



———— CIVIL ————
INFRASTRUCTURE
———— PLATFORM ————
INDUSTRIAL GRADE LINUX

10 Years of the CIP project

Jan Kiszka & Pasquale NIEDDU, Siemens
Open Source @ Siemens, Zug, 2026

Establishing an
Open Source Base Layer
of industrial-grade software
to enable the use and
implementation of software
building blocks for
Civil Infrastructure Systems



———— CIVIL ————
INFRASTRUCTURE
———— PLATFORM ————
INDUSTRIAL GRADE LINUX



CIVIL
INFRASTRUCTURE
PLATFORM

INDUSTRIAL GRADE LINUX

Platinum Members

RENEASAS

SIEMENS

TOSHIBA

Gold Members

 TEXAS INSTRUMENTS

Silver Members

 ANDES
TECHNOLOGY


 cybertrust

 HITACHI
Inspire the Next

 LINUTRONIX

MOXA

Scale by Annual Budget



OpenSSF
OPEN SOURCE SECURITY FOUNDATION



AUTOMOTIVE
GRADE **LINUX**



OLF ENERGY



Activities in CIP Project



Workgroup	Mission	Industrial grade	Sustain-ability	Security
Kernel Team 1 2	<ul style="list-style-type: none"> • Providing CIP kernels with 10+ years maintenance period • Work with RT Linux project to upstream Real-time enhancement • Provide CIP SLTS kernel with real-time enhancement 	✓	✓	✓
CIP Core 3	<ul style="list-style-type: none"> • Provide a reference implementation with Debian based CIP core packages for testing 	✓	✓	✓
CIP Testing 4	<ul style="list-style-type: none"> • Providing a test environment to test the CIP kernel and CIP Core 	✓	✓	✓
Security 5	<ul style="list-style-type: none"> • Provide guidelines and reference implementations to help developers to meet cybersecurity standard requirements (IEC 62443) 	✓	✓	✓
SW update 6	<ul style="list-style-type: none"> • Incorporate a common solution for software updates into CIP core 	✓	✓	✓

Archivements



CIP Core: Industrial Linux reference using reproducible Isar builds

SWUpdate: Robust blueprint for secure atomic OTA updates

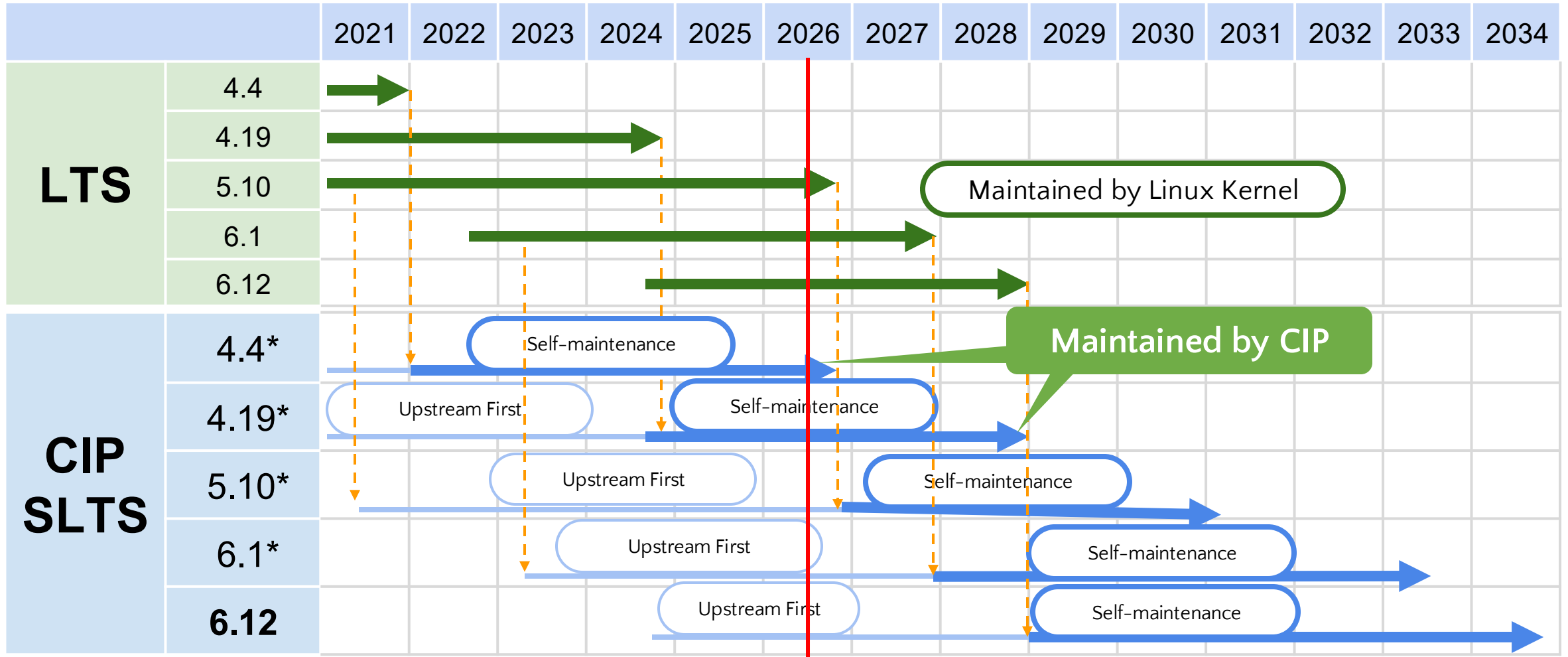
IEC 62443-4-2: Certified security of CIP base system

