Release Notes for Cisco OverDrive Network Hypervisor 4.0

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Cisco® OverDrive Network Hypervisor is designed to help enable customers to organize their network resources into a flexible cloud infrastructure that integrates the network with their existing IT operational tools and processes. OverDrive Network Hypervisor's network abstraction layer allows customers to provision and deploy numerous individual network components as sophisticated network "containers" across single and multipod cloud deployments much more easily and quickly than previously possible with template- and script-based systems, dramatically reducing network operations costs and the potential for misconfiguration while optimizing capacity utilization and accelerating service delivery.

Network infrastructure can now be virtualized and fully automated in support of cloud service deployments, creating dynamic, automated clouds providing security, partitioning, and access control - the building blocks to provide IT as a service for any class of customer.

This Release Note contains the following sections:

Americas Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

Features and Benefits

The following table lists Cisco OverDrive Network Hypervisor 4.0 features and benefits.

Table 1 Cisco OverDrive Network Hypervisor Features and Benefits

Feature	Benefits
Business-policy driven	As business needs evolve, new policies can be constructed and existing policies adjusted. For example, a policy for access to a customer relationship management (CRM) system can be established to automatically adjust the network services when new sales personnel are hired or when the CRM application moves physically or virtually.
Automates device-level configuration	Enables just-in-time service delivery models to automatically translate defined policies into device-level configuration syntax that is pushed out to routers, switches, firewalls, and other devices on the network.
Automates network service delivery	Helps enable administrators to define and control the underlying network infrastructure services that provide end-user access to physical and virtual resources.
Open interfaces	Helps enable administrators to seamlessly integrate OverDrive Network Hypervisor with their existing network management and operational support systems to support cloud deployments.

System Requirements

Table 2 lists system requirements for network services virtualization software, Table 3gives the system requirements for device service controller software, and Table 4 lists the system requirements for command center client software to be used with OverDrive Network Hypervisor.

Table 2 Network Services Virtualization Software

Hardware	Xeon 3 GHz or equivalent
Disk space	40 GB
Memory	4 GB
Software	Centos 5.x base OS, Java 1.6, Java Security extensions, Postgres 8.4, JBoss 4.0.5 (modified), VMware ESX-based implementations are supported

Table 3 Device Service Controller Software

Hardware	Xeon 3 GHz or equivalent
Disk space	10 GB
Memory	2 GB
Software	Centos 5.x base OS, Java 1.6, VMware ESX-based implementations are supported

Table 4 Command Center Client Software

Hardware	Microsoft Windows or Apple Mac desktop
Disk space	500 MB
Memory	1 GB
Software	Firefox 3.6 (Windows and Mac) Other browsers are not fully supported for the Cloud Configurator component.

Important Notes

Screen Resolution

The recommended minimum screen resolution for Cisco OverDrive Network Hypervisor 4.0 is 1024x768 or larger.

CLI and SNMP Credentials Required

OverDrive Network Hypervisor requires CLI and SNMP credentials for all equipment that it will manage.

Installation Notes

This section contains information about installing Cisco OverDrive Network Hypervisor 4.0.

For NSVE and DSC Installations

For both NSVE and DSC, you must do the following:

1. Install Centos 5.5, 32-bit.
2. You MUST select only the **server** option when prompted for the packages to install.
3. Mount the OverDrive Network Hypervisor ISO disc.
4. On the disk, enter **cat README.OVERDRIVE.INSTALL | more**
5. Follow the installation instructions.

Uninstall Notes

This section contains information about uninstalling Cisco OverDrive Network Hypervisor 4.0.

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uninstall-nsve.sh script removes only the OverDrive Network Hypervisor NSVE components and database.
total-uninstall-nsve.sh removes those along with the PostgreSQL package, JBoss, Java and ntp.

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unsintall-dsc.sh script removes only the OverDrive Network Hypervisor DSC components.
total-uninstall-dsc.sh removes those along with JRE, ntp, and restores SELinux config, if present.

When using the **total-uninstall-nsve.sh** script from the installation disc, enter **postgres** when prompted for the **Password for user postgres**:,

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Note that the **total-uninstall-nsve.sh** script on the installation disc does NOT remove:

- The PostgreSQL data directory /var/lib/pgsql
- The following users: ntp, postgres, lsadmin

