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# Upgrading an Existing IDC from Version 0.5.3.X to 0.6

The steps to upgrade an existing IDC From Version 0.5.3.X to Version 0.6 are discussed in the sections below.

## Prepare your environment

* Backup OSCARS v5
  + mv $OSCARS\_HOME /usr/local/oscars\_home\_v5
  + mysqldump -u root -p --all-databases > oscars-0.5-backup-all.sql
* Prepare your environment:
  + Find the existing mysql 'root' and 'oscars' passwords. If the MySql root password is not null/empty, change it to use no password and retain it to be so until after the RPM installation is complete.
  + Create a file which has the Internet2 repository details:

|  |
| --- |
| cd /etc/yum.repos.d  cat >> Internet2-OSCARS.repo  # Name: Internet2 RPM Repository  # URL: http://software.internet2.edu  [Internet2-OSCARSDev]  name = Internet2 RPM Repository - software.internet2.edu - OSCARS DEV  baseurl = http://software.internet2.edu/branches/andy-oscars-testing/rpms/i386/main/  enabled = 1  protect = 0  gpgkey = file:///etc/pki/rpm-gpg/RPM-GPG-KEY-Internet2  gpgcheck = 1 |

* + Make sure the Internet2 key is installed.

|  |
| --- |
| rpm --import <http://software.internet2.edu/rpms/RPM-GPG-KEY-Internet2>) |

## Install OSCARS v6 and upgrade 0.5 database

Once your environment is ready, you can start the OSCARS 0.6 installation procedure. The available RPMs will also automatically upgrade your current 0.5 database. Quick summaries of the steps involved are below:

1. Install Oscars packages.

|  |
| --- |
| yum install oscars |

This step checks for the existence of 0.5 tables and then executes steps to copy your existing AAA and Reservations related data into relevant 0.6 database tables. Please note these:

* 1. RPMs do not perform any “merge” of data in case you have both 0.5 and 0.6 tables
  2. If you have an already installed 0.6 version, then your database data will remain untouched.

1. Install a PSS package of your choice. The currently available options are
   * oscars-pss-dragon
   * oscars-pss-eompls
   * oscars-pss-openflow
   * oscars-pss-stub

|  |
| --- |
| yum install <your choice of pss> |

1. Install tools and scripts that help you with configuration steps.

|  |
| --- |
| yum install oscars-tools |

### Moving your installation to a new host?

If you wish to move your 0.5 data to a new host and install 0.6 over it, the databases of interest to you are “aaa” and “bss”. You can dump these databases and import them on to your new installation. The “aaa” databsase contains user (and his attributes) and institution/site data, while the “bss” database has reservations data and history. Once you have this done, you can run the regular RPM installation (follow steps 1 through 3 in section [above](#_Install_OSCARS_v6)). At the end of your 0.6 installation, you may drop databases “aaa”,“bss” on the host.

At this stage, your installation process is completed. The steps that follow pertain to moving your configuration data.

## Migrating certificates

These are the steps to port the Certificates used by your OSCARS 0.5 to the new 0.6 installation setup:

1. Copy your 0.5 keystore OSCARS.jks and ssl-keystore.jks. These key stores are usually in location $OSCARS\_HOME/conf/axis-tomcat.
2. Drop the existing 'mykey' from /etc/oscars/key stores/oscars.jks.

|  |
| --- |
| keytool –delete –alias mykey –keystore /etc/oscars/keystores/oscars.jks |

1. Import OSCARS.jks into Oscars.jks

|  |
| --- |
| keytool -importkeystore -srckeystore <path\_to\_OSCARS.jks> -destkeystore /etc/oscars/keystores/oscars.jks |

1. Import ssl-keystore.jks into Oscars.jks

|  |
| --- |
| keytool -importkeystore -srckeystore <path\_to\_ssl-keystore.jks> -destkeystore oscars.jks |

