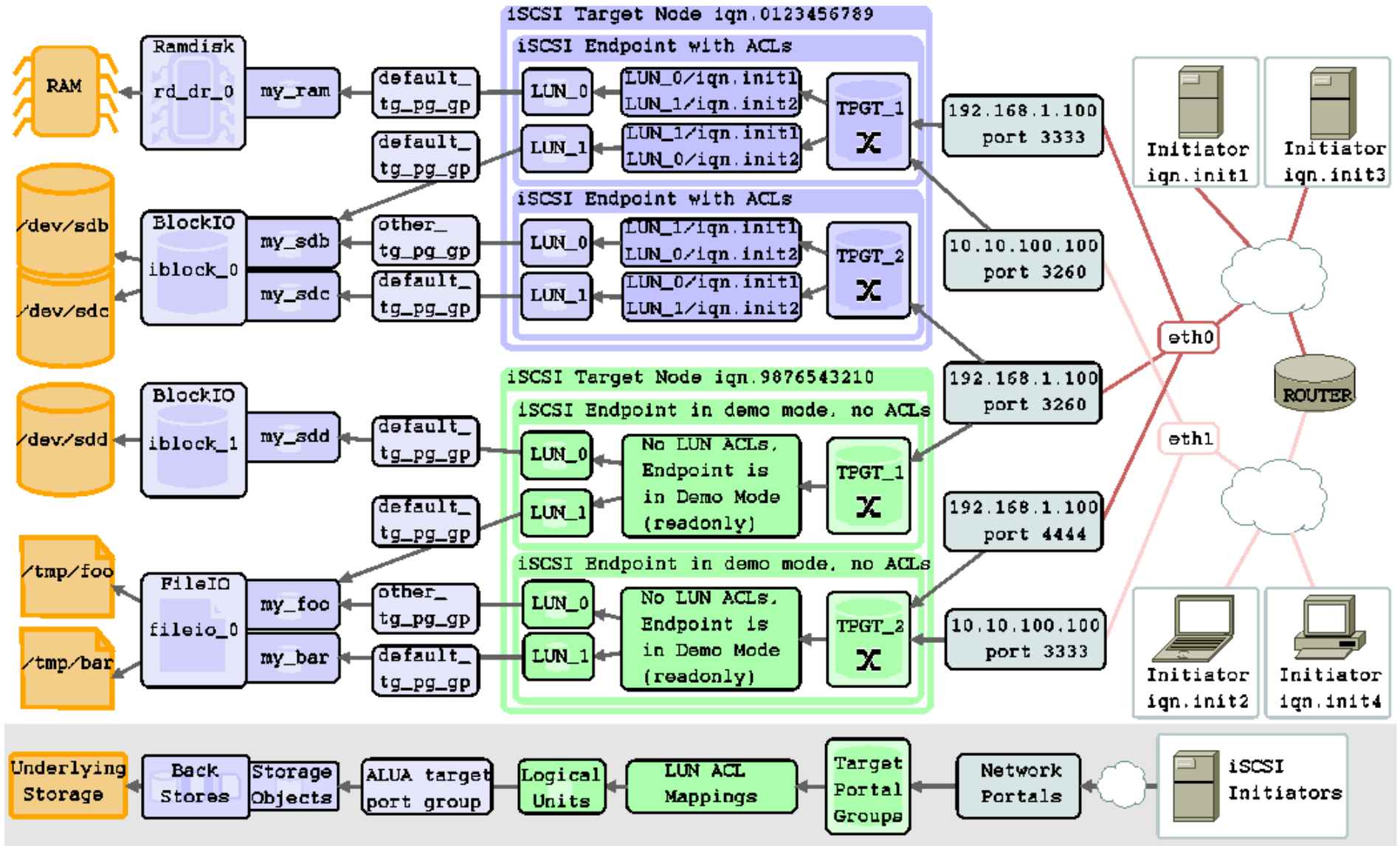
Comparison LIO vs Comstar

- projects started 2007
 - Lio: Mar 15th
 - Comstar: Nov

- Storage engines:
 - both: file, block, sw-raid, raw
 - LIO: pscsi, ramdisk

- Fabric Modules:
 - both: iscsi, fcoe, ib, sas
 - LIO: loop

LIO_iSCSI_Architecture



Who develops TCM

[0.33] molli123@chuck:~ > host linux-iscsi.org

linux-iscsi.org has address 67.23.28.174

linux-iscsi.org mail is handled by 10 mail.linux-iscsi.org.

[0.43] molli123@chuck:~ > host risingtidesystems.com

risingtidesystems.com has address 67.23.28.174

risingtidesystems.com mail is handled by 10 mail.risingtidesystems.com.

Current State in Linux (2.6.38)

- STGT was replaced by LIO in 2.6.38
 - target_core_mod.ko

- Backends
 - File (target_core_file.ko)
 - Block (target_core_iblock.ko)
 - SCSI (target_core_pscsi.ko)
 - iSCSI (target_core_stgt.ko)

- No fabric module available

Future

- 2.6.39 (2011-05-19)
 - Loop (tcm_loop.ko)
- 2.6.40
 - iSCSI (iscsi_target_mod.ko)
 - FCoE (tcm_fc.ko)
 - FC Qlogic (tcm_qla2xxx.ko)
 - IBM vSCSI (ibmvscsis.ko)
- 2.6.41
 - Mellanox IB (tcm_ib_srpt.ko)
 - Advanced SCSI Features

- New release every 3 months

Tools

- lio-utils is a simple user-space shell that was used to setup LIO 3. It is now deprecated.

- RTSadmin is the single-node Target management tool by RisingTide Systems
 - can be downloaded from <http://www.risingtidesystems.com/git/>

rtsadmin (git from 2011-05-23)

```
test105:~ # rtsadmin
```

```
Welcome to the RTSAdmin Community Edition CLI.
```

```
Copyright (c) 2011 by RisingTide Systems LLC.
```

```
Visit us at http://www.risingtidesystems.com.
```

```
/> create target
```

```
Command not found create
```

```
/> help
```

```
Command not found help
```

```
/> version
```

```
Running rtsadmin version GIT_VERSION
```

```
Using rtslib version GIT_VERSION
```

```
Using configshell version GIT_VERSION
```

```
/>
```

Conclusion

Links

- <http://linux-iscsi.org/wiki/STGT>
- <http://www.risingtidesystems.com/git/>