

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 1^{\perp}

GENERAL METHOD OF PROCEDURE

MOP Version: 1.8 MOP Date: <TBD> MOP Approval Required by: <TBD> Start Date: <TBD> Completion Date: <TBD> Required Remote Time: <TBD>

Office name: <TBD>

MOP PREPARATION & REVISION HISTORY

| Revision # | Changes/Comment | Date | Author |
|------------|---|----------|--|
| 1.0 | Original Document | 09/06/07 | Philip Peake, Nate Coffing, George Knerr |
| 1.1 | Added NPA CoS changes & Old MTAS API Deletion | 9/16/07 | George Knerr |
| 1.2 | Grammar spolling commonts formatting | 0/17/07 | Lypp Bailoy |
| 1.2 | Chammar, spening, comments, formatting | 3/17/07 | Lynn Dalley |
| 1.3 | Back out, step clarification | 9/17/07 | George Knerr |
| 1.4 | Final Proof | 9/18/07 | Lynn Bailey, Ramnik Bahl |
| 1.5 | Final Proof – changed doc name to present name | 9/18/07 | Lynn Bailey, Ramnik Bahl |
| 1.6 | Additional VZW required sections added, updates from Internal Review | 10/03/07 | George Knerr, Lynn Bailey, Ramnik Bahl |
| 1.7 | NPA Split Regression Test added and CoS in Appendix modified. | 10/08/07 | George Knerr |
| 1.8 | Additional corrections made from initial Southlake staging MOP execution. | 10/21/07 | George Knerr |

IMPORTANT!

It is imperative this document be read and implemented in its entirety with no deviations from the procedures as written. It is the responsibility of the person(s) implementing this MOP to ensure proper system operation with minimum service interruption.

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 2^{\perp}

Detailed job description and what the work will accomplish. (1)

This MOP describes the necessary steps for an LDAP engineer to upgrade the MTAS API to R2 (Release 2). The MTAS API is responsible for connecting MTAS to its LDAP backend. The MTAS API translates XML from MTAS into LDAP for the LDAP server and vise versa.

This MTAS API update implements the default attribute enhancement requested by Verizon Wireless. Two updates will be performed in each region, first for the primary LDAP server and, upon success, subsequently to the secondary LDAP server. Regions will be updated one at a time reusing this MOP for each region as well as the staging environment.

During the upgrade MTAS provisioning will be interrupted and MTAS will need to be disabled by VZW MTAS Team. Therefore an MTAS provisioning outage can be expected for the entire maintenance window.

MMSC from the subscriber's perspective will not be impacted.

Master 1 and Primary Server are used interchangeably in this document. Master 2 and Secondary Server are used interchangeably in this document

For time execution of procedure attached R2 Deployment MOP Timing*.xls

Summary of Procedure & Timeline

Preparation (To be completed prior to maintenance window - 1 hour)

- 1. Verify r2.deployment.tar is available.
- 2. Have available the passwords of the required users: (see detailed section)
- Personnel performing upgrade connect/s via ssh to servers to be upgraded, both primary and secondary master's for the region being upgraded. Verify connectivity to web servers administration and MTAS API root directory via http. Also verify DS administrative console access.
- 4. VZW to provide MMSC and MTAS support for both Staging and Production deployments.
- Obtain 2 test MDNs (one in NPA starting with even digit and the other in NPA starting with odd digit) for region to be upgraded to R2
- 6. Verify Verizon Wireless readiness to support handset tests
- 7. Perform initial handset test.

MTAS Stopping (Provisioning Outage Starts - 20 minutes)

- 1. Stop MTAS & Verify (Provisioning outage starts)
- 2. Execute New Mexico NPA Split R2 Conversion Script (West Region Only)

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 3^{\perp}

Generic Attribute & CoS Installation & Modification (Primary and Secondary Servers - 15 minutes)

- 1. Add New Attributes
- 2. Include New Attributes into mmsobject objectclass
- Add the R2 CoS Entries (New Mexico NPA Split R2 Conversion Script Must be complete West Region Only)
- 4. Perform handset test.

MTAS API Installation (Primary Server - 30 minutes)

- 1. Delete Previous MTAS API (WAR) File
- 2. MTAS API (WAR) File Deployment (mtas-api_2.0.2.war)
- 3. Java Virtual Machine (JVM) Tuning
- 4. Web Server Performance Tuning

R2 Regression Testing (Primary Server - 1 hour)

- 1. Determine Master 1 (m1) test MDN
- 2. Delete Test MDN if already exists
- 3. Add & Query Test MDN
- 4. Perform Handset Test
- 5. Modify & Query Test MDN
- 6. Perform Handset Test
- 7. Delete & Query Test MDN
- 8. Prepare for MTAS start
- 9. Start MTAS (Provisioning Outage Ends)
- 10. Monitor logs and verify MTAS operability
- 11. Proceed or Back-Out decision

NPA Split Regression Test (Primary Server - 30 minutes)

- 1. Load Permissive Period NPA Split Test Pair
- 2. Default Permissive Period NPA Split Pair Value Test
- 3. Modify New Default Attributes on New NPA Test

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 4^{\perp}

- 4. New Attribute Reset (Delete) Test
- 5. Modify New Default Attributes on Old NPA Test
- 6. Delete Permissive Period NPA Split Test Pair
- 7. New Mexico Existing NPA Split Test (West Region Only)
- 8. Proceed or Back-Out decision

MTAS API Installation (Secondary Server - 30 minutes)

- 1. Delete Previous MTAS API (WAR) File
- 2. MTAS API (WAR) File Deployment (mtas-api_2.0.2.war)
- 3. Java Virtual Machine (JVM) Tuning
- 4. Web Server Performance Tuning

R2 Regression Testing (Secondary Server - 1 hour)

- 1. Determine Master 2 (m2) test MDN
- 2. Delete Test MDN if already exists
- 3. Add & Query Test MDN
- 4. Perform Handset Test
- 5. Modify & Query Test MDN
- 6. Perform Handset Test
- 7. Delete & Query Test MDN
- 8. Prepare for MTAS redirect
- 9. Redirect MTAS to Master 2/Secondary
- 10. Monitor logs and verify MTAS operability
- 11. Proceed or Back-Out decision
- 12. Redirect MTAS to Master 1/Primary

R2 Back-Out (Master Server 1 or 2 - 30 minutes)

- 1. Stop MTAS & Verify (Provisioning outage starts)
- 2. MTAS API Back-Out (mtas-api_1.5.war)
- 3. CoS Back-Out

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 5^{\perp}

- 4. Attribute Back-Out
- 5. Java Virtual Machine (JVM) Tuning Back-Out

R1 Regression Testing after Back-Out (Master Server 1 or 2 - 1 hour)

- 1. Determine Master 1 or 2 test MDN
- 2. Delete Test MDN if already exists
- 3. Add & Query Test MDN
- 4. Perform Handset Test
- 5. Modify & Query Test MDN
- 6. Perform Handset Test
- 7. Delete & Query Test MDN
- 8. Prepare for MTAS start
- 9. Start MTAS & Replay MTAS Transactions (Provisioning Outage Ends)
- 10. Monitor logs and verify MTAS operability

Equipment being worked on, and the effect on any other equipment. (2)

The following Regional LDAP databases will be affected by this MOP. This MOP will be scheduled to be performed on only one region per maintenance window affecting the primary and secondary LDAP master for that region.

An MTAS provisioning outage will occur for the duration of this MOP. MMSC will continue to operate uninterrupted for the MOP duration.

Staging, Southlake, TX 10.194.13.242 txslmmscldap2.vzwcs.com (Primary Master) 10.194.13.247 txslmmscldap7.vzwcs.com (Secondary Master)

Central Region, Southlake, TX, Branchburg, NJ 10.194.211.34 txslldcent1.vzwcs.com (Primary Master) 10.194.104.39 njbrldcent2.vzwcs.com (Secondary Master)

East Region, Branchburg, NJ, Southlake, TX 10.194.104.34 njbrldeast1.vzwcs.com (Primary Master) 10.194.211.39 txslldeast2.vzwcs.com (Secondary Master)

West Region, Rocklin, CA, Southlake, TX 10.215.156.98 carkldwest1.vzwcs.com (Primary Master) 10.194.211.42 txslldwest2.vzwcs.com (Secondary Master)

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 6^{\perp}

Required Documentation -

- Applicable Verizon Wireless MMSC documentation.
- Sun One Directory Server 5.2 Administration.
- Sun ONE Directory Server 5.2 Administration Guide.
- Sun ONE Directory Server 5.2 Deployment Guide.
- Sun ONE Directory Server 5.2 Getting Started Guide.
- Sun ONE Directory Server 5.2 Reference Manual.

Required Equipment and Resources (Entrance Requirements) -

Equipment Requirements

- Verizon Wireless Terminal or laptop for Access by ALU personnel to staging and production servers during MOP execution. Firefox or equivalent browser will be required to access certain GUI interfaces. In addition, Sun ONE Server Console will be installed, if not available on the requested equipment.
- MMSC and MTAS in staging.

Entrance Requirements

Escort required in Southlake for staging and Branchburg for production

- Southlake, TX Staging Servers, escorts required for guests.
- Branchburg, NJ Production Servers for all regions will be accessed from this site, escorts required for ALU personnel.

Safety requirements for personnel, equipment, tools, and hazardous materials. (3)

Not applicable.

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 7^{\perp}

Security requirements

Non-Verizon Wireless personnel will not be allowed access to Verizon Wireless facilities unless Verizon Wireless personnel are present and aware of the visitor. All visitors are required to sign-in and -out of the facility and will be issued a visitor ID that must be worn for the duration of the visit and returned at the conclusion of the visit. Visitors possessing their own company's photo ID's are required to display that ID in addition to the Verizon Wireless Visitor ID.

Doors shall be closed and secured at all times unless material/equipment is being transported in or out of the building. Doors shall not be propped open at any time.

Identification of the personnel doing the work, their hours, and how the SME can aid them. (4)

ALU Engineer (Production and Staging), <Name(s) TBD> – Support role, Access needed one hour prior to maintenance window and 4 hours during maintenance window.

Phone:

CDS Operations LDAP engineer (Production Only), <Name(s) TBD> - Responsible for MOP execution. Access needed one hour prior to maintenance window and 4 hours during maintenance window.

Phone:

CDS Operations MMSC Engineer (Production Only), <Name(s) TBD> - Support and testing role, Access needed one hour prior to maintenance window and 4 hours during maintenance window. Phone:

CDS Engineering (Production Only), <Name(s) TBD> - Verification and Support role, Access needed one hour prior to maintenance window and 4 hours during maintenance window.