If you attempt to immediately re-install the NSVE after removing it, you will be required to press **Enter** and the following display:

```
OverDrive NSVE Installation failed

Last command:  # GENRUN 2011-04-07 12:05:55 START: COMMAND [29]: [/bin/su -
postgres -c "/usr/bin/psql -Upostgres -c \
"alter role postgres with password 'postgres';\""]

Tail of the log file:
================================================================================

##########  GENRUN    2011-04-07  12:05:55    START: COMMAND [29]: [/bin/su -
postgres -c "/usr/bin/psql -Upostgres -c \
"alter role postgres with password 'postgres';\""]
#
Password for user postgres:
psql: fe_sendauth: no password supplied
#
##########  GENRUN  FATAL: COMMAND FAILED
#
#
##########  GENRUN    2011-04-07  12:06:14    END:   COMMAND [29]: [/bin/su -
postgres -c "/usr/bin/psql -Upostgres -c \
"alter role postgres with password 'postgres';\""]
================================================================================


To recover, either:
A) Fix the condition that caused the problem, and then rerun genrun.sh starting from
step number 29:
```

```
       i.e., /usr/local/src/OVERDRIVE/OVERDRIVE/bin/genrun.sh -x -s 29 -f
    /usr/local/src/OVERDRIVE/POLICYSERVER/OverDrive.PolicyServer.Install.CentOS.ge
    nrun.conf
or:

B) If the step can be safely skipped, rerun genrun.sh starting from the following
step.
       i.e., /usr/local/src/OVERDRIVE/OVERDRIVE/bin/genrun.sh -x -s 30 -f
    /usr/local/src/OVERDRIVE/POLICYSERVER/OverDrive.PolicyServer.Install.CentOS.ge
    nrun.conf
```

Workaround: A re-install might be made possible by re-running **total-uninstall-nsve.sh** and entering **postgres** when prompted for the **Password for user postgres:**. After the script file completes, explicitly remove the **/var/lib/pgsql** directory. The NSVE may now be re-installed.

After initially configuring an instance of a DSC, replace the default **services.xml** file (found at **/usr/share/overdrive/data/DSC-NAME/services.xml**) with the following contents:

```
<?xml version="1.0" encoding="ISO-8859-1" standalone="no"?>
<service-config version="1.0">
    <services>
        <service name="vm">
            <properties/>
        </service>
        <service name="vlan">
            <properties>
                <entry key="vlan.policy.management">model_driven</entry>
                <entry key="vlan.policy.discovered">report</entry>
                <entry key="vlan.policy">end_to_end</entry>
            </properties>
        </service>
        <service name="agent">
            <properties>
                <entry key="agent.coherentRegionSubnet"></entry>
            </properties>
        </service>
    </services>
</service-config>
```

Caveats

Please read the following before using Cisco OverDrive Network Hypervisor 4.0.

Long sysname causes problems for the agent (OD2613)

Description: If the sysname of a router is longer than 20 characters, the agent fails to determine that it is in configure mode.

Workaround: Use shorter names, the total system name should not exceed 20 characters

Post install DSC corrections (OD3958)

- Following the creating of a DCS via **/usr/share/overdrive/bin/configure**, a certificate must be copied to **/etc/overdrive/**.
- Edit the **/etc/overdrive/DSC-NAME/ssl.properties** and add the certificate password at line **keystore.password=**
- Edit **/etc/overdrive/DSC-NAME/agent.properties** and remove **/var/tmp/health_DSC-NAME** from the list of values for property **syslog.files**.

  The property should look like the following:

```
syslog.files = /var/log/messages,/var/log/overdrive_od-dsc01.log
```

VLAN Numbers and Subnets are misaligned in Cloud Configurator (OD3937)

Description: Create a VPC and a VDC. Notice subnet values **wrap** and appear **under** the VLAN numbers, as though both numbers were being displayed in the VLAN column.

Only one VM may be expanded in Cloud Configurator (OD3727)

Description: In the Cloud Configurator, only one VM may be expanded at any time, to view its detailed settings.

Error messages on NSVE startup (OD3940)

Description: When the NSVE is started, the following errors are displayed in the log file. These may be ignored, they do not require any action.

```
2011-03-21 09:15:10,879 ERROR [impl.Role] Unexpected error defining Role type
settings:
com.pfn.wirepower.srv.persistence.role.impl.Role.setTokens(java.lang.String)
2011-03-21 09:15:10,879 ERROR [impl.Role] Role entity type will not be defined
```

Cloud VLAN Limit error occurs when submitting edit with Cloud Configurator (OD3957)

Description: When clicking **Update** during an edit operation on cloud within the Cloud Configurator, a **Cloud VLAN Limit error** occurs, and focus is taken to the **Advanced** tab. This occurs when a default value for the Cloud VLAN Limit has not been set.

Workaround: Change the displayed **-1** value in **Cloud VLAN Limit** to a non-negative number, and click **Update**.

VM status does not reliably update in Cloud Configurator (OD3725)

Description: In Firefox 3.6.15, a newly created VM shows status as **Creating VM…**, despite it having proceeded to **Powered On** state, as shown in vSphere Client.

When another VM is created, the status of the prior VM changes to **Powered On**.

Workaround: Consult vSphere Client to determine the status of deployed VMs.

Resources are not being disambiguated in the Summary View in Command Center. (OD3717)

Description: In the Command Center, if **Include Subdomains** is checked in the Summary View, and **Filter by Local Resource** is chosen, selecting a sub-domain and re-selecting Root domain will result in loss of disambiguation of objects in the Summary View.

Workaround: Unselect and immediately re-select **Include Subdomains**.

Clouds are not editable in the Cloud Configurator (OD3412)

Description: Domains viewed within the Cloud Configurator show a **Clouds** listbox along with **Add** and **Delete** controls next to it. This listbox and related controls should not be used, as Clouds should only be manipulated via the controls on the top-right of the breadcrumb bar.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS Version 2.0.
