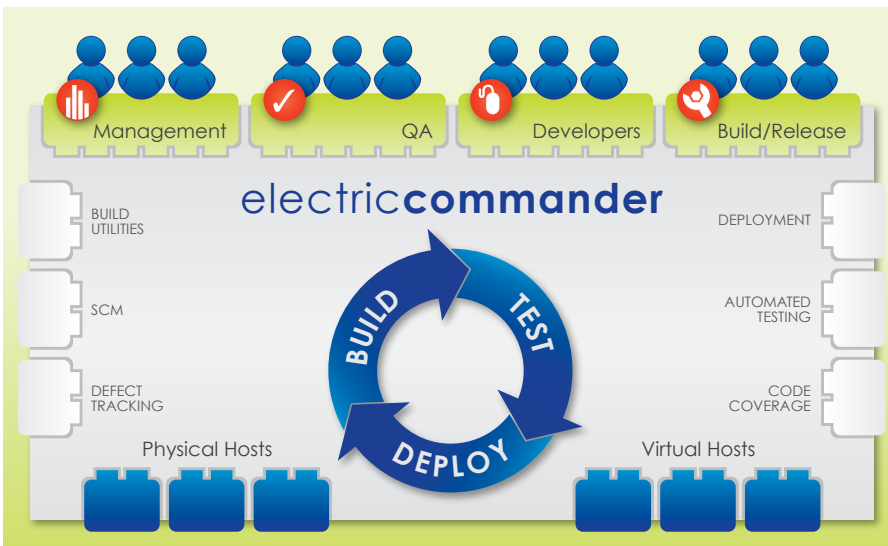


# ElectricCommander Workgroup Edition

## SOFTWARE BUILD-TEST-DEPLOY AUTOMATION

ElectricCommander® Workgroup Edition automates and accelerates the software build-test-deploy process that follows the creation of new code. It removes a significant bottleneck for software development by transforming an error-prone, manual process into an agile, reliable system for software production.

Companies for which software is mission-critical—such as Qualcomm, Intuit, BioWare (a division of Electronic Arts), and Caterpillar—use ElectricCommander to create a competitive advantage through higher software quality, reduced costs, and increased developer productivity.



With this solution, developers, release engineers, build managers, QA teams, and IT managers gain:

- Faster cycle time and more efficient hardware utilization
- Platform for creating and reusing common procedures
- Push-button developer preflight builds and tests
- Reliable Continuous Integration and Testing
- Visibility and reporting for better project predictability

## HOW IS IT DIFFERENT?

Unlike pure Continuous Integration (CI) servers or most homegrown systems, ElectricCommander® Workgroup Edition provides a secure, reliable solution for the entire build-test-deploy process that adapts to the way your teams work while requiring minimal administrative overhead to maintain and extend. So your developers and release teams spend less time managing tools, scripts, and servers and more time delivering great software.

## WORKS THE WAY YOU WORK

ElectricCommander Workgroup Edition works with any language and any build utility (Java, C, Make variants, Ant, Maven, etc.) so you can leverage a single system for all programming projects. Plugins for SCM systems, defect tracking tools, IDEs, and other ALM tools and processes make it simple to adopt and roll out across teams. Users can create and share custom plugins for smoother integration with homegrown tools and custom workflows, while the fully-customizable web interface lets users create custom dashboards, dynamic forms, etc. ElectricCommander helps teams achieve a scalable, optimal software production environment without throwing out existing scripts and processes.

## PROVIDES A COMMAND-AND-CONTROL CENTER FOR BUILD-TEST-DEPLOY

ElectricCommander supports multiple teams, programming for multiple platforms or targets in an environment that can be centrally controlled and managed. Fine-grained access controls and other security measures allow all projects to leverage a single system while keeping selected assets or projects secure. ElectricCommander is designed to support reusable procedures, making individual developers more efficient by eliminating duplicate work, while giving workgroups the power to deploy consistent standards.

## MAKES PROCESSES TRANSPARENT, AUDITABLE AND REPEATABLE

ElectricCommander's powerful, customizable analytics engine provides visibility into one of the best indicators of project success: compiled, tested, working code. ElectricCommander's analytics database stores all build and test information for real-time and trend reporting, giving your organization the power to collect pinpoint statistics (such as number of builds completed, number of tests run, and number of test failures), and gain visibility into trends such as error or build success rates.