Phone:

VZW Technology Development (Production Only), <Name(s) TBD> - Support role, Access needed one hour prior to maintenance window and 4 hours during maintenance window. Phone:

CDS Maintenance Engineering (Staging Only), <Name(s) TBD> - Verification and Support, Access needed one hour prior to MOP execution.

Phone:

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 8^{\perp}

Contact List

| Last Name | First Name | Phone | Mobile | eMail | Role | Location | Mgr |
|---------------------|---------------|------------------|------------------|--------------------------------------|------------------------|------------------------|-----------------------|
| Alcatel- Lucent | | | | | | | |
| Bahl | Ramni k | 623-582- 7888 | 602-538- 2545 | rbahl@ alcatel-lucent.com | Project Engineer | AZ | Mark Levengoo d |
| Levengood | Mark | 215-234- 4306 | | mleven@alcatel-lucent.com | Manager | PA | Andy Ragona |
| Cnota | Rick | 630-979- 6948 | | Rcnota@lucent.com | Tech Specialist | Napervill e, IL | |
| | | | | | | | |
| SUN | | | | | | | |
| Chase | Tom | 214-233- 3052 | 469-585- 5293 | Tom.Chase@sun.com | Project Manager | Dallas, TX | Ron Beaty |
| Coffing | Nathan ael | | 360-410- 6397 | Nathanael.Coffing@sun.com | Directory Architect | Seattle, WA | Dan Ward |
| Domino | Jim | 732-302- 3887 | 732-688- 6208 | James.Domino@sun.com | Engagemen t Mgr | Somerset , NJ | Ron Beaty |
| Knerr | George | | 704-516- 9373 | Ghk@webalution.net | Tech Specialist | FL | Dan Ward |
| Peak | Phillip | | | Phillip.peake@sun.com | F5 Eng | Port, Or | Dan Ward |
| Bailey | Lynn | 512-852- 8020 | 512-300- 8667 | Lynn.bailey@sun.com | Project Mgr | Austin, TX | Ron Beaty |
| | | | | | | | |
| VERIZON WIRELESS | | | | | | | |
| Yeh | Ning | 925-918- 3794 | | Ning-Chia.Yeh@VerizonWireless.com | | Walnut Creek, CA | |
| Roberts | Brandi e | | | Brandie.Roberts@VerizonWireless.com | | Walnut Creek, CA | |
| Jinks | Dave | 908-306- 7558 | | Dave.Jinks@VerizonWireless.com | | BBG, NJ | |
| Ryan | Kincaid | 908-203- 5814 | | Ryan.Kincaid@VerizonWireless.com | | BBG, NJ | |
| Kataraki | Vineet h | | | Vinneth.Katarki@ VerizonWireless.com | | CA | |
| Guldberg | Martin | 817-455- 5477 | | Martin.Guldberg@VerizonWireless.com | | SLK, TX | |
| Sen | Rahul | 732-841- 5442 | | Rahul.Sen@VerizonWireless.com | CDS Eng | BBG, NJ | |
| Berenyi | Norbert | 813-615- 4635 | | Norbert.Berenyi@VerizonWireless.com | | | |

 ${\tt MMSC-LDAP \ Subscriber \ Directory \ R2 \ Deployment \ MoP \ v1.8}$

Page 9^{\perp}

Identification of equipment being worked on, critical circuits, alarm responsibility, fusing and spares location. (5)

Alarming: Not applicable.

Fusing: Not applicable.

Software backup and change control requirements. (6)

Change control required and will be requested by Verizon Wireless CDS operations

Test sets, tests and expected results. (7)

See Summary of Procedure and subsequent test sections.

Observer Requirements. (9)

Dave Jinks to establish method of observation for staging.

Ryan Kinkaid to establish method of observation for production.

Back-out Procedure(10)

See Summary of Procedure and subsequent back-out procedure.

Equipment Delivery & Staging Requirements(12)

Servers are already installed in the VZW environment

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 10^{\perp}

Signing authority (13)

The job has been review and agreement has been reached on the methods and procedures to be followed to complete the work items covered by this MOP. Signatures can be via email. If e-mail signatures are used a printed copy of the e-mail should be attached to the on site hard copy.

MANDATORY SIGNATURES

Approved by Installation/service Representative

| Name (print) | Title Installation Mgr |
|--------------------------------|---------------------------------------|
| | Date |
| Work number Pager/other number | |
| Name (print) | Title On Site CA Manager |
| Signature | Date |
| Company | Name |
| Work other/other number | |
| Name (print) | Title Network Engineer |
| Signature | Date |
| Company | Name |
| Work other/other number | |
| Name (print) | Title Verizon Wireless Switch Manager |
| Signature | Date |
| Company | Name |
| Work other/other number | |

EMERGENCY TELEPHONE NUMBER LIST

NOTE: For Equipment trouble call the NOCC first

| Alarm Surveillance | NOCC | 1-800-264-6620 |
|------------------------------------|------|----------------|
| Facilities Surveillance | NOCC | 1-800-264-6620 |
| Technical Assistance / Other | | |
| VZW Security Office | | |
| OSHA/Environment Management | | |
| Building Maintenance | | |
| Emergency- Police, Fire, Ambulance | | |
| Emergency- Electric Utility | | |
| Emergency- Natural Gas Utility | | |
| Other- Specify | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 11^{\perp}

DETAIL STEP-BY-STEP PROCEDURE AND ADDITIONAL INFORMATION (8)

Preparation (To be completed prior to maintenance window - 1 hour)

- 1. Verify MTAS API latest release availability (mtas-api_2.0.2.war) as well as the old MTAS API for backout purposes (mtas-api_1.5.war).
 - a. Copy r2.deployment.tar to a working/home directory on both servers for the region.
 - b. Extract r2.deployment.tar

tar -xvf r2.deployment.tar

cd r2.deployment

c. Perform cksum to verify correct war files and compare to expected results below.

cksum mtas-api_1.5.war 766077356 5314186 mtas-api_1.5.war

2. Have available the passwords of the following users:

admin/cn=directory manager for Administration Console access.

admin for web server administration access

uid=mtas,ou=application,dc=vzw,dc=com

cn=directory manager

Solaris login:operator w/ sudo

- Personnel to perform upgrade connects to servers to be upgraded via ssh, both primary and secondary
 master's for the region being upgraded. Verify connectivity to web servers administration and MTAS
 API root directory via http. Additionally, verify DS administrative console access.
 - a. Verify ssh to primary and secondary server

Using an ssh client or from your console ssh to both the primary and secondary server to verify connectivity. An example session login is pictured below. Use the IP's for your region's servers.

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 12^{\perp}



To ssh from the command line type:

ssh operator@<server_IP>

Staging, Southlake, TX 10.194.13.242 txslmmscldap2.vzwcs.com (Primary Master) 10.194.13.247 txslmmscldap7.vzwcs.com (Secondary Master)

Central Region, Southlake, TX, Branchburg, NJ 10.194.211.34 txslldcent1.vzwcs.com (Primary Master) 10.194.104.39 njbrldcent2.vzwcs.com (Secondary Master)

East Region, Branchburg, NJ, Southlake, TX 10.194.104.34 njbrldeast1.vzwcs.com (Primary Master) 10.194.211.39 txslldeast2.vzwcs.com (Secondary Master)

West Region, Rocklin, CA, Southlake, TX 10.215.156.98 carkldwest1.vzwcs.com (Primary Master) 10.194.211.42 txslldwest2.vzwcs.com (Secondary Master)

b. Web server administration connectivity

- - **Formatted:** Centered

Open a web browser, Firefox is preferred but not an explicit requirement and verify both the primary and secondary server access to web administration. You will need to enter admin and the web server admin password when prompted as seen in the below pictured example.

http://<server_IP>:8888

Choosing server_IP from the list in the section titled "Equipment being worked on, the effect on any other equipment. (2) "

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 13^{\perp}

| Authen | tication Required 🔀 |
|--------|--|
| ? | Enter username and password for "Web Server Administration" at http://localhost:4321 User Name: |
| | admin Password: |
| | ******** |
| | OK Cancel |

The resulting administration page should be similar to that pictured below:

| 🕲 Web Server 6.1 Administration Server - Mozilla Firefox | |
|---|-------------------|
| Elle Edit View History Bookmarks Tools Help | $\langle \rangle$ |
| < r in the construction of the construction o | |
| Sun [™] ONE Web Server 6.1 Administration Server Welco admin | me |
| Servers Preferences Global Settings Users and Groups Security Cluster Mgmt | |
| Manage Servers Select a Server: mind weapos com X Manage | |
| Add Server Settings | |
| Migrate Server Hostname: m1md.lwsapps.com DNS: off User: webservd | |
| Done | |

c. Verify Administration Console access.

Starting the administration console from your laptop whose shortcut is named:

Sun ONE Server Console 5.2

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

I

Page 14 $^{\perp}$

Enter the User ID: cn=directory manager and associated password as pictured below:

| ^{Sun} Sun ONE Serve | er ConsoleLogin 🛛 🔀 |
|------------------------------|-------------------------------|
| User ID: | cn=directory manager |
| Password: | |
| Administration URL: | http://m1md.lwsapps.com:390 🔽 |
| OK | Cancel Help |

Use the following URLs: <u>http://10.194.13.242:390</u> for staging and 10.194.104.34:390 for

production.

The Administrative Console (Sun ONE Server Console 5.2) will be similar to what is depicted below:

| Sun ONE Server Console | | |
|--|--|------|
| <u>Console Edit View Object Help</u> | | |
| Sun [™] ONE Server Consol Servers and Applications Users of Default View Musapps.com Mand.lwsapps.com Mand.lwsapps.com DPS Configurations | e and Groups Iwsapps.com Domain name: Iwsapps.com Description: Standard branch for configuration information User directory host and port: m1md.Iwsapps.com:3890 Secure connection: User directory subtree: dc=vzw,dc=com Bind DN: Bind password: Edit | Help |
| ď | | |

4. VZW to have MMSC and MTAS support for Staging.

MMSC and MTAS will be needed for Staging.

5. Determine test MDN for region to be upgraded to R2

Record the test MDN's for the region to be upgraded (Two required one for master1/primary server (MDN in NPA starting with odd digit) and one for master2/secondary server (MDN in NPA starting with even digit)

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 15^{\perp}

Modify mop.xml.ldap.txt mop.xml.ldap.sec.txt with the appropriate M1 and M2 test MDNs.

master1 (m1) Test MDN:

master2 (m2) Test MDN:

6. Verify Verizon Wireless readiness to support handset tests

Responsible VZW personnel are to verify that test handsets are ready.