1. Clean up oscars.jks to make sure it only contains only one privateKey entry. This should be the key whose alias name was mentioned in your 0.5’ configuration file rampConfig.xml. For ease of reading, let us refer to this key as “newkey” for the remainder of this section.
2. Change the password for this alias from “password” to the default password “changeit” used by the 0.6 installation.

|  |
| --- |
| keytool -keypasswd -alias newkey -keystore /etc/oscars/keystores/oscars.jks |

1. Add the certificate chain of the CA that signed “newkey” into localhost.jks.

To copy certificates, use *keytool -export* and then -*import*. These commands are along the line of:

|  |
| --- |
| keytool -export -keystore OSCARS.jks -file saveCAs.out |

And then, to import:

|  |
| --- |
| keytool –import –file saveCAs.out –keystore /etc/oscars/keystores/localhost.jks |

You will be prompted to verify whether you trust this CA when you run the above command.

## Firewall requirements

OSCARS 0.6 uses a few extra ports along with TCP ports 8080 and 8443 that OSCARS 0.5 used. To use 0.6, update your system configuration to allow access to ports 9001 and 9013.

These ports are used by OSCARSService and WSNBroker respectively. So, in the case you wish to modify the default port numbers used by OSCARS services, set your firewalls to use the ports used by OSCARSService and WSNBroker instead of 9001 and 9013.

In Linux, one could edit /etc/sysconfig/iptables to add lines similar to:

|  |
| --- |
| -A INPUT -m state --state NEW -m tcp -p tcp --dport 8443 -j ACCEPT  -A INPUT -m state --state NEW -m tcp -p tcp --dport 9001 -j ACCEPT  -A INPUT -m state --state NEW -m tcp -p tcp --dport 9013 -j ACCEPT |

## Update Configuration Files

To be able to successfully upgrade from Oscars 0.5.X to 0.6, a few configuration parameters need to be translated to the 0.6 set up. These are listed below.

### Update publishTo address

Update the “publishTo” address to point to the public IP address or hostname in the OSCARSInternalService, OSCARSService and WSNBrokerService processes.

The list of files that need changes to the “publishTo” line are:

|  |
| --- |
| $OSCARS\_HOME/OSCARSInternalService/conf/config-internal.HTTP.yaml  $OSCARS\_HOME/OSCARSInternalService/conf/config-internal.SSL.yaml  $OSCARS\_HOME/OSCARSService/conf/config.SSL.yaml  $OSCARS\_HOME/OSCARSService/conf/config.HTTP.yaml  $OSCARS\_HOME/WSNBrokerService/conf/config.SSL.yaml  $OSCARS\_HOME/WSNBrokerService/conf/config.HTTP.yaml |

### Replace any occurrences of word “localdomain.localhost”

The RPM installation tries to fetch your hostname and refer to it in the various configuration files. However, if that fails due to any reason, you may be left with occurrences of the word “localhost.localdomain” in your configuration files. Replace these with your hostname/IP address.

The list of files that (may)need changes are:

|  |
| --- |
| $OSCARS\_HOME/OSCARSService/conf/server-cxf-ssl.xml  $OSCARS\_HOME/OSCARSService/conf/config.HTTP.yaml  $OSCARS\_HOME/OSCARSService/conf/server-cxf-http.xml  $OSCARS\_HOME/OSCARSService/conf/config.SSL.yaml  $OSCARS\_HOME/WSNBrokerService/conf/server-cxf-ssl.xml  $OSCARS\_HOME/WSNBrokerService/conf/server-cxf-http.xml  $OSCARS\_HOME/OSCARSInternalService/conf/config-internal.SSL.yaml  $OSCARS\_HOME/OSCARSInternalService/conf/config-internal.HTTP.yaml |

### Change references to certificate alias

Change certificate alias from 'mykey' into the alias defined in rampConfig.xml for OSCARSService, NotificationBridgeService and WSNBrokerService. The new alias, using the example from Section [1.4](#_Migrating_certificates), would be “newkey”. To do so, follow these steps:

