# Getting Started with OSK's

# Research & Development

These are a collection of notes that will be transformed into a document in OSK v3.2

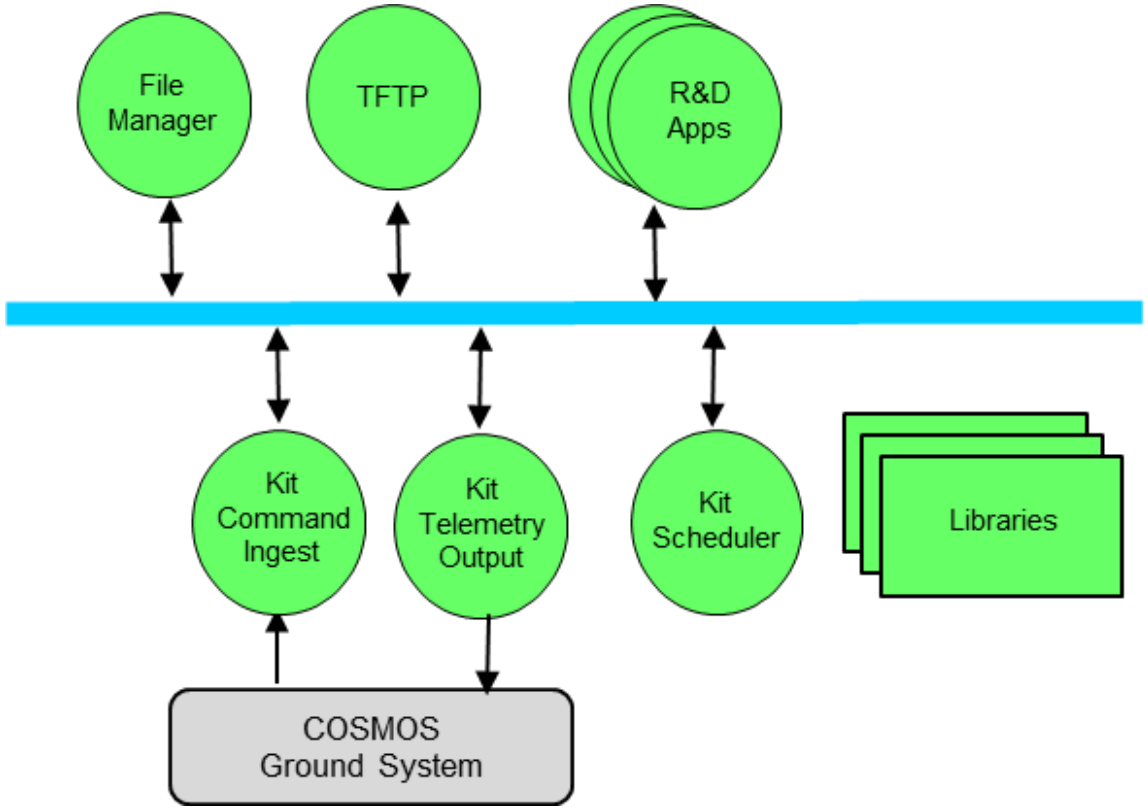
OSK v3.1

# Introduction

- The Research & Development target (cFS sandbox target) contains the following types OSK apps
  - Technology apps that don't belong in other OSK targets but may be of value to the cFS community
  - Prototype apps that are in various states of maturity
- Users can use this target for exploratory efforts without disturbing other OSK targets