7. Perform handset test

Listed below, establishing that the hand set test works before the upgrade. Both master1 (m1) Test MDN and master2 (m2) Test MDN will be tested using the test matrix below:

| Step# | Procedure | Expected Results | Actual Results | Pass/ | Verification Data |
|-------|---|---------------------------|----------------|-------|-------------------|
| | | | | Fail | Location |
| 1 | Tail LDAP server | n/a | n/a | n/a | n/a |
| | access log for test | | | | |
| | MDN using the | | | | |
| | command below | | | | |
| | replacing | | | | |
| | <servername> with</servername> | | | | |
| | appropriate server | | | | |
| | name and <test< td=""><td></td><td></td><td></td><td></td></test<> | | | | |
| | MDN> with the test | | | | |
| | MDN. | | | | |
| | toil f | | | | |
| | | | | | |
| | /var/mps/serverroot/ | | | | |
| | siapu- | | | | |
| | access grep <m1< td=""><td></td><td></td><td></td><td></td></m1<> | | | | |
| | test MDNs | | | | |
| 2 | Using m1 test MDN | Destination mobile | | | |
| - | send an MMS from | receives test MMS. | | | |
| | one mobile to | | | | |
| | another. Verify that it | | | | |
| | is received in the | | | | |
| | destination mobile. | | | | |
| | Verify tailed access | Similar to the | | | |
| | log shows query for | following with time | | | |
| | m1 test MDN | and test MDN being | | | |
| | | different: | | | |
| | | | | | |
| | | [02/Oct/2007:16:37:5 | | | |
| | | 9 +0000] | | | |
| | | conn=860265 | | | |
| | | op=2628 | | | |
| | | msgid=12895 - | | | |
| | | SRCH | | | |
| | | base="ou=people,dc | | | |
| | | =vzw,dc=com | | | |
| | | filtor="(mdn=0216444 | | | |
| | | 11101 = (11011 = 9310441) | | | |
| | | usu)" attrs="ipv4 mdn | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 16^{\perp}

| | | min mmsnotif MMSServiceClass MMSSubscriberEnabl e uid" | | | |
|---|--|---|-----|-----|-----|
| 3 | Tail LDAP server access log for test MDN using the command below replacing <servername> with appropriate server name and <test MDN> with the test MDN.</test </servername> | n/a | n/a | n/a | n/a |
| | tail –f /var/mps/serverroot/ slapd- <servername>/logs/ access grep <m2 test MDN></m2 </servername> | | | | |
| 3 | Using m2 test MDN send an MMS from one mobile to another. Verify that it is received in the destination mobile. | Destination mobile receives test MMS. | | | |
| 4 | Verify tailed access log shows query for m2 test MDN | Similar to the following with time and test MDN being different: [02/Oct/2007:16:37:5 9 +0000] conn=860265 op=2628 msgld=12895 - SRCH base="ou=people,dc =vzw,dc=com" scope=2 filter="(mdn=9316441 080)" attrs="ipv4 mdn min mmsnotif MMSServiceClass MMSSubscriberEnabl e uid" | | | |

 ${\tt MMSC-LDAP \ Subscriber \ Directory \ R2 \ Deployment \ MoP \ v1.8}$

Page 17^{\perp}

MTAS Stopping (Provisioning Outage Starts)

1. Stop MTAS & Verify

Prior to stopping MTAS tail the transaction.log and affirm the MTAS provisioning activity has stopped:.

- 1. From the command line substituting the correct SERVER NAME where denoted:
- # cd /opt/SUNWwbsvr/https-<SERVER NAME>/webapps/https-<SERVER NAME> /mtasapi/mtasapi/WEB-INF/logs

where <SERVER NAME> is

Staging:

txmmscldap2 txmmscldap4

Production:

txslldcent1.vzwcs.com njbrldcent2.vzwcs.com njbrldeast1.vzwcs.com txslldeast2 carkldwest1.vzwcs.com TXSLLDWEST2

- 3. # tail -f transaction.log
- Responsible Verizon Wireless personnel should now stop MTAS for this region. (Provisioning Outage Begins)
- 5. Verify transaction logging stopped.
- 6. If activity persists in the transaction.log verify MTAS has indeed been stopped.

2. Execute New Mexico NPA Split R2 Conversion Scripts (West Region Only)

This step will execute the New Mexico NPA Split R2 Conversion Scripts. These scripts will ensure compatibility between the New Mexico NPA Split entries and R2. The scripts running time will be 60 minutes.

These scripts **must** be completed before changing the CoS definitions and before MTAS is turned back on. These scripts requires that the R1 NPA CoS definition stays intact during the scripts execution.

cd ~/r2.deployment

#./npa.split.ldif.backup.pl
#./npa.split.r2.conv.pl

If any errors are detected when reading the parent entries (such as there being no MMSServiceClass attribute returned), these errors are recorded in a file named "scan-errors" created in the directory in which

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 18^{\perp}

the script is run -- note that the user running the script must have write permission in the directory in which the script is run.

If any errors are detected while updating the child entry, these errors are recorded in a file named " updateerrors" in the directory in which the script is executed. Again, appropriate permissions are required.

Generic Attribute & CoS Installation & Modification

The Generic Attribute & CoS Installation & Modification steps are to be performed only on the primary LDAP server for the region being upgraded. Replication from the primary server will automatically propagate those changes to the secondary.

1. Add New Attributes

This is accomplished by adding to the new schema definition to the actual Directory Server database via the Directory Server Console

The following steps are part of this processing

1. Login to the Console using the following Administration URLs:

Staging, Southlake, TX http://10.194.13:242:390

Production (All regional databases) http://10.194.104.34:390

- 2. Open the Primary Master Directory Server Management window
- 3. Select Configuration tab, then Schema in LH panel, then attributes tab:

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 19[⊥]

| un Java™ Syste | m Directory Server | Version 5.2 | | | |
|---------------------|---|----------------------------|-----------------|-------------|---------|
| Tasks Configuration | Directory Status | | | | |
| 280R.vogon.net:389 | The schema checking is ena | abled | - Ta | 1 | Disable |
| Contraction Schema | Object Classes Att Standard Attributes (Read-0 | ributes Matching Rules | | | |
| Backups | Name | OID | Syntax | Multivalued | |
| U Logs | abstract | 0.9.2342.19200300.102 | DirectoryString | V | |
| 🗄 🦣 Plugins | accountunlocktime | 2.16.840.1.113730.3.1.95 | GeneralizedTime | | - |
| | aci | 2.16.840.1.113730.3.1.55 | IA5String | N. | |
| | aclrights | 1.3.6.1.4.1.42.2.27.9.1.39 | DirectoryString | N. | |
| | aclrightsinfo | 1.3.6.1.4.1.42.2.27.9.1.40 | DirectoryString | N. | |
| | administratorcontactinfo | 2.16.840.1.113730.3.1.74 | DirectoryString | V | |
| | adminrole | 2.16.840.1.113730.3.1.601 | DirectoryString | N. | |
| | adminurl | 2.16.840.1.113730.3.1.75 | IA5String | 2 | |
| | aliasedobjectname | 2.5.4.1 | DN | | |
| | attserver | 1.3.6.1.4.1.1466.101.120.6 | IA5String | N | |
| | User Defined Attributes: | | | <i></i> | |
| | Name | OID | Syntax | Multivalued | 2 |
| | mdn | mdn-oid | INTEGER | | |
| | min | min-oid | INTEGER | Г | 100 |
| | mmsblacklistelement | mmsblacklistelement-oid | DirectoryString | V V | |
| | mmsblacklistenabled | mmsblacklistenabled-oid | INTEGER | Г | |
| | mmsipv4addr | mmsipv4addr-oid | INTEGER | | |
| | mmsnotif | mmsnotif-oid | DirectoryString | Г | |
| | mmspermstorageadd | mmspermstorageadd-oid | DirectoryString | | |
| | mmsserviceclass | MMSServiceClass-oid | DirectoryString | Г | |
| | mmssubscriberenable | MMSSubscriberEnable-oid | INTEGER | | |
| | mmsuserid | mmsuserid-oid | DirectoryString | | |
| | | | Ϋ́ . | | 144445 |

4. Click on the create button and add ContentAccessLevel attribute. Enter name, Select type (INTEGER) and uncheck Multi-valued checkbox:

| 🕸 Create Attribute | × |
|--|-----|
| Attribute name: ContentAccessLevel | |
| Attribute OID (optional): | |
| Attribute aliases separated with ',(optional): | |
| Attribute description (optional): | |
| Syntax: INTEGER | - |
| Mutti-valued | |
| OK Cancel H | elp |

 ${\tt MMSC-LDAP \ Subscriber \ Directory \ R2 \ Deployment \ MoP \ v1.8}$

Page 20^{\perp}

5. Click OK button. New attribute will appear in the User Defined Attributes list:

| un Java™ System | Directory Server | Version 5.2 | | | |
|---|---|----------------------------|---------------------------|--------------|---------|
| Tasks Configuration Di | rectory Status | | | | |
| 280R.vogon.net:389 9 🕑 Data 🔃 Performance | The schema checking is ena | ibled | 1 | Ţ | Disable |
| | Standard Attributes (Read.) | hower i matching rules | | | |
| | Name | | Svntav | Multivalued | |
| 🗓 Logs | abstract | 0.9.2342 19200300 102 | DirectoryString | | |
| 🗜 🥽 Plugins | accountunlocktime | 2 16 840 1 113730 3 1 95 | GeneralizedTime | | - |
| | aci | 2 16 840 1 113730 3 1 55 | IA5String | 2 | |
| | actrights | 136141422279139 | DirectoryString | 2 | |
| | aclrightsinfo | 1.3.6.1.4.1.42.2.27.9.1.40 | DirectoryString | V | |
| | administratorcontactinfo | 2 16 840 1 113730 3 1 74 | DirectoryString | 2 | |
| | adminrole | 2.16.840.1.113730.3.1.601 | DirectoryString | V | |
| | adminurl | 2 16 840 1 113730 3 1 75 | IA5String | V | |
| | aliasedobiectname | 2.5.4.1 | DN | | |
| | attserver | 1.3.6.1.4.1.1466.101.120.6 | IA5String | V | |
| | aliasedObjectName: Standard LDAP attribute type | | | | |
| | User Defined Attributes: | 00 | 0.11 | 14 Minut and | |
| | Name | OD | Syntax | Multivalued | |
| | contentaccessievel | ContentAccessLevel-old | INTEGER | | ^ |
| | Iman | man-ola | INTEGER | - | |
| | min www.elsla.elslietelew.eut | min-old | INTEGER Divertem Ohimu | | |
| | mmsblacklistelement | mmsblacklistelement-old | DirectoryString | | |
| | mmsblacklistenabled | mmsblacklistenabled-old | INTEGER | | |
| | mmsipv4addr | mmsipv4addr-oid | INTEGER Disaster Obier | | |
| | mmshout | mmsriour-old | DirectoryString | | |
| | mmspermstorageadd | mmspermsturageadd-old | DirectoryString | - | |
| | mmsserviceclass | MINISSErviceClass-old | Directorystring | | |
| | Immssubscriberenable | ININISSUBSCRIDEREnable-old | INTEGER | - La dela | |
| | Create | dit Delete | 1 | | Help |

