

# VIGLEN

## and Intel® Cluster Ready

High-performance computing (HPC) can be a key differentiator and productivity engine. By working with Viglen to implement Intel® Cluster Ready clusters, organizations in business, education, healthcare, and the public sector can exploit the power of high-performance computing more rapidly, easily, and cost-effectively.

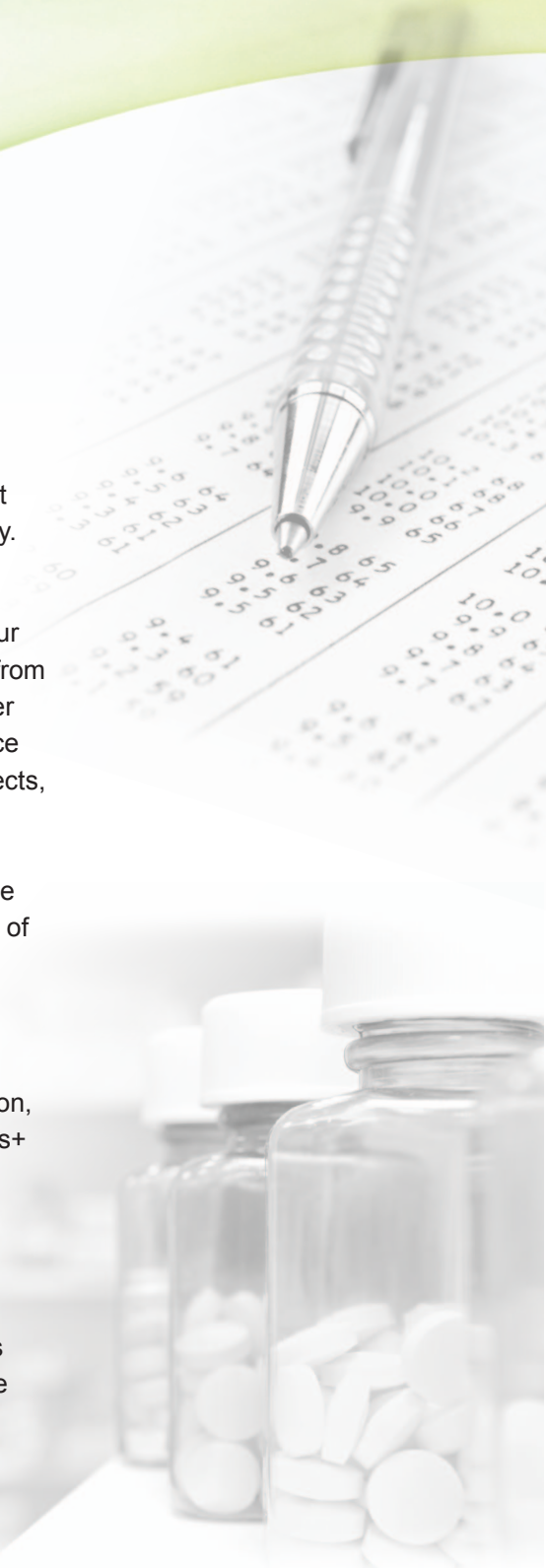
### Simplifying HPC at Viglen

Viglen offers deep HPC expertise to help you design, implement, and manage your Intel® Cluster Ready solution. Viglen advisors can help you find the right “recipe” from a selection of certified Intel Cluster Ready components and registered Intel Cluster Ready software. To facilitate that process, Viglen can provide detailed performance reports for all hardware components, including the processor, memory, interconnects, and disks. A dedicated project manager will then help manage the entire implementation process, making sure that the deployment is completed on time and on budget. To help simplify ongoing management, Viglen can integrate remote access management capabilities. And to ensure smooth and consistent operation of the cluster, Viglen offers a full range of support options.

### Turnkey HPC with Viglen and Clustercorp Rocks+

Viglen deploys its Intel Cluster Ready systems using Clustercorp Rocks+\* middleware. Rocks+ combines the operating system, system monitoring application, workload manager, and other components into a single, holistic distribution. Rocks+ helps you gain the confidence that all required software components are installed correctly and will work together seamlessly.

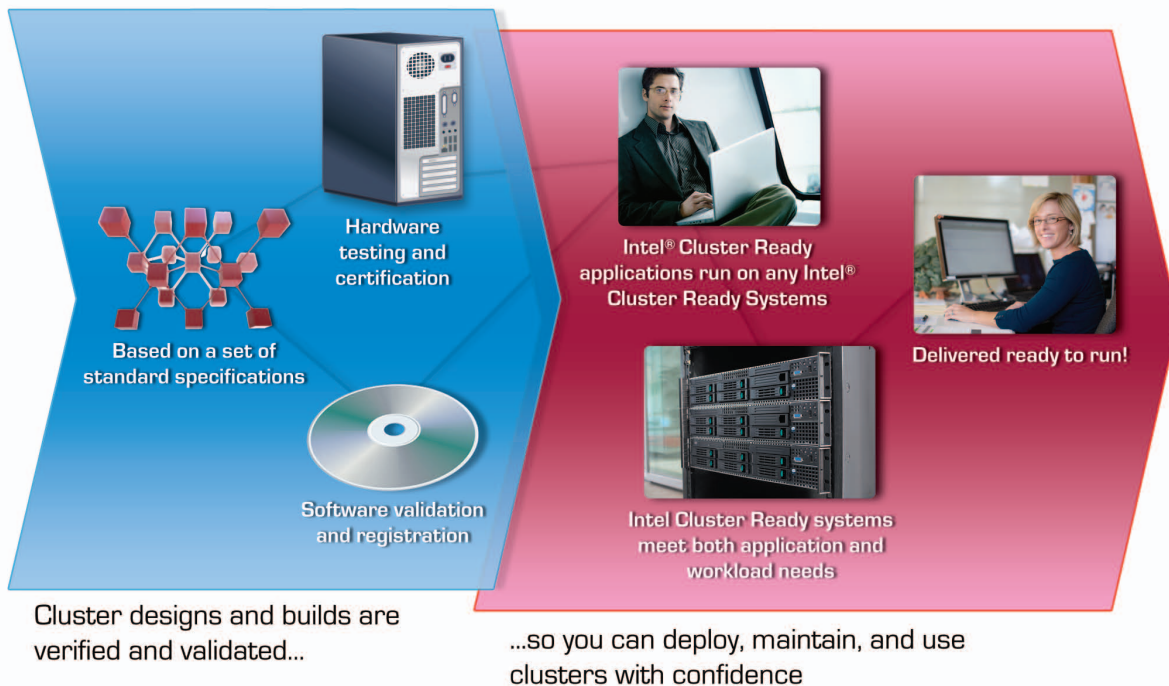
Rocks+ also helps maintain ongoing Intel Cluster Ready certification. The Viglen team installs the Intel Cluster Ready “Roll”—prepackaged software that includes Intel® Cluster Checker. Using Intel Cluster Checker, you can run periodic wellness checks to identify and diagnose problems quickly, helping to ensure that hardware and software components continue to work together over the cluster’s lifetime.



