Finding system serial numbers

January 2016
Study guide

This course is owned and published by Enterprise Services Education.
# Table of contents

**Preface** .......................................................................................................................................................... 4  
Finding system serial numbers .......................................................................................................................... 4  

**Finding system serial numbers** .................................................................................................................... 5  
Use tools to locate serial numbers .................................................................................................................... 5  
  IMM GUI ......................................................................................................................................................... 5  
  IMM CLI ......................................................................................................................................................... 8  
  CMM GUI ....................................................................................................................................................... 9  
  CMM CLI ....................................................................................................................................................... 12  
  LXCA GUI .................................................................................................................................................... 14  
  ASU CLI ......................................................................................................................................................... 19  
  Director GUI ................................................................................................................................................. 20  
Manually locate the serial numbers on the machines ......................................................................................... 21  
  System x ....................................................................................................................................................... 21  
  ThinkServer ............................................................................................................................................... 24
Finding system serial numbers – Preface

Preface

Finding system serial numbers

This document may not be copied or sold, either in part or in whole, to non-Lenovo personnel.

Current release date: January 2016
Current release level: 1.00

The information in this publication is current as of the date of the latest revision and is subject to change at any time without notice.

To provide feedback or receive more information about this course, send an e-mail to: x86ServerEdu@lenovo.com
Finding system serial numbers

Use tools to locate serial numbers

**Note:** To use CLI to connect IMM, CMM, ASU, and so on, install a tool like PuTTY on your computer.

**IMM GUI**

1. Enter your User name and Password and log in to the IMM.

![Integrated Management Module login page](image)
2. After logging in, click **System Information**.

![System Information tab](image)

Figure 2: System Information tab
Finding system serial numbers – Tools

3. The system serial number is listed in the System Information Quick View.

Figure 3: System Information quick view
Finding system serial numbers – Tools

IMM CLI

1. Use the `ssh xxx.xxx.xxx.xxx -l USERID` command to connect to the IMM.
2. If the question “Are you sure you want to continue connecting (yes/no)?” appears, enter yes.
3. Enter the password.
4. Use the `vpd sys` command to show the system serial number.

```
$ ssh 10.240.60.117 -l USERID
The authenticity of host '10.240.60.117 (10.240.60.117)' can't be established.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.240.60.117' (RSA) to the list of known hosts.
Password:
system> info
SystemName: x395Dx6-1n1
ContactPerson: Henry
Location: 8
FullPostalAddress:
RoomID: 4N13
RackID: 3
LowestU: 1
HeightU: 4
```

```
$ vpd sys
usage:
  vpd sys  -  displays Vital Product Data for the system
  vpd imm  -  displays Vital Product Data for the Management Controller(imm)
  vpd uEFI  -  displays Vital Product Data for system BIOS
  vpd dSA  -  displays Vital Product Data for System diag
  vpd fw   -  displays Vital Product Data for the system firmware
  vpd comp -  displays Vital Product Data for the system components
  vpd pcie  -  displays Vital Product Data for PCIe devices

$ system> vpd sys
MachineType-Model
----------
6241c1
Serial Number: XXXXX
UUID: BB13833077D011E3BE49000AF72576BC
```

Figure 4: IMM CLI
CMM GUI

1. Enter your User name and Password and log in the CMM.

Figure 5: CMM GUI log in
Finding system serial numbers – Tools

2. Click **System Information**.

![Figure 6: CMM system information](image)
3. The serial number is listed in System Information Quick View.

Figure 7: CMM system information quick view
Finding system serial numbers

CMM CLI

1. Use the `ssh xxx.xxx.xxx.xxx -l userid` command to connect CMM.

2. Type `info` at the system> prompt, and the serial number appears.

   ```
   $ ssh 10.240.60.90 -l userid
   userid@10.240.60.90's password:
   
   Hostname: Chassis-4
   Static IP address: 10.240.60.90
   Burned-in MAC address: 5C:F3:FC:25:DF:D7
   DHCP: Disabled - Use static IP configuration.
   
   system> info
   UUID: AC69 A078 4B80 4A79 96B5 4ADD D626 4B47
   Manufacturer: IBM (BG)
   Manufacturer ID: 20301
   Product ID: 336
   Mach type/model: 8721HC1
   Mach serial number: XXXXXX
   Manuf date: 2411
   Hardware rev: 52.48
   Part no.: 88Y6660
   FRU no.: 81Y2893
   FRU serial no.: 
   CLEI: Not Available
   CMM bays: 2
   Blade bays: 14
   I/O Module bays: 4
   Power Module bays: 6
   Blower bays: 10
   Rear LED Card bays: 1
   U Height of Chassis 10
   Product Name: IBM Chassis Midplane
   Device Description: Lenovo Flex System Chassis
   Global ID: Not Available
   Slots: 1
   Asset ID: Not Available
   Product version: Not Available
   Type: Chassis
   
   system>
   ```