## ENABLES RELIABLE CONTINUOUS INTEGRATION AND TESTING

ElectricCommander provides integration plugins with leading SCM systems for Continuous Integration and Testing. To make CI more effective and reliable in an enterprise environment, ElectricCommander enables simple, push-button "preflight builds and tests." Just as a pilot goes through a rigorous preflight check routine 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 with the developers themselves. This provides feedback at the earliest possible moment and reduces the impact that an error will have on the rest of the team. Preflight builds and tests enable effective Continuous Integration and Testing even in the most complex environments.

*"Since using Electric Cloud's solution, every month has yielded a record low number of breaks. Because there are so few broken builds, the developers are able to really focus on what happened in a particular instance and fix it so that the next time the build goes even more smoothly."*

**—Sam Johnson, Lead Technical QA, BioWare (a studio of Electronic Arts)**

## ABOUT ELECTRIC CLOUD

Electric Cloud® is the leading provider of Software Production Management (SPM) solutions. Electric Cloud solutions automate, accelerate, and analyze software build-test-deploy processes to optimize both physical and virtual IT environments. The company's patented and award-winning products help development organizations to speed time to market, boost developer productivity, and improve software quality. Leading companies across a variety of industries, including semiconductors, enterprise IT, ISVs, mobile devices, and transactional Web sites rely on Electric Cloud's Software Production Management solutions to transform software production from a liability to a competitive advantage. For customer inquiries please contact Electric Cloud at (408) 419-4300 or [www.electric-cloud.com](http://www.electric-cloud.com).

The screenshot shows the Electric Cloud web interface. The top navigation bar includes 'Home', 'Projects', 'Jobs', 'Resources', 'Reports', 'Search', and 'Administration'. The user is logged in as 'manager'. The main content area is divided into several sections:

- Job Configurations:** A section with a 'Create' button and a message: 'Currently, there are no records to display in this list.'
- Shortcuts:** A list of shortcuts for build and deployment tasks, such as 'Validate Build', 'Deploy Build', 'UnDeploy Build', 'Invalidate Build', and 'Run Talkhouse Preflight Build', each with 'Edit' and 'Delete' options.
- Jobs Quick View:** A table listing various jobs with their status (Error, Success) and duration.
 

Job Name	Status	Duration
Build and Test with Error-552	Error	00:00:45.047
Build and Test Generic-551	Success	00:00:46.282
Build and Test-550	Success	00:00:29.469
Talkhouse Preflight Build-John-465	Success	00:01:46.031
Talkhouse Preflight Build-John-464	Success	00:01:56.765
Talkhouse Preflight Build-John-409	Success	00:02:12.328
MakeAppliance-601	Success	00:01:47.469
- Build and Test-550:** A detailed view of a specific job showing 'Success' status, 'Start Time: 2008-09-11 16:27:32 PDT', and 'Elapsed Time: 00:00:29.469'.

A configurable home page allows users one-click access to the jobs, procedures or assets most important to them.

The screenshot shows a detailed view of a job named 'upgrade.342-to-main-full.19750'. The job is 'Completed with Success'. The start time is '2008-10-22 09:29:49 PDT' and the elapsed time is '00:17:48.558'. The job was launched by 'tanay'.

The 'Steps' section shows a list of tasks with their status and elapsed time:

Step Name	Log	Status	Elapsed Time	Resource	Actions
Standard snapshot		Success	00:00:01.781	eng	Edit
Preflight snapshot		Skipped	00:00:00.000		Edit
Setup		Success	00:00:05.719	eng	Edit
3.0.0		Success	00:17:18.120		Edit
Linux, local		Success	00:11:37.857		Edit
Setup		Success	00:00:10.041	eng	Edit
Provision configuration		Success	00:01:13.483	labmanager-mulex	Edit
Get host name		Success	00:01:01.546	eng	Edit
Copy files		Success	00:00:28.734	eng	Edit
Remote db - reserve		Skipped	00:00:00.000		Edit
Remote db - setup		Skipped	00:00:00.000		Edit
Install original version		Success	00:02:26.375	eng	Edit
Remote db - set db config		Skipped	00:00:00.000		Edit
Import data		Success	00:00:27.500	eng	Edit
Download install results		Success	00:00:02.719	eng	Edit
Upgrade to new version		Success	00:03:41.625	eng	Edit

AJAX-based Web interface helps distributed teams collaborate; all functionality also accessible via command line.