6. Repeat the process for each of the attributes; moCopy, mtCopyDivert, mtCopyOrDivert and moCopyAddress.

Note: that moCopyAddress is of type DirectoryString, **not** INTEGER:

| 💠 Create Attribute |
|--|
| Attribute name: moCopy |
| Attribute OID (optional): |
| Attribute aliases separated with ','(optional): |
| Attribute description (optional): |
| Syntax: INTEGER |
| T Multi-valued |
| Select to allow the attribute to be multi-valued |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

| Page | 21⊥ |
|------|-----|
|------|-----|

| 🕸 Create Attribute 🔀 |
|---|
| Attribute name: mtCopyDivert |
| Attribute OID (optional): |
| Attribute aliases separated with ','(optional): |
| Attribute description (optional): |
| Syntax: INTEGER |
| T Multi-valued |
| OK Cancel Help |

| 🚸 Create Attribute | × |
|---|---|
| Attribute name: mtCopyOrDivert | 1 |
| Attribute OID (optional): | 1 |
| Attribute aliases separated with ','(optional): | 1 |
| Attribute description (optional): | 1 |
| Syntax: INTEGER | |
| Multi-valued | |
| OK Cancel Help |] |

| 💠 Create Attribute 🛛 🛛 🔀 |
|---|
| Attribute name: moCopyAddress |
| Attribute OID (optional): |
| Attribute aliases separated with ','(optional): |
| Attribute description (optional): |
| Syntax: DirectoryString |
| I Multi-valued |
| OK Cancel Help |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 22 $^{\perp}$

2. Include New Attributes into mmsobject objectclass

1. Verify in the User Defined Attributes panel that all the attributes exist, have the correct types and do not have the multi-valued checkbox checked.

Select the Object Classes tab, then mmsobject in the LH panel:



MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 23[⊥]

2. Click on the Edit button. Locate the ContentAccessLevel attribute in the Available Attributes list, and click on it:

| Name: | Parent: | |
|--------------------------|----------------------------------|----------|
| mmsObject | top | • |
| | OID (Optional): mmsObject-oid | |
| Available Attributes: | Required Attributes: | |
| cirupdatefailedat 🔺 | objectclass | |
| cirupdateschedule | | |
| cirusepersistentsearch 👘 | Add * | |
| cirusessl | | |
| cn | < Remove | |
| co | | |
| contentaccesslevel | | |
| cosattribute | J | |
| cosindirectspecifier | Allowed Attributes: | |
| cospriority | modelaskistelawart | |
| cosspecifier | mmsblacklistelement | - |
| costargettree | minisplacklistenapied | |
| costemplatedn | Add / mmsipv4addr | |
| crosscertificatepair | Remove mmsnoun | |
| dc | mmspermstorageadd | |
| deleteoldrdn | mmssubscriberenable | |
| deltarevocationlist | mmswhitelistenehled | - |
| I denartmentnumher | Immswhitelistenabled | <u> </u> |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 24^{\perp}

3. Click on the lower Add button to add this attribute to the Allowed Attributes list:

| ImmsObject top OD (Optional): mmsObject-oid Available Attributes: cirupdateschedule cirusepersistentsearch cirusessl cn costartibute cosspriority cosspecifier costargettree costarget | Name: | Parent: |
|--|---|---|
| OD (Optional): Available Attributes: Cirupdaterialedat cirupdateschedule cirusepersistentsearch cirusepersistentsearch con cosattribute cossidirectspecifier costargettree costargettree costemplatedn dc dc deleteoldrdn deletarevocationist departmentnumber | mmsObject | top 🔽 |
| Available Attributes: cirupdatefailedat cirupdateschedule cirupdateschedule cirusepersistentsearch cirusessl cn co co cosattribute cosstribute cosstribute cosstroity costerplatedn crosscertificatepair dc delarevocationlist departmentnumber | | OID (Optional): mmsObject-oid |
| cirupdateschedule cirusepersistentsearch cirusessl cn co costadiriectspecifier costrority cosspecifier costemplatedn crosscertificatepair dc delateoldridn detarevocationlist departmentnumber | Available Attributes: | Required Attributes: objectclass |
| cospriority cosspecifier costargettree costemplatedn crosscertificatepair dc deletarevocationlist departmentnumber | cirupdateschedule cirusepersistentsearch cirusessi cn co cosattribute cosindirectspecifier | Add |
| | cospriority cosspecifier costargettree costemplatedn crosscertificatepair dc deleteoldrdn detarevocationlist decartmentnumber | Allowed Attributes: Cortentaccesslevel mmsblacklistelement mmsipv4addr mmspermstorageadd mmssubscriberenable |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 25^{\perp}

4. Repeat for moCopy, mtCopyDivert, mtCopyOrDivert and moCopyAddress attributes:

| 🕸 Edit Object Class | × |
|---|--|
| Name: mmsObject | Parent: top OID (Optional): mmsObject-oid |
| Available Attributes: mgrpmsgrejectaction mgrpmsgrejecttext mgrpnoduplicatechecks mgrprfc822mailmember min mmsserviceclass mmsuserid | Add Add Add Add Add Add Add Add |
| mobile mutilinedescription name nameforms netsharehometheme netsharehomeurl netsharepmadmin netsharepmnewprojpar | Allowed Attributes: mmspermstorageadd mmssubscriberenable mmswhitelistelement mmswhitelistenabled Remove Mocopy mocopyaddress mtcopydivert mtcopyordivert |
| | <u>O</u> K <u>C</u> ancel <u>H</u> elp |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 26^{\perp}

| 🕸 Edit Object Class | <u> </u> |
|---|--|
| Name: mmsObject | Parent: top OID (Optional): mmsObject-oid |
| Available Attributes: mgrpmsgrejectaction mgrpmsgrejecttext mgrpnoduplicatechecks mgrpremoveheader mgrprfc822mailmember min mmsserviceclass mmsuserid | Add • |
| mobile multilinedescription name nameforms netsharehometheme netsharehomeurl netsharememberof netsharepmadmin netsharepmnewprojpar | Allowed Attributes: mmspermstorageadd mmssubscriberenable mmswhitelistelement mmswhitelistenabled mocopy mocopyaddress mtcopydivert mtcopyordivert |
| | OK Cancel Help |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 27^{\perp}

| 🕸 Edit Object Class | X |
|---|--|
| Name: mmsObject | Parent: top OID (Optional): mmsObject-oid |
| Available Attributes: mgrpmsgrejectaction mgrpmsgrejecttext mgrpnoduplicatechecks mgrpremoveheader mgrprfc822mailmember min mmsserviceclass mmsuserid | Add Add Add Add Add Add Add Add |
| mobile multilinedescription name nameforms netsharehometheme netsharehomeurl netsharenemberof netsharepmadmin netsharepmnewprojpar | Allowed Attributes: mmspermstorageadd mmssubscriberenable mmswhitelistelement mmswhitelistenabled mocopy mocopyaddress mtcopydivert mtcopyordivert |
| | <u>O</u> K <u>C</u> ancel <u>H</u> elp |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 28^{\perp}

| 💠 Edit Object Class | × |
|---|---|
| Name: mmsObject | Parent: top OID (Optional): mmsObject-oid |
| Available Attributes: mgrpmsgmaxsize mgrpmsgrejectaction mgrpnsgrejecttext mgrpnoduplicatechecks mgrpremoveheader mgrprfc822mailmember min mmsserviceclass mmsuserid | Add • Add • |
| minisuseria mobile multilinedescription name nameforms netsharehometheme netsharehomeurl netsharememberof netsharepmadmin netsharepmnewprojpar | Allowed Attributes: mmspermstorageadd mmssubscriberenable mmswhitelistelement mmswhitelistenabled mocopy mocopyaddress mtcopydivert mtcopyordivert ▼ |
| | OK Cancel Help |

5. Click on the OK button. Schema will be updated. Verify that attributes have been added in steps 12 and 13

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 29^{\perp}

6. Under the Configuration tab, click on Schema (left hand panel), then the Attributes tab in the left hand panel. The new attributes will be listed in the User Defined Attributes pane:

| n Java™ System Directory Ser | /er | Version 5.2 | | | | |
|--|--|----------------------------|-----------------|-------------|---------|--|
| sks Configuration Directory Status | | | | | | |
| 280R.vogon.net:389 Data The schema ch | ecking is enab | oled | | J | Disable | |
| Performance Object Class | Object Classes Attributes Matching Rules | | | | | |
| Backups Standard Attrib | tes (Read-Or | nly): | lane | | | |
| Name | | OID | Syntax | Multivalued | | |
| abstract | | 0.9.2342.19200300.102 | DirectoryString | | | |
| accountunlock | time | 2.16.840.1.113730.3.1.95 | GeneralizedTime | | | |
| aci | | 2.16.840.1.113730.3.1.55 | IA5String | | | |
| aclrights | | 1.3.6.1.4.1.42.2.27.9.1.39 | DirectoryString | | | |
| aclrightsinfo | | 1.3.6.1.4.1.42.2.27.9.1.40 | DirectoryString | V | | |
| administratorc | ontactinfo | 2.16.840.1.113730.3.1.74 | DirectoryString | V | | |
| adminrole | | 2.16.840.1.113730.3.1.601 | DirectoryString | V | | |
| adminurl | | 2.16.840.1.113730.3.1.75 | IA5String | | | |
| aliasedobjectn | ame | 2.5.4.1 | DN | | | |
| attserver | | 1.3.6.1.4.1.1466.101.120.6 | IA5String | N | 1 | |
| User Defined A | User Defined Attributes: | | | | | |
| Name | | OID | Syntax | Multivalued | | |
| mmsservicecla | ISS | MMSServiceClass-oid | DirectoryString | | | |
| mmssubscribe | renable | MMSSubscriberEnable-oid | INTEGER | | | |
| mmsuserid | mmsuserid mms | | DirectoryString | | | |
| mmswhiteliste | ement | mmswhitelistelement-oid | DirectoryString | M | | |
| mmswhiteliste | nabled | mmswhitelistenabled-oid | INTEGER | | | |
| mocopy | | moCopy-oid | INTEGER | | | |
| mocopyaddres | s | moCopyAddress-oid | DirectoryString | | | |
| mtcopydivert | mtcopydivert mtCo | | INTEGER | | | |
| mtcopyordiver | s | mtCopyOrDivert-oid | INTEGER | | | |
| newnpa | | newnpa-oid | INTEGER | | | |
| newnpa | | newnpa-oid | INTEGER | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 30^{\perp}

7. Click on the Object Classes tab (right hand panel) and select the mmsobject in the User Defined Object Classes pane. The new attributes will be displayed in the Allowed Attributes pane:



MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 31^{\perp}

3. Add the R2 CoS Entries

See Appendix A - CoS Entry Addition

4. Perform Handset Test

Perform handset test using Master 1 (m1) Test MDN.

