Eclipse Oniro A production OS

Focus on your applications again

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Bio

- Amit Kucheria
- Eclipse Oniro Chief Product Architect
- Linux and Zephyr developer
- Distros, SoC vendors, Product development
Internet of Things
Internet of Things Abandonware
Internet of Things Silos

Building together a fully-connected all-scenario intelligent ecosystem
Internet of Things the Unsecured
Path to a Product
Building together a fully-connected all-scenario intelligent ecosystem
Building together a fully-connected all-scenario intelligent ecosystem
Effort distribution
Effort distribution

Open source software core

BSPs
Toolchain
Core libraries
Application framework
Yocto
Effort distribution

- CI/CD
- Testing
- Documentation
- Maintenance
- IP compliance
- OTA
- Security (keys, trust)

Open source software core

Process

BSPs
Toolchain
Core libraries
Application framework
Yocto
Effort distribution

- Config management
- Hardening

Open source software core

- Process

- Configuration

CI/CD
- Testing
- Documentation
- Maintenance
- IP compliance
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BSPs
- Toolchain
- Core libraries
- Application framework
- Yocto
Effort distribution

- Config management
  - Hardening

- Process
  - Config

- Open source software core
  - CI/CD
  - Testing
  - Documentation
  - Maintenance
  - IP compliance
  - OTA
  - Security (keys, trust)

- Your Application
  - BSPs
  - Toolchain
  - Core libraries
  - Application framework
  - Yocto

Building together a fully-connected all-scenario intelligent ecosystem
Let Oniro help you

- Open source software core
- Process
- Config
- Your Application

Building together a fully-connected all-scenario intelligent ecosystem
Eclipse Oniro  A production OS

Focus on your applications again
Building together a fully-connected all-scenario intelligent ecosystem

Yocto

Toolchain

Linux

RTOS (e.g. Zephyr, LiteOS)
Building together a fully-connected all-scenario intelligent ecosystem

**Opinionated defaults**

- **Yocto**
  - App FWK
  - GUI FWK
  - Agent FWK
  - Sensor FWK

**Net**

- OTA Engine

**Security Policy**

**Toolchain**

- Linux
- RTOS (e.g. Zephyr, LiteOS)
Building together a fully-connected all-scenario intelligent ecosystem

- Yocto
  - App FWK
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- Linux
- RTOS (e.g. Zephyr, LiteOS)
Building together a fully-connected all-scenario intelligent ecosystem
Standards and Compliance

OpenHarmony

yocto

OPENCHAIN

SPDX

REUSE SOFTWARE

arm
SystemReady

Building together a fully-connected all-scenario intelligent ecosystem
Eclipse Oniro...

1. Is an OpenHarmony-compatible OS platform for products
2. Is Apache-2 licensed
3. Uses blueprints to provide MVPs
4. Integrates upstream projects but also drives new innovation
5. Strives to raise the bar to creating great IoT products
Thanks for listening!

oniroproject.org
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