# Intel Cluster Ready

In the past, matching the application you needed with the right cluster system was a long and difficult process, usually meaning lots of time spent researching different components and figuring out which ones work with the right application. Intel Cluster Ready solves this problem by providing a common architecture that brings together a community of system integrators and software partners to produce cluster systems that are application-ready. This architecture is delivered in the form of the Intel Cluster Ready specification, which includes requirements for hardware, software, manageability, and functionality to help make sure that each cluster component conforms to industry standards or, if no standard exists, best-of-class practices. The result is cluster solutions that are easier to deploy, maintain, and use—and work with the applications you need to get your work done faster.

## The Intel Cluster Ready Experience



## Registered Applications Made Portable for Any Certified Solution

In order for applications to meet the requirements of becoming registered as Intel Cluster Ready, software vendors need to validate and verify their product works on an Intel Cluster Ready system. This gives you peace of mind knowing that no matter what Intel Cluster Ready application you choose, you can be confident that it will run on certified Viglen systems—without having to rebuild the software stack or reconfigure the hardware.

## Delivered Ready to Run

Intel Cluster Ready provides you with fully integrated and seamless solutions that give you the freedom to choose the application you need and to start using it right away. Instead of worrying about component interoperability, you can focus on identifying application features and functionality that will help you solve bigger problems and get the results you need sooner.

You can also make more informed purchasing decisions by comparing features such as memory, storage systems, and fabric performance that allow you to better weigh price vs. performance. Just as you wouldn't expect to have to put together your own laptop, Viglen does all the work for you by assembling the system, integrating the cluster system software, and tuning the system to ensure whatever Intel Cluster Ready application you choose runs smoothly.

*"The Intel® Cluster Ready program gives our customers the peace of mind that their applications and system components will all work together seamlessly. They can start capitalising on the power of HPC immediately."*

BORDAN TKACHUK, CEO  
VIGLEN LTD.

## NEW! Intel® Xeon® 5600 Processor Series

Certified Intel® Cluster Ready reference designs and recipes take advantage of the latest processing power sooner

The innovation you expect from Intel continues in the next generation of processors with the Intel® Xeon® 5600 processor series. Now offering a new 32nm process technology and up to 6 cores, the Xeon 5600 processor gives you significantly better performance with lower system power over the Xeon 5500 series. Intel has also improved virtualization performance and security with new features such as Intel® Trusted Execution Technology.

### Performance:

- Get higher performance at the same CPU power levels and more choices for lower power CPU options with new 32nm process technology
- See up to 50% performance boost over Xeon 5500 processors<sup>1</sup>

### Energy Efficiency:

- Choose from a wider range of CPU power levels for better alignment of power and performance server CPUs
- Get even better performance per Watt over a full range of system utilization with Intel® Turbo Boost Technology optimizations

# Spend Less Time Administrating Clusters with Intel® Cluster Checker

Viglen systems come pre-installed with Intel® Cluster Checker—a powerful certification, diagnostic, and troubleshooting tool that serves multiple purposes. Before you receive your cluster, we use Intel Cluster Checker to validate your cluster configuration and verify each copy of a cluster “recipe,” or reference design so we know that it comes to you working the way that it should.

You can also use Intel Cluster Checker to keep an eye on your system’s health and head off potential problems before they start by evaluating your cluster and making sure it stays within certification. Finally, you can also use Intel Cluster Checker as a troubleshooting tool that helps not only identify problems, but also determine whether it’s hardware or software related, allowing you to spend less time on the phone and more time up and running.

For more information about Viglen Intel Cluster Ready products, visit [www.viglen.co.uk/viglen/Products\\_Services/HPC/ClusterReady.aspx](http://www.viglen.co.uk/viglen/Products_Services/HPC/ClusterReady.aspx)

For more information about Intel® Cluster Ready, visit [www.intel.com/go/cluster](http://www.intel.com/go/cluster)

*“Integrating the Intel® Cluster Checker tool as part of our standard cluster build and testing processes reduces the time to validate HPC configurations tremendously.”*

BORDAN TKACHUK, CEO  
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1. over current-generation Intel® Xeon X5500 (4c, 2.93GHz)
2. over current-generation Xeon® 5500 series using vConsolidate

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