Lenovo XClarity Administrator and Lenovo XClarity Pro help IT organizations deploy physical systems faster and with less effort

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At a glance

Lenovo® XClarity is designed to simplify and automate foundational infrastructure tasks, enabling administrators to deploy systems faster and with less effort. The new solution seamlessly integrates into System x M5 and X6 rack servers and the Flex System converged infrastructure platform, providing a future-proof approach that centralizes and virtualizes resource management across multiple systems. The new solution is available in two editions: Lenovo XClarity Administrator and Lenovo XClarity Pro.

Overview

Lenovo XClarity is a new hardware resource management solution that is designed to simplify and automate foundational infrastructure tasks, seamlessly integrating into System x M5 and X6 rack servers and the Flex System converged infrastructure platform. The new solution is available in two editions: Lenovo XClarity Administrator and Lenovo XClarity Pro. Highlights of the new Lenovo XClarity Administrator solution include:

• Simplified hardware resource management through an intuitive, graphical user interface (GUI) and agentless, virtual appliance architecture
• Automated firmware updates, configuration patterns, and bare metal provisioning of operating systems and hypervisors for more rapid delivery of Lenovo systems into production
• Extensibility to integrate hardware resource management into external, higher level management, automation, and orchestration tools through REST application programming interfaces (APIs)
• Scripting and command-line control over hardware resources using Windows™ PowerShell

Lenovo XClarity Pro is a new suite that includes Lenovo XClarity Administrator and two software plugin modules: Lenovo XClarity Integrator for Microsoft™ System Center and Lenovo XClarity Integrator for VMware vCenter. Additional highlights of Lenovo XClarity Pro include:

• Centrally view and manage virtual and physical resources from Microsoft System Center or VMware vCenter consoles
• Reduce workload downtime in clustered environments by dynamically migrating workloads during rolling firmware updates, rolling server reboots, and predicted hardware failures
Licenses for the offerings in this announcement include one, three, or five years of Software Subscription and Support (S&S). Software Subscription and Support entitlements are managed in Passport Advantage® Express®. Refer to the Order handling section of this announcement for further details.

If a new release or version of an offering is made generally available in Passport Advantage Express after the announcement of the offering in the Lenovo ordering systems, clients with valid Software and Subscription contracts may elect to take electronic delivery of the latest release or version.

**Key prerequisites**

Refer to the Technical information section.

**Planned availability date**

April 30, 2015

**Description**

**Lenovo XClarity Administrator**

Delivered as an agentless, software virtual appliance that seamlessly integrates into System x M5 and X6 rack servers and the Flex System, Lenovo XClarity Administrator provides:

- Flexible solution setup onto a hypervisor inside or external to the pool of managed systems
- An intuitive, easy-to-use graphical user interface (GUI) to accomplish tasks faster
- Auto-discovery and monitoring of servers and chassis nodes, I/O modules, and components
- Unattended firmware updates and compliance enforcement
- Configuration patterns to define hardware configurations once, and apply repeatedly without errors
- Bare metal provisioning of operating systems and hypervisors to speed delivery into production
- Integration into existing management, automation, and orchestration platforms through open REST application programming interfaces (APIs) and PowerShell support

By simplifying and automating only foundational hardware resource management tasks, Lenovo XClarity Administrator delivers following benefits:

- Improves business agility by enabling rapid rollout of Lenovo System x servers and Flex System
- Saves administrators time through a software-defined approach to system deployment and firmware compliance
- Enables IT teams to manage hardware resources on their terms through an intuitive GUI, through Windows PowerShell scripting, or from external, higher-level tools using REST APIs

**Lenovo XClarity Pro**

Lenovo XClarity Pro is a new suite that includes Lenovo XClarity Administrator and two software plugin modules: Lenovo XClarity Integrators for Microsoft System Center and Lenovo XClarity Integrator for VMware vCenter. The Pro edition provides all the capabilities of Lenovo XClarity Administrator plus the following additional capabilities:
• Centrally manage virtual and physical resources from VMware vCenter or Microsoft System Center virtualization management platforms
• View Flex System chassis maps from within the virtualization management platform
• Ability to apply hardware Configuration Patterns to Flex System and System x servers
• Automated workload evacuation during rolling firmware updates, rolling server reboots, and predicted hardware failures to eliminate workload downtime in clustered ESXi or Hyper-V environments

Lenovo XClarity Pro delivers all the benefits of Lenovo XClarity Administrator plus the following additional benefits:

• Save time with capability that enables administrators to centrally view and manage virtual and physical resources
• Apply server firmware updates and configuration patterns from the virtualization management console
• Reduce planned and unplanned downtime in clustered environments by automatically evacuating workloads during rolling firmware updates, rolling server reboots, and predicted hardware failures

**Order handling**

To allow for ease of order submission, the offerings in this announcement can be configured in conjunction with eligible hardware, software, and license-only configurations that can be created for these offerings based on existing supported hardware in a given business environment.

