

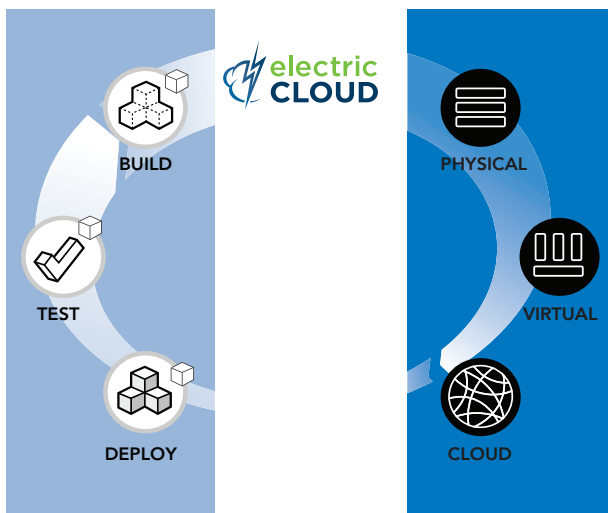
ElectricCommander provides Smart Development Cloud solutions automating development processes such as build, test, and deploy and orchestrates the physical, virtual, and cloud resources running those processes.

ElectricCommander

Automate and accelerate application development processes using physical, virtual, and cloud resources

ElectricCommander automates and accelerates the application development (build-test-deploy) processes and its supporting IT resources (physical, virtual, or public/private cloud). ElectricCommander increases the speed and efficiency of the application lifecycle by automating any process, eliminating manual errors, and maximizing utilization of cloud infrastructure.

When software development is mission critical in an enterprise, ElectricCommander creates a competitive advantage through higher software quality, reduced costs, and increased developer productivity.



A fully automated end-to-end development workflow provides real-time visibility into all of its processes, activities, and tasks.

KEY BENEFITS

Workflow Automation

regardless of development methodology or process.

Optimize Resource Utilization

regardless of the type of resource (physical, virtual or private/public cloud).

Visibility and Reporting

for better project predictability and fewer process errors.

Shared Platform

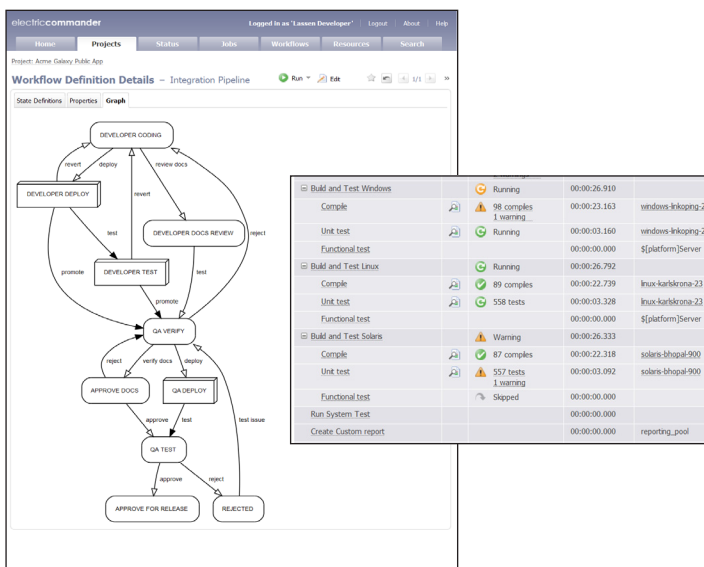
for disseminating artifacts, best practices and standardizing common procedures.

Security and Scalability

to support geographically distributed teams.

Quickly Author and Automate your Process Workflows

ElectricCommander provides a flexible solution to automate repetitive tasks occurring throughout the application lifecycle such as building, testing, and deployment of applications. Creating workflows in ElectricCommander is easy and intuitive. ElectricCommander is process agnostic, so it can be effectively tied to a development workflow whether it be an Agile methodology, classic waterfall, or anything in between. ElectricCommander provides a flexible, plugin integration architecture with out-of-the-box integrations to many development tools and cloud systems to enable enterprises to quickly model and adapt their existing processes (scripts, tools, manual steps) to the ElectricCommander solution.



A fully automated end-to-end development workflow provides real-time visibility into all of its processes, activities, and tasks.

