

IOS XE Device Lifecycle

On-prem and cloud VM
automation scripts

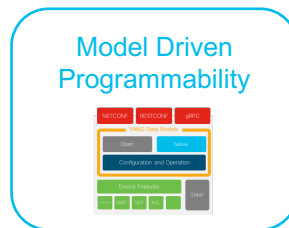
Zero Touch Provisioning

DHCP Auto Install, iPXE



Device Onboarding

Day 0



Network Configuration
Protocols (NETCONF)

RESTCONF, gNMI

YANG Data Models,
OpenConfig

Device Configuration

Day 1

CONTEXT

INTENT

Day N

Device Optimization

gNOI cert.proto

Guest Shell Linux Container

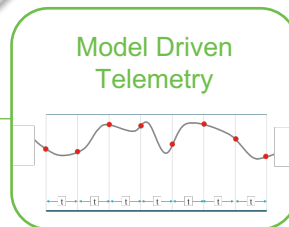
On-Box Python API

Application Hosting with
Docker



Day 2

Device Monitoring



gRPC Dial-Out + TLS

gNMI Dial-In

NETCONF Dial-In