* + Open WSNBrokerService/conf/client-cxf-http.xml
  + Find lines like

<entry key="ws-security.signature.username" value="mykey" />

* + Replace “mykey” with the certificate alias from rampConfig.xml
  + Repeat this procedure in files :

|  |
| --- |
| /etc/oscars/OSCARSService/conf/client-cxf-ssl.xml  /etc/oscars/OSCARSService/conf/client-ut-cxf-ssl.xml  /etc/oscars/OSCARSService/conf/server-cxf-ssl.xml  /etc/oscars/OSCARSService/conf/client-cxf-DEV.xml  /etc/oscars/OSCARSService/conf/client-cxf-http.xml  /etc/oscars/OSCARSService/conf/server-cxf-http.xml  /etc/oscars/NotificationBridgeService/conf/client-cxf-ssl.xml  /etc/oscars/NotificationBridgeService/conf/client-cxf-http.xml  /etc/oscars/WSNBrokerService/conf/client-cxf-ssl.xml  /etc/oscars/WSNBrokerService/conf/server-cxf-ssl.xml  /etc/oscars/WSNBrokerService/conf/client-cxf-http.xml  /etc/oscars/WSNBrokerService/conf/server-cxf-http.xml |

### 

### Configure local domain and MPLS choices

Configure your 0.6 installation to use the local domain you used in Oscars 0.5. To do so, follow these steps:

* + Open Utils/conf/config.yaml
  + Set the local domainId to be used
    - Alternatively, you can use a shell script to add your local domain ID:

cd $OSCARS\_DIST/tools/bin

./idc-localdomainmod <CONTEXT>

* + Set MPLS options to either 0 or 1

### Configure topology file details

The following two steps detail the changes needed to configure topology file details.

* Configure your installation to refer to the correct topology files and their location. To do so, follow these steps:
  + Open files TopoBridgeService/conf/config.HTTP.yaml and TopoBridgeService/conf/config.SSL.yaml
  + in the “domains” section of this file, include your domain name. Also include the location of the file you used to define its topology. For example (notice the “file” option).

|  |
| --- |
| *domains:*  *'testdomain-1':*  *source: 'file'*  *file: 'testdomain-1.xml'* |

* + Alternatively, you can use a shell script to configure your domain data:

cd $OSCARS\_DIST/tools/bin

./idc-domaininfoadd <CONTEXT>

* Configure your installation to refer to a PerfSonar Topology Server URL, if you’re using one. To do so, follow these steps:
  + Open files TopoBridgeService/conf/config.HTTP.yaml and TopoBridgeService/conf/config.SSL.yaml
  + Include your topology server name and location in the “domains” section of this file. For example (notice that source is “topoServer”, and the section “servers” is being used).

|  |
| --- |
| *'\*':*  *source: 'topoServer'*  *servers: [ 'ts-server.domain.org' ]* |

* + Alternatively, you could use these tools to include a Perfsonar TS URL:

cd $OSCARS\_DIST/tools/bin

./idc-toposerveradd <CONTEXT>

### Change DB salt string

Edit $OSCARS\_HOME/AuthNService/conf/authN.\*.yaml

Look for lines like that specify the “salt” string value, like

|  |
| --- |
| salt: 'aa' |

Change this value to ‘os’, so that final string is:

|  |
| --- |
| salt: 'os' |

### Configure PSS

TBD: This section is a placeholder containing data from wiki, and Xi’s information to upgrade ION. Needs to be finalized.

