

# Virtual Engineer

## Your Requirements:

- *Configure and manage your control system including logic, graphics, database and more*
- *Gain familiarity on standard operator and engineering functions*
- *Test and verify control system strategies without risking liability of your control system*
- *Develop your own simulation*

## The Best Solution:

Ovation's™ virtual engineer combines the power of simulation, virtual technology, and Ovation controls within a single desktop computer. Up to 20<sup>1</sup> Ovation controllers can be virtually duplicated within one Microsoft® Windows™-based workstation.

The Ovation virtual engineer uses virtual control technology to execute a plant's control logic, algorithms and control timing directly in the Windows operating system. With this capability, users now have the flexibility to duplicate and load select processes or their entire control system onto a single workstation that can be located anywhere in the plant or on the corporate campus.

The Ovation virtual engineer can be used to generate and test control logic for new plant equipment or processes prior to loading it on the live control system; or to modify existing control strategies and validate their operation on the virtual platform, identifying and correcting issues before they impact plant operations.



The virtual engineer includes Ovation's Developer Studio tools for users to simply create, edit, download and test graphics, control logic and process point databases without disturbing the online control system. Users of virtual engineer can easily develop tie-back simulation to verify controls and graphics, and simulate digital point feedback including on/off or open/closed status.

## Benefits

- Supports up to 20<sup>1</sup> controllers in a single desktop workstation
- Includes pre-loaded controller licenses for customer developed simulation
- Provides an offline engineering test bed
- Validates control logic and graphics connections
- Uses simulated software logic that interacts with your control strategies
- Verifies control logic, graphics, and database prior to downloading to the "live" control system

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## Ovation™ Simulation Solutions

Virtual Engineer Standard Components	Quantity
Ovation Developer Studio configuration tools software and license	1
Ovation engineer/operator run-time software and license	1
Ovation database server software and license	1
Ovation domain controller software and license	1
Pre-loaded virtual controller software and license - Ovation 3.1 <i>* Additional virtual controller licenses are available for purchase if needed.</i>	5
Pre-loaded virtual controller software and license - Ovation 3.1.2 and higher <i>* Additional virtual controller licenses are available for purchase if needed.</i>	20 <sup>1</sup>
Virtual Engineer Platform and Requirements	
Microsoft Windows server-class desktop personal computer with appropriate server software to support the Ovation control system software level	
Ovation software level 3.1 or higher	

<sup>1</sup> The maximum number of virtual controllers per host is 20, but the recommended limit for maximum performance is 10.

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