KernelCI: Automated testing for SLTS kernels on real hardware

SLTS Kernel: Established 10-years maintenance for the Linux

kernel

5 Balls in the Air – The CIP Kernels



We are here

*separate Real-Time version

What's coming up?



Real-Time: RT-feature backports to 6.12-cip

CIP Core: Additional patterns (e.g. key rotation, persistency rollback)

CRA: Aligning CIP project with European cybersecurity regulations

CVE Tracking: Advanced automated vulnerability monitoring

Stand the wave, with or without AI

Challenges Ahead



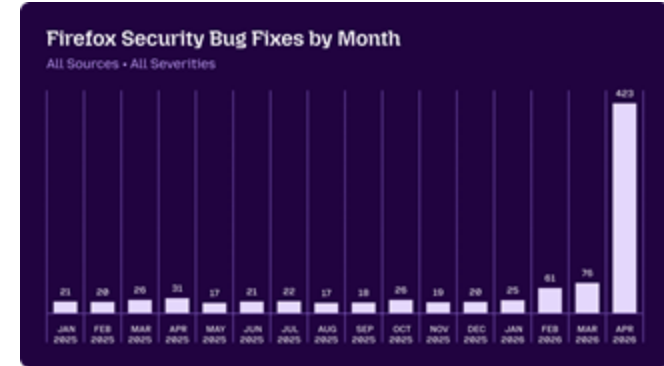
CIP applied for access

Behind the Scenes Hardening Firefox with Claude Mythos Preview



By [Brian Grinstead](#), [Christian Holler](#), [Frederik Braun](#)

Posted on May 7, 2026 in [Featured Article](#), [Firefox](#), and [Security](#)



Introducing Project Glasswing: Giving Maintainers Advanced AI to Secure the World's Code

JIM ZEMLIN | 07 APRIL 2026

LLM-driven security reports disrupt coordinated disclosure [LWN subscriber-only content]

By **Joe Brockmeier**
May 6, 2026

Predictions that LLM tools would cause a surge in reports of security vulnerabilities have, unquestionably, borne out. As expected, maintainers are having to wade through

CURL AND LIBCURL, SECURITY

MYTHOS FINDS A CURL VULNERABILITY

🕒 MAY 11, 2026 👤 DANIEL STENBERG 💬 22 COMMENTS

yes, as in singular *one*.

Thank you!