Figure 8: CMM CLI
3. If you would like to locate an individual node, enter `info -T blade[5]`. Then, the serial number for this specific node appears.

```
Name: Node 05 (ch4bay5)
UUID: ABE0 90C6 D3FC 11E0 93A7 E5C6 3697 4A2B
Manufacturer: IBM (CLCN)
Manufacturer ID: 20301
Product ID: 321
Mach type/model: 8737Ac1
Mach serial number: XXXXXX
```

```
Manuf date: 3611
Hardware rev: 4.0
Part no.: 49Y8197
FRU no.: 81Y5128
FRU serial no.: 
CLEI: Not Available
Unique ID 1: Not Available
Unique ID 2: Not Available
Unique ID 3: Not Available
Unique ID 4: Not Available
Unique ID 5: Not Available
Unique ID 6: Not Available
Unique ID 7: Not Available
Unique ID 8: Not Available
Unique ID 9: Not Available
Unique ID 10: Not Available
```

Figure 9: Use CLI to target an individual node
LXCA GUI

1. Enter your User name and Password to connect to Lenovo XClarity Administrator (LXCA).

![LXCA login](image)

Figure 10: LXCA login
Finding system serial numbers – Tools

2. Click **Servers**.

![Figure 11: LXCA Dashboard page](image-url)
Finding system serial numbers – Tools

3. A list of servers appears.

![Servers list](image)

**Figure 12: Servers list**
4. Click any server you would like to use. In this example, x240 is selected.

Figure 13: Click any server
Finding system serial numbers – Tools

5. The serial number is listed on the Summary page.

Figure 14: x240 summary page
Finding system serial numbers – Tools

**ASU CLI**

1. Use the `asu64 show system_prod_data --host xxx.xxx.xxx.xxx --user USERID --password xxxxxxx` command to connect ASU

2. The system serial number appears.

```
C:\Data\asu>asu64 show system_prod_data --host 10.240.60.117 --user USERID --password
Lenovo Advanced Settings Utility version 10.0.071
Licensed Materials - Property of Lenovo
(C) Copyright Lenovo Corp. 2007-2014 All Rights Reserved
Connected to IMU at IP address 10.240.60.117
SYSTEM_PROD_DATA.SysInfoProdName=x221CC
SYSTEM_PROD_DATA.SysInfoProdIdentifier=System x3950 X6
SYSTEM_PROD_DATA.SysInfoSerialNum=XXXXX
SYSTEM_PROD_DATA.SysInfoUDI=BB13833977D41E3BE49004F72576BC
SYSTEM_PROD_DATA.SysInclAssetTag=
C:\Data\asu>
```

Figure 15: ASU CLI interface
Finding system serial numbers – Tools

**Director GUI**

1. Click the **General** tab to view the serial number.

![Director interface](image)

*Figure 16: Director interface*
Manually locate the serial numbers on the machines

System x

Table 1 and Table 2 lists the location of the serial number labels on System X machines.

Table 1: System X low-end systems label location

<table>
<thead>
<tr>
<th>Machines</th>
<th>Front</th>
<th>Top</th>
<th>Bottom</th>
<th>Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>X3250 M2, M3, M4</td>
<td>Right</td>
<td>None</td>
<td>Right</td>
<td>Left</td>
</tr>
<tr>
<td>X3350, X3400 M2, M3, M4</td>
<td>Bottom right</td>
<td>None</td>
<td>Back</td>
<td>None</td>
</tr>
<tr>
<td>X3450, X3455, X3500</td>
<td>None</td>
<td>None</td>
<td>back</td>
<td>None</td>
</tr>
<tr>
<td>X3530 M4</td>
<td>Right</td>
<td>middle</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>X3500 M2, M3, M4</td>
<td>Bottom right</td>
<td>None</td>
<td>left</td>
<td>None</td>
</tr>
<tr>
<td>X3550 M2, M3, M4</td>
<td>Left</td>
<td>Left</td>
<td>None</td>
<td>Left</td>
</tr>
<tr>
<td>X3610, X3620M2</td>
<td>Left</td>
<td>None</td>
<td>Right</td>
<td>Left</td>
</tr>
<tr>
<td>X3630 M3, M4</td>
<td>Left</td>
<td>Right</td>
<td>None</td>
<td>Right</td>
</tr>
<tr>
<td>X3650 HD</td>
<td>Left</td>
<td>Left</td>
<td>None</td>
<td>Right</td>
</tr>
<tr>
<td>X3650 M5</td>
<td>Left</td>
<td>Left</td>
<td>None</td>
<td>Left</td>
</tr>
<tr>
<td>3650 M2</td>
<td>Left</td>
<td>Left</td>
<td>None</td>
<td>Left</td>
</tr>
<tr>
<td>X3650 M3, M4</td>
<td>Right</td>
<td>None</td>
<td>None</td>
<td>Right</td>
</tr>
<tr>
<td>X3655, X3755</td>
<td>Middle</td>
<td>None</td>
<td>Left</td>
<td>Right</td>
</tr>
</tbody>
</table>
Finding system serial numbers – Labels

Table 2: System X high-end systems label location

<table>
<thead>
<tr>
<th>Machines</th>
<th>Front</th>
<th>Top</th>
<th>Bottom</th>
<th>Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>X3690 X5</td>
<td>Right</td>
<td>Left</td>
<td>None</td>
<td>Left</td>
</tr>
<tr>
<td>X3750 M4</td>
<td>Right</td>
<td>Right</td>
<td>None</td>
<td>Right</td>
</tr>
<tr>
<td>X3800, X3850 M2, X5, X6</td>
<td>Right</td>
<td>None</td>
<td>None</td>
<td>Right</td>
</tr>
<tr>
<td>X3950, X3950 M2, E, X6</td>
<td>Left</td>
<td>Left</td>
<td>Middle</td>
<td>Right</td>
</tr>
</tbody>
</table>

Figure 17, Figure 18, and Figure 19 are the examples of the different types of serial number labels.

