



For IT Specialists, VARs, Vendors, IT Consultants Solve Storage Performance Problems Fast

ORtera Atlas storage performance analysis software will make your storage troubleshooting and configuration process more effective, faster, cheaper, and fun

- ▶ Lower Response Time
- ▶ Improve Performance Reliability
- ▶ Increase Throughput Capability
- ▶ Increase Headroom
- ▶ Completely Understand Your Storage Performance Limits and Capabilities
- ▶ Know Your Performance is the Best It Can Be

ORtera's patented technology reveals bottlenecks, capabilities, and constraints no other application can reveal.

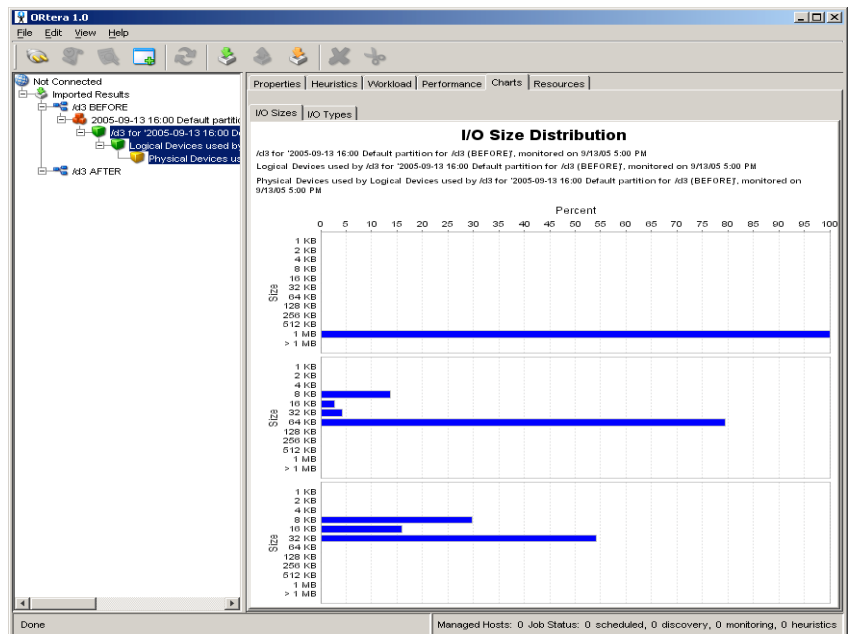
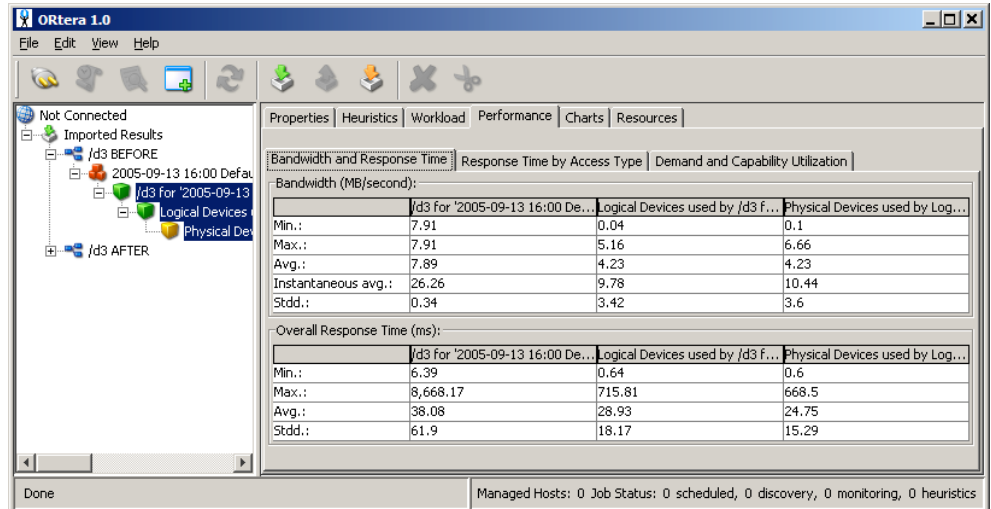
ORtera is the only application that captures discrete, empirical I/O activity data at each layer of the storage subsystem, analyzes its composition and shows you how the I/O for each process is transformed by each layer.

- ▶ Increase your storage efficiency and performance
- ▶ Target and obtain application quality of service
- ▶ Anticipate and prevent potential bottlenecks, performance interruptions and downtime
- ▶ Manage change in infrastructure, quickly and with confidence
- ▶ Reduce cost of ownership
- ▶ Increase return on investment

ORTERA provides intelligence for storage-management configuration based on functional analysis and empirical workload and resource data, bringing you "what to do" intelligence, for "how to do" storage management applications.

With **ORTERA** storage performance analysis software you will deliver a much higher level of accuracy than with legacy storage configuration and management applications, which lack high-resolution instrumentation, and rely on broad generalizations of workload composition.

