



oniro

Open, connected and compliant.

How Oniro builds seamless global
smart ecosystems.

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Oniro Program Manager, Eclipse Foundation

The Dream Team



Credits: Sports Illustrated

1989: the world of basketball changed forever. FIBA voted to allow professional players into the Olympics.

όνειρο: our dream. From contender to front-runner.

Aiming to build a European triumph, that ensures digital sovereignty and open standards for the global market.

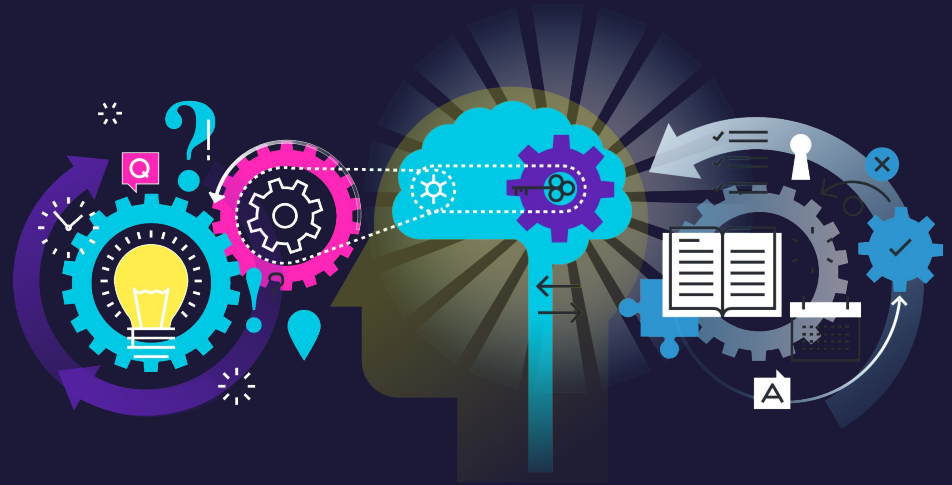


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The challenge

Our solution

Your opportunity





The challenge

Fragmentation. Yes, still.



Fragmentation. Yes, still.



It makes the promise of consistent software unreliable.

Is it that big? Some figures.



9.4

41.1

What are we measuring here?

Is it that big? Some figures.



9.4

41.1

Average connected devices
per person in Europe in 2025

Source: [Statista](#)

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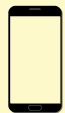
Projected worldwide IoT
connections by 2030 (in billions)

Source: [IoT Analytics](#)

Roots and impact.



Roots



Vast hardware diversity. Millions of new, distinct models every year. Same OS, but different CPUs, GPUs, cameras, and proprietary components.



Slow updates. Once a new OS version is released, it must be modified, tested, and approved for each individual device model.



Customisation. Heavy customisation of the user interface (UI) and own proprietary services on top of the base OS.

Impact



Developers. Waste of time testing and debugging their apps against dozens of different HW and OS combinations to ensure the app doesn't crash.



Manufacturers. Prolonged time-to-market due to extensive testing requirements for each new HW component and OS update.



Users. Inconsistent user experience and lack of access to the latest security features.

Regulation. CRA in (very) short.



What it is

A European regulation setting mandatory cybersecurity standards for all products with digital elements sold in the EU.



Core principle

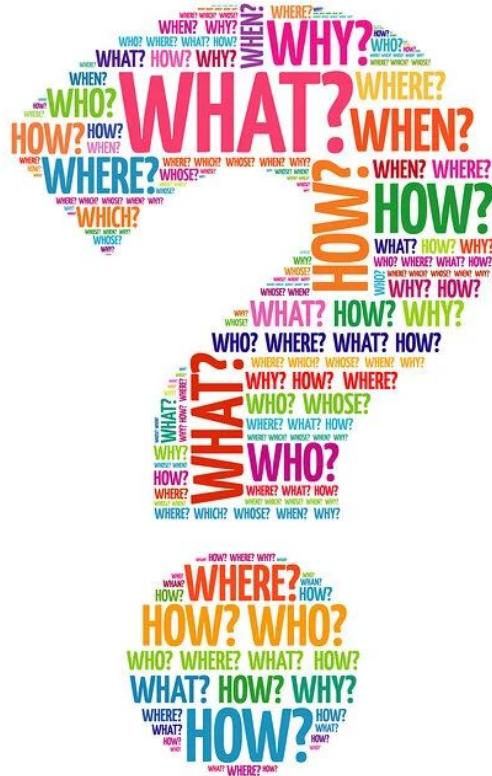
Security-by-design and lifecycle maintenance. Manufacturers must integrate security from the start and provide updates for the product's lifespan.

Key date

Full enforcement begins December 2027.



Where do we find the answer, if any?



The only way forward.





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Our solution

What open source brings in.



Assets

Open implementation,
freely accessible.

The 4 freedoms: run, study,
share, or modify.

Open specification and TCK
to develop and validate
compatible products.

Organisational

Embraces cooperation and
new use cases.

Reduces licenses cost and
also the reluctance to
cooperate internally.

Nurture technological
innovation.

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Openness.

Transparency.

Meritocracy.

Vendor-neutrality.

What does being global mean?



Regulation

Communication

Effective communication in multicultural settings is one of the most challenging aspects. Establishing proper techniques and mechanisms is key.

Tooling

Being global requires accepting that multiple tooling are used. Respect local trends to build sustainable developer communities.

Culture

Open source communities dynamics are different depending on the region.

Oniro, the global challenger.