Licenses for these offerings include one, three, or five years of Software Subscription and Support. Software Subscription and Support renewals for all features are aligned through Passport Advantage Express, reducing the administrative burden of keeping your Subscription and Support up to date.

If a new release or version of a given offering in this announcement is made generally available in Passport Advantage Express after the announcement of the offering in the original ordering systems, you may elect to take delivery of any release or version generally available for that offering during the product registration process.

Software and Subscription Entitlements for orders placed for the eligible offerings in this announcement will be routed and managed through Passport Advantage Express. Invoicing for the initial license orders will occur through the order management system in which the initial order was placed. Subscription and Support renewals will be managed through Passport Advantage Express.

Passport Advantage Express allows you to have a common anniversary date for Software Subscription and Support renewals. The anniversary date, established at the order ship date for the initial product acquisition, will remain unchanged while your Passport Advantage Express Agreement remains in effect. New software purchases initially include 12, 36, or 60 months of Subscription and Support coverage. Subscription and Support in the second year (the first year of renewal) can be prorated to be coterminous with your common anniversary date but managed and invoiced through Passport Advantage Express. Thereafter, all Software Subscription and Support will renew at the common anniversary date and include 12 full months of Subscription and Support.

**Product positioning**

The new Lenovo XClarity solution is ideal for clients who require simplified hardware resource management and faster deployment of Lenovo M5 and X6 rack servers and Flex System into production.
Reference information

Refer to Software Announcement ZP15-0173, dated April 07, 2015.

Product number

Software options

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<td>00JY346</td>
<td>Lenovo XClarity Administrator, per Mngd Server w/1 Yr SW S&amp;S</td>
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<td>Lenovo XClarity Administrator, per Mngd Server w/3 Yr SW S&amp;S</td>
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License metric definitions

Managed server

Managed server is a unit of measure by which the program can be licensed. A server is a physical computer that is comprised of processing units, memory, and input/output capabilities and that executes requested procedures, commands, or applications for one or more users or client devices.

Where racks, blade enclosures, or other similar equipment is being employed, each separable physical device (for example, a blade or a rack-mounted device) that has the required components is considered itself a separate server. Licensee must obtain managed server entitlements for each server managed by the program.

Pseudo options

Note: The following pseudo part numbers cannot be ordered as stand-alone parts and can only be ordered by configurator.

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<thead>
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<tr>
<td>00JY352</td>
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Publications

No publications are shipped with these programs.

Services

Technology Services

The list of selected services available in your region, either as standard or customized offerings, for the efficient installation, implementation, and integration of these products can be obtained from your respective Technology Services Regional Lenovo Services Executive.

Technical information

Specified operating environment

Hardware requirements

*Lenovo XClarity Administrator: Managed System x and Flex System infrastructure*

- Flex System chassis, compute nodes, I/O modules
- System x3550 M5 machine type 5463
- System x3650 M5 machine type 5462
- System x3850 X6 / x3950 X6 machine type 6241

Support for Lenovo X6 servers will be delivered with the X6 Haswell model announce in May 2015. Lenovo XClarity Administrator will be supported on all Lenovo X6, 6241 Machine Types, however non-Haswell models will require a firmware update to the Haswell level system code. Earlier IBM-branded models of X6 will not be supported by Lenovo XClarity Administrator.

*Lenovo XClarity Pro: Managed System x and Flex System infrastructure*

- Lenovo XClarity Administrator supported hardware systems
- Other System x and BladeCenter infrastructure can be managed directly from the Lenovo XClarity Integrators for Microsoft System Center or VMware vCenter

Software requirements

Hypervisors for installing the management solution virtual appliance

- Microsoft Windows (includes Hyper-V): 2012 r1, or later, with Hyper-V installed
- VMware vSphere (ESXi): 5.1u1, 5.5, and later, operating systems for deploying images onto bare metal servers and compute nodes
- Microsoft Windows (includes Hyper-V): 2012 r1, r2
- Red Hat Enterprise Linux™ (includes KVM): 6.2, 6.3, 6.4, 6.5, 6.6, 7.0
- VMware vSphere (ESXi): 5.1, 5.1u1, 5.1u2, 5.1u3, 5.5, 5.5u1, 5.5u2, 6.0