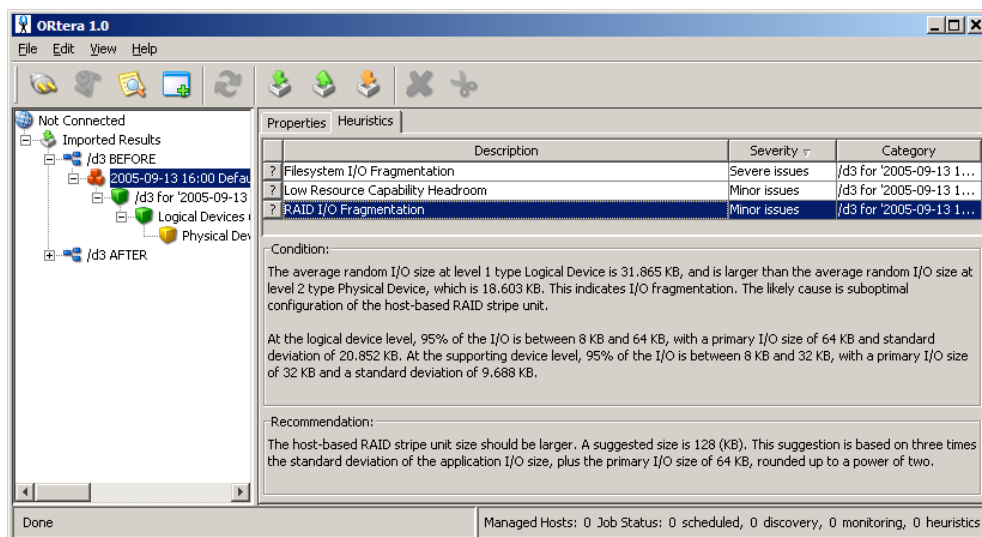
ORTERA reveals application demands and storage resource capabilities using discrete-resolution I/O characterization and empirical resource capability profiles. The **ORTERA** patented algorithms show you exactly how your existing resources are utilized.



ORTERA diagnostics and heuristics scale from optimizing directly attached storage for a single database server, to planning and optimization of an entire storage grid. The **ORTERA** approach has been used successfully on large-scale systems for companies like Chrysler, Kodak, Cisco, DHL and AT&T.

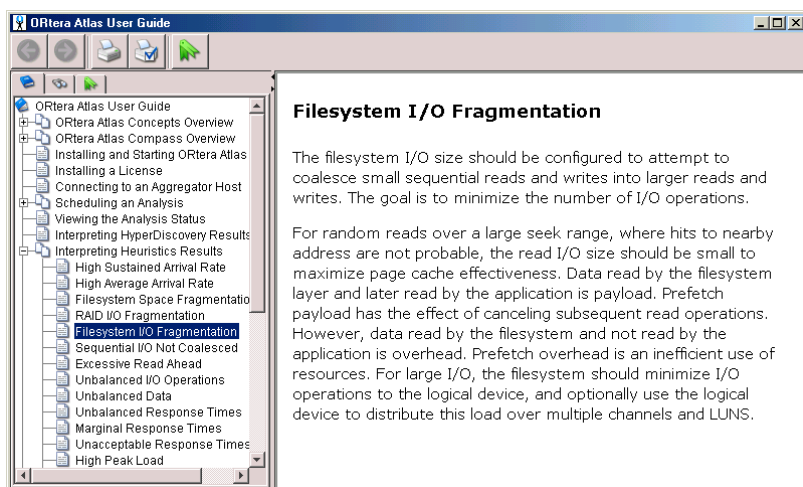
ORTERA delivers:

- Storage dependency discovery
- Application workload monitoring
- Workload consistency analysis
- Inconsistent I/O transfer size relationship diagnostics
- Identification of uneven load distribution
- Illumination of causes of inordinately high response times
- Revealed overloading conditions
- Graphical user interface, and other interface options
- APIs
- Efficient resource allocation with minimal staff time and effort, resulting in continuous high performance, reduced cost of ownership and increased ROI.



ORTERA HyperDiscovery™: Through the comprehensive *HyperDiscovery™* process, **ORTERA** analyzes the I/O activity for all monitored processes (applications) and all monitored storage devices, and automatically discovers the application and resource elements, as well as the dependencies between them.

Legacy management tools tell you that a certain device is reaching its storage capacity or that I/O response times are unacceptable in the context of your current configuration. **ORTERA** provides intrinsic workload characterization with an analytical model that solves the problem of mapping demand to capability with deterministic accuracy. Thus, **ORTERA** provides the *what to do, when, where* and *why* of



storage configuration, enabling you to employ a proactive approach to resource optimization.

Easy navigation: The **ORTERA** interface offers easy navigation through the information captured, and through the array of powerful planning and analysis tools. **ORTERA** provides multiple views of the infrastructure elements. For instance, through one view, you see how the application is using specific storage resources at different levels. Through another view, you see all storage resources, and which applications use them.

Feature	Function	Benefit
HyperDiscovery™	Automatic discovery of analysis and planning objects	Simplifies understanding of complex configurations
ORTERA Heuristics™	Illuminates and diagnoses the most common performance-degrading storage problems	Greater transparency and improved performance
ORTERA Compass™	User-configurable access to information and tools	Access to data and Heuristics on your terms

The autonomic data center of the future requires the intelligence of *what to do, when, where and why*. With **ORTERA, that intelligence is in your hands today.**

