

CASE STUDY

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ST Microelectronics, US

BACKGROUND

STMicroelectronics is a French-Italian multinational electronics and semiconductor manufacturer headquartered in Geneva, Switzerland. STMicroelectronics is one of the world's largest semiconductor companies with net revenues of US\$ 8.49 billion in 2012. Offering one of the industry's broadest product portfolios, ST serves customers across the spectrum of electronics applications with innovative semiconductor solutions by leveraging its vast array of technologies, design expertise and combination of intellectual property portfolio, strategic partnerships and manufacturing strength.

PROJECT

STMicroelectronics was looking to create a reference platform for their DSL Residential Router/Bridge. Their requirement was to share code across VxWorks and Nucleus operating systems.

PRODUCT USED



DSL Residential Router/Bridge code-base shared across VxWorks and Nucleus operating systems

SOLUTION

STMicroelectronics in Raleigh "...used OS Changer in an ARM9-based ASSP to provide a reference solution for a DSL Residential Router/Bridge. The software included a BSP, device drivers, configuration database, HTML UI, bridge/router-ware, and OS-independent layers (for future porting). These parts were integrated with a proprietary DSL modem library and commercial RTOS and stackware (Nucleus PLUS and Nucleus Net)... Because VxWorks support was on our product roadmap, we opted to use the VxWorks I/O interfaces instead of native-Nucleus interfaces to minimize time, effort and costs associated with development and maintenance. As a result, we chose to use OS Changer from MapuSoft to provide the VxWorks interfaces on top of Nucleus." – Mike Williams, ST Microelectronics

