

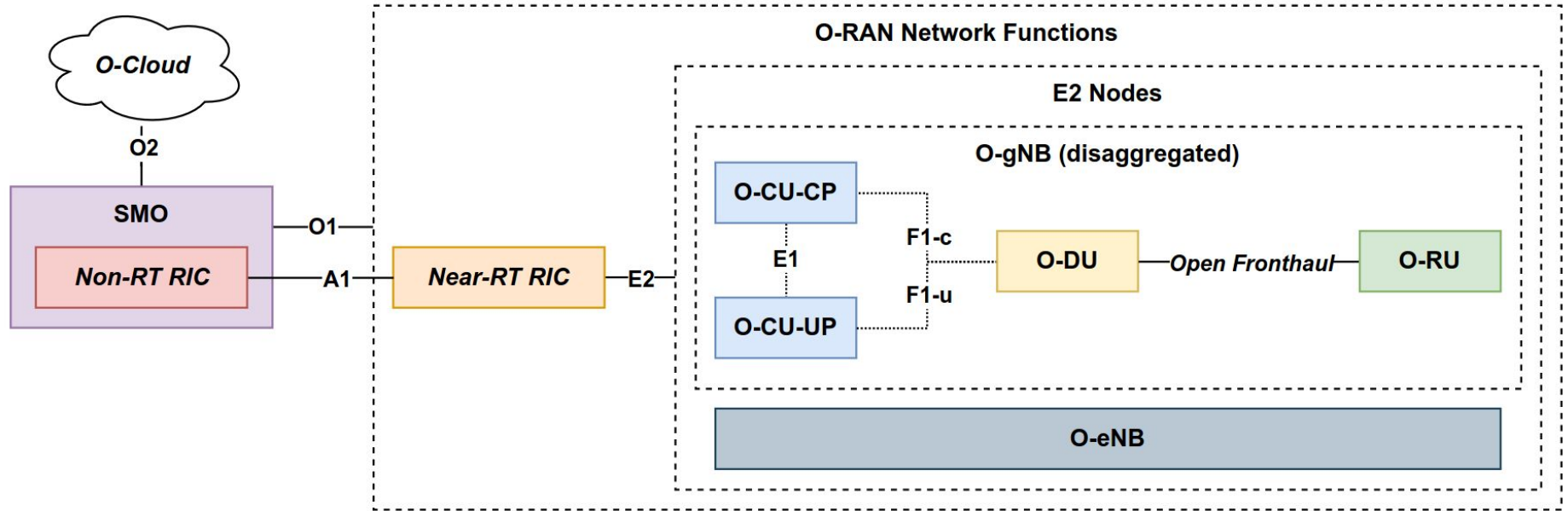
Workshop: Writing Python xApps for OSC's Platform

