



Net LineDancer v13

Install Guide for Linux

Revision History

Revision Subject	Revisions
First Edition (v13.08)	Created as a First Edition (2013/09/03)

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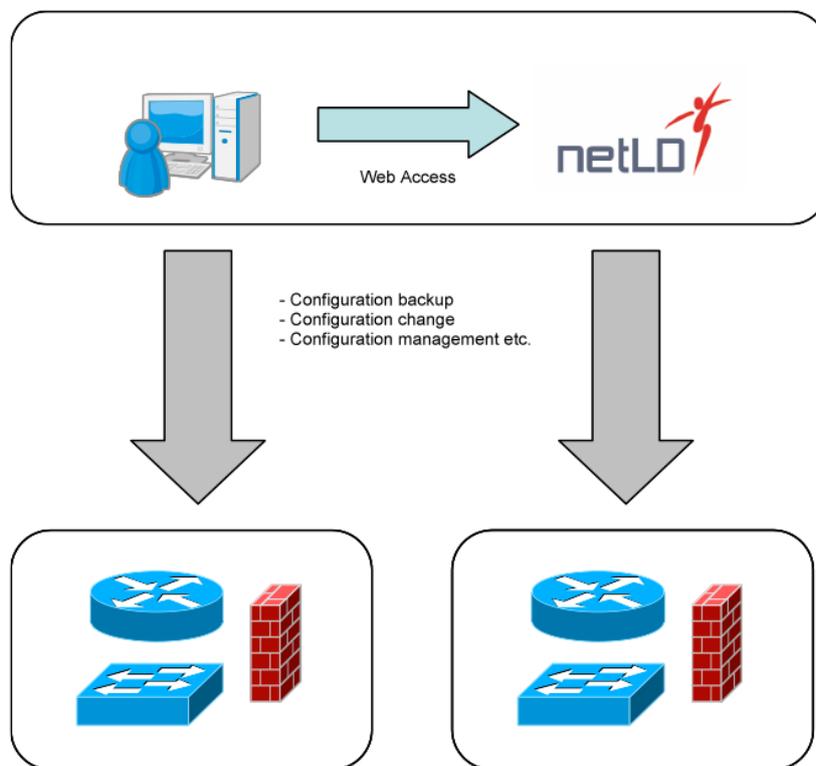
Introduction

This manual describes the functional overview and the operation methods from the installation to login of our product lines Net LineDancer v13.08 (hereafter referred to as “netLD”).

1 Overview

netLD is designed to help network engineers manage the configurations of the network devices, for example, routers or switches in their enterprises.

netLD provides inventory reports, browse of properties, configurations comparisons, password changes and automatically detecting configuration changes, reporting to NMS.



2 Port Usage

netLD uses the following ports. Set the network transmission of netLD servers and devices depending on using protocols, in case where accessing to the target devices through a firewall.

Net LineDancer Server/Smart Bridge ↔ Managed Device

Function	Protocol	Port	UDP/TCP	Direction
Zero-Touch	DHCP	67	UDP	netLD <-- dest
		68		netLD --> dest
	HTTP	80	TCP	netLD <-- dest
	TFTP	69	UDP	netLD <-- dest
	ICMP	-	-	netLD <-- dest
Discovery	SSH, Telnet	22,23	TCP	netLD --> dest
	SNMP	161	UDP	netLD --> dest
	ICMP	-	-	netLD --> dest
Setting Upload (restoring configurations)	TFTP	69	UDP	netLD <-- dest
Setting change tool *1	SSH, Telnet	22,23	TCP	netLD --> dest
Trap sending	SNMP	162	UDP	netLD --> dest
Real-time change detection	Syslog	514	UDP	netLD <-- dest
Backup tool *2	SSH, Telnet	22,23	TCP	netLD --> dest
	SNMP	161	UDP	netLD --> dest
	TFTP	69	UDP	netLD <-- dest
	FTP	21	TCP	netLD <-- dest

*1 Configured CLI protocols are used.

