

Titre / Title

Les défis de test management dans les solutions TV numériques convergentes

Présentateur(s) / Speaker(s)

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A qui s'adresse la présentation? / To whom is the presentation addressed?

Test professionals and managers

Mots-clefs / Keywords

- Test management
 - Digital television
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Résumé de la présentation / Abstract

Nagravision is a world leader in digital security and convergent media solutions for the delivery of digital and interactive content. Its technologies are used in a wide range of services and applications requiring access control and rights management to secure the revenue of content owners and service providers for digital television and interactive applications across different delivery networks. Such solutions are not supplied by a single software product but comprise an ecosystem of backend solutions as well as end user devices like set-top boxes and smart cards.

We describe challenges in testing end-to-end scenarios in the above context: integration of backend and embedded software deployed on different devices and servers; inherent complexity of functional and performance tests facing many customers with different needs. Test campaigns need to be optimized across different test levels in order to meet the business demands.

The main challenge comes from a multitude of different sources that need to be integrated, often each being a sizeable project and product on its own. Test manager must not only clearly define test objective taking into account overall architecture, but also be adaptive to frequent changes in scope and delivery times. Mastering such an environment requires close integration of the test process and project management. This integrated process used in Nagravision is based on ISTQB best practices and follows CMMI to improve the process maturity.

Various test levels are not simply handled by corresponding test techniques as they depend on both architectural and security constraints. In the most complex scenario there are several levels of system tests for from embedded software on smart card and set-top box OS through delivery platforms for satellite, IP and mobile to backend handling content, client information and access rights. In parallel, smart cards, set-top boxes as well as and third party equipment must be tested and validated on hardware level. Broad technical knowledge and excellent organizational skills are a must for test manager hence continuous improvement is a key.

Finding the optimal test mix is probably the biggest challenge, due to a number of stakeholders with sometimes opposing requirements. The test manager has to be very versatile in handling requirements on business and technical level by work closely with both architects and product management team.

Biographie / Biography

Drazen Tomac is a Head of Test management at Nagravisio, with extensive experience in testing and project management domain. Andreas Unterkircher is an experienced Test manager at Nagravisio.