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Distributed architecture.

Low latency.

Essential for connected devices and real-time control.

Seamless collaboration.

Enabling one application to run across devices ranging from constrained devices such as smartwatches and smart speakers to phones, laptops, and cars.

Addressing fragmentation.

By providing a layer of consistent APIs for all devices.

Think Global, Code Local.



OpenHarmony is an open source framework and platform for the operating system of smart devices. It is hosted by the **OpenAtom Foundation** in China.

Oniro is an OpenHarmony compatible distribution focused on EU markets, and it's hosted by the **Eclipse Foundation**, which is based in Europe.

Oniro bridges the gap between:



Geographical spectrum



Different cultural paradigms



Diverse tooling



Broad regulatory environment

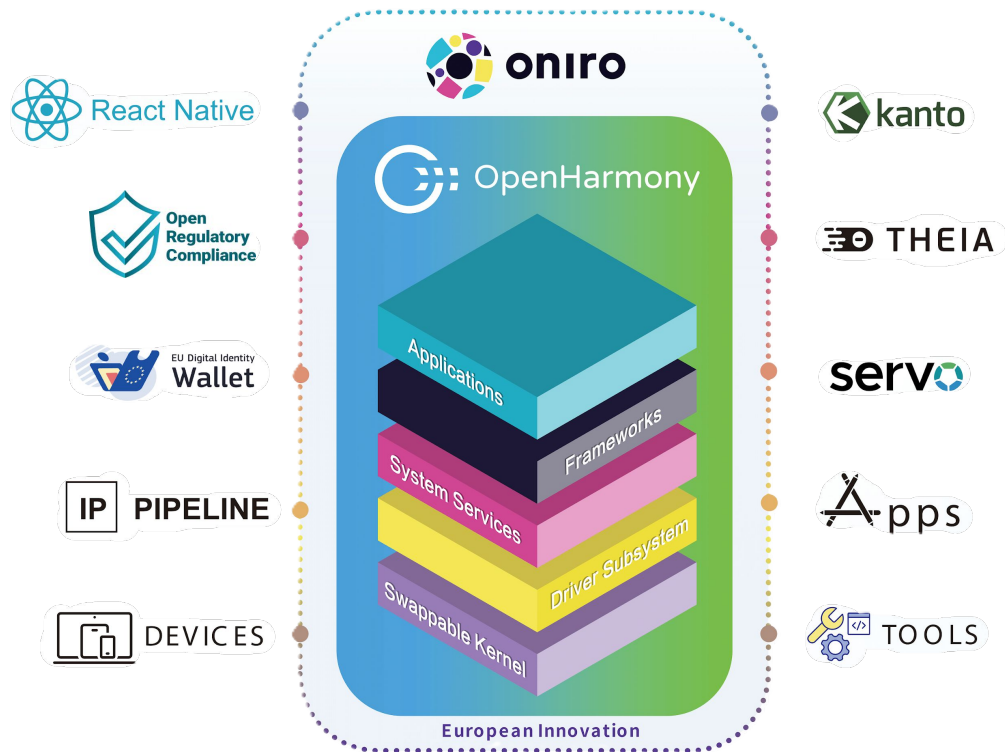


Different processes and procedures

Oniro as a superset of OH specification.



From kernel to applications, and beyond.



Turning a compliance risk into a market guarantee.



Manufacturer liability

The law mandates that manufacturers are responsible for **fixing security vulnerabilities** found in their projects and reporting those fixes to the open source projects they are consuming.

Secure platform mandate

Oniro focuses on secure full-life cycle management to comply with CRA requirements, **reducing partner burden**.

Compliance readiness

We ensure compliance readiness by leveraging the **Eclipse Open Regulatory Compliance (ORC) Working Group** to proactively address standards.

Oniro is built to be the compliant, low-risk, secure platform for the next generation of smart devices in the European market.



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Your opportunity

Oniro's mission. Why you belong.



The Oniro Working Group's mission is to foster an ecosystem of organisations that supports the community in the production and evolution of the Oniro operating system and platform.



What's in it for you?



Developers

Access to a unique, multi-device platform where your applications can run seamlessly across all form factors.



Manufacturers

Secure your product development against proprietary lock-in and align with emerging European regulatory mandates.



Consumers

Integrate all your devices to enable fast connection and data transference to the most suitable device, ensuring a smooth all-scenario experience.

The Oniro promise: our commitment.



Unique developer experience

Through continuous improvement of tooling, documentation, and community responsiveness.

Extend product range and use cases

Actively working to expand the range of supported devices and use cases, ensuring Oniro is viable for new hardware categories (mobile, IoT, embedded).

1200+ OH-based products currently

Technical coordination with OpenHarmony

Strengthening our unique, successful collaboration with OpenHarmony to ensure technical alignment and securing a long-term global ecosystem growth.

How do I get started?



Explore
the documentation

[Oniro Technical documentation](#)

Eclipse Oniro4OpenHarmony

[Description](#) | [Code](#)

Eclipse Oniro Compliance Toolchain

[Description](#) | [Code](#)



Download
the toolkit



Contribute
to the community

Start coding or contact us:

[Oniro Working Group mailing list](#)

[Oniro Projects mailing list](#)



[matrix]

Open. Connected. Compliant.



Open
community



Distributed computing
and interoperability



European market
readiness

Building seamless global smart ecosystems.



开放原子开源基金会
OPENATOM FOUNDATION



OpenHarmony



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ECLIPSE
FOUNDATION

Go play this game!

