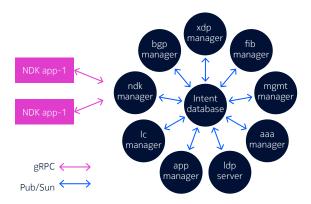
The SR Linux NetOps Development Kit (NDK) architecture Develop custom applications on your terms with an enhanced NDK



Operational challenge: Write custom operational tools (a.k.a agents) to solve operational issues unique to each specific environment.

Solution

- All systems publish (e.g., Pub) configuration and state information to the Intent Database (IDB) and can subscribe (e.g., Sub) to receive these updates from the IDB.
- Each custom NDK application (e.g., app-1, app-2) communicates as an gRPC client to the "ndk mgr".
- Each NDK app registers and subscribes to other system services through the "ndk mgr".
- NDK apps contain their own YANG data model.



Differentiation

Language agnostic

Any modern programming language can be used such as Go, Python, C, Java, Ruby. Etc.

System independent

Since we decouple the app from the system, a NOS update will not require the app to be recompiled.

Equal treatment

Managed and treated equally as native services in the NOS.

Deep integration

NDK apps deeply integration with the SR Linux system and have access to RIB/FIB updates or other info in the datapath.

Learn more