*2 According to the models of devices.

e.g.) Adapter for IOS: CLI (Telnet, SSH) or both of CLI and TFTP are used.

e.g.) Adapter for Alaxala: CLI (Telnet, SSH), FTP, SNMP are used.

Net LineDancer Server ← Client

	Protocol	Port	TCP/UDP	Direction
Client (Web Browser)	HTTPS	443	TCP	netLD <-- client

Net LineDancer Server → Smart Bridge

	Protocol	Port	TCP/UDP	Direction
Smart Bridge	HTTPS	10443	TCP	netLD --> Smart Bridge

3 Installation

3-1 Precautions for Installation

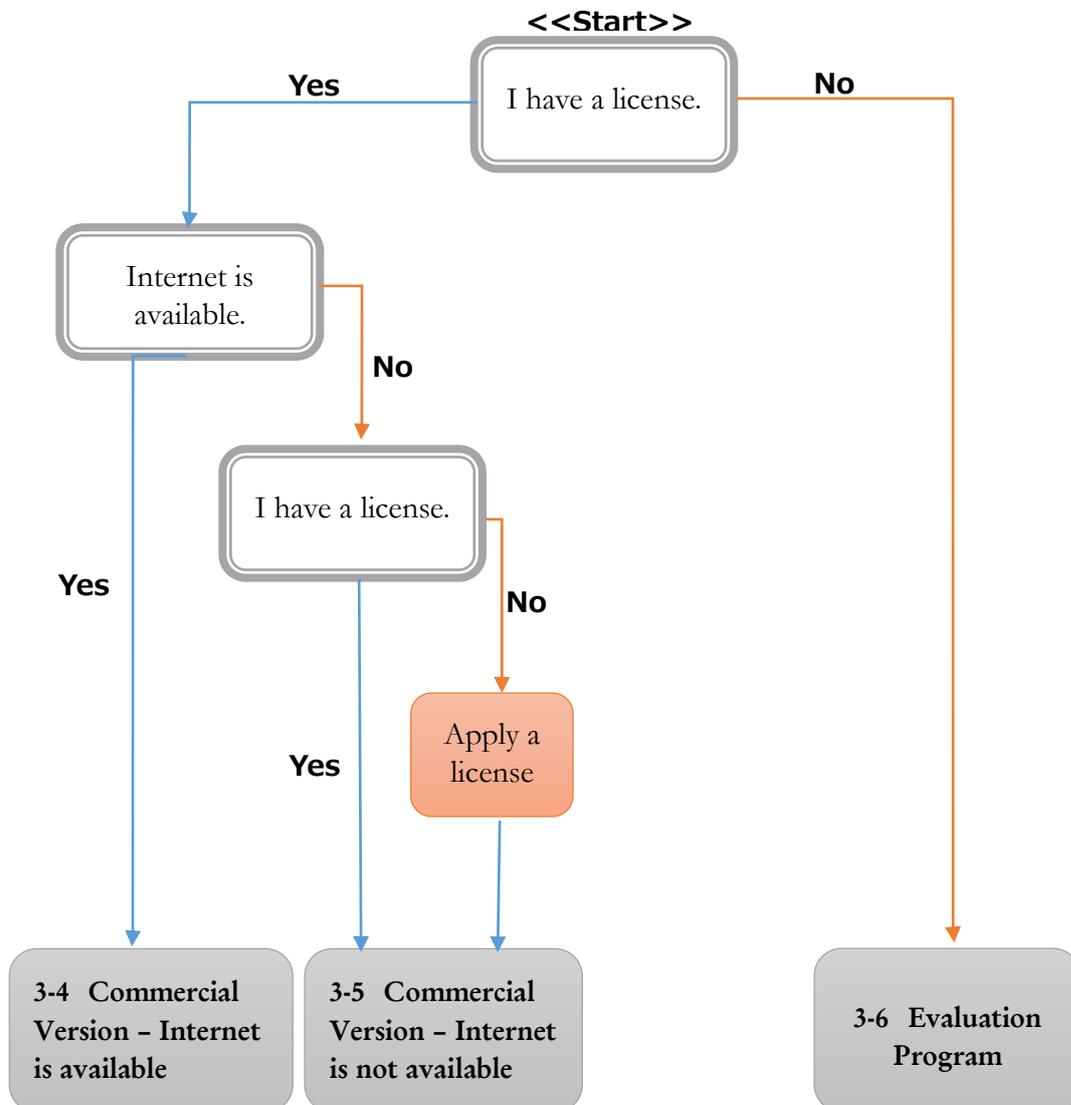
- Program would not function collect if port netLD uses are used by other applications.
- An Administer user must do installation.

