

Complexity in the Internet of Things is Driving Adoption of Requirements Management Tools, According to New Research by VDC

Requirements management tools can play an important role in guiding the development of smart, connected devices for the Internet of Things (IoT) that increasingly rely on tight integration between software, electrical, and mechanical components.

“Engineering teams need to improve their software development and change management practices – increasing output while maintaining quality – to deliver innovation faster.”

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The challenge of designing and producing a flood of new, intelligent, and interconnected devices for the IoT is disrupting the embedded engineering market, according to a new report by VDC Research ([click here](#) for more info). Functionality for many of these products depends upon precise coordination between device components from the software, electrical, and mechanical domains.

“This adds an additional layer of complexity on top of already strained engineering processes and teams,” explains André Girard, Senior Analyst of IOT and Embedded Software at VDC Research. “They must now extend engineering collaboration beyond software development - across their entire organization and with supply-chain partners.”

VDC’s research shows that despite traditionally conservative cultures in the embedded industries, many organizations are making rapid progress toward integrating across their engineering teams. Already nearly two-thirds of embedded engineers report their organization has begun to implement or investigate an approach that integrates across the engineering domains.

Increasingly, companies are turning to commercially available requirement management and definition tools from suppliers like IBM Rational, Polarion, Serena, and others to help them manage their more integrated and complex systems development processes. VDC expects this trend will play a larger role in development tool selection decisions in the coming years.

“The need to tame IoT complexity will drive an increased use of requirements management tools,” said Girard. “Solutions enabling better collaboration are becoming a more valuable resource for improving product quality and value differentiation.”

About VDC Research:

VDC Research is a leading technology market analyst firm covering the connected world. Founded in 1971, the firm provides market intelligence to the world’s leading technology vendors, who rely on VDC analysts for winning market strategies and technology adoption decisions. With unmatched domain expertise and rigorous primary research methodologies, VDC enables clients to find new opportunities for growth and make critical decisions with confidence. Based on a unique blend of quantitative and qualitative analysis that offer granularity and breadth of coverage, VDC is organized around five practice areas, each with its own focused area of coverage. For more information, visit <http://www.vdcresearch.com>.