See the PSS section in “Move data from Oscars.properties” below to port values to OSCARS 0.6. These pages offer more information and instructions:

<http://code.google.com/p/oscars-idc/wiki/DragonPSS> <http://code.google.com/p/oscars-idc/wiki/EoMPLSPSS> <http://code.google.com/p/oscars-idc/wiki/EoMPLSPSSConfigFiles> <http://code.google.com/p/oscars-idc/wiki/PSSFrameworkBuildingBlocks> <http://code.google.com/p/oscars-idc/wiki/PSSCommonFiles>

#### Update EomplsPSS config files

If you are using EomplsPSS, you could follow these quick instructions for upgrading to 0.6:

1. Modify config.\*.yaml

Set these parameter values:

|  |
| --- |
| stub = false  performVerify = true |

1. Modify config-connector-directory.yaml
   * + Check for these values to be correct:

|  |
| --- |
| privkeyfile  passphrase |

* + - Move privkey file (for Juniper ssh) to where config-connector-directory.yaml points to

1. Update all config-\*.yaml files using info from your topology file.
   * + Update device-addresses from <address>
     + ifce-addresses from '##'
     + models -> use juniper-mx

### Move data from Oscars.properties

The oscars.properties file is the main location that the OSCARS 0.5.X IDC refers to for many installation-specific settings. These include properties used to access the MySQL database, AAA, the perfSONAR Lookup Service etc. Oscars 0.6 does not have an oscars.properties file, and the various properties are distributed in relevant, service related files.

This section discusses how these values could be ported from OSCARS 0.5 into the Oscars 0.6 configuration files. The section is divided into subsections detailing the properties from the 0.5.X version, and maps them to their 0.6 counterparts.

#### General parameters

|  |  |  |  |
| --- | --- | --- | --- |
| ***Parameter name in Oscars 0.5*** | ***Example value*** | ***0.6 Destination file*** | ***Destination field*** |
| idc.url | http://your- idc:8443/axis2/services/OSCARS | $OSCARS\_HOME/OSCARSService/conf/config.HTTP.yaml  $OSCARS\_HOME/OSCARSService/conf/config.SSL.yaml | public:  publishTo |

#### MySQL Database Properties

|  |  |  |  |
| --- | --- | --- | --- |
| ***Parameter name in Oscars 0.5*** | ***Example value*** | ***0.6 Destination file*** | ***Destination field*** |
| hibernate.connection.username | Oscars | * $OSCARS\_HOME/AuthNService/conf/authN.SSL.yaml: * $OSCARS\_HOME/AuthNService/conf/authN.HTTP.yaml * $OSCARS\_HOME/AuthZService/conf/authZ.HTTP.yaml: * $OSCARS\_HOME/AuthZService/conf/authZ.SSL.yaml: * $OSCARS\_HOME/ResourceManagerService/conf/config.SSL.yaml: * $OSCARS\_HOME/ResourceManagerService/conf/config.HTTP.yaml * $OSCARS\_HOME/IONUIService/conf/config.SSL.yaml * $OSCARS\_HOME/IONUIService/conf/config.HTTP.yaml | username |
| hibernate.connection.password | mypass | “ | password |
| hibernate.monitor | 1 | No equivalent | No equivalent |

#### Authentication, Authorization, and Accounting (AAA) Properties

|  |  |  |  |
| --- | --- | --- | --- |
| ***Parameter Name in Oscars 0.5*** | ***Example value*** | ***0.6 Destination file*** | ***0.6 Destination parameter/field name*** |
| Aaa.salt | os | authNService/conf/authN.HTTP.yaml, authNService/conf/authN.SSL.yaml | salt |
| aaa.userName | oscars | WBUIService/conf/config.XXX.yaml | Look for section “wbui”. Then find field “userName” |
| aaa.sessionName | oscarssess |  | Look for section “wbui”. Then find field “sessionName” |
| aaa.secureCookie | Use SSL by default | WBUIService/conf/config.HTTP.yaml  WBUIService/conf/config.SSL.yaml | secureCookie  You may choose to write into only one of the files based on whether SSL=1 (config.SSL.html) or SSL=0 (config.HTTP.html) |
| aaa.useSignalTokens | 1 | No equivalent | No equivalent |
| aaa.guestLogin | Guest | No equivalent | No equivalent |