Record Master 1 (m1) Test MDN:

| Step# | Procedure | Expected Results | Actual Results | Pass/ Fail | Verification Data Location |
|-------|--|---|----------------|---------------|-------------------------------|
| 1 | Tail LDAP server access log for test MDN using the command below replacing <servername> with appropriate server name and <test MDN> with the test MDN.</test </servername> | n/a | n/a | n/a | n/a |
| | tail -f /var/mps/serverroot/ slapd- <servername>/logs/ access grep <m1 test MDN></m1 </servername> | | | | |
| 2 | Using m1 test MDN send an MMS from one mobile to another. Verify that it is received in the destination mobile. | Destination mobile receives test MMS. | | | |
| 3 | Verify tailed access log shows query for test MDN | Similar to the following with time and test MDN being different: [02/Oct/2007:16:37:5 9 +0000] conn=860265 op=2628 msgld=12895 - SRCH base="ou=people,dc =vzw,dc=com" scope=2 filter="(mdn=9316441 080)" attrs="ipv4 mdn min mmsnotif MMSServiceClass MMSSubscriberEnabl e uid" | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 32^{\perp}

MTAS API Installation (Primary Server - 30 minutes)

The MTAS API Installation is to be performed once per server starting with the primary LDAP server for the region being upgraded. Upon successful regression testing these steps will be repeated for the secondary LDAP server in the remote region.

1. Delete Previous MTAS API (WAR)

1. Prior to deleting the old MTAS API back up it's web.xml configuration file to your home directory. If back-out is necessary this file will be restored.

1. Enter the fully qualified domain name where <SERVER NAME> is in the path to change to below.

cd /opt/SUNWwbsvr/https-<SERVER NAME>/webapps/https-<SERVER NAME>/mtasapi/mtasapi/WEB-INF

2. Save web.xml

cp web.xml ~/web.xml.saved.1.5

where <SERVER NAME> is

Staging:

txmmscldap2 txmmscldap4

Production:

txslldcent1.vzwcs.com njbrldcent2.vzwcs.com njbrldeast1.vzwcs.com txslldeast2 carkldwest1.vzwcs.com TXSLLDWEST2

2. Login to Web Server Admin & select the Manage button. Use the following URL:

http://Server_IP:8888 substituting the IP address as appropriate:

Staging, Southlake, TX 10.194.13.242 txslmmscldap2.vzwcs.com (Primary Master) 10.194.13.247 txslmmscldap7.vzwcs.com (Secondary Master)

Central Region, Southlake, TX, Branchburg, NJ 10.194.211.34 txslldcent1.vzwcs.com (Primary Master) 10.194.104.39 njbrldcent2.vzwcs.com (Secondary Master)

East Region, Branchburg, NJ, Southlake, TX 10.194.104.34 njbrldeast1.vzwcs.com (Primary Master) 10.194.211.39 txslldeast2.vzwcs.com (Secondary Master)

West Region, Rocklin, CA, Southlake, TX 10.215.156.98 carkldwest1.vzwcs.com (Primary Master) 10.194.211.42 txslldwest2.vzwcs.com (Secondary Master)

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 33^{\perp}

3. Select Manage.

| 🕲 Web Server 6.1 Administration Server - Mozilla Firefox | |
|---|----------|
| Elle Edit View History Bookmarks Tools Help | 0 |
| 👍 🕶 🛶 😴 🚱 🏠 🕑 📗 🗋 http://wdab1md:8888/https-admserv/bin/index 🔹 🕨 💽 🕻 Google | 9 |
| Sun ONE Web Server 6.1 Administration Server | ome n |
| Servers VPreferences Global Settings VUsers and Groups Security Cluster Mgmt | |
| Manage Servers Manage Servers Add Server Select a Server: wclab1md.nss.vzwnet.com v Manage Remove Server Settings Migrate Server Hostname: wclab1md.nss.vzwnet.com DNS: off User: webservd | |
| Done | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 34^{\perp}

4. Select Virtual Server class tab.

| Server Manager - Mozilla Firefox | |
|--|------------------------|
| Elle Edit View History Bookmarks Tools Help | $\langle \phi \rangle$ |
| 👍 🔹 🛶 👻 📀 👔 🕑 📗 🗋 http://wdab1md:8888/https-wdab1md.nss.vzwnet.com 💌 🕨 💽 🕻 Google | 9 |
| Administration Server > wclab1md.nss.vzwnet.com Manage Sun~ONE Web Server 6.1 Server Manager | r Apply |
| Preferences Security Logs Monitor Virtual Server Class Java | |
| On / Off Server On / Off | |
| Performance Tuning Magnus Editor | |
| Add Listen Socket Server On Server Off | |
| Edit Listen Sockets | |
| MIME Types | J |
| Restrict Access | |
| Restore | |
| Done | 1.4 |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 35^{\perp}

5. Select Server in the "Tree View of the Server".

| 🥹 Server Manager - Mozilla Firefox 📃 🔳 | |
|---|-------------------|
| <u>E</u> lle <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp | $\langle \rangle$ |
| < | 9 |
| Administration Server > wclab1md.nss.vzwnet.com ♥ Manage Sun∾ONE Web Server 6.1 Server Manager | Y |
| Preferences Security Logs Monitor Virtual Server Class Java | _ |
| Manage Classes Manage a Class of Virtual Servers | |
| Add Class Select a Class: vsclass1 Manage | |
| Edit Classes | |
| | |
| Tree View of the Server | |
| vsclass1 https-wclab1md.nss.vzwnet.com Homepage on | |
| Help | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 36^{\perp}
6. Select the Web Applications tab then select Edit Web Application.

| 🥹 Virtual Server Manager - Mozilla Firefox |
|--|
| Ele Edit <u>V</u> iew Higtory Bookmarks Iools <u>H</u> elp |
| 🐗 🔹 🕐 😻 🚱 🏠 🕑 📗 🗈 http://wclab1md:8888/https-wclab1md.nss.vzwnet.com/class-vsclass1/vs-https-v 💌 🕨 💽 🕻 Google |
| Administration Server > wclab1md.nss.vzwnet.com > https-wclab1md.nss.vzwnet.com V Manage vsclass1 > Sun~ONE Web Server 6.1 Virtual Server Manager |
| Preferences Logs Web Applications WebDAV Search |
| Deploy Web Application Status |
| Edit Web Server Name:https-wclab1md.nss.vzwnet.com Applications Belongs To: vsclass1 Urthosts: wclab1md.nss.vzwnet.com State: on MIME File: mime.types ACL File: /opt/SUNWwbsvr/httpacl/generated.https-wclab1md.nss.vzwnet.com.acl Access Log: /opt/SUNWwbsvr/https-wclab1md.nss.vzwnet.com/logs/access Error Log: /opt/SUNWwbsvr/https-wclab1md.nss.vzwnet.com/logs/access Help Help |
| Done |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 37^{\perp}

7. Select Delete then OK, then OK again to confirm.

| 😻 Virtual Server Manager | - Mozilla Firefox | | 2 |
|---|--|--|------------------------------|
| <u>File Edit View History</u> | <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp | | 0 |
| | 1 🕑 📗 🗋 http://wclab 1md:8888 | 8/https-wdab1md.nss.vzwnet.com/dass-vsclass1/vs-https- | Gr Google |
| Sun Adminis | s <u>tration_Server</u> > <u>wclab1md.nss.vzv</u> s <u>1</u> > NE Web Server 6.1 Virtual Server Ma | wnet.com > https-wclab1md.nss.vzwnet.co anager | Manage Apply |
| Preferences Logs | Web Applications WebDAV | Search | |
| Deploy Web Application | Edit Web Applications fo | or https-wclab1md.nss.vzwnet.co | om |
| | Action URI | State | P |
| Edit Web Applications | Edit /mtas-api/mtasapi | Enabled /opt/SUNWwbsvr/https- | wclab1md.nss.vzwnet.com/web |
| | Colt Delete Disable OK | Reset | Help |
| Done | | | |
| The page at http Deleting W /opt/SUNW Are you su | vebApp will remove everything ur WebSvr/https-wclab1md.nss.vzw ure you want to delete ? | nder : vnet.com/webapps/https-wclab 1md.nss.v | /zwnet.com/mtas-api/mtasapi, |

ОК

Cancel

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 38^{\perp}

8. You should see the below when old MTAS API is deleted.

| 🙂 v | irtual S | erver | Manag | er - N | Nozilla | Firef | ox | | | _ | | | | | | 🛛 |
|-------------|-----------------|--------------|--|---------------------------------|---|----------------|---|------------------------------------|----------------|-------------------|-----------|---------|---------------------|--------|--------|-------|
| Eile | <u>E</u> dit ∖ | <u>/</u> iew | Hi <u>s</u> tory | Book | kmarks | Tools | Help | | | | | | | | | 0 |
| | • 🗼 | • 🥝 | | | B | | ht | tp://wdab1 | md:888 | 3/https-wo | dab 1md. | nss.vzv | • | G- | Google | 9 |
| \$, | <u>Sun</u> | | <u>Admir</u> wclab vscla Sun™ | nistra 0 1md 551 2 0NE | i <u>tion S</u> .nss.v > Web S | ierver zwne | <u>;</u> > <u>t.com</u> r 6.1 Vir | > <mark>https</mark> - tual Sen | wclab ver M | 1md.nss anager | vzwne | et.com | M | anage | | Apply |
| Æ | Prefere | nces | V Los | <u>45</u>) | Web | Appli | ication | <u>is \ Wel</u> | bDAV | √ <u>Sea</u> r | <u>ch</u> | | | | | |
| | Deplo Applic | y Wel | <u>b</u> 1 | | Edit | We | b App | olicatio | ns fo | or http | os-w | dab1 | m <mark>d.</mark> r | iss.vz | zwne | t.com |
| | 10000000 | | | | | 1 | Action | 1 | | UR | | | St | ate | | PATH |
| | Edit | Web | - | | This | virt | ual se | erver do | oes r | ot ha | ve ar | ny We | b Ap | plicat | ions | |
| 1 | Applic | auon | 2 | | | | | | | | | | | | | |
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| Done | | | | | | | | | | | | | | | | 1.4 |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 39^{\perp}

