



Libvirt for LDomS 1.0.1 Release Notes

Sun Microsystems, Inc.
www.sun.com

Part No. 820-3839-10
December 2007, Revision 01

Submit comments about this document at: <http://www.sun.com/hwdocs/feedback>

Copyright 2007 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, U.S.A. All rights reserved.

Sun Microsystems, Inc. has intellectual property rights relating to technology that is described in this document. In particular, and without limitation, these intellectual property rights may include one or more of the U.S. patents listed at <http://www.sun.com/patents> and one or more additional patents or pending patent applications in the U.S. and in other countries.

U.S. Government Rights—Commercial use. Government users are subject to the Sun Microsystems, Inc. standard license agreement and applicable provisions of the FAR and its supplements.

Parts of the product may be derived from Berkeley BSD systems, licensed from the University of California. UNIX is a registered trademark in the U.S. and in other countries, exclusively licensed through X/Open Company, Ltd.

Sun, Sun Microsystems, the Sun logo, Java, docs.sun.com, Sun BluePrints, OpenBoot, OpenSolaris, JumpStart, and Solaris are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and in other countries.

All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. in the U.S. and in other countries. Products bearing SPARC trademarks are based upon an architecture developed by Sun Microsystems, Inc.

The Adobe PostScript logo is a trademark of Adobe Systems, Incorporated.

Products covered by and information contained in this service manual are controlled by U.S. Export Control laws and may be subject to the export or import laws in other countries. Nuclear, missile, chemical biological weapons or nuclear maritime end uses or end users, whether direct or indirect, are strictly prohibited. Export or reexport to countries subject to U.S. embargo or to entities identified on U.S. export exclusion lists, including, but not limited to, the denied persons and specially designated nationals lists is strictly prohibited.

DOCUMENTATION IS PROVIDED "AS IS" AND ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE DISCLAIMED, EXCEPT TO THE EXTENT THAT SUCH DISCLAIMERS ARE HELD TO BE LEGALLY INVALID.

Copyright 2007 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, Californie 95054, États-Unis. Tous droits réservés.

Sun Microsystems, Inc. possède les droits de propriété intellectuels relatifs à la technologie décrite dans ce document. En particulier, et sans limitation, ces droits de propriété intellectuels peuvent inclure un ou plusieurs des brevets américains listés sur le site <http://www.sun.com/patents>, un ou les plusieurs brevets supplémentaires ainsi que les demandes de brevet en attente aux les États-Unis et dans d'autres pays.

Des parties de ce produit peuvent dériver des systèmes Berkeley BSD licenciés par l'Université de Californie. UNIX est une marque déposée aux États-Unis et dans d'autres pays, licenciée exclusivement par X/Open Company, Ltd.

Sun, Sun Microsystems, le logo Sun, Java, docs.sun.com, Sun BluePrints, OpenBoot, OpenSolaris, JumpStart, et Solaris sont des marques de fabrique ou des marques déposées de Sun Microsystems, Inc. aux États-Unis et dans d'autres pays.

Toutes les marques SPARC sont utilisées sous licence et sont des marques de fabrique ou des marques déposées de SPARC International, Inc. aux États-Unis et dans d'autres pays. Les produits portant les marques SPARC sont basés sur une architecture développée par Sun Microsystems, Inc.

Le logo Adobe PostScript est une marque déposée de Adobe Systems, Incorporated.

Les produits qui font l'objet de ce manuel d'entretien et les informations qu'il contient sont regis par la législation américaine en matière de contrôle des exportations et peuvent être soumis au droit d'autres pays dans le domaine des exportations et importations. Les utilisations finales, ou utilisateurs finaux, pour des armes nucléaires, des missiles, des armes biologiques et chimiques ou du nucléaire maritime, directement ou indirectement, sont strictement interdites. Les exportations ou réexportations vers des pays sous embargo des États-Unis, ou vers des entités figurant sur les listes d'exclusion d'exportation américaines, y compris, mais de manière non exclusive, la liste de personnes qui font objet d'un ordre de ne pas participer, d'une façon directe ou indirecte, aux exportations des produits ou des services qui sont régi par la législation américaine en matière de contrôle des exportations et la liste de ressortissants spécifiquement désignés, sont rigoureusement interdites.



Adobe PostScript

Contents

Support Information	1
Community Discussion and Support	1
Supported OS on LDom's Guest Domains	1
LDom's Software Supports Paravirtualization Only	2
General Issues	2
Must Be Superuser to Run <code>virsh</code> and <code>virt-install</code>	2
Insufficient Memory Error	2
MAC Address Format	2
Indentation Error in <code>libxml2.py</code> File	3

Libvirt for LDOMs 1.0.1 Release Notes

These release notes contain support information and general issues about this release of Libvirt for LDOMs 1.0.1 software.

Support Information

Community Discussion and Support

After successfully downloading this software, please participate in this community discussion and receive community-based support. To obtain community-based support, go to the Logical Domains OpenSolaris™ community site at:

<http://opensolaris.org/os/community/ldoms/>

Supported OS on LDOMs Guest Domains

For Logical Domains software, the guest domain must run an operating system that understands the sun4v platform and the virtual devices presented by the hypervisor. Currently, this is the Solaris 10 11/06 OS plus patches at a minimum. For more information, refer to the *Logical Domains (LDMs) 1.0.1 Release Notes*.

For the `virt-install` script, only the Solaris OS installation is supported and tested. The LDOMs guest domain might run the latest Ubuntu Linux distribution. However, installing Linux using the `virt-install` script has not been tested.

LDoms Software Supports Paravirtualization Only

Sun's intersection of virtualization and management (xVM) technology supports two levels of virtualization. In the first level, paravirtualization, the operating system is aware that it is running under xVM software. In the second level, fully virtualized, the guest operating system is not aware that it is running under xVM software.

Unlike xVM software, LDoms software runs only in paravirtualization mode. Therefore, even if you do not specify the `-p` (`--paravirt`) option for the `virt-install` script, the LDoms guest is paravirtualized.

General Issues

Must Be Superuser to Run `virsh` and `virt-install`

You must have superuser privileges to run the virtual shell (`virsh`) commands and the `virt-install` script.

Insufficient Memory Error

When you change a domain's memory allocation using the `virsh(1M) setmem` command, you must specify the amount of memory as greater than 4000 kilobytes. If you do not, you receive this message:

```
libvir: Domain error domain: invalid argument in virDomainSetMemory
```

Recovery: Increase the memory to more than 4000 kilobytes.

MAC Address Format

Using the `-m` (`--mac`) option for the `virt-install` script, you can supply a fixed MAC address for the guest domain's virtual network devices. The MAC address format must be similar to:

00:14:4F:FC:00:00

The following MAC address format causes an invalid MAC address error:

00-14-4F-FC-00-00

For more information about using MAC addresses with Logical Domains software, refer to the *Logical Domains (LDoms) 1.0.1 Administration Guide*.

Indentation Error in libxml2.py File

The libxml2.py file, which is used by the virt-install script, can give the following indentation error.

```
# virt-install --connect=ldoms:///default
Traceback (most recent call last):
  File "/usr/sbin/virt-install", line 24, in ?
    import libxml2
  File "/usr/lib/python2.4/vendor-packages/libxml2.py", line 215
    pass
    ^
TabError: inconsistent use of tabs and spaces in indentation
```

If you receive the indentation error, edit line 215 of the following file to use the spaces instead of tabs:

/usr/lib/python2.4/vendor-packages/libxml2.py

The libxml2.py file is *not* part of the virt-install code.