#### Topology Exchange and Pathfinding Properties

|  |  |  |  |
| --- | --- | --- | --- |
| ***Parameter Name in Oscars 0.5*** | ***Example value*** | ***0.6 Destination file*** | ***0.6 Destination parameter/field name*** |
| pathfinder.findPath | 1/0 (If set to 0, user must provide path) | No equivalent | No equivalent |
| pathfinder.pathMethod | Perfsonar, terce, static | No equivalent | No equivalent |
| Pathfinder.pathMethod.loc | terce,perfsonar,static | No equivalent | No equivalent |
| pathfinder.pathMethod.interdomain | Perfsonar, static | No equivalent | No equivalent |
| pathfinder.staticxml.file | /home/Oscars/static-routes.xml | No equivalent | No equivalent |
| perfsonar.domainOpacity | complete | No equivalent | No equivalent |
| perfsonar.domainOpacity. path | Complete | No equivalent | No equivalent |
| tedb.tedbMethod | Terce (for Dragon installations) | No equivalent | No equivalent |
| terce.url | http://127.0.0.1:8080/ axis2/services/TERCE | No equivalent | “ |
| topo.defaultSwcapType | 1/0 (If set to 0, user must provide path) | No equivalent | “ |
| topo.defaultEncodingType | Perfsonar, terce, static | No equivalent | “ |

#### Path Setup Properties

|  |  |  |  |
| --- | --- | --- | --- |
| ***Parameter Name in Oscars 0.5*** | ***Example value*** | ***0.6 Destination file*** | ***0.6 Destination parameter/field name*** |
| pss.method | dragon | Utils/conf/config.yaml | PSSChoice |
| pss.dragon.password | Dragon  Question: Recommend setting in deployment directory or PSS source? | DragonPSS/config/config-connector-directory.yaml | Look for “id: “dragon-vlsr”, and then “cliPassword” under “params” |
| pss.dragon.ssh.portForward | 1 | “ | Look for “id: “dragon-vlsr”, and then “sshPortForward” under “params” . Translate 1=true and 0=false |
| pss.dragon.setERO | 0 | “ | sshER0 |
| pss.dragon.tunnelMode | 0 | “ | tunnelMode |
| pss.dragon.ssh.user | oscars | “ | sshUser |
| pss.dragon.ssh.key | /home/oscars/.ssh/id\_rsa | “ | sshKey |
| pss.dragon.remotePort | 2611 | “ | remotePort |
| pss.dragon.nodeId3 | 127.0.0.1. | “ | localAddress |
| pss.dragon.nodeId.ssh | 192.168.2.4 | DragonPSS/config/config-device-addresses.yaml | nodeId.vlsr  \*note: nodeId is mapped from topology xml node <address> |
| pss.dragon.nodeId.ssh.port | 22 | “ | sshPort |
| pss.dragon.promptPattern | vlsr | “ | promptPattern |
| pss.dragon.hasNarb | 1 | “ | hasNarb. Translate 1=true and 0=false |
| pss.dragon.delay | 30 | “ | No equivalent |
| pss.dragon.inservice\_checks | 24 | “ | No equivalent |
| pss.dragon.inservice\_check \_delay | 5 | “ | No equivalent |