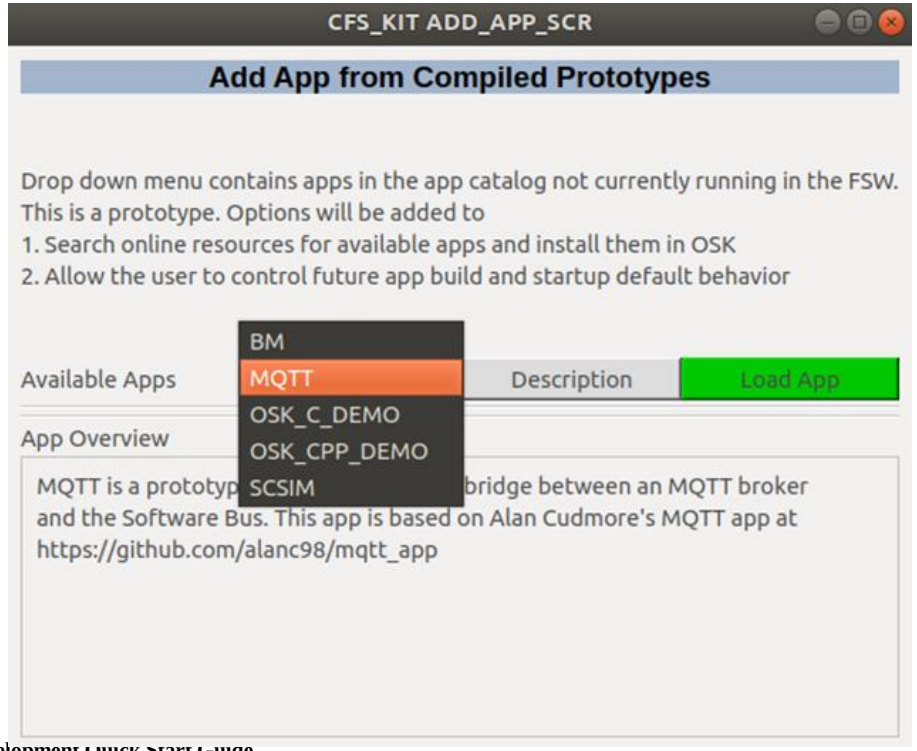
# cFS R&D Target

- Baseline target contains minimal set of OSK apps that provide an app runtime environment and file services



# R&D App Library

- **Contains OSK apps that are not part of another target, that may be useful to the cFS community**
- **OSK supports adding/removing apps during runtime**
  - Prototyping concepts for a cFS "app store"




- **Good environment to create STEM related apps that don't require the complexity of SimSat**