3-2 About License

Activation of netLD basically authenticates online. Install the program at the environment where internet is available. In case of installing the program at the environment where internet is not available, please contact [LogicVein Customer Support](#). To issue a license, MAC address of the server which netLD is installed is required.

3-3 Installation Procedures

Follow the flow chart below and proceed installation.



3-4 Commercial Version – Internet available

Providing the license key which was sent from LogicVein at hand, perform the following steps.

1. Copy the installer (**netLD-2013.08.0-x86_64.bin**) on the target server.
2. Run **chmod +x netLD-2013.08.0-x86_64.bin** and change permission of the installer copied.

```
[root@netld-server netld]# chmod +x netld-2013.04.0-x86_64.bin
```

3. Run **sudo ./netLD-2013.08.0-x86_64.bin** and execute installation.

```
[root@netld-server netld]# sudo ./netld-2013.04.0-x86_64.bin
-----
Net LineDancer 2013.04.0 (r.20130605.1924) Installer
-----
java version "1.7.0_09-icedtea"
Loaded plugins: fastestmirror, security
Loading mirror speeds from cached hostfile
 * base: ftp.iij.ad.jp
 * extras: ftp.iij.ad.jp
 * updates: ftp.iij.ad.jp
Setting up Install Process
Package compat-expat1-1.95.8-8.el6.x86_64 already installed and latest version
Nothing to do
Installing packages with yum
```

4. When **Is this ok [y/N]:** is displayed, enter **y** and proceed next step.

```
=====
Package           Arch           Version
=====
Installing:
netld              x86_64        2013.04.0-20130605.1924
Transaction Summary
=====
Install           1 Package(s)

Total size: 155 M
Installed size: 155 M
Is this ok [y/N]:
```

5. Create SSL certificate. When **Overwrite [y/n]:** is displayed, enter **y** and enter the information of SSL certificate within the red frame.

```

[redacted]
Overwrite [y/n]: y
Generate an SSL Certificate for this server.
Net LineDancer clients use SSL to communicate with the server. An SSL certificate
is generated for the server. The hostname field below must accurately reflect the hostname for this server.
Hostname (FQDN): netld-server
Organization Unit: tech
Organization: LogicVein
City: Kawasaki
State or Province: Kanagawa
Country Code [JP/KR/US]: JP
    
```

6. Enter the license key at **Activation Serial or License File:**.

Ex) E9A6D-02FD6-C4158-92FB4-EA739

```

Specify your internet activation serial or the location of your license file.
ip.
[redacted]
Activation Serial or License File:
    
```

7. Installation has finished and the service of netLD starts.

```

Net LineDancer enabling redirection of FTP, TFTP and HTTPS ports to host netld-server.
Starting Net LineDancer...[root@netld-server netld]#
    
```

3-5 Commercial Version – Internet not available

Customers are required to contact [LogicVein Customer Support](#) for a license file requiring MAC address of netLD system server.

1. Copy the installer (**netLD-2013.08.0-x86_64.bin**) on the target server.
2. Run **chmod +x netLD-2013.08.0-x86_64.bin** and change permission of the installer copied.

```

[root@netld-server netld]# chmod +x netld-2013.04.0-x86_64.bin
    
```

- Run `sudo ./ netLD-2013.08.0-x86_64.bin` and execute installation.

```
[root@netld-server netld]# sudo ./netld-2013.04.0-x86_64.bin
-----
Net LineDancer 2013.04.0 (r.20130605.1924) Installer
-----
java version "1.7.0_09-icedtea"
Loaded plugins: fastestmirror, security
Loading mirror speeds from cached hostfile
 * base: ftp.iij.ad.jp
 * extras: ftp.iij.ad.jp
 * updates: ftp.iij.ad.jp
Setting up Install Process
Package compat-expat1-1.95.8-8.el6.x86_64 already installed and latest version
Nothing to do
Installing packages with yum
```

