Engineering Cost Savings Through Automation

Siemens partnered with Centare to create a web-based tool to enable HVAC engineers to automate the process of writing controller code.

SIEMENS
Ingenuity for life

Siemens is a global, leading technology partner for energy-efficient, safe and secure buildings and infrastructure. They offer building automation, fire and security systems, for all building types, sizes, and for every use.

Siemens has a comprehensive range of building automation systems and HVAC products for every area of use like heating, ventilation, air conditioning, cooling application, and for every technical requirement.

Benefits

- Increase programming accuracy by using sustainable standards and improved serviceability

- Accessible online anywhere

- Collaborate with coworkers

- Reduce training time with an intuitive user interface

- Save time by copying configurations

- Provide feedback or make change requests directly from the web site

The Project

The process for Siemens engineering technicians to write a program for HVAC controllers was inefficient and inconsistent.

Our Solution

Centare's product development team worked with Siemens to create an innovative solution, Automated Programming Tool (APT) to solve their business problem and reduce total direct costs due to programming. APT aims to improve and automate the process of writing programs for Siemens technicians. APT took an existing workflow that could take up to 16 hours and reduced it down to 15 minutes. Thus, the overall time spent on each job per technician decreases and contributes to millions of dollars worth of cost savings for the organization.

Maintainability

CMS for generating programs, documentation and databases.

Output Consistency

Systems are validated for accuracy to ensure programs are always generated correctly.

Immediate Updates

Functional program code is generated in seconds without developer assistance.

Technologies

- ✓ React & Redux
- ✓ ASP.NET Web API 2
- ✓ .NET 4.5
- ✓ SASS
- ✓ Entity Framework
- ✓ AngularJS
- ✓ SSIS
- ✓ webpack
- ✓ TeamCity
- ✓ Octopus

"Centare is now our #1 choice for outside development. The professionalism, ownership and accountability this team showed is unmatched by any vendor we have ever worked with. We do internal development, but the scope and time of this project required a team to be fully focused in order to deliver all required functionality in the 9 month time frame. Centare did just that!"

Duane Keenan Jr.
Director of Engineering and Development — Siemens

Let's Partner Together

Reach out to us to find out more about who we are, what we do, or how Centare and your organization can partner together.

Send us an email at hello@centare.com.

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