

VERITAS CommandCentral™ MicroMeasure 4.0

Data Center Usage Visibility and Chargeback

Demand for a new class of data center management applications is being driven by a number of significant trends in the IT environment. With the proliferation of distributed and open systems and increased complexity of the computing environment, more focus is being applied to the management of the “business” of the data center. Additionally, as businesses have experienced more variability in their growth rates, there is an increased focus on improving the return on investment of their existing IT infrastructure. Finally, spending on new IT resources is under pressure due to the greater focus on general cost management and business justification of these expenditures.

These trends have led to the following specific issues for data center operators:

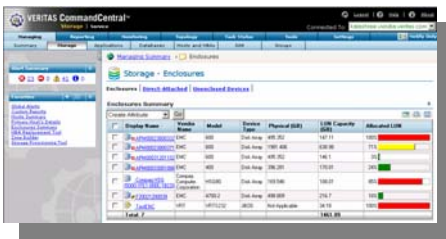
- Critical need to understand the actual utilization of data center resources and their specific impact to the cost structure or revenue opportunity of the organization
- Need for decision support tools to help prioritize and plan for infrastructure/server consolidation or capacity optimization activities
- Pressure to understand total costs across the data center and link these costs to resource usage of specific applications and user groups
- Need for systems to enable accurate usage-based data center resource cost reporting and chargeback

VERITAS CommandCentral™ MicroMeasure is a comprehensive data center cost management application that provides visibility and alignment of IT to the business objectives by enabling usage based reporting, cost allocation and chargeback of IT assets. The CommandCentral MicroMeasure application has been designed to operate in today's dedicated data center environments or in utility computing environments of tomorrow where resources are shared, virtualized, and even dynamic. In this economy of cost cutting and consolidation, it has become increasingly important for the CIO and even CFO to understand asset utilization and align costs appropriately.

Key Features

- Measurement of multiple data center resources: CPU, storage in user directories, bandwidth, transactions, etc
- Pluggable meter framework to allow for custom meter development or integration with existing meters and monitors
- Centralized loading, management and configuration of meter agents
- Flexible filtering of data provides integrated view of usage of multiple resources tied to applications or users
- Real-time reporting in multiple formats, with XML data integration capability to other systems together with an end user portal
- Robust, flexible, multi-tiered resource rating, chargeback and invoicing engine

Current data center-focused management systems stop at metering network traffic or monitoring the status of various elements of distributed computing environments. These systems leave the IT manager short of being able to report business-level information based on actual usage. CommandCentral MicroMeasure provides multi-level reports using resource metrics such as CPU time or GB, and economic metrics such as costs per application or infrastructure component. This allows managers to create a key set of management reports that can help them run the data center like a business.

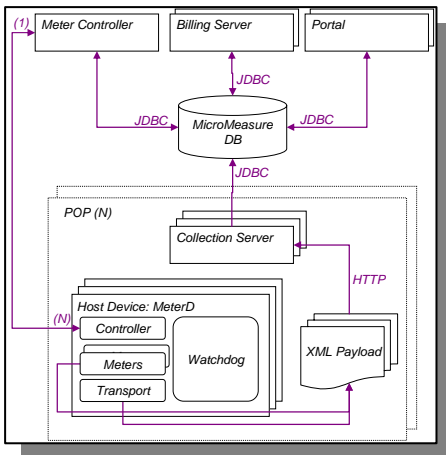


VERITAS CommandCentral™

VERITAS CommandCentral is a family of products that enable IT organizations to provide shared infrastructure services that are measurable, accountable, and precisely integrated with business objectives, thereby enabling higher service levels while lowering IT costs and facilitating Utility Computing.

CommandCentral™ MicroMeasure Architecture

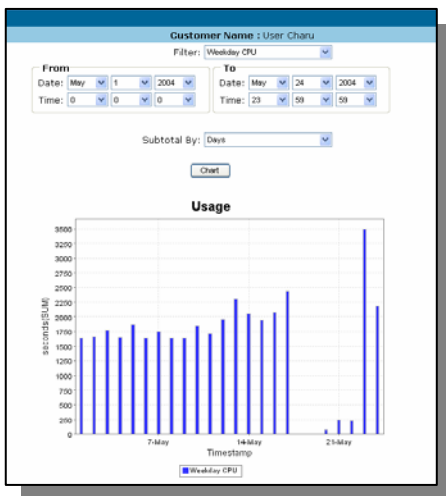
The modular architecture of CommandCentral MicroMeasure has been designed to address scaling and distributed environment needs of both small-scale operations of a handful of servers to large-scale data center environments. The architecture supports web-based interfaces for managing and configuring meters, mapping utilization data to customer groups and creating bill plans and chargeback reports, and an end-user portal for customer-specific views of usage and billing data.



Integration with Other Systems

There are a number of integration points across CommandCentral MicroMeasure's architecture allowing for easy interface with existing systems:

- A pluggable meter architecture which allows for the inflow of externally generated data
- Invoices generated in XML files which can be imported directly into accounting systems such as SAP, QuickBooks, etc.
- Open database for direct reporting integration



Meters Available

VERITAS continues to expand its library of meters. Meters available today include:

Meter	Description
CPU	Measure of CPU seconds associated with specific processes or applications when in use – a measure of computing throughput
Storage	Sample of amount of storage being utilized within a specific directory structure
Server Bandwidth	Data throughput at a server interface

CommandCentral™ MicroMeasure Interoperability

Component	Platform
System	Solaris 8
Database	Oracle 8i Standard Edition
Meters	Solaris 8, 9/ SPARC AIX 5.2/ PowerPC Linux Red Hat ES 3/ Intel Windows 2000/ Intel

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