Xen 3.4 Data Sheet

Xen 3.4 Secure Hypervisor
Xen.org proudly announces the release of its state of the art open source hypervisor solution, Xen® 3.4. Xen 3.4 delivers the capabilities needed by enterprise customers and gives computing industry leaders a solid, secure platform to build upon for their virtualization solutions.

The Xen 3.4 hypervisor is the fastest and most secure infrastructure virtualization software available today, supporting a wide range of guest operating systems including Windows®, Linux®, Solaris®, and various versions of the BSD operating system. As an open source project, customers can easily deploy their virtualization solutions based on Xen 3.4 or take advantage of the broad industry support for Xen by working with virtualization solutions from leading computing vendors including Oracle, Red Hat, Novell, Citrix, Sun, Lenovo, Samsung, Fujitsu, and others that are built on Xen.

Open Source Hypervisor Supported by Leading Enterprise Vendors
The Xen 3.4 hypervisor is a unique open source technology, the result of a tremendous community effort, with contributions from over 150 developers world wide, and more than 20 enterprise infrastructure vendors, as well as the OSDL and top tier universities. Major backers of the Xen 3.4 hypervisor release include Intel, AMD, HP, Citrix, IBM, Novell, Red Hat, Sun, Fujitsu, Samsung, and Oracle.

Power Management
Xen 3.4 substantially improves the power saving features with a host of new algorithms to better manage the processor. Schedulers and timers are all optimized for peak power savings.

Desktop & Device Computing
Xen 3.4 delivers the first release of the Xen Client Initiative - a Xen hypervisor for client devices. This base client code delivers a solid foundation for the community to develop new features and extend the Xen hypervisor operational reach from servers to a wide variety of end-user devices.

Reliability - Availability - Serviceability
A collection of features designed to avoid and detect system failure, provide maximum uptime by isolating system faults, and provide system failure notices to administrators.

Performance & Scalability
Xen 3.4 significantly improves the already impressive Xen performance by releasing significant algorithm changes and improved pass-through processing techniques.

Xen 3.4 Secure Hypervisor Virtualization for Mainstream Operating Systems

Xen 3.4 Feature List

The complete list of new features in Xen 3.4 includes:

- *Desktop and Device Computing*
    - *Base Xen Client Hypervisor Code Availability*
- *Reliability – Availability – Serviceability*
- *PCI Pass-through*
    - *All PCI Slots available including hot plug*
    - *User selection of PCI slots*
    - *HVM Pass-through*
- *Power Management*
    - Better support to deep C-states with APIC timer/tsc stop
    - More efficient cpuidle 'menu' governor
    - More cpufreq governors (performance, userspace, powersave, ondemand) and drivers (IA64) supported
    - Enhanced xenpm tool to monitor and control Xen power management activities
    - MSI-based HPET delivery, with less broadcast traffic when cpus are in deep C-states
    - Power aware option for credit scheduler - sched_smt_power_savings
    - Timer optimization for reduced break events (range timer, vpt align)

Xen 3.4 Hypervisor Engine for Enterprise Virtualization

"We believe Xen 3.4 marks a significant step forward in the overall performance of our open source hypervisor," said Ian Pratt, founder and project chairman of Xen.org. "This new release is consistent with our vision of providing a highly scalable and secure open source engine which is increasingly becoming an industry standard."

To obtain the latest source code and build of Xen 3.4 go to http://www.xen.org.

About Xen.org. *Xen.org is the home of the open source Xen® hypervisor, a fast, secure industry standard code base for operating system virtualization. Founded and led by Ian Pratt the community benefits from the hundreds of contributors from leading hardware, software, and security vendors. Xen.org is guided by the Xen Advisory Board, which is drawn from key contributors to the project. For more information, visit* **www.xen.org**.