GOOGLE FUCHSIA: A CAPABILITY BASED OPERATING SYSTEM

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ABSTRACT

Fuschia is a new capability based realtime operating system developed by Google that prioritizes security, updatability, and performance of the system. Fuchsia is based on new kernel, named as Zircon (formerly called Magenta), a medium-sized micro-kernel that is itself based on a project called LittleKernel. Google has been working on Fuchsia for a while and without giving many clues about it. The long-awaited FUCHSIA operating system from Google finally starting to roll out on real Made by Google devices, namely, the first-generation Nest Hub.

Keywords:kernel , Flutter, Nest-Hub

INTRODUCTION

Fuschia is the third major operating system by Google. Its extraordinary quality is flexibility and adaptability that will be an asset in the future. Android, one of the greatest and the world's most powerful mobile platform which has fragmentation issues due to the fact that dozens of manufacturers use different, customized versions rather than the purest version. The new operating system should offer improved security and privacy, according to reports. Fuchsia is a completely new, modern, safer, platform optimised for the challenges of today. The operating system's user interface and applications are written in Flutter. Flutter is Google's UI toolkit for building beautiful, natively compiled applications for mobile, web, and desktop from a single codebase. From a functional standpoint, the open source nature of Fuchsia invites developers from all over the community to suggest their own tested additions and updates to the operating system.