#### Notifications

|  |  |  |  |
| --- | --- | --- | --- |
| ***Parameter Name in Oscars 0.5*** | ***Example value*** | ***0.6 Destination file*** | ***0.6 Destination parameter/field name*** |
| notify.observer.N | net.es.oscars.notify.EmailObserver | NotificationBridgeService/conf/config.HTTP.yaml  NotificationBridgeService/conf/config.SSL.yaml | Look for “Observers:” , and then “-class:”.  Then, choose relevant one from  net.es.oscars.notificationBridge.observers.EmailObserver  or WSNObserver |
| notify.ws.broker.url | https://your- idc.net:8443/axis2/services/OSCARSNotify | WSNBrokerService/conf/config.HTTP.yaml  WSNBrokerService/conf/config.SSL.yaml | public:  publishTo |
| notify.ws.broker.url.private | https://10.0.0.2:8443/axis2/services/ OSCARSNotify | WSNBrokerService/conf/config.HTTP.yaml  WSNBrokerService/conf/config.SSL.yaml | publishTo |
| notify.ws.broker.registerRetryAttempts | 10 | No equivalent. | No equivalent. |
| notify.ws.broker.seco ndsBetweenRegistrationRetries | 60 | No equivalent. | No equivalent. |
| notifybroker.subscrip tions.maxExpireTime | 3600 | WSNBrokerService/conf/config.HTTP.yaml  WSNBrokerService/conf/config.SSL.yaml | expiration |
| notifybroker.publishers.maxExpireTime | 3600 | No equivalent. | No equivalent. |
| notifybroker.pep.N | net.es.oscars.notify.ws.policy.IDCEventPEP | WSNBrokerService/conf/config.HTTP.yaml  WSNBrokerService/conf/config.SSL.yaml | Looks for “peps:” and then  “class:” and include 'net.es.oscars.wsnbroker.policy.IDCEventPEP' |
| mail.webmaster | webmaster@blue.pod.lan | NotificationBridgeService/conf/config.HTTP.yaml  NotificationBridgeService/conf/config.SSL.yaml | mail.from |
| Mail.recipients | user1@my.net:user2@my.net | NotificationBridgeService/conf/config.HTTP.yaml  NotificationBridgeService/conf/config.SSL.yaml | mail.to  Format as a YAML list (indented new lines starting with ‘ - ‘ |

#### External services

|  |  |  |  |
| --- | --- | --- | --- |
| ***Parameter Name in Oscars 0.5*** | ***Example value*** | ***0.6 Destination file*** | ***0.6 Destination parameter/field name*** |
| external.service.N | Subscribe, lsRegister, lsDomainUpdate, topology | No equivalent | No equivalent |
| perfsonar.topology\_url | http://packrat.internet2.edu:8012/per fSONAR\_PS/services/topology | TopoBridgeService/conf/config.HTTP.yaml, TopoBridgeService/conf/config.SSL.yaml | “registerUrl” .Uncomment field and transfer value to it. |
| lookup.hints | <http://www.perfsonar.net/gls.root> | LookupService/conf/config.HTTP.yaml, LookupService /conf/config.SSL.yaml | perfsonar:  globalHintsFile |
| lookup.global.N | http://ndb1.internet2.edu:9990/perfS ONAR\_PS/services/gLS | LookupService/conf/config.HTTP.yaml, LookupService /conf/config.SSL.yaml | perfsonar:  globalLookupServices  Format as a YAML list (indented new lines starting with ‘ - ‘ |
| lookup.home.N | http://ndb1.internet2.edu:8005/perfS ONAR\_PS/services/hLS | LookupService/conf/config.HTTP.yaml, LookupService /conf/config.SSL.yaml | Perfsonar:  homeLookupServices  Format as a YAML list (indented new lines starting with ‘ - ‘ |
| Lookup.topology.N | http://ndb1.internet2.edu:8005/perfS ONAR\_PS/services/hLS | TopoBridgeService/conf/config.HTTP.yaml, TopoBridgeService/conf/config.SSL.yaml | Using the ‘server’ option for a domain definition in your topology configuration has the same effect. |
| Lookup.useGlobal | 1 | No equivalent | No equivalent |
| Lookup.hints.all | 1 | No equivalent | No equivalent |
| lookup.reg.location[c ountry|zipcode|state| institution|city| streetAddress|floor| room|cage|rack|shelf| latitude|longitude| continent] | Depends on field | No equivalent | Under field “public”, parameters have same name as portion under location (e.g. longitude, latitude, country, state, city, etc) |
| lookup.reg.idc.name | My network’s IDC (default=IDC URL) | OSCARSService/conf/config.SSL.yaml  OSCARSService/conf/config.SSL.yaml | Under field “public”, look for parameter “name” |
| Lookup.reg.idc.description | IDC for testing | OSCARSService/conf/config.SSL.yaml  OSCARSService/conf/config.SSL.yaml | Under field “public”, look for parameter “description” |
| lookup.reg.nb.name | My network’s NB | No equivalent | No equivalent |
| lookup.reg.nb.description | NB for testing | No equivalent | No equivalent |
| external.service.subscribe.termTimeWindow | .2 | No equivalent | No equivalent |
| external.service.subsc ribe.retryInterval | 1800 | No equivalent | No equivalent |
| external.service.subsc ribe.topics | Idc:IDC | No equivalent | No equivalent |
| external.service.[topology| lsRegister].renewTime | 1800 | No equivalent | No equivalent |
| external.service.topology.updateLocal | 1 | No equivalent | No equivalent |
| External.service.init.WaitTime | 60 | No equivalent | No equivalent |
| External.service.isDomainUpdate.refreshTime | 4200 | No equivalent | No equivalent |