- When **Is this ok [y/N]:** is displayed, enter **y** and proceed next step.

```
=====
Package           Arch           Version
=====
Installing:
netld             x86_64        2013.04.0-20130605.1924
Transaction Summary
-----
Install      1 Package(s)

Total size: 155 M
Installed size: 155 M
Is this ok [y/N]:
```

- Create SSL certificate. When **Overwrite [y/n]:** is displayed, enter **y** and enter the information of SSL certificate within the red frame.

```
Overwrite [y/n]: y
Generate an SSL Certificate for this server.
Net LineDancer clients use SSL to communicate with the server. An SSL certificate
is generated for the server. The hostname field below must accurately reflect the hostname for this server.
The certificate will be created for the server.
-----
Hostname (FQDN): netld-server
Organization Unit: tech
Organization: LogicVein
City: Kawasaki
State or Province: Kanagawa
Country Code [JP/KR/US]: JP
```

- Specify the license file at **Activation Serial or License File:**.

Ex) /root/netld/license.enc

```
Specify your internet activation serial or the location of your license file.
ip.
Activation Serial or License File:
```

7. Installation has finished and the service of netLD starts.

```
Net LineDancer enabling redirection of FTP, TFTP and HTTPS ports to host netld-server.
Starting Net LineDancer...[root@netld-server netld]#
```

3-6 Evaluation Version

This version will be valid for 30 days by applying the following steps.

1. Copy the installer (**netLD-2013.08.0-x86_64.bin**) on the target server.
2. Run **chmod +x netLD-2013.08.0-x86_64.bin** and change permission of the installer copied.

```
[root@netld-server netld]# chmod +x netld-2013.04.0-x86_64.bin
```

3. Run **sudo ./netLD-2013.08.0-x86_64.bin** and execute installation.

```
[root@netld-server netld]# sudo ./netld-2013.04.0-x86_64.bin
-----
Net LineDancer 2013.04.0 (r.20130605.1924) Installer
-----
java version "1.7.0_09-icedtea"
Loaded plugins: fastestmirror, security
Loading mirror speeds from cached hostfile
 * base: ftp.iij.ad.jp
 * extras: ftp.iij.ad.jp
 * updates: ftp.iij.ad.jp
Setting up Install Process
Package compat-expat1-1.95.8-8.el6.x86_64 already installed and latest version
Nothing to do
Installing packages with yum
```

4. When **Is this ok [y/N]:** is displayed, enter **y** and proceed next step.

```
=====
Package           Arch           Version
=====
Installing:
netld              x86_64         2013.04.0-20130605.1924
Transaction Summary
=====
Install           1 Package(s)
Total size: 155 M
Installed size: 155 M
Is this ok [y/N]:
```

5. Create SSL certificate. When **Overwrite [y/n]:** is displayed, enter **y** and enter the information of SSL certificate within the red frame.

```
Overwrite [y/n]: y
Generate an SSL Certificate for this server.
Net LineDancer clients use SSL to communicate with the server. An SSL certificate
is generated for the server. The hostname field below must accurately reflect the hostname for this server.
Hostname (FQDN): netld-server
Organization Unit: tech
Organization: LogicVein
City: Kawasaki
State or Province: Kanagawa
Country Code [JP/KR/US]: JP
```

6. Leave a blank and proceed next step.

```
Specify your internet activation serial or the location of your license file.
ip.
Activation Serial or License File:
```

7. Installation has finished and the service of netLD starts.

```
Net LineDancer enabling redirection of FTP, TFTP and HTTPS ports to host netld-server.
Starting Net LineDancer...[root@netld-server netld]#
```

4 Directories

netLD installation creates following directories.