Once the workflow is modeled, ElectricCommander enables simple, push-button procedures that mirror your exact processes. From executing each build-test-deploy operation to coordinating the hand-offs across development teams, ElectricCommander manages every step of the application lifecycle. It can automate any “machine-oriented” task—scripts, tool execution, etc.—in your application lifecycle. These tasks are then seamlessly integrated with the human decisions that drive them (active approvals, email notifications, etc.).

Disseminate and Track Artifacts Across Teams and Stages of the Development Lifecycle

ElectricCommander includes a built-in artifact management system providing a flexible, scalable, and secure repository to store and index the output of build jobs, as well as any other type of artifact associated with software development projects. Having a centrally indexed and managed repository across software development projects enables efficient and accurate sharing of dependencies, as well as traceability of artifacts from development to deployment.

The ElectricCommander artifact management system resolves artifact dependency challenges with a controllable, searchable, and auditable repository which is designed to consistently store and fill project dependencies. The artifact management system allows for custom metadata tagging of every artifact and artifact version so that exactly the correct artifact can be referenced, found, and used during automated B-T-D processes. Of course, security can be applied to any artifact and artifact version to closely control who can access and change artifacts once they are in the system. No application lifecycle can be truly consistent and efficient without a proper artifact management system in place.

Maximize Cloud Resource Productivity

ElectricCommander manages the resources that support the development processes. Because ElectricCommander manages the entire software development lifecycle, all necessary resources are instantly set up when required and released upon completion of the process. ElectricCommander configures the resources to developers' exact specifications. For example, ElectricCommander can not only instantiate a Virtual Machine (VM), but also deploy the right application bits on the VM and configure it for the development task needs. Thanks to the intrinsic elasticity of cloud, individual workflow steps can be distributed across multiple resources and processed in parallel, accelerating execution times dramatically. This delivers higher resource utilization and eliminates 'virtual machine sprawl'.

Full Visibility and Reporting on Process Metrics and Resource Utilization

The ElectricCommander intuitive workflow visualization dashboard provides a dynamic, shared view of the build-test-deploy process. The workflow is updated in real time, providing developers and testing and deployment teams with an accurate understanding of the current job status within

each process. The ElectricCommander powerful analytics engine provides visibility into one of the best indicators of project success: a compiled, tested, working software application. The ElectricCommander analytics database stores all build, test, and deploy information for real-time and trend reporting, giving your organization the power to collect pinpoint statistics (such as the number of builds completed, tests run, estimated failures), and gain visibility into trends including process success rates across projects.

Enterprise-class Deployment Scale, Security and Best Practices Sharing

ElectricCommander supports multiple teams, working in multiple locations, programming for multiple platforms or targets in an environment that can be centrally controlled and managed. The product is architected to scale to concurrently support all of the software development projects within a global enterprise, regardless of physical location or automation need. Granular access controls and other security measures allow all teams to leverage a single system while keeping selected assets or projects secure. ElectricCommander is designed to support reusable procedures, making individual teams more efficient by eliminating duplicate work, and gives organizations the power to deploy cross-company standards.

Reliable Continuous Delivery for the Enterprise

ElectricCommander provides out-of-the-box integrations with leading Software Configuration Management systems for Continuous Delivery(CD). To make CD more effective and reliable in an enterprise environment, ElectricCommander enables more than continuous integration, testing, and deployment. It also offers simple, push-button “preflight builds and tests.” Just as a pilot goes through a rigorous preflight checklist to ensure the plane is in top condition prior to takeoff, automated preflight builds and tests put the power to compile and test each change before check-in and across all target environments in the developer’s hands. This provides feedback at the earliest possible moment and reduces the impact an error will have on the rest of the team. Preflight builds enable effective continuous integration even in the most complex environments.

Value for Development and IT

ElectricCommander is a comprehensive solution that bridges the gap between IT environments and the tools and processes required by software development teams to efficiently deliver successful software. ElectricCommander offers maximum productivity for development organizations

by concurrently executing all of the machine-oriented repetitive tasks such as build, test, and deployment while leaving the creative tasks such as design and programming to the developers. ElectricCommander offers maximum cloud utilization for IT organizations by effectively distributing all of the repetitive tasks in the application lifecycle across centralized infrastructure without risk of machine starvation or data collision to the development organizations.