  **BM** – Runs performance benchmarks

  **MQTT** – Publish MQTT messages on cFE message bus

  **SCSIM** – Simulate spacecraft ground passes

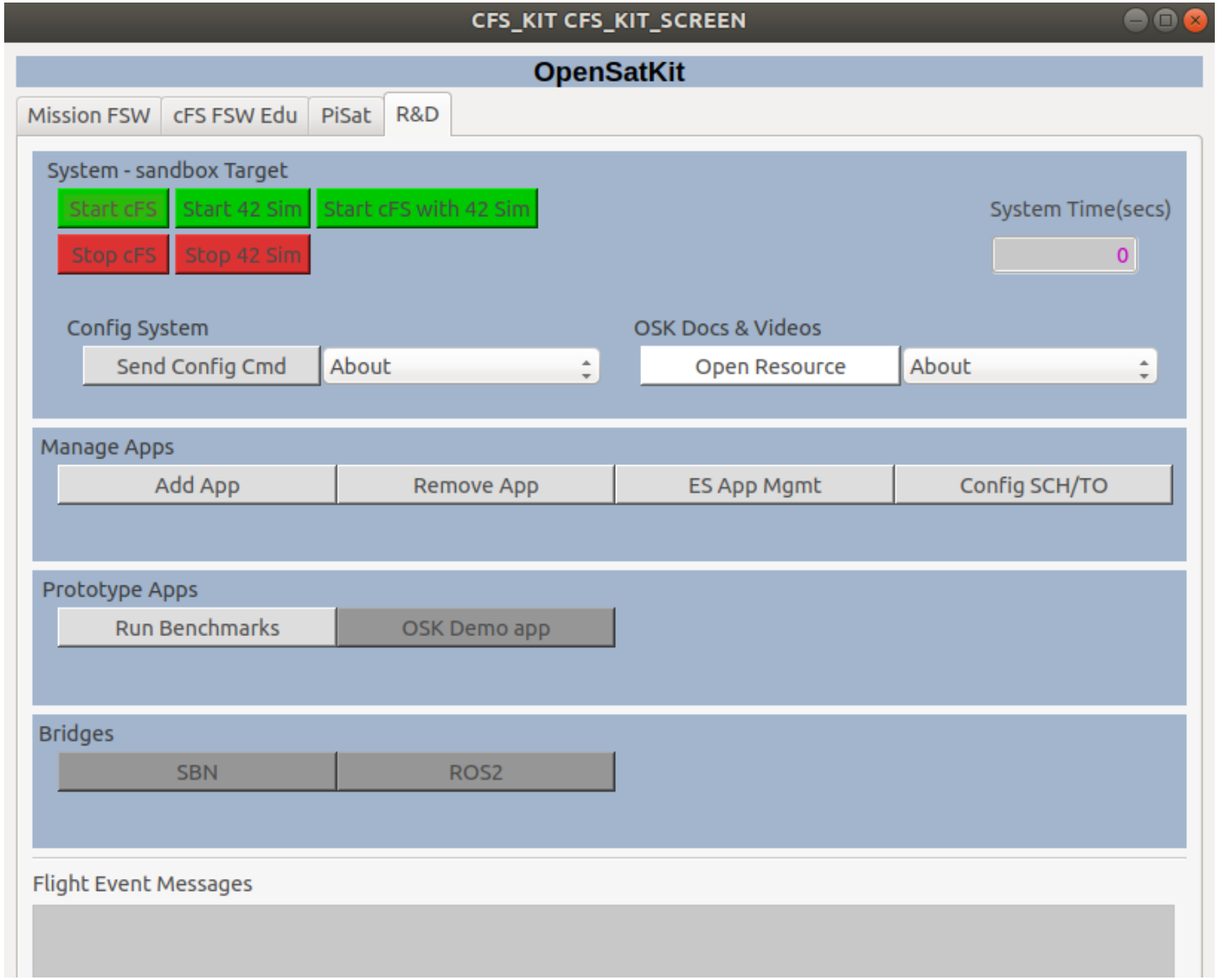
# OSK Main Screen

Same as Mission FSW System Sections →

Dynamically Manage Apps →

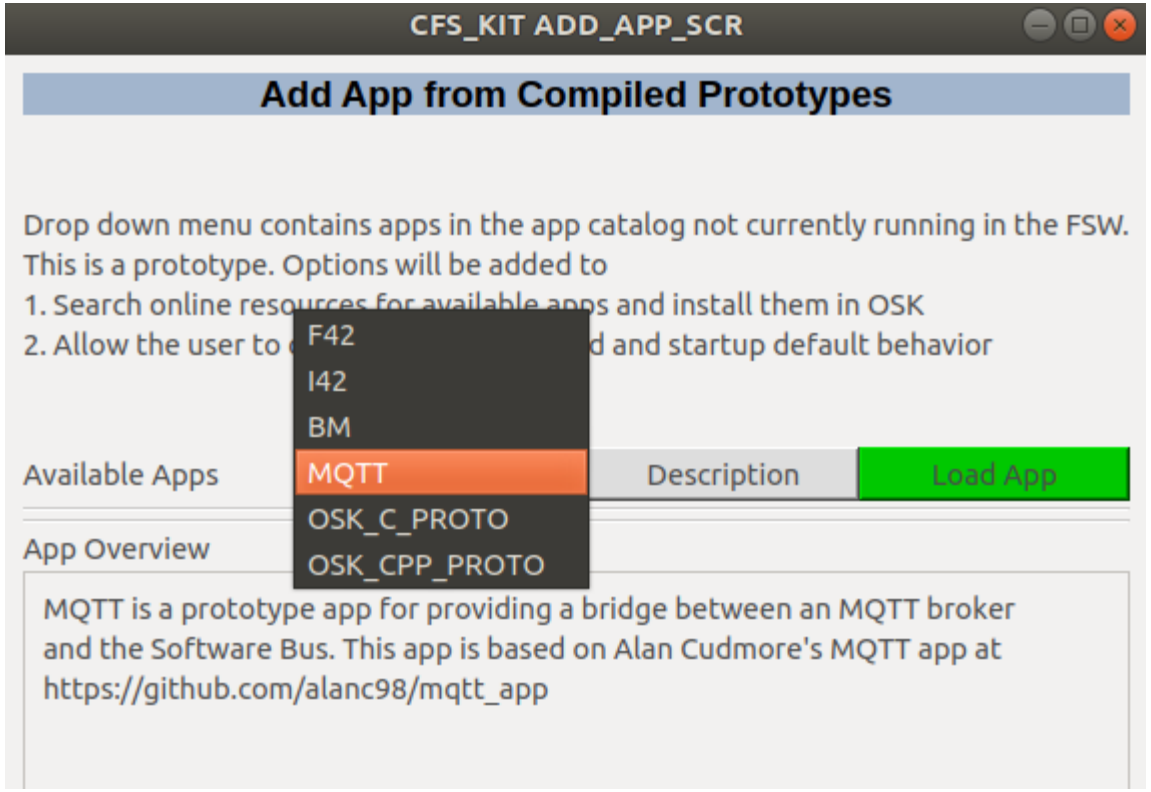
Technology Apps with OSK interfaces →

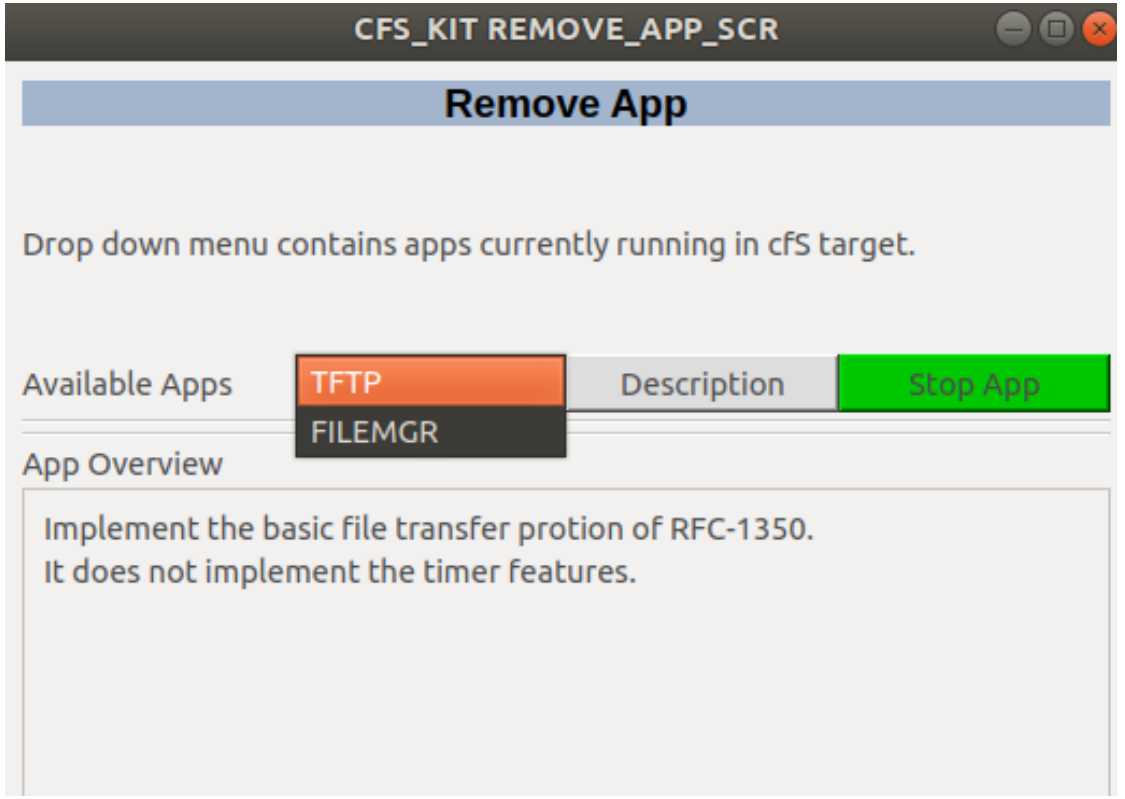
Potential OSK Extensions →



# Dynamically Manage Apps

- **Drop down app list created when screen launched**
  - Add app list created by analyzing which apps compiled during sandbox build and which apps are currently running
  - Remove app list created from currently running apps



# Adding a New R&D App

- Create the new app in <osk>/cfs/apps
- Add app to sandbox target in targets.cmake and if needed any files that need to be copied from osk_defs to /cf directory
- Create COSMOS target