9. Select Apply from the upper Right then select Apply Changes. Select OK on the Success popup window.

| 🥹 Virtual Server Manager - Mozilla Firefox | 8 |
|--|------------|
| Eile Edit View History Bookmarks Tools Help | \Diamond |
| • C<td>Q)</td> | Q) |
| Administration Server > wclab1md.nss.vzwnet.com > https-wclab1md.nss.vzwnet.com (Manage) vsclass1 > Sun™ONE Web Server 6.1 Virtual Server Manager | Apply |
| Preferences Logs Web Applications WebDAV Search | |
| Deploy Web Application Apply Changes | |
| Edit Web Use this button to apply and stop and start the server Apply Changes | ver. |
| Use this button to dynamically apply your changes (wi stopping and starting the server) Load Configuration Files | thout |
| | |
| Done | 1.4 |

| The pa | ge at http://wclab1md:8888 says: | X |
|--------|--|---|
| ? | Success! Your changes have been applied. Return to previous page? OK Cancel | |

 ${\tt MMSC-LDAP \ Subscriber \ Directory \ R2 \ Deployment \ MoP \ v1.8}$

| Page | 40⊥ |
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2. MTAS API (WAR) File Deployment (mtas-api_2.0.2.war)

| 🕹 Virtual Server Manager - | Mozilla Firefox | | _ 🗆 🔀 |
|---|---|---|------------|
| <u>File E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> oo | okmarks <u>T</u> ools <u>H</u> elp | | 4.4 4.4 |
| | 🚹 🕑 📕 📄 http://localhost:432 | 1/https-m1md.lwsapps.com/dass-vsck 💌 🕨 🔲 | 9 |
| Administr m1md.lws Sun ^w ONE | <u>ation Server</u> > sapps.com > <u>vsclass1</u> > Web Server 6.1 Virtual Server N | https-m1md.lwsapps.com 💌 Manage | Apply |
| Preferences Logs | Web Applications WebDA | V Search | |
| Deploy Web Application | Deploy Web Application | 1 | |
| Edit Web | WAR File On: | Server Machine 💌 Go | |
| Applications | WAR File Path: | | Browse |
| | Application URI: | | |
| | Installation Directory: | /opt/SUNWwbsvr/https-m1md.lwsapps.com/webap | ps/ |
| | ОК | Reset |] |
| < | 1 | ្រាល | > |
| Done | | | 1.2 |

- 1. Select Deploy Web Applications in the left panel.
- 2. Select the location of the WAR file to install (server machine).
- 3. Give the path to the WAR file (mtas-api_2.0.2.war)
- 4. Enter the Application URI /mtas-api/mtasapi.
- 5. The Installation Directory should already be filled in and is acceptable as is. The installation directory should be similar to:

/opt/SUNWwbsvr/https-<SERVER NAME>/webapps/https-<SERVER NAME>

where <SERVER NAME> is

Staging:

txmmscldap2 txmmscldap4

Production:

txslldcent1.vzwcs.com njbrldcent2.vzwcs.com njbrldeast1.vzwcs.com txslldeast2

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 41^{\perp}

carkIdwest1.vzwcs.com TXSLLDWEST2

- 6. Select ok and give the WAR file several minutes to load.
- 7. You will receive a success message upon completion.
- 8. Do not close this window as you will return to it in a couple of steps to apply these changes and restart the server.

| 🥹 Virtual Server Manager - | - Mozilla Firefox | | |
|---|---|---|--------|
| <u>Eile E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> o | ookmarks <u>T</u> ools <u>H</u> elp | | 0 |
| • • | 1 🕑 🚺 🗋 http://localhost:432 | 1/https-m1md.lwsapps.com/dass-vsck 💌 🕨 🔽 Google | Q) |
| Sun Administ | r <u>ation Server</u> > <u>/sapps.com</u> > <u>vsclass1</u> > E Web Server 6.1 Virtual Server N | https-m1md.lwsapps.com 💌 Manage Nanager | Apply |
| Preferences Logs | Web Applications | <u>v</u> <u>Search</u> | |
| Deploy Web Application | Deploy Web Application | 1 | |
| Edit Web | WAR File On: | Server Machine 💌 Go | |
| Applications | WAR File Path: | /export/home/operator/mtas-api_2.0.war | Browse |
| | Application URI: | /mtas-api/mtasapi |] |
| | Installation Directory: | /opt/SUNWwbsvr/https-m1md.lwsapps.com/webapps/ | |
| | | | |
| | OK | Reset Help | |
| | | | |
| | د | - III | > |
| Done | | | 1.3 |

9. Verify/Edit the MTAS API configuration file (web.xml)

This configuration file contains the information needed by the MTAS API to find and connect to the LDAP database. For Idap the proxy server's port is to be used and for the schema the Idap port is to be use.

1. Enter the fully qualified domain name where <SERVER NAME> is in the path to change to below.

cd /opt/SUNWwbsvr/https-m1md.lwsapps.com/webapps/https-<SERVER NAME>/mtas-api/mtasapi/WEB-INF

2. Using vi, edit web.xml making the following verifications/changes. Use the appropriate associated ldap.usr.pswd where "password goes here". Also change the ldap.svr.url and ldap.schema.host and ldap.schema.port as seen below.

<?xml version="1.0" encoding="UTF-8"?>

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 42^{\perp}

```
<!DOCTYPE web-app PUBLIC "-//Sun Microsystems, Inc.//DTD Web Application
2.3//EN"
    "http://java.sun.com/dtd/web-app_2_3.dtd">
<web-app>
    <context-param>
        <param-name>ldap.svr.url</param-name>
        <param-value>ldap://localhost:389/dc=vzw,dc=com</param-value>
    </context-param>
    <context-param>
        <param-name>ldap.usr</param-name>
        <param-value>cn uid=mtas,ou=application,dc=vzw,dc=com</param-</pre>
value>
    </context-param>
    <context-param>
        <param-name>ldap.usr.pswd</param-name>
        <param-value>password goes here</param-value>
    </context-param>
    <context-param>
        <param-name>Idap.schema.host</param-name>
        <param-value>localhost</param-value>
    </context-param>
    <context-param>
        <param-name>Idap.schema.port</param-name>
         <param-value>3890</param-value>
    </context-param>
    <context-param>
        <param-name>ldap.schema.base</param-name>
        <param-value>cn=schema</param-value>
    </context-param>
    <context-param>
        <param-name>logging.xmlDebug</param-name>
        <param-value>true</param-value>
    </context-param>
    <context-param>
        <param-name>logging.transaction</param-name>
        <param-value>true</param-value>
    </context-param>
    <listener>
        </listener>
    <servlet>
        <servlet-name>MTASAPIServlet</servlet-name>
        <servlet-class>mtas.web.MTASAPIServlet</servlet-class>
    </servlet>
    <servlet>
        <servlet-name>VersionServlet</servlet-name>
        <jsp-file>/version.jsp</jsp-file>
    </servlet>
    <servlet-mapping>
        <servlet-name>MTASAPIServlet</servlet-name>
        <url-pattern>/mtasapi</url-pattern>
    </servlet-mapping>
    <servlet-mapping>
        <servlet-name>VersionServlet</servlet-name>
        <url-pattern>/version</url-pattern>
    </servlet-mapping>
    <error-page>
        <exception-type>mtas.web.MTASAPISchemaException</exception-
type>
```

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 43^{\perp}

<location>/schemaException.jsp</location> </error-page> </web-app>

10. Change permissions on MTAS API directory as follows:

chown -R webservd:webservd /opt/SUNWwbsvr/https-m1md.lwsapps.com/webapps/<MTAS API Directory>

11. Before Applying the changes and subsequently stopping and starting the web server tail the web server error files to verify the new MTAS API loads the mmsobject object lass attributes.

cd /opt/SUNWwbsvr/https-<server name>/logs
tail -f errors

12. Select Apply from the upper left then select Apply Changes. Select OK on the Success popup window.

| 🥹 Virtual Server Manager - Mozilla Firefo | ¢. | _ 🗆 🔀 |
|---|---|--------|
| <u>File E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools | Help | 0 |
| | http://wdab1md:8888/https-wdab1md.nss.vzv 🔹 🕨 🕼 Google | 9 |
| ♦ Sun vclab1md.nss.vzwnet vsclass1 > Sun™ONE Web Server | > <u>com</u> > https-wclab1md.nss.vzwnet.com 💌 Manage 5.1 Virtual Server Manager | Apply |
| Preferences \ Logs \ Web Applic | ations WebDAV Search | |
| Deploy Web Application Apply Ch | anges | |
| Edit Web Applications | nis button to apply and stop and start the serv Apply Changes | ver. |
| Use this | button to dynamically apply your changes (wi stopping and starting the server) Load Configuration Files | ithout |
| | | |
| Done | | 1 |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

| Page | 44⊥ |
|------|-----|
| | |



13. The resulting error log file should contain the mmsobect attributes as follows:

[04/Oct/2007:21:28:23] info (3797): WEB2798: [/mtas-api/mtasapi] ServletContext.log(): Schema elements (18): nparef : String mmswhitelistenabled : Integer npamdnref : Integer mmsnotif : String mmsipv4addr : Integer mmsblacklistelement : String ContentAccessLevel : Integer mmsblacklistenabled : Integer npastartdate : String newnpa : Integer MMSSubscriberEnable : Integer moCopy : Integer mmspermstorageadd : String npaexpirationdate : String mtCopyOrDivert : Integer moCopyAddress : String mmswhitelistelement : String mtCopyDivert : Integer

