

Data Sheet

xStream™ Management Platform

Virtustream’s xStream Management Platform provides a unified, cloud-agnostic control plane that integrates infrastructure orchestration, enterprise application automation and a suite of business intelligence and service management tools.

This powerful combination allows for the delivery of enterprise IT as a service, with true consumption economics, application service-level agreements, and best-in-class security and compliance features.

µVM: True Cloud Economics

Virtustream Micro-VM (µVM) resource management is the company’s patented cloud resource management technology. A µVM is a standardized, fine-grained bundle of computing resources that allows for the fair and accurate provisioning and measurement of resources in clouds powered by xStream.

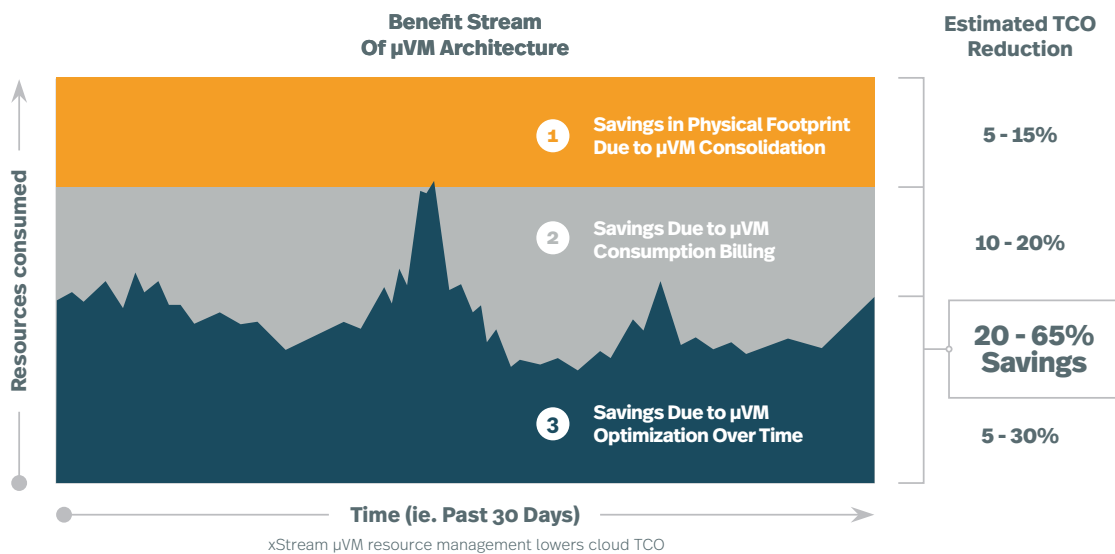
Fully compatible with traditional virtualization, µVM resource management’s consumption-based approach yields significant advantages compared to the allocation-based method of other clouds, including unified measurement and billing across clouds, improved performance, more efficient resource utilization and true consumption billing with chargeback and showback features.

Infrastructure Efficiency

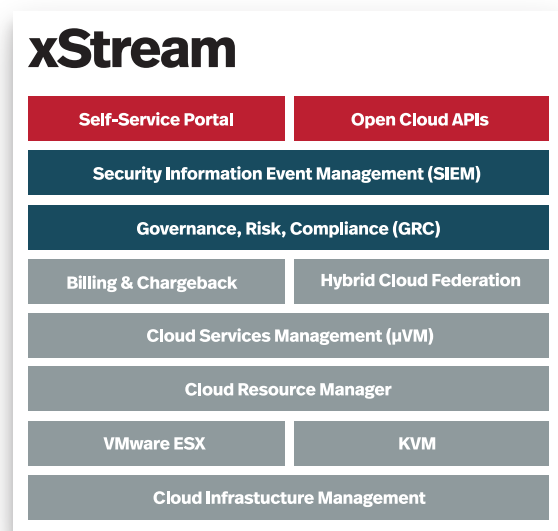
Our software diffuses the definitional bounds of virtual machines so we can size and service technology landscapes to individual application requirements for compute, RAM, storage IOPs and network bandwidth. xStream resides as an abstraction-based control plane above the virtual machine management layer in the cloud IaaS stack, and uses µVM data, application profiling and predictive analytics to dynamically tailor resource allocation to meet workload resource demands and performance requirements.

Enterprise Application Ready

xStream App Director is a macro-orchestrator that automates, through a library of blueprints, the interdependent and sequenced actions across the various system components of an application landscape to perform a particular type of action on the environment. We don’t just address the automation of these management functions for enterprise apps such as SAP S/4HANA, but for the full ecosystem of web applications that interface with these core systems.



In addition to the CPU and RAM measurements typically used by cloud service providers to allocate virtual machine resources, xStream incorporates network and storage I/O, ensuring that workloads are never I/O starved, regardless of transaction or storage read/write volume. These metrics are also used to define service level agreements. Enterprise IT can now run existing applications, including production SAP, Oracle, Microsoft, and custom applications in public, private or hybrid cloud environments, with SLAs structured at the application performance level rather than simple infrastructure availability.



Integrated Service Management

xStream was built from the ground up as a service delivery platform for both single and multi-tenant environments. A multi-tiered work flow and security model allows for delegation of management tasks from service provider to client organization and end user, with an integrated service catalog and shopping cart functionality for ease of deployment. Chargeback and showback features facilitate internal billing work flows with true consumption billing powered by the µVM.

Chip-to-Compliance Security

xStream provides robust security capabilities, including integrated role-based access controls; encryption at rest, in motion and in use; geotagging and geofencing features; comprehensive auditing and reporting capabilities; and a defense in depth architecture. These innate security features enables xStream to support FedRAMP, HIPAA, PCI DSS and many other certifications. The xStream enterprise risk management software suite delivers a secure hybrid cloud platform that enables continuous monitoring and alerting when critical threshold values have been exceeded or when sensitive configuration parameters have been changed.

Flexible, Hybrid Deployment & Cloud Federation

xStream gives one view across complex, distributed hybrid cloud environments, and can be added to existing data centers, existing virtualization or existing IT to provide public, private or hybrid enterprise clouds.

At A Glance

- Cloud management platform for enterprises and service providers
- Unified control plane federates distributed, hybrid cloud architectures
- Complete support for multi-tenant cloud environments
- Built to run mission-critical production enterprise applications in the cloud with world-class scalability and performance
- Enterprise-grade security, continuous risk management and compliance monitoring
- Lifecycle application automation and blueprint-based landscape deployment
- True consumption-based planning, optimization and billing
- Resource optimization with predictive analytics
- Extend your footprint to a global network of xStream-powered public clouds



Optimized For Enterprise Apps

Deploy and manage core applications such as SAP S/4HANA with cloud control and agility

Support SLAs at the application performance and latency level

Scheduled automation of complex application management tasks

Defense-In-Depth Security

Role-based access control

Data encryption at rest, in motion, and in use

Silicon level integrity attestation using Intel TXT

Continuous monitoring and compliance

Asset segregation into physical zones based on trust-purpose matrix

About Virtustream

Virtustream, a Dell Technologies business, is the enterprise-class cloud service and software provider trusted by enterprises worldwide to migrate and run their mission-critical applications in the cloud. For enterprises, service providers and government agencies, Virtustream's xStream management platform and Infrastructure-as-a-Service (IaaS) meets the security, compliance, performance, efficiency and consumption-based billing requirements of complex production applications in the cloud - whether private, public or hybrid.

