MoxaにおけるOpen Sourceの取組み
Open Source Journey in Moxa
Build up Open Source Office in Hardware Manufacture
Company

SZ Lin (林上智)
Embedded Linux Development Center,
Software Engineer
07/16/2019
About Me

SZ LIN (林上智)

■ Software Engineer at Moxa
■ CIP Technical Steering Committee member
■ Debian Developer
■ OpenChain 2.0 Traditional Chinese Translator
Introduction to Moxa

Moxa社紹介
Fast Facts  Moxa社「早わかり」

Moxa is a leading provider of edge connectivity, industrial computing, and network infrastructure solutions for enabling connectivity.

Moxa社はエッジ接続, 産業用コンピューティング, NWインフラソリューション等相互接続を実現する分野を先導するプロバイダである。

30+ years of experience in industrial automation

Connecting 50+ Million devices worldwide

Market Leadership

# 1  Supplier in Serial Connectivity

# 3  Supplier in Industrial Ethernet Infrastructure

Numerous Global Awards
Global Presence

- 2 Headquarters
- 12 Branches
- 120+ Distributors
- 34% R&D Manpower

Sales & Marketing Headquarters
Brea, California USA

Design & Engineering Headquarters
Taipei, Taiwan

 Worldwide Presence
Connectivity Solutions for Your Networks

Application

- Smart Rail
- Smart Grid
- Smart Oil Field
- Smart Transportation
- Smart Factory
- Smart Marine

Edge Connectivity
- Serial Connectivity
- I/O Connectivity

Industrial Computing
- Embedded Computers

Network Infrastructure
- Industrial Ethernet
- Industrial Wireless LAN
- Industrial Routers
- Network Management

Device

Connectivity Solutions for Your Networks
Your Trusted Partner in Automation

Moxa has partnered with companies in many industries, and along the way we have established trusted relationships and a strong reputation.
Open Source Software In Moxa

Moxa 社における Open Source Software
Final Commercial Product or Service
Moxa Joined Civil Infrastructure Platform Project

Industry Leader Moxa joins Civil Infrastructure Platform Project
By Maemalynn Meanor | January 18, 2018

Moxa strengthens its commitment to building smart cities based on interoperable open source platform that is secure, reliable and sustainable for more than 10 years.

SAN FRANCISCO – January 18, 2017 – The Civil Infrastructure Platform (CIP) project, which aims to provide a base layer of industrial grade open source software components, tools and methods to enable long-term management of critical systems, today announced that Moxa has joined as a Silver Member. The move helps Moxa, an edge-to-cloud connectivity solution provider that offers a wide range of industrial networking, monitoring and computing products, strengthen its commitment to building smarter factories and cities on an interoperable open source platform that is secure, reliable and sustainable.

Hosted by The Linux Foundation, CIP aims to speed implementation of Linux-based civil infrastructure systems, build upon existing open source foundations and expertise, establish de facto standards by providing a base layer reference implementation, and contribute to and influence upstream projects regarding industrial needs.
1. Identification of the origin and license of used software.

2. Identification of license obligations.

3. Fulfillment of license obligations when products ship.

Integration & Testing

Final Commercial Product or Service
Open Source Management
Copyright is a legal right, that grants the creator of an original work exclusive rights to determine whether, and under what conditions, this original work may be used by others.

A patent gives its owner the right to exclude others from making, using, selling, and importing an invention for a limited period of time, usually twenty years.

[Copyright](https://en.wikipedia.org/wiki/Copyright)  
Identify key recommended processes for effective open source management [1].

It is a shared defensive patent pool with the mission to protect Linux [2].
Moxa Joins the Open Invention Network Community

July 02, 2019

**Durham, NC (July 2, 2019)** - Open Invention Network (OIN), the largest patent non-aggression community in history, announced today that Moxa has joined as a community member. As a leading provider of industrial edge-to-cloud connectivity solutions and computing for Industrial Internet of Things (IIoT) environments, Moxa is demonstrating its commitment to open source software (OSS) as an enabler of advanced industrial networking and communications applications.
Define Free and Open Source Policy

Moxa’s Free and Open Source Policy

Abstract: This document defines Moxa’s policy for the use of free and open source software in externally distributed products.

Summary

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<th>Date</th>
<th>Author</th>
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All questions about this policy should direct to FOSS@moxa.com
OSS Office Organization in Moxa

Open Source Office

- CTO
- CEO
- SBG Head
- LIP Head

FOSS Steering Committee

- CTO
- Technology Center Engineers

Open Source Review Board

- LIP Specialists
- SBG Engineers
- External Consultant (Lucien Lin)
Overview of OpenChain Specification
Open Source Compliance

- Policies
- Processes
- Training
- Tools
# OPENCHAIN 規範書
## 版本 2.0

在開源裡建立信任以構建軟體解決方案

## 內容

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Processes, Tooling and Support

**OpenChain**
Trust between entities in the supply chain

The OpenChain Project builds trust in open source by making open source license compliance simpler and more consistent.

**SPDX**
Trust for software packages

Software Package Data Exchange (SPDX) is a file format used to document information on the software licenses under which a given piece of computer software is distributed.

**FOSSology**
Free scanning technology

FOSSology is a open source license compliance software system and toolkit.
# Timeline (est.)

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- Specification
  - Jun.
  - Jul.
  - Aug.
  - Sep.
  - Oct.
  - Nov.
  - Dec.

- Moxa FOSS Policy
  - Jul.
  - Aug.
  - Sep.

- Processes, tools and training
  - Aug.
  - Sep.

- Conformance
  - Sep.
  - Oct.
  - Nov.
  - Dec.
Specification

Moxa FOSS policy

Processes, tools and training

Conformance
Open Source Activities in Moxa

2018

2019

Future

open invention network

Open Source Office

InnerSource
When you want something, all the universe conspires in helping you to achieve it.
Thank you
References

1. https://resources.github.com/whitepapers/introduction-to-innersource/