Figure 17: Combination label

Figure 18: Standard serial and MTM types of labels
Finding system serial numbers – Labels

Figure 19: Standard serial and MTM labels

**Note:** If the label for the server serial number is damaged or missing, boot up the server, and go into the BIOS (F1 setup) to locate the serial number.
**ThinkServer**

**Attention:** Examples of various ThinkServer labels are displayed in Figure 20.

**Label 1**

![Label 1 Image]

70CV001EUX - this is the system model and system type

XXXXXXX - this is the system serial number

**Label 2**

![Label 2 Image]

**Label 3**

![Label 3 Image]

Figure 20: ThinkServer serial number labels
**Finding system serial numbers – Labels**

**Table 3** and **Table 4** list the location of the serial number labels on ThinkServer systems.

### Table 3: ThinkServer rack servers

<table>
<thead>
<tr>
<th>Machines</th>
<th>Front</th>
<th>Top</th>
<th>Bottom</th>
<th>Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>RD330</td>
<td>None</td>
<td>Label 2 (on the right)</td>
<td>Label 3</td>
<td>Label 1 (on the left)</td>
</tr>
<tr>
<td>RD430</td>
<td>None</td>
<td>Label 2 (on the right)</td>
<td>Label 3</td>
<td>Label 1 (on the left)</td>
</tr>
<tr>
<td>RD530</td>
<td>None</td>
<td>Label 2 (on the right)</td>
<td>Label 3</td>
<td>Label 1 (on the left)</td>
</tr>
<tr>
<td>RD630</td>
<td>None</td>
<td>Label 2 (on the right)</td>
<td>Label 3</td>
<td>Label 1 (on the left)</td>
</tr>
<tr>
<td>RD340</td>
<td>None</td>
<td>Label 2</td>
<td>Label 3</td>
<td>Label 1</td>
</tr>
<tr>
<td>RD440</td>
<td>None</td>
<td>Label 2</td>
<td>Label 3</td>
<td>Label 1</td>
</tr>
<tr>
<td>RD540</td>
<td>None</td>
<td>Label 2</td>
<td>Label 3</td>
<td>Label 1</td>
</tr>
<tr>
<td>RD640</td>
<td>None</td>
<td>Label 2</td>
<td>Label 3</td>
<td>Label 1</td>
</tr>
<tr>
<td>RD350</td>
<td>None</td>
<td>Label 3</td>
<td>None</td>
<td>Label 1* (on the left)</td>
</tr>
<tr>
<td>RD450</td>
<td>None</td>
<td>Label 3</td>
<td>None</td>
<td>Label 1* (on the left)</td>
</tr>
<tr>
<td>RD550</td>
<td>None</td>
<td>Label 3</td>
<td>None</td>
<td>Label 1* (on the left)</td>
</tr>
<tr>
<td>RD650</td>
<td>None</td>
<td>Label 3</td>
<td>None</td>
<td>Label 1 and 2* (on the left)</td>
</tr>
</tbody>
</table>

*The label may be below the rail assembly*
Finding system serial numbers – Labels

Table 4: ThinkServer tower servers

<table>
<thead>
<tr>
<th>Machines</th>
<th>Front</th>
<th>Top</th>
<th>Bottom</th>
<th>Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS130</td>
<td>Label 2</td>
<td>None</td>
<td>Label 3</td>
<td>None</td>
</tr>
<tr>
<td>TS430</td>
<td>None</td>
<td>None</td>
<td>Label 3</td>
<td>Label 2 (on the left at bottom front)</td>
</tr>
<tr>
<td>TS140</td>
<td>Label 2</td>
<td>None</td>
<td>Label 3</td>
<td>Label 2</td>
</tr>
<tr>
<td>TS440</td>
<td>None</td>
<td>None</td>
<td>Label 3</td>
<td>Label 1</td>
</tr>
<tr>
<td>RS140</td>
<td>None</td>
<td>Label 1</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>TD340</td>
<td>None</td>
<td>None</td>
<td>Label 3</td>
<td>None</td>
</tr>
<tr>
<td>TD350</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Label 2 and 3 (on the left)</td>
</tr>
</tbody>
</table>

**Note:** If the label for the server serial number is damaged or missing, boot the server and go into the BIOS (F1 setup) to locate the serial number. For fifth-generation (Grantley) servers, check the server serial number by connecting through the ThinkServer Deployment Manager (TDM). For third- and fourth-generation servers, the ThinkServer Management Module (TMM) cannot display the server serial number.