

Ubuntu Core

Ubuntu Core is a sub-set of Ubuntu technologies ideally suited for the next generation of embedded devices where Internet connectivity is key. It takes advantage of the extensive hardware, architecture and component certification work done by Canonical so manufacturers can build great experiences for non-PC-based technologies such as set-top boxes, in-vehicle infotainment systems and digital devices for the home.

Introducing Ubuntu Core

Early embedded devices were simple, single-function machines with no or limited connectivity on a limited range of dedicated processor architectures. With pervasive Internet and more powerful chip-sets, embedded devices have become multi-function and always-connected with a range of user interfaces. They also take advantage of the latest silicon architectures. The limits of real-time operating systems to support these use types has been reached. Manufacturers are turning to full-function operating systems with broad architecture support like Ubuntu to run their set-top boxes, digital devices for the home and in-vehicle infotainment systems.

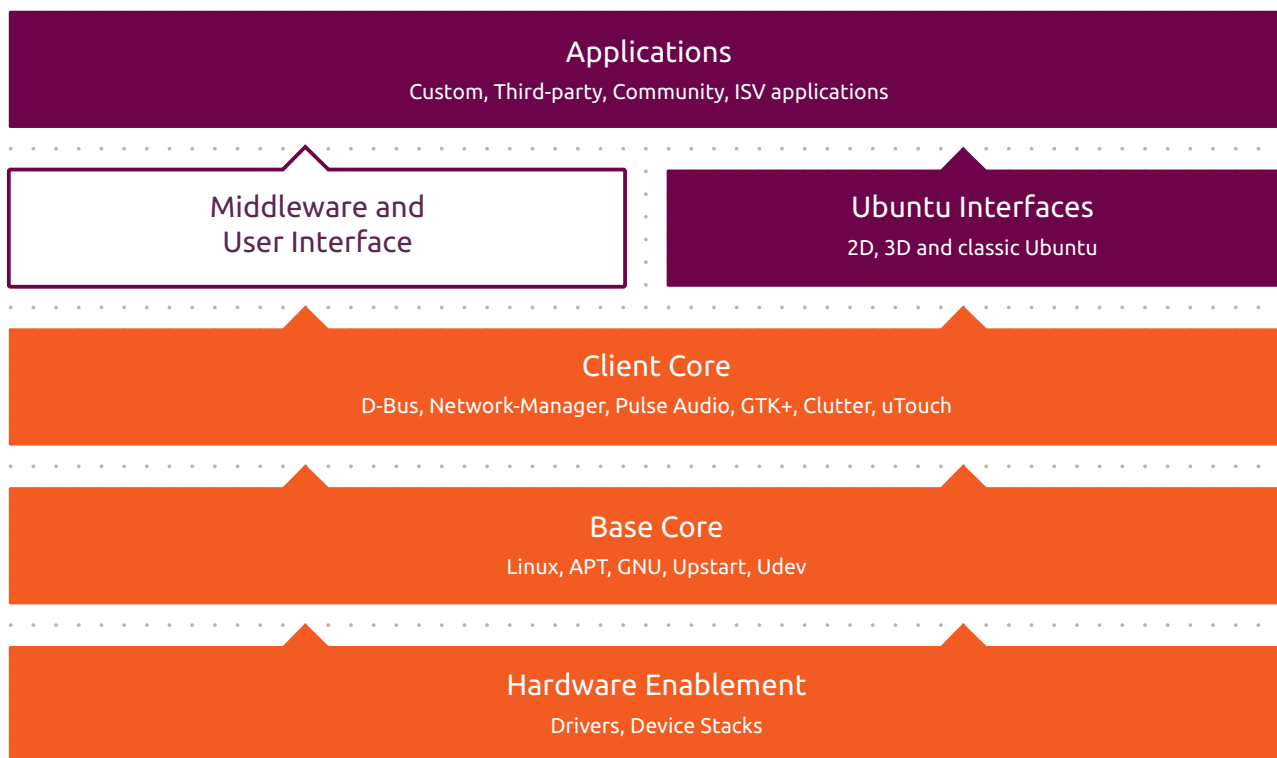
What is Ubuntu Core?

Ubuntu has won many users thanks to its user-focused design and its wide support for the world's most popular systems components and architectures. This work at the foundation level of Ubuntu makes it an ideal base technology on which to build new embedded experiences. With Ubuntu Core, manufacturers and their suppliers can ship with an Ubuntu-based desktop experience, develop their own interface or use one from a third party. They will have access to the broadest set of hardware support from an open-source vendor.

Benefits of Ubuntu Core for device manufacturers

Open-source licenses	Ubuntu Core is built on open-source technologies. You can deploy it on as many devices as the market demands with no licence fees.
Architecture support	Intel x86, ARM (TI, Marvell, Freescale) in multiple configurations. The range of choices allows you to achieve the best cost-performance ratio.
Component support	Over 1,500 separate components are supported by Ubuntu giving an unrivalled choice on which to build.
Network of suppliers	Ubuntu Core is not a single-supplier solution. Canonical is actively growing a network to build solutions on Ubuntu Core giving multiple supplier options for OEMs.
Regular updates and upgrades	Ubuntu Core is the same technology set as Ubuntu itself so benefits fully from the resources and release cycle of the main project.
Code maintenance is simplified	Through using a standard and well-maintained code base, manufacturers and suppliers are relieved of the cost of maintaining and updating a one-off code branch.

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How to engage with Ubuntu Core

For OEMs: OEMs looking to build the next generation of embedded devices can contact Canonical for advice on architecture choice, Ubuntu Core component selection and bespoke engineering work from Canonical or from our selected partners.

For suppliers: Canonical is building a network of suppliers who want to use Ubuntu Core for the base of their solutions. Companies interested in the following should contact Canonical:

- building user interfaces and experiences based on Ubuntu Core
- building middleware components and application stacks for embedded applications
- providing integration or support services on Ubuntu Core
- providing cross-development tools

Useful links

www.ubuntu.com/certification

www.ubuntu.com/certification/components

Contact us:

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