GzOS Introduction

Open Trust Group

Update: 09/02/2018

Quick Start Guide

```
$ curl -s https://raw.githubusercontent.com/OpenTrustGroup/scripts/gzos/bootstrap | bash -s gzos stable

$ cd gzos_stable

$ fx clean-build gztee

$ fx run-qemu  (Press 'c' to continue booting system)
```
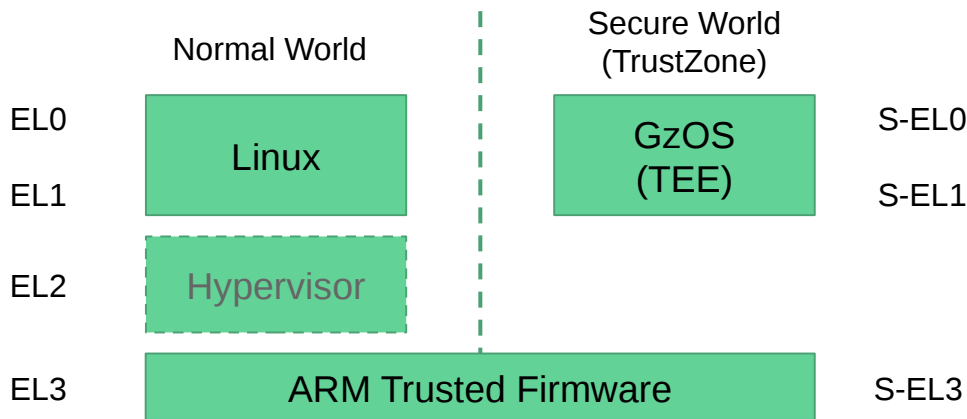
https://github.com/OpenTrustGroup/docs/blob/master/gzos/getting_started.md

Brief Introduction

- An open-source TEE OS developed by Open Trust Group
- Licensed with MIT, BSD, Apache, … (non-GPL license)
- Derived from Fuchsia (Garnet Layer + Zircon Core Platform)
- Supported ARMv8-A TrustZone
- Can be developed on QEMU virtual platform

	Normal World		Secure World (TrustZone)	
EL0	Linux		GzOS (TEE)	S-EL0
EL1				S-EL1
EL2	Hypervisor			
EL3	ARM Trusted Firmware			S-EL3

Why Fuchsia?

- Microkernel architecture + Capability-based security model
- A general purpose OS but easy to be tailored for a small system
  - Note: The scale of system RAM requirement is MB, not KB
- Good software quality
- Non-GPL license

GzOS Software Architecture

https://github.com/OpenTrustGroup/docs/blob/master/gzos/system_arch.md
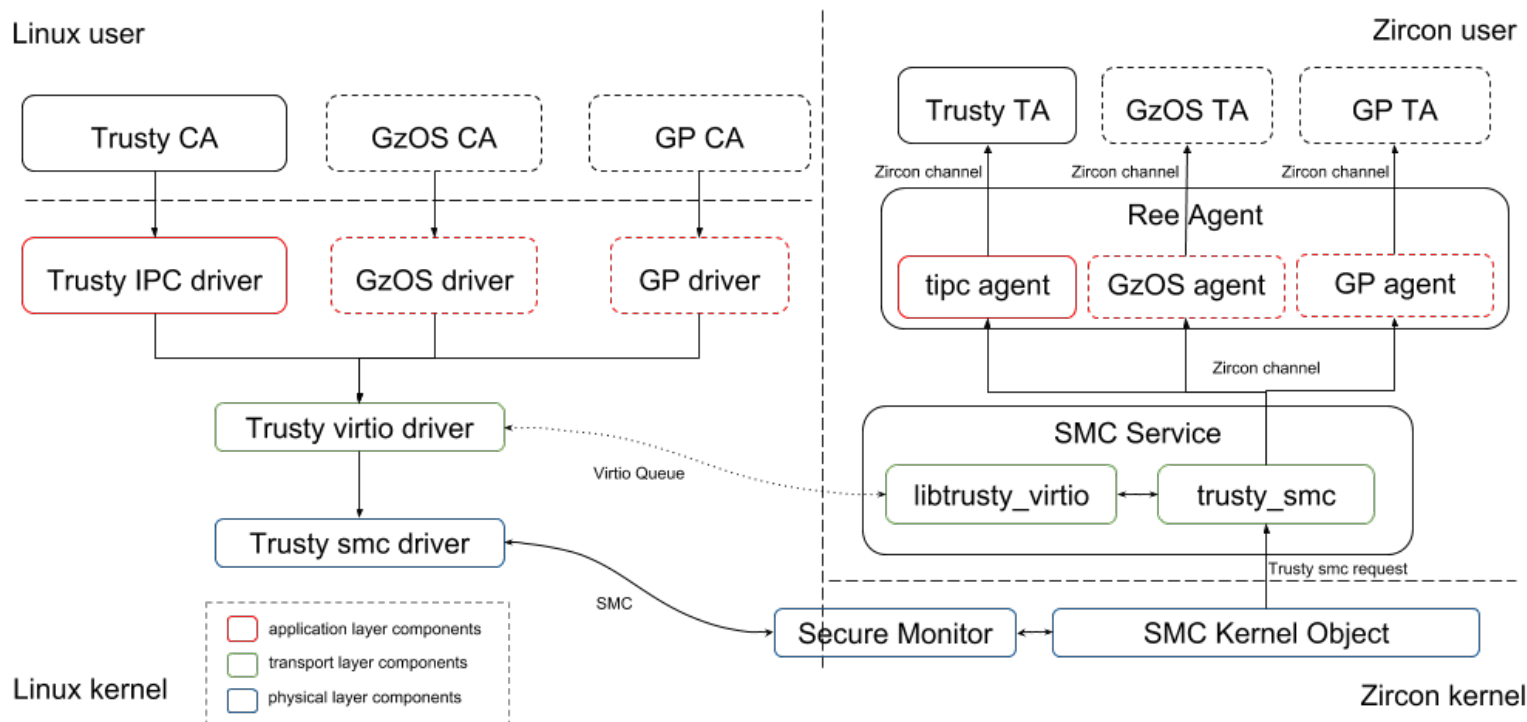
GzOS Status ([ChangeLog](#))

- v0.1.0 released (2018-08-14)
  - Supported Trusty API by default
  - Supported on-demand TA loading
- v0.2.0 (under development)
  - Support GzOS proprietary API for CA to TA and TA to TA IPC
  - Support loading TA images from REE filesystem

Reference

- GitHub

- Document

- Web Site