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 45^{\perp}

3. Java Virtual Machine (JVM) Tuning

1. Select the server link following "Administration Server >" at the from top navigation menu.

| 🙂 Virtual Server Manager | - Mozilla Firefox | | _ 🗆 🔀 |
|----------------------------------|---|--|------------|
| <u>Eile Edit View History E</u> | ookmarks <u>T</u> ools <u>H</u> elp | | \bigcirc |
| • 🔶 • 💽 📀 • | 1 🕑 📗 🗋 http://localhost:432 | 1/https-m1md.lwsapps.com/class-vsclass1/vs- 💌 🕨 🗔 🖌 Google | Q) |
| Sun Adminis vsclass Sun ON | tration Server > m1md.lwsapps.co 1 > VE Web Server 6.1 Virtual Server N | om > https-m1md.lwsapps.com ♥ Manage | Apply |
| Preferences Logs | VWeb Applications VWebDA | / Search | |
| Deploy Web Application | Deploy Web Application | 1 | |
| Edit Web | WAR File On: | Local Machine 🖌 Go | |
| Applications | WAR File Path: | B | rowse |
| | Application URI: | | |
| | Installation Directory: | /opt/SUNWwbsvr/https-m1md.lwsapps.com/webapps/ | |
| | ОК | Reset | |
| Done | /t | | 1.1 |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 46^{\perp}

2. Select Java tab to begin tuning the JVM.

| 🙂 Server Manager - Moz | zilla | Firefox | | | × | | | | |
|---|-------|------------------------------------|-----------------------------------|-------------|-----|--|--|--|--|
| <u>File E</u> dit <u>V</u> iew Hi <u>s</u> tory | Boo | okmarks <u>T</u> ools <u>H</u> elp | | | ¢ | | | | |
| • • | 6 | http://mimd.lwsapps.com | n:8888/https-m1md.lwsapps.com/t 💌 | Google | Q.) | | | | |
| Administration Server > m1md.lwsapps.com Manage Class Manager Apply Sun~ONE Web Server 6.1 Server Manager Apply | | | | | | | | | |
| Preferences Sec | curi | ity V Logs V Monitor V Virtual Ser | ver Class Java | | | | | | |
| Enable/Disable Servlets/JSP | ^ | Enable/Disable Java | | | | | | | |
| JVM General | | 🗹 Enable Java Globally | | | | | | | |
| 1V/M Dath | | Virtual Server Class | Enable/Dis | able Java | | | | | |
| Settings | - | vsclass1 | Enable Java for cla | ss vsclass1 | | | | | |
| JVM Options | | | | | | | | | |
| JVM Profiler | | OK | Reset | Неір | | | | | |
| JDBC Connection Pools | | | | | | | | | |
| <u>JDBC</u> <u>Resources</u> | | | | | | | | | |
| Custom Resources | * | | | | | | | | |
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| Done | | | | | 1.4 | | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 47^{\perp}

- 2. Set JVM Options according to the following .
 - 1. Enter -Dcom.sun.jndi.ldap.connect.pool.maxsize=50 in the top field and make sure ADD is selected in the left side.
 - 2. Select OK.
 - Modify or verify -Xms256m. If modification is necessary you must first delete the existing entry by selecting delete in the drop down box then select OK. Once the old entry is deleted select add and enter -Xms256m.
 - 4. Select OK and verify against picture below.

Finally, the parameters should look as follows:

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| Sun. Sur | <u>ministr</u> n‴ONE | ation Server > Web Server 6.1 | m1md.lwsapps.com 💟 Manage Cla Server Manager | ass Manager Apply | | |
| Preferences S | Securi | ty V Logs V Ma | mitor Virtual Server Class Java | | | |
| Exchis (Dischis | <u>^</u> | Warner and the | | <u>^</u> | | |
| Servlets/JSP | | JVM Option | 15 | | | |
| | | | | 1 | | |
| JVM General | | Operation | JVM Option | | | |
| JVM Path | 10 | Add 🔛 | | | | |
| Settings | = | Edit 💌 | -Djava.security.auth.login.config=/opt/SUNW | | | |
| JVM Options | | Edit 💌 | -Djava.util.logging.manager=com.iplanet.ias | | | |
| 1VM Brofilor | | Edit 💌 | -XX:NewSize=64m | | | |
| <u>JVM PIONEL</u> | | Edit 💌 | -XX:PermSize=32m | | | |
| JDBC Connection | | Edit 💌 | -Xmx2048m | | | |
| Pools | | Edit 💌 | -Xms1024m | | | |
| JDBC | | Edit V | -Dcom sun indi Idap connect pool maxsize=5 | | | |
| Resources | | | | | | |
| Custom | | OK | Reset | Help | | |
| Recources | × | L. State | | | | |
| Loone . | | | | 1.2 | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 48^{\perp}

4. Web Server Performance Tuning

1. Verify/Tune Magnus,conf

Select the manage button next to the server in the top menu.



MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 49[⊥]

2. Select Magnus Editor then performance settings, then select Manage.





3. Verify and/or tune Magnus.conf Performance Settings. Set the following parameters as necessary.

PostThreadsEarly -On

Accept Timeout 30

RqThrottleMin50

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 50^{\perp}

RqThrottle 256

| Click ok at bottom of screen when complete. | | | | | | | |
|--|---|------------------------------|---------------------------------|--|--|--|--|
| Ele Edit View Higtory Bookmarks Tools Help | | | | | | | |
| - 🔶 - 🕑 😣 👔 | http://m1md.lwsapps.com | :8888/https-m1md.lwsapps.com | /bin/inde 💌 🕨 🔽 Google | | | | |
| Administration Server > m1md.lwsapps.com Manage Sun~ONE Web Server 6.1 Server Manager Class Manager | | | | | | | |
| Preferences Secur | ity V Logs V Monitor V Virtual Ser | ver Class | | | | | |
| <u>On / Off</u> | Name | Value | | | | | |
| Performance | StackSize | 131072 | Maximum stack size (bytes) f | | | | |
| Tuning | User | webservd | User the server runs as | | | | |
| Magnus Editor | PostThreadsEarly | On 💌 | Early creation of threads in ar | | | | |
| Add Listen | AcceptTimeout | 30 | Wait time (seconds) for reque | | | | |
| Socket | ListenQ | | Maximum listen socket connec | | | | |
| Edit Listen | NativePoolStackSize | | Stack size (bytes) of a thread | | | | |
| Sockets | ThreadIncrement | | Number of request processing | | | | |
| MIME Types | ChunkedRequestBufferSize | | Buffer size (bytes) for unchun | | | | |
| Restrict | NativePoolMinThreads | | Minimum number of threads ir | | | | |
| Access | RcvBufSize | | Size (bytes) of socket receive | | | | |
| Restore Configuration | RqThrottleMin | 50 | Number of request processing | | | | |
| | HeaderBufferSize | | Buffer size (bytes) used for re | | | | |
| Enable/Disable WebDAV | TerminateTimeout | | Time (seconds) to wait for rec | | | | |
| File Cache | RqThrottle | 256 | Maximum number of simultane | | | | |
| Configuration | ChunkedRequestTimeout | | Timeout (seconds) for unchun | | | | |
| Thread Pools | Thread Pools Size (bytes) of socket send bu | | | | | | |
| | MaxRqHeaders Maximum number of headers | | | | | | |
| | ConnQueueSize | | Maximum number of pending I | | | | |
| MaxProcs Number of server processes | | | | | | | |
| Find: | | | > | | | | |
| Done | Done | | | | | | |
| | | | | | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 51^{\perp}

4. Verify/Tune Listening Sockets by selecting "Editing Listen Sockets".

| <u>File E</u> dit <u>V</u> iew Hi <u>s</u> tory | Bookmarks Tools Help | ं |
|---|---|----------|
| - 🔶 - 🎯 😣 | 👔 🕑 📗 http://mimd.lwsapps.com:8888/nttps-mimd.lwsapps.com/bin/ndex 🔹 🕨 💽 • Google | Q |
| ♦ Sun. Sun~O | istration Server > m1md.lwsapps.com Manage ONE Web Server 6.1 Server Manager Ag | ylqc |
| Preferences Sect | curity Logs Monitor Virtual Server Class Java | |
| <u>On / Off</u> | Edit Listen Sockets | |
| Performance Tuning | New | |
| Magnus Editor | Delete Listen Socket ID IP Address Port Security Default Virtual Server | ID |
| Add Listen Socket | Is1 any 80 Disabled https-m1md.lwsapps.cc | <u>m</u> |
| Edit Listen Sockets | OK Reset Help | |
| MIME Types | | |
| Restrict Access | | |
| Restore Configuration | | |
| Enable/Disable WebDAV | | |
| File Cache Configuration | | |
| Thread Pools | | |
| 🖾 Find: | 🐺 Next 🏠 Previous 📄 Highlight all | |
| Done | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 52 $^{\perp}$

5. Select "Is1"

| Ele Edit View History Bookmarks Iools Help | ं | | | | | |
|---|----|--|--|--|--|--|
| 👍 🕶 🛶 😴 🛞 🏠 🛞 📗 🕒 http://m1md.lwsapps.com:8888/https-m1md.lwsapps.com/bin/index 🔹 🕨 💽 🕻 Google | Q) | | | | | |
| Administration Server > m1md.lwsapps.com Manage Sun**ONE Web Server 6.1 Server Manager | | | | | | |
| Preferences Security Logs Monitor Virtual Server Class Java | | | | | | |
| On / Off Edit Listen Socket | | | | | | |
| Performance Tuning General | | | | | | |
| Magnus Editor Listen Socket ID: 1s1 | | | | | | |
| Add Listen IP Address: any Socket Port: 80 | | | | | | |
| Edit Listen Server Name: m1md.lwsapps.com Sockets Default Virtual Server ID: https-m1md.lwsapps.com | | | | | | |
| MIME Types Security | — | | | | | |
| Restore | | | | | | |
| Configuration Enable/Disable | — | | | | | |
| WebDAV Number of Acceptor Threads: 1 | | | | | | |
| File Cache Protocol Family: Configuration Protocol Family: | | | | | | |
| Thread Pools OK Reset Help | | | | | | |
| Find: Image: A set in the previous in thighlight all Done | | | | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 53^{\perp}

6. Then verify/tune the listening socket by setting the threads to 100 as seen below.

| | | _ <u></u> |
|-------------------------------|--|-----------|
| <u>File Edit View History</u> | Bookmarks Tools Help | 1 |
| 🦛 • 🗼 • 💽 🛞 . | 🚹 🕑 📗 http://m1md.lwsapps.com:8888/https-m1md.lwsapps.com/bin/index 🔹 🕨 💽 🗸 Google | Q |
| | | |
| Adminis | istration Server > m1md.lwsapps.com 🕑 Manage | Δnnlv |
| Sun™O | DNE Web Server 6.1 Server Manager | (ppi) |
| Droforoncos Cos | units V Loos V Monitor Vietual Convor Class V Jaua | |
| Preferences (Sect | | |
| <u>On / Off</u> | Edit Listen Socket | |
| Performance | | |
| Tuning | General | |
| Magnus Editor | Listen Socket ID: 1s1 | |
| Add Liston | IP Address: | |
| Socket | Porty 80 | |
| | Sorver Name | |
| Sockets | | |
| | | |
| MIME Types | | |
| Restrict | Security | |
| Access | | |
| Restore | | |
| <u>Configuration</u> | • dumment | |
| Enable/Disable | Advanced | |
| WebDAV | Number of Acceptor Threads: 100 | |
| File Cache | Protocol Family | |
| Configuration | | |
| Thread Pools | OK Reset Help | |
| | | |
| 🔀 Find: | 😽 Next 🏠 Previous 🖂 Highlight <u>a</u> ll | |
| Done | | |
| 5 | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 54 $^{\perp}$