Daniel “Dante” Campos

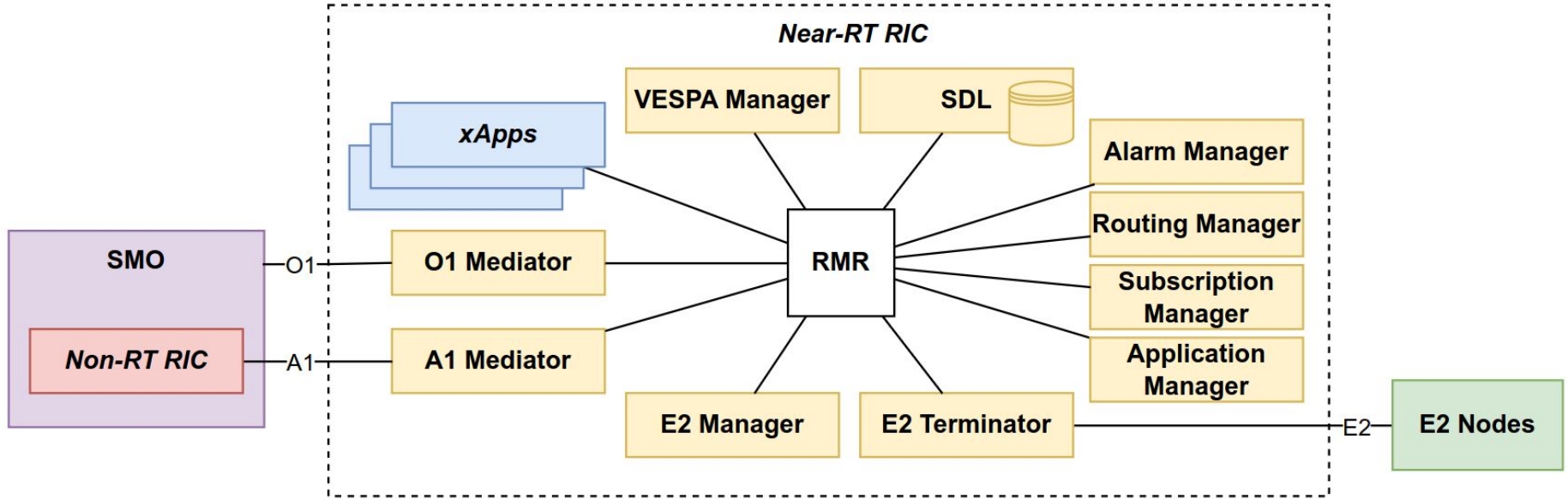
Agenda

- Class 1: Managing, checking, and configuring xApps
 - O-RAN architecture
 - OSC's Near-RT RIC architecture
 - Common xApp endpoints
 - xApp deployment workflow
 - Class 1 xApp
 - Practical exercises
- Class 2: xApp overview, logging, SDL, and REST
- Class 3: RMR communication and E2 Nodes subscription