Directory	Description
adapters	Device interaction adapters.
backups	Automated daily backups.
core	Core service code.
crates	Core service code.
derby	Apache Derby database.
Java7	Java 7 Runtime distribution.
legal	Open Source library licenses and legal acknowledgements.
lucene	Apache Lucene full-text search indexes.
migration	Version upgrades scripts.
osgi-config	Internal configuration files.
Perl	Perl Runtime distribution.
real-time	Real-time change detection scripts.
reports	Internal report definition files.
scratch	Internal temporary file storage directory.
sql	Apache Derby database initialization files.
tmp	Java 7 temporary file storage directory.
tools	Device tool scripts.
ui	Core service code.
update	Online update temporary storage directory.
ztwrapper	Net LineDancer service executable and configuration.

5 Service Management and Login

5-1 Service Start and Stop

netLD service is automatically started when its program has been installed or operating system has been restarted. If you want to start or stop the service manually, please operate by the following steps.

[In case of restart of the server required]

- When IP address of the netLD server has been changed manually,
- When Primary IP address of netLD has been changed in Server Settings menu,
- When HTTPS port setting has been changed in Server Settings menu,
- When new device adapters have been added manually,
- When backed up files have been restored manually,
- When license file has been renewed manually,
- When its program has been upgraded.

Use following commands and operate the service.

<<Start Command of Service>>

sudo service netld start

```
[root@CentOS6 ~]# sudo service netld start
Net LineDancer enabling redirection of FTP, TFTP and HTTPS ports to host CentOS6
Starting Net LineDancer...[root@CentOS6 ~]# _
```

<<Stop Command of Service>>

sudo service netld stop

```
[root@CentOS6 ~]# sudo service netld stop
Net LineDancer disabling redirection of FTP, TFTP and HTTPS ports.
Stopping Net LineDancer...
Stopped Net LineDancer.
[root@CentOS6 ~]# _
```

<<Restart Command of Service>>

sudo service netld restart

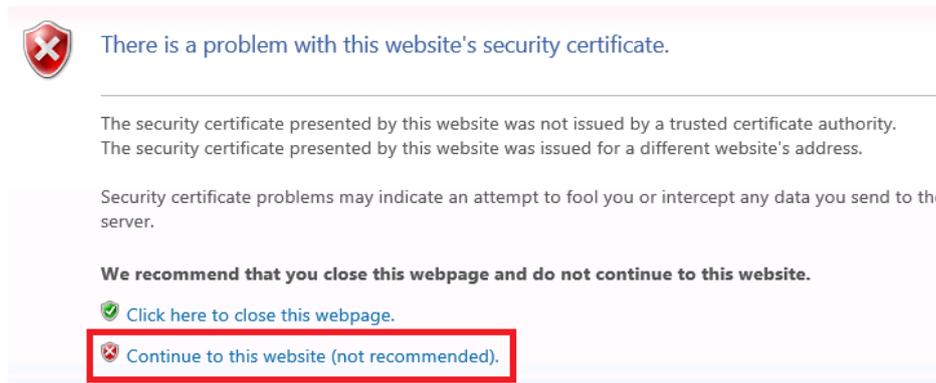
```
[root@CentOS6 ~]# sudo service netld restart
Net LineDancer resetting redirection of FTP, TFTP and HTTPS ports to host CentOS6.
Stopping Net LineDancer...
Stopped Net LineDancer.
Starting Net LineDancer...[root@CentOS6 ~]# _
```

5-2 Login

1. Start web browser and enter “https://IP address of the netLD server or host name/” in address bar and press the **Enter** button.



2. If security certificate message is displayed, Select **Continue to this website** (not recommended).



Note: Security certificate message will be displayed since netLD has a certification authorized by own authorization entity but this does not affect operations of netLD at all.