#### Miscellaneous properties

|  |  |  |  |
| --- | --- | --- | --- |
| ***Parameter Name in Oscars 0.5*** | ***Example value*** | ***0.6 Destination file*** | ***0.6 Destination parameter/field name*** |
| logging.rsvlogdir | /usr/local/tomcat/logs | No equivalent | No equivalent |
| Timeout.default | 600 | No equivalent | No equivalent |
| timeout.[create| modify| cancel]Resv.confirm | 600 | No equivalent | No equivalent |
| timeout.[create| modify| cancel]Resv.complete | 600 | No equivalent | No equivalent |
| timeout.[create| teardown]Path.confir m | 600 | No equivalent | No equivalent |
| timeout.[create| teardown]Path.retry Attempts | 10 | No equivalent | No equivalent |
| timeout.teardownPat h.waitForLocalSetup Attempts | 6 | No equivalent | No equivalent |
| timeout.teardownPat h.waitForLocalSetup AttemptTime | 10 | No equivalent | No equivalent |
| policy.useService | 1 | No equivalent | No equivalent |
| policy.service.url | https://127.0.0.1/policyEngine | No equivalent | No equivalent. |
| policy.vlanFilter.scope | node | VlanPCE/conf/config.SSL.yaml  OSCARSService/conf/config.SSL.yaml | vlanScope |
| rmi.[aaa|bss| notifybroker].serverPort | 1098 | No equivalent | No equivalent |
| rmi.[aaa|bss| notifybroker].registr yHost | 127.0.0.1 | No equivalent | No equivalent |
| rmi.[aaa|bss|notifybroker].registr yPort | 1099 | No equivalent | No equivalent |
| rmi.[aaa|bss|notifybroker].registeredServerName | AAARmiServer | No equivalent | No equivalent |
| wbui.defaultLayer | 3 | No equivalent | No equivalent |

### Modify WBUI access settings

By default, you can use your browser to login in to the WBUI at https:/localhost:8443/OSCARS. You may then login using the user credentials from your 0.5 installation. Currently you can use the browser interface to manager users, create, query or list reservations.

The default configuration for the WBUI is to allow access to only the “localhost”. To allow web access to all hosts other than the one hosting the WBUI, use the following script:

cd $OSCARS\_DIST/tools/bin

./idc-wbuiaccess <CONTEXT> <option>

<Option> is one of allow or deny, where “allow” allows web UI access to all hosts, and “deny” limits it to the current host alone (i.e deny to every one but localhost).

Alternatively, you could edit the files $OSCARS\_HOME/WBUIService/conf/ jetty.XXX.xml. Look for a line like:

|  |
| --- |
| <Set name="host">localhost.localdomain</Set> |

Change the localhost.localdomain entry, or comment out this line.