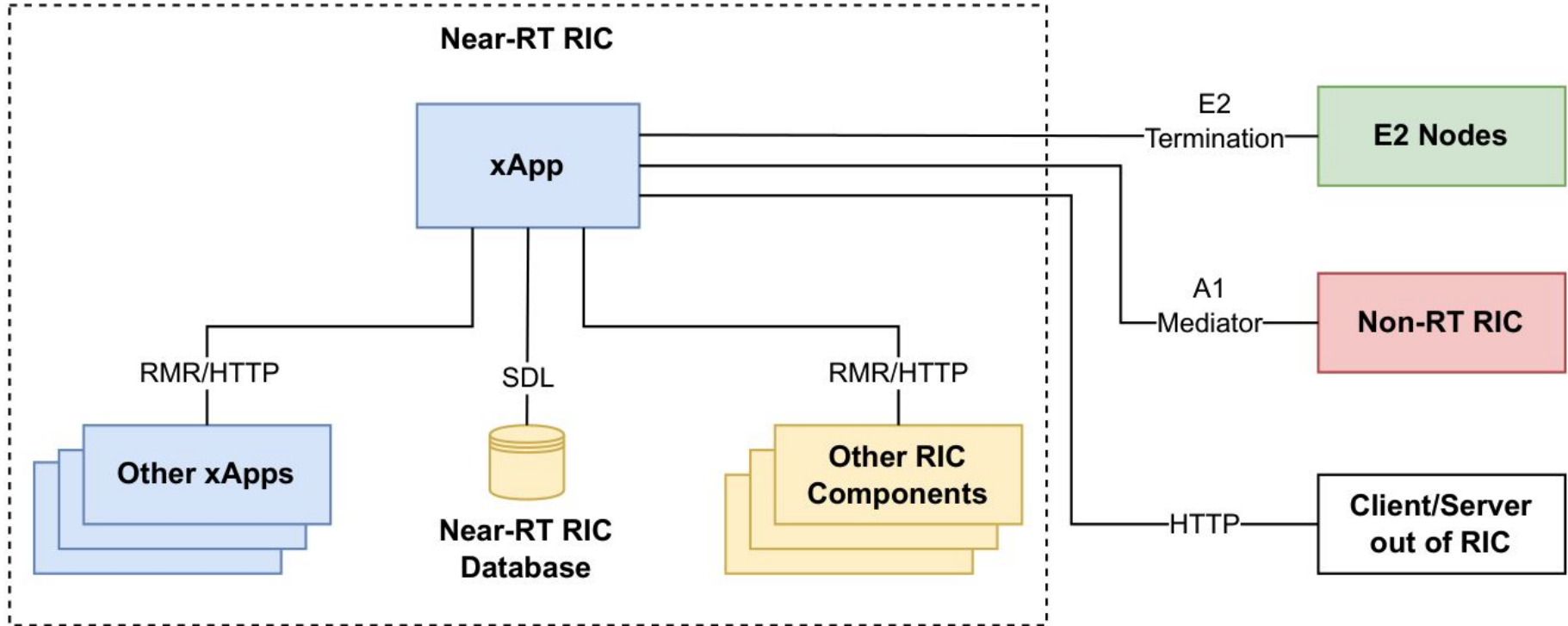
O-RAN architecture



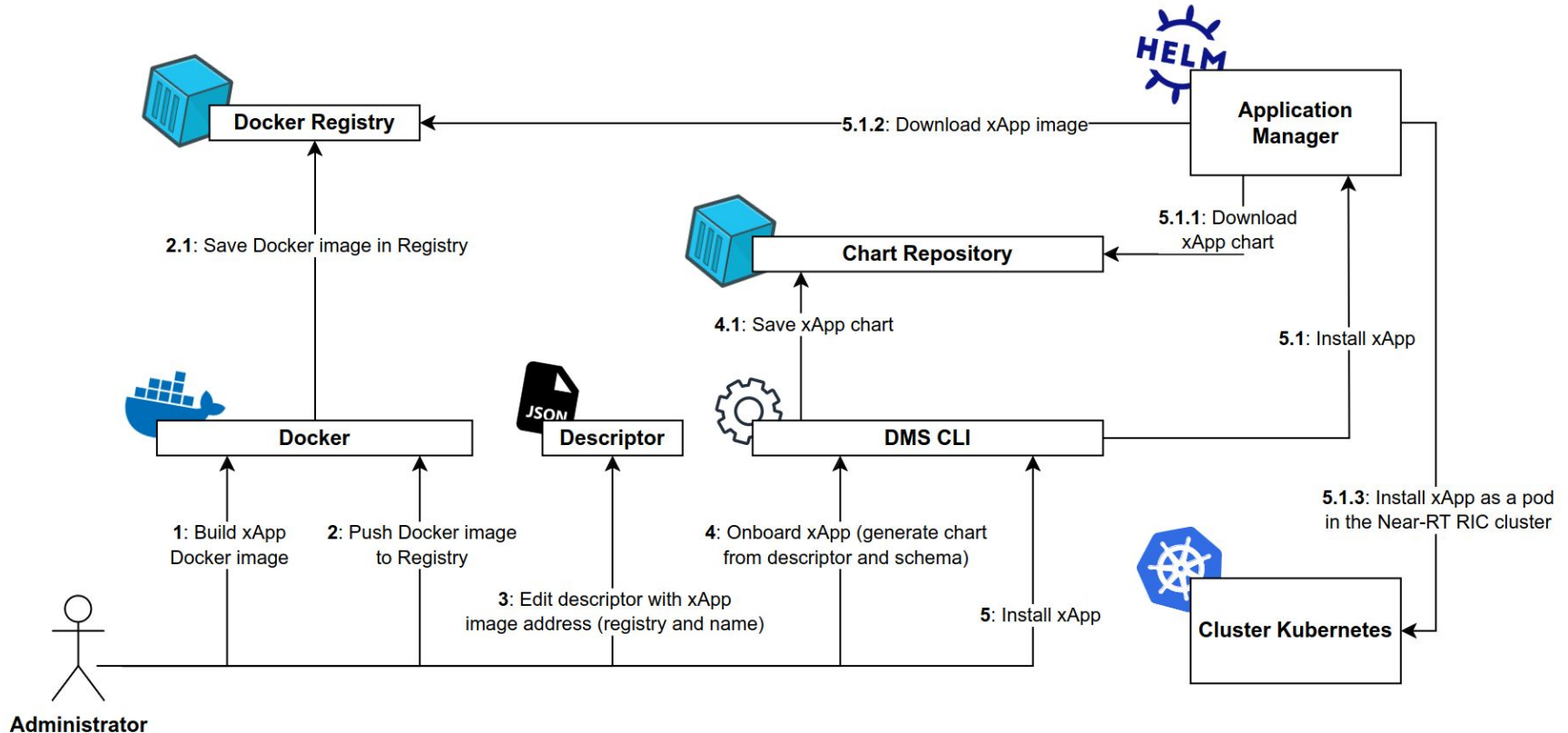
OSC's Near-RT RIC architecture



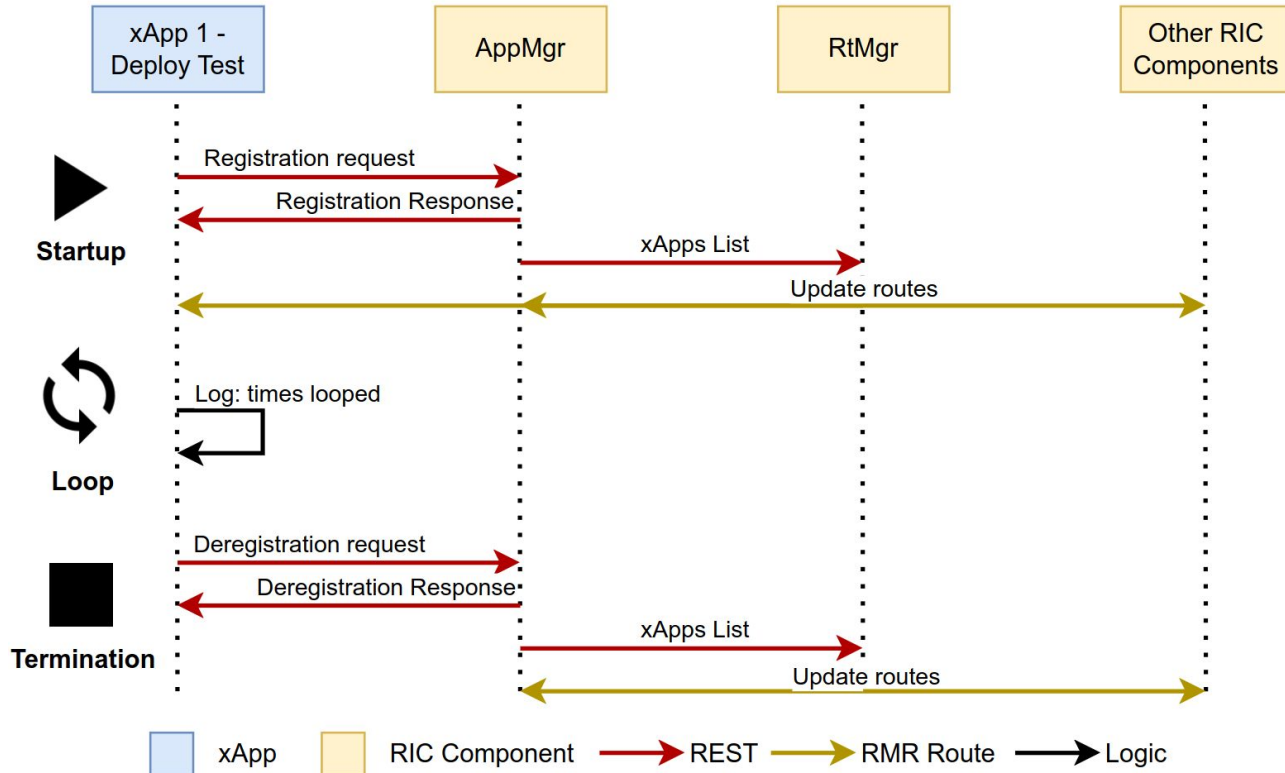
Common xApp endpoints



xApp deployment workflow



Class 1 xApp



References

OSC's xApp writer's guide v2:

https://wiki.o-ran-sc.org/download/attachments/17269011/xApp_Writer_s_Guide_v2.pdf?version=4&modificationDate=1625642899082&api=v2

OSC's Python xApp Framework: <https://pypi.org/project/ricxappframe/>

Polese, Michele, et al. **"Understanding O-RAN: Architecture, interfaces, algorithms, security, and research challenges."** IEEE Communications Surveys & Tutorials 25.2 (2023): 1376-1411.