WORKGROUP EDITION FEATURES	WORKGROUP EDITION BENEFITS
<b>WORKS THE WAY YOU DO</b>	
Platform- and language-independent	<ul style="list-style-type: none"> <li>No need to learn a new tool or language just to achieve process automation</li> </ul>
ALM tool and process plugins	<ul style="list-style-type: none"> <li>Plugins for leading SCM, code coverage, defect tracking and other ALM tools, plus a host of reporting and process plugins allow ElectricCommander to fit seamlessly into your existing environment</li> </ul>
Integrations with Eclipse and Visual Studio® IDEs	<ul style="list-style-type: none"> <li>Developers can execute any procedure, including preflight builds and tests, and receive results without leaving the IDE</li> </ul>
Procedure wizard	<ul style="list-style-type: none"> <li>Intuitive, step-by-step wizard guides new users through setup and execution of common build-test-deploy tasks</li> </ul>
<b>CENTRALIZE AND CONTROL BUILD-TEST-DEPLOY SYSTEMS</b>	
Project mechanism	<ul style="list-style-type: none"> <li>Organize information by product or into "library" projects that can easily be shared among teams</li> </ul>
Nested procedures	<ul style="list-style-type: none"> <li>Create general-purpose building blocks to be reused for multiple purposes</li> </ul>
Access controls	<ul style="list-style-type: none"> <li>LDAP and AD authentication and fine-grained access control lists support controlled collaboration and reuse</li> </ul>
Enterprise-grade security measures	<ul style="list-style-type: none"> <li>Secure handling of passwords and credentials supports enterprise standards</li> </ul>
Resource management and pooling	<ul style="list-style-type: none"> <li>Dynamic resource management for both physical and virtual resources reduces Development's dependence on IT</li> </ul>
<b>MAKES PROCESSES TRANSPARENT, AUDITABLE, AND REPEATABLE</b>	
Pinpoint reporting	<ul style="list-style-type: none"> <li>Statistics such as number of compilations, number of tests run, or number of test failures enable rapid problem-solving</li> </ul>
Cross-project reporting	<ul style="list-style-type: none"> <li>At-a-glance visibility into results across projects provides greater project predictability</li> </ul>
Single-click access to job logs	<ul style="list-style-type: none"> <li>Jump directly to where a problem is detailed for rapid troubleshooting</li> </ul>
<b>ENABLES RELIABLE CONTINUOUS INTEGRATION AND TESTING</b>	
Parallel execution	<ul style="list-style-type: none"> <li>2-3x faster throughput helps you move from nightly builds and tests to multiple procedures per day</li> </ul>
Preflight builds and tests	<ul style="list-style-type: none"> <li>Developers compile and test each change across all targets before checking in source and impacting the rest of the team</li> </ul>
Optimizes virtual and cloud-based lab environments	<ul style="list-style-type: none"> <li>Integrated with VMware® Lab Manager and Amazon EC2 to enable dynamic provisioning of virtual, physical or cloud resources</li> </ul>
Out-of-the-box SCM integrations	<ul style="list-style-type: none"> <li>Simplifies CI with integrations for AccuRev, Git, IBM Rational Clear Case®, Perforce, Subversion, and more</li> </ul>

*"Business demands require that we have an environment that will scale to manage any size project while balancing jobs properly over heterogeneous resources. ElectricCommander went above and beyond this task and not only made our procedures more flexible and reusable, but has also allowed us to upload build and test statistics. ElectricCommander is a simple yet brilliant system."*

— **Laurent Brack,**  
**Senior Software Manager,**  
**LSI Logic**

## SUPPORTED PLATFORMS

- Management Server: Windows XP and Vista, Windows Server 2003 and 2008, Red Hat Enterprise Linux
- Agent: Windows, Red Hat Enterprise Linux, Ubuntu Linux, Solaris, HP-UX, Mac OS X, or any platform running SSHv2 or an equivalent protocol
- Browsers: Internet Explorer 6 SP2, Firefox 2.0

### Corporate Headquarters

Electric Cloud, Inc.  
 676 W. Maude Avenue  
 Sunnyvale, CA 94085  
 Tel: 408.419.4300  
 Fax: 408.419.4399  
 info@electric-cloud.com  
 www.electric-cloud.com

### Electric Cloud Europe

7200 The Quorum, Oxford Business Park North  
 Garsington Road  
 Oxford OX4 2JZ United Kingdom  
 europe.info@electric-cloud.com