## Configure Interdomain peering

Data about peering domains used to be added into the MySQL database in 0.5.X. To continue peering with those domains, transfer this data into OSCARS 0.6. For ease of reading, let us name your domain as “your\_domain” and refer to the peer domain and host using valuesof variables peer\_domain and peer\_host.

### Peering with an 0.6 domain

Add peering domains to the lookup service by following the steps below:

|  |
| --- |
| cd $OSCARS\_DIST/lookup  ./bin/oscars-idcadd -d $peer\_domain -p http://oscars.es.net/OSCARS/06 -l http://$peer\_host:9001/OSCARS |

Remember to run this step on both the 0.6 domains that you want to peer.

### Peering with 0.5 domain

To peer with a 0.5 domain, run these set of steps:

* Make your current 0.6 installation aware of the 0.5 domain

|  |
| --- |
| cd $OSCARS\_DIST/lookup  ./bin/oscars-lookupadmin --cache-add -t IDC -p http://oscars.es.net/OSCARS=https://$peer\_host:8443/axis2/services/OSCARS -r controls=urn:ogf:network:domain=$peer\_domain,publisher=https://$peer\_host:8443/axis2/services/OSCARSNotify |

* Make the peer 0.5 domain aware of your 0.6 installation

On your peering 0.5 IDC, execute the following set of commands:

|  |
| --- |
| cd $OSCARS\_HOME/tools/utils/  ./idc-domainmod  Select the entry that corresponds to your\_domain. Enter https://<yourhost.yourdomain>:9001/OSCARS when prompted for URL    ./idc-servicemod  Select the entry that corresponds to your\_domain and “NB”. Enter  https:// <yourhost.yourdomain>:9013/OSCARS/wsnbroker when prompted for URL |

### Disable hostName check

If you would like to disable the hostname checks in peer SSL certificate verification, change configuration files to do so.

Look for lines like “disableCNCheck=false” and change this to “disableCNCheck=true”.

The files that need these changes are:

|  |
| --- |
| $OSCARS\_HOME/TopoBridgeService/conf/client-cxf-ssl.xml  $OSCARS\_HOME/DijkstraPCE/conf/client-cxf-ssl.xml  $OSCARS\_HOME/VlanPCE/conf/client-cxf-ssl.xml  $OSCARS\_HOME/PCEService/conf/pce-runtime-client-cxf-ssl.xml  $OSCARS\_HOME/PCEService/conf/nullagg-client-cxf-ssl.xml  $OSCARS\_HOME/AuthNService/conf/client-cxf-ssl.xml  $OSCARS\_HOME/LookupService/conf/client-cxf-ssl.xml  $OSCARS\_HOME/ConnectivityPCE/conf/client-cxf-ssl.xml  $OSCARS\_HOME/AuthZPolicyService/conf/client-cxf-ssl.xml  $OSCARS\_HOME/WBUIService/conf/client-cxf-ssl.xml  $OSCARS\_HOME/AuthNPolicyService/conf/client-cxf-ssl.xml  $OSCARS\_HOME/L3MplsPCE/conf/client-cxf-ssl.xml  $OSCARS\_HOME/CoordService/conf/client-cxf-ssl.xml  $OSCARS\_HOME/WSNBrokerService/conf/client-cxf-ssl.xml  $OSCARS\_HOME/AuthZService/conf/client-cxf-ssl.xml  $OSCARS\_HOME/BandwidthPCE/conf/client-cxf-ssl.xml  $OSCARS\_HOME/ResourceManagerService/conf/client-cxf-ssl.xml  $OSCARS\_HOME/PSSService/conf/client-cxf-ssl.xml |

In linux, you may run a command like

|  |
| --- |
| grep -r "disableCNCheck=\"false\"" /etc/oscars/ |cut -d: -f1 |xargs sed -i "s/disableCNCheck=\"false\"/disableCNCheck=\"true\"/g" |

Please exercise caution when you do so and check each file to see if the contents remain as you desire.