About Electric Cloud

Electric Cloud is the smart development cloud company. Electric Cloud bridges the gap between physical and virtual IT environments and development processes and tools to create smart development clouds. The company’s patented and award-winning products help development organizations to speed time to market, boost developer productivity, and improve software while leveraging the operational efficiencies provided by virtualized/cloud infrastructures. Leading companies across a variety of industries, including financial services, ISVs, mobile devices, semiconductors and transactional websites rely on Electric Cloud’s development cloud solutions.

Key Integrations

A sample set of development tools include, but are not limited to:

- **Software Configuration Management** systems such as ClearCase, Git, Perforce, Subversion, and Microsoft Visual Studio/TFS
- **Build** tools such as Ant, Maven, MSBuild, and eMake
- **Testing and Code Analysis** tools such as Coverity, JUnit, Klocwork, Selenium, and HP QuickTest Professional
- **ALM Solutions** such as HP ALM/Quality Center, IBM Rational Team Concert, Rally, and VersionOne
- **Application Servers** such as Tomcat, WebLogic, WebSphere, and IIS
- **Virtualization Cloud Management Systems** such as Microsoft Systems Center Virtual Machine Manager, VMware vSphere, VMware vCloud Director/LabManager, Amazon EC2, and Eucalyptus
- **Integrated Development Environments** such as Eclipse and Microsoft Visual Studio

Key Features

Benefits

Automate Any Build-Test-Deploy Process

Platform and language independent	No need to learn a new tool or language just to achieve process automation
ALM tool integrations	Connectors to leading SCM, code coverage, & automated test tools allow ElectricCommander to fit seamlessly into any existing environment
Integrations with Eclipse and Visual Studio® IDEs	Developers can execute any procedure, incl. preflight builds & tests & receive results without leaving their IDE
Personalization	Organize your dashboard to focus on the projects or procedures you use most frequently
Artifact management	Provides a secure, auditable, structured storage & retrieval system for all software development life cycle project output, for consumption by other parts of that development lifecycle or other projects

Enterprise-class Deployment Scale, Security, and Best Practices Sharing

Scalable, multi-threaded server architecture	Provides dramatically improved throughput & scales to meet the needs of distributed teams
Project mechanism	Organize information by product or into “library” projects that can easily be shared among teams
Multiple workspaces	Distributed teams can store data locally rather than continually polling a remote server
Nested procedures	Create general-purpose building blocks to be reused for multiple purposes
Access controls	LDAP & AD authentication & fine-grained access control lists support secure collaboration & reuse
Enterprise-grade security measures	Secure handling of passwords & credentials supports cross-enterprise usage
Resource management and pooling	Dynamic resource management for physical & virtual resources reduces development dependence on IT

Complete Visibility Into Process Metrics and Resource Utilization

Pinpoint reporting	Statistics like number of compilations, tests run, or test failures enable rapid problem-solving
Workflow visualization	Graphically display the structure & status of a workflow definition or in-process workflow
Cross-project, cross-team reporting	At-a-glance visibility into results across teams or projects provides greater project predictability
Single-click access to job logs	Jump directly to where a problem is detailed for rapid troubleshooting

Accelerate Automated Process and Manage Cloud Resources Efficiently

Parallel execution	2-3x faster throughput helps you move from nightly builds & tests to multiple procedures per day
Preflight builds and tests	Developers compile & test each change across all targets before checking in source & impacting the rest of the team
Optimizes virtual lab environments	Integrated with virtual management systems such as VMware® Lab Manager & vCloud Director & Eucalyptus to enable dynamic provisioning of virtual or physical resources
Resource management and pooling	Dynamic resource management for physical, virtual, & cloud based resources reduces Development's dependence on IT

Supported Platforms for Servers

- Microsoft Windows 7, XP, & Vista
- Microsoft Windows Server 2003 & 2008
- Red Hat Enterprise Linux
- Ubuntu Linux
- SUSE Linux Enterprise Server

Supported Platforms for Agents

- All supported server platforms
- Solaris
- HP-UX
- Any platform running SSHv2 or an equivalent protocol

CORPORATE HEADQUARTERS

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