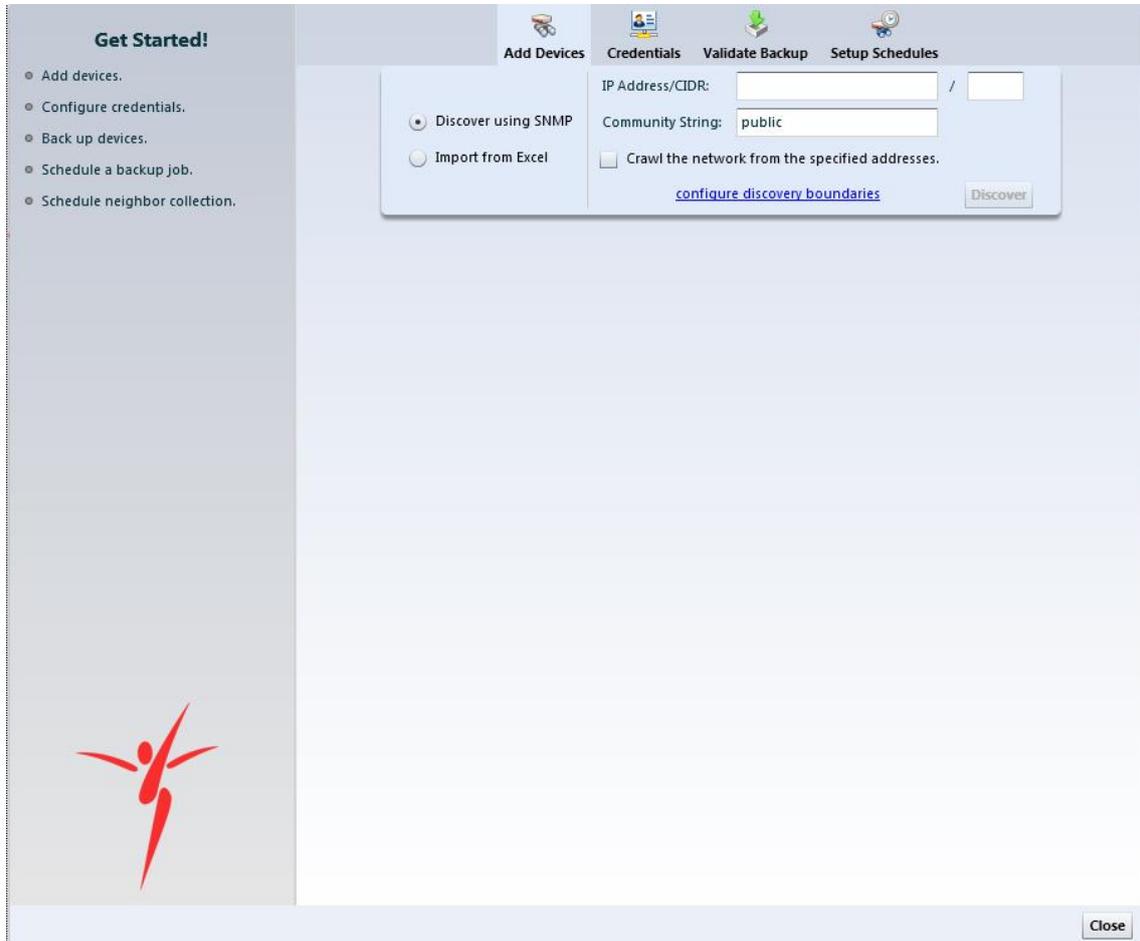
Note: You can make this dialog would not be displayed by install the SSL certification for the web browser. See **Secutity Certificate** section of user manual for more details.

3. At netLD login screen, enter a username and password and click **login**.



netLD initial username/password
 username **admin**
 password **password**

Login is complete. If you log in netLD for the first time or you log in with the status which all management devices is deleted, the following start-up wizard is displayed.



Contacts

If you need further assistance or technical support about Net LineDancer, please contact below.

LogicVein, Inc. Technical Support

Tel: +81-44-852-4200

Fax: +81-44-854-0979

E-mail: support@logicvein.com

Notes:

- Closed for weekends, public holidays, New Year and summer holidays in Japanese time.
- We accept e-mails for 24 hours but we will reply on business hours listed above.

Net LineDancer Device Adaptor List

Please check the latest information in the following URL:

<http://www.logicvein.com/product/device.html>

<http://www.logicvein.com/product/pdf/matrix.pdf>