

# 2016 HPE Software Innovator Awards

## Amy MacGregor, GE Alstom Integration Planning Team

GE leverages HPE ALM, HPE PC to integrate biggest  
strategic acquisition in GE history

### Honorable Mention

#### Transform to a Hybrid Infrastructure

##### Software

- HPE Application Lifecycle Management (ALM)
- HPE Performance Center (PC)
- HPE Security

##### Services

- HPE Software Education Services
- HPE Performance Center Interactive Training created by ART (the HPE Adoption Readiness Tool)
- HPE Discover
- HPE Premier Support

### High-level overview

Using HPE Software, GE realized the following benefits:

- Support century-old, market-leading enterprise transformation into a global digital industrial innovator
- Contribute to the successful integration of 65,000 employees from Alstom Power & Grid, representing the biggest acquisition in GE history
- Ensure flawless function of 148 business-critical applications on Day 1 of merged operation that began on November 2, 2015
- Execute 6,000 critical tests on 148 business-critical applications
- Performance load-test 37% of applications (all those increasing their user base by more than 10%)

### Company

General Electric (GE) through more than a century of innovation has evolved into a global digital industrial company. Its strategic path is to transform industries worldwide with software-defined machines and solutions that are connected, responsive and predictive.

The GE Digital business unit brings together all the digital capabilities from across GE into one organization. Worldwide, GE employs approximately 370,000 workers.

### Contact

Amy MacGregor is the Alstom Integration Test Leader/Project Management Office at GE.

### Business goals

In 2015, GE purchased Alstom Power & Grid, the energy businesses of the French-based multinational company, Alstom. The \$10.5 billion deal was the biggest industrial investment in GE history. A critical piece of GE's transformation strategy, the Alstom acquisition extends the company's solution portfolio as well as its geographic reach into Brazil, the Middle East, India and China. The deal closed on Nov. 2, 2015. Behind the scenes, this required a massive IT integration to onboard 65,000 Alstom employees and ensure that 148 business-critical applications—for enterprise resource planning (ERP), human resources management, legal compliance, product lifecycle management (PLM), finance and other business functions—were all functional and accessible on Day 1.

## HPE Software products implemented

- HPE Application Lifecycle Management (ALM)
- HPE Performance Center (PC)
- HPE Security

## HPE Software Services

To train its Center of Excellence (CoE) staff quickly and efficiently, GE uses HPE Software Education Services including HPE Performance Center Interactive Training created by ART (the HPE Adoption Readiness Tool). GE also attends HPE Discover every year and participates on HPE advisory boards. Its Enterprise License Agreement includes HPE Premier Support for personalized and proactive support to detect and resolve issues before business impact.

## HPE Partner

HPE Partner Capgemini Group provided contract resources for testing. These resources are contracted by GE's Testing CoE, which brings efficiencies and flexibility by centralizing services used across the enterprise. Capgemini gives GE a quick and easy way to deploy testing resources out to the various business lines as needed, without having to negotiate separate contracts at different rates. Contractors can be brought in to apply specialized expertise as needed, for example in ERP or PLM applications.

## Additional benefits

GE has created a Testing Center of Excellence (CoE) using HPE Software for business efficiency and flexibility. The ability to create a centralized test repository in HPE ALM enables reuse of tests across GE's different business units. The Alstom integration was complicated by several factors. GE has a very specific network architecture, and therefore had to configure the applications it was taking in from Alstom to work in GE's particular design. Another complication was that the Alstom environment was unlike GE's; few employees held administrative rights over their laptops and many used older browsers. Under MacGregor's leadership, the team had to make sure all applications worked in a cross-browser environment, could service the additional loads to be placed on them and could support multiple languages. They used HPE Software to maintain, manage and execute cross-browser, access, and language tests and to report on progress. They tracked defects and remediated them quickly; when remediation was not possible, MacGregor's group created workarounds and informed helpdesk staff how to resolve tickets. They tested data migrations and transfers to ensure data could be moved between applications. In addition, under MacGregor's leadership the group performance-tested all applications that would increase their load by more than 10%.



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