Limitations

Refer to Usage restrictions in the Terms and conditions section of this announcement or to the License Information document that is available on the Lenovo Software License Agreement website

http://www.lenovo.com/sla
Planning information

Customer responsibilities
You are responsible for downloading or obtaining from Lenovo, and installing designated Machine Code (microcode, basic input/output system code (called "BIOS"), utility programs, device drivers, and diagnostics delivered with a Lenovo machine) and other software updates in a timely manner from a Lenovo Internet website or from other electronic media, and following the instructions that Lenovo provides. You may request Lenovo to install Machine Code changes; however, you may be charged for that service.

Cable orders
Not applicable.

Packaging
For the software products in this announcement, physical media and hardcopy documentation are not included in the deliverable package.

After receipt of an order, the Business Partner or user client will be required to register and accept Passport Advantage Express terms and conditions. These products include the license and one, three, or five years of Software Subscription and Support.

Your Proof of Entitlement for this program is a copy of a paid sales receipt, purchase order, invoice, or other sales record from Lenovo or its authorized reseller from whom you acquired the program, provided that it states the license charge unit (the characteristics of intended use of the program; for example, number of processors, number of users) and quantity acquired.

Security, auditability, and control
This product uses the security and auditability features of the system in which it is installed.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

Technology Services
Contact your Lenovo representative for the list of selected services available in your country, either as standard or customized offerings, for the efficient installation, implementation, and/or integration of this product.

Terms and conditions

Lenovo Direct terms and conditions
These products are available under the terms and conditions of the Lenovo International Program License Agreement (IPLA). Registration is required in Passport Advantage Express in order to acquire the product and register for subscription and support entitlement. Proofs of Entitlement (PoE) are required for all authorized use.

| Field Installable Features | Yes |
| Customer Setup | Yes |
| Model Conversions | No |
| Product Availability Status | New |
Lenovo warrants that the program will conform at the date of shipment to the current specifications, provided that the program is properly used in the specified operating environment.

If you believe there is a defect in a program such that it does not meet its specifications, you must notify Lenovo while program services are available for the program.

**Note:** Lenovo programs are licensed under the terms and conditions of the Lenovo International Program License Agreement. Proofs of Entitlement (PoE) are required for all authorized use.

**Features and options only**

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<td>Field Installable</td>
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<tr>
<td>Customer Setup</td>
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<tr>
<td>Support Period</td>
<td>Program Services will be available for a minimum of five years. A formal withdrawal will be issued one year prior to end of Program Services.</td>
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<td>Optional Upgrade</td>
<td>No</td>
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<td>Licensed Programs</td>
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**Licensing**

Lenovo International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

These software license includes Software Subscription and Support (also referred to as Software Maintenance). These programs are licensed under the Lenovo Program License Agreement (IPLA). Lenovo includes Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired.

**License Information Form Numbers**

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<td>L-VJOI-9SXC8N</td>
<td>Lenovo XClarity Administrator &amp; Lenovo XClarity Pro</td>
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On or near the planned availability date, the current License Information documents will be available for review on the Lenovo Software License Agreement website

http://www.lenovo.com/sla

**Limited warranty**

Lenovo warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. Lenovo does not warrant uninterrupted or error-free operation of the program or that Lenovo will correct all program defects. You are responsible for the results obtained from the use of the program.

Lenovo provides you with access to IBM® databases containing information about known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the *Lenovo Software Support Handbook* found at

http://support.lenovo.com
Lenovo will maintain this information for at least five years after the original licensee acquires the program (warranty period).

**Development/Demo discount**
Up to 100%, contact your local Lenovo Business Partner Office for details on participation (local limitations, if any, prevail).

**Usage restrictions**
None

**Remarketer terms and conditions**
The announced products are available under the terms and conditions of the Lenovo Business Partner Agreement. These terms and conditions apply to Lenovo Business Partners who are approved for returns and price protection.

**Returns policy**
The announced products are not eligible for returns.

**Field-installable features**
Yes

**Model conversions**
No

**Machine installation**
Customer setup. Customers are responsible for installation according to the instructions Lenovo provides with the machine.

**Licensed Internal Code and Licensed Machine Code**
This product does not contain Licensed Internal Code or Licensed Machine Code.

### Prices
For all local charges, contact your Lenovo representative.

### Announcement countries
All European, Middle Eastern, and African countries.

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