7. Finally; restart the server by selecting apply in upper right hand corner then apply changes as seen below.

| <u>File E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>E</u> | Gookmarks Tools Help |
|--|--|
| 🗣 • 📦 • 💽 🛞 • | 🚯 🕗 📗 🕒 http://m1md.lwsapps.com:8888/https-m1md.lwsapps.com/bin/index 🔹 🕨 💽 - Google 🔍 |
| Sun ²⁰ | tration Server > m1md.lwsapps.com Manage NE Web Server 6.1 Server Manager Apply |
| Preferences Secu | rity Logs Monitor Virtual Server Class V Java |
| <u>On / Off</u> | Apply Changes |
| Performance Tuning Magnus Editor | Use this button to apply and stop and start the server. Apply Changes |
| Add Listen Socket Edit Listen | Use this button to dynamically apply your changes (without stopping and starting the server) |
| Sockets MIME Types | |
| Restrict Access | |
| Restore Configuration | |
| Enable/Disable WebDAV | |
| <u>File Cache</u> <u>Configuration</u> | |
| Find: | 👼 Nevt 🐵 Previous 🖂 Hidolicht all |
| Done | |





MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 55^{\perp}

R2 Regression Testing (Primary Server - 1 hour)

 Determine test MDN and if different from 9253245010 replace all occurrences of this MDN with your test MDN in the procedure below. If the test MDN is different record that test MDN in the next line:

Master 1 (m1) Test MDN:

2. Delete Test MDN if it already exists.

| Step# | Procedure | Expected Results | Actual Results | Pass/ Fail | Verification Data |
|-------|--|--|----------------|---------------|-------------------|
| 1 | Delete: Using the test.jsp script found in the mtas api directory delete the test mdn using the following xml as input to test.jsp script. URL: http:// <server_ip>/mt as- api/mtasapi/tester.js p <verizon><reqid>1 189552203661qId><source/>MTAS Load Test<trnt ype>D< MDN>9253245010</trnt </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118955 2203661</reqid>erizon></returnco </verizon> | | | |
| 2 | Query: Using test.jsp (http:// <server_ip>/m tas- api/mtasapi/tester.js p) enter the following xml and select send request. <verizon><reqid>1 189548874760qId><source/>MTAS Test Script<trn Type>V< MDN>9253245010</trn </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>- 2<ret urnMessage>Subscri ber does not exist.e><reqid>11895488 74760</reqid>zon></ret </returnco </verizon> | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 56^{\perp}

3. Add & Query Test MDN

| Step# | Procedure | Expected Results | Actual Results | Pass/ Fail | Verification Data Location |
|-------|--|---|----------------|---------------|-------------------------------|
| 1 | Add: Using the test.jsp script found in the mtas api directory add the test mdn using the following xml as input to test.jsp script. URL: http:// <server_ip>/mt as- api/mtasapi/tester.js p <verizon><reqid>1 189552268243qId><source/>MTAS Test Script<trn Type>A< MIN>9253245010<!--<br-->MIN><mdn>925324 5010</mdn><class OfService>1</class OfService><td>From tester.jsp <?xml version="1.0" encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118955 2268243</reqid>erizon></returnco </verizon></td><td></td><td></td><td></td></trn </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118955 2268243</reqid>erizon></returnco </verizon> | | | |
| 2 | Query: Using test.jsp (http:// <server_ip>/m tas- api/mtasapi/tester.js p) enter the following xml and select send request. <verizon><reqid>1 189548874760qId><source/>MTAS Test Script<trn Type>V< MDN>9253245010< /MDN></trn </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118954 8874760</reqid><mi N>9253245010><mdn>9253245010 </mdn><classofservi ce><mocopy>0Copy><mtcopyordiv ert><mtcopyordiv ert><mtcopydivert>0 </mtcopydivert><co ntentAccessLevel>99 el></co </mtcopyordiv </mtcopyordiv </mocopy></classofservi </mi </returnco </verizon> | | | |

 ${\tt MMSC-LDAP \ Subscriber \ Directory \ R2 \ Deployment \ MoP \ v1.8}$

Page 57 $^{\perp}$

4. Perform Handset Test

Perform handset test using Master 1 (m1) Test MDN.

Record Master 1 (m1) Test MDN:

| Step# | Procedure | Expected Results | Actual Results | Pass/ | Verification Data |
|-------|--|---|----------------|-------|-------------------|
| | T | , | | Fail | Location |
| 1 | Tail LDAP server access log for test MDN using the command below replacing <servername> with appropriate server name and <test MDN> with the test MDN.</test </servername> | n/a | n/a | n/a | n/a |
| | tail -f /var/mps/serverroot/ slapd- <servername>/logs/ access grep <m1 test MDN></m1 </servername> | | | | |
| 2 | Using m1 test MDN send an MMS from one mobile to another. Verify that it is received in the destination mobile. | Destination mobile receives test MMS. | | | |
| 3 | Verify tailed access log shows query for test MDN | Similar to the following with time and test MDN being different: [02/Oct/2007:16:37:5 9 +0000] conn=860265 op=2628 msgld=12895 - SRCH base="ou=people,dc =vzw,dc=com" scope=2 filter="(mdn=9316441 080)" attrs="ipv4 mdn min mmsnotif MMSServiceClass MMSSubscriberEnabl e uid" | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 58 $^{\perp}$

5. Modify & Query Test MDN

| Step# | Procedure | Expected Results | Actual Results | Pass/ Fail | Verification Data Location |
|-------|--|---|----------------|---------------|-------------------------------|
| 1 | Modify: Using the test.jsp script found in the mtas api directory modify the test mdn using the following xml as input to test.jsp script. URL: http:// <server_ip>/mt as- api/mtasapi/tester.js p <verizon><reqid>1 189552148975qId><source/>MTAS Load Test<trnt ype>C< MIN>9253245010<!--<br-->MIN>9253245010<!--<br-->MIN>9253245010<!--<br-->MIN><class OfService>PPMMS /ClassOfService>cc ontentAccessLevel> 40evel><mocopy>1<!--<br-->moCopy><mtcopyo rDivert>1</mtcopyo rDivert>1Divert></mocopy></class </trnt </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118955 2148975</reqid>erizon></returnco </verizon> | | | |
| 2 | Query: Using test.jsp (http:// <server_ip>/m tas- api/mtasapi/tester.js p) enter the following xml and select send request. <verizon><reqid>1 189548874760qId><source/>MTAS Test Script<trn Type>V< MDN>9253245010< /MDN></trn </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118954 8874760</reqid><mi N>9253245010><mdn>9253245010 </mdn><classofser vice>PPMMSOfService><mocopy >1<mtco pyOrDivert>1</mtco pyOrDivert><mocopy Address>person@so</mocopy </mocopy </classofser </mi </returnco </verizon> | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 59^{\perp}

| | mewhere.comopyAddress> <mtcop yDivert>1vert><contentaccess Level>40cessLevel>></contentaccess </mtcop | | |
|--|---|--|--|
| | | | |

6. Perform Handset Test

Perform handset test using Master 1 (m1) Test MDN.

Record Master 1 (m1) Test MDN:

| Step# | Procedure | Expected Results | Actual Results | Pass/ | Verification Data |
|-------|---|-----------------------|----------------|-------|-------------------|
| | | | | Fail | Location |
| 1 | Tail LDAP server | n/a | n/a | n/a | n/a |
| | access log for test | | | | |
| | MDN using the | | | | |
| | command below | | | | |
| | replacing | | | | |
| | <servername> with</servername> | | | | |
| | appropriate server | | | | |
| | name and <test< td=""><td></td><td></td><td></td><td></td></test<> | | | | |
| | | | | | |
| | IVIDIN. | | | | |
| | tail –f | | | | |
| | /var/mns/serverroot/ | | | | |
| | sland- | | | | |
| | <servername>/logs/</servername> | | | | |
| | access grep <test< td=""><td></td><td></td><td></td><td></td></test<> | | | | |
| | MDN> | | | | |
| 2 | Using master 1 test | Destination mobile | | | |
| | MDN send an MMS | receives test MMS. | | | |
| | from one mobile to | | | | |
| | another. Verify that it | | | | |
| | is received in the | | | | |
| | destination mobile. | | | - | |
| 3 | Verify tailed access | Similar to the | | | |
| | log shows query for | following with time | | | |
| | test MDN | and test MDN being | | | |
| | | different: | | | |
| | | [02/Oct/2007.16.27.5 | | | |
| | | 0.00001 | | | |
| | | 9 +0000 | | | |
| | | conn=2628 | | | |
| | | msald=12895 - | | | |
| | | SRCH | | | |
| | | base="ou=people do | | | |
| | | =vzw.dc=com" | | | |
| | | scope=2 | | | |
| | | filter="(mdn=9316441 | | | |
| | | 080)" attrs="ipv4 mdn | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 60^{\perp}

| min mmsnotif MMSServiceClass MMSSubscriberEnabl e uid" | | |
|---|--|--|
|---|--|--|

7. Delete & Query Test MDN

| Step# | Procedure | Expected Results | Actual Results | Pass/ | Verification Data |
|-------|---|--|----------------|-------|-------------------|
| | | | | Fail | Location |
| 1 | Delete: Using the test.jsp script found in the mtas api directory delete the test mdn using the following xml as input to test.jsp script. URL: http:// <server_ip>/mt as- api/mtasapi/tester.js p </server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118955 2203661</reqid>erizon></returnco </verizon> | | | |
| 2 | Query: Using test.jsp (http:// <server_ip>/m tas- api/mtasapi/tester.js p) enter the following xml and select send request. <verizon><reqid>1 189548874760qId><source/>MTAS Test Script<trn Type>V< MDN>9253245010< /MDN></trn </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>- 2<ret urnMessage>Subscri ber does not exist.e><reqld>11895488 74760</reqld>zon></ret </returnco </verizon> | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 61^{\perp}

8. Prepare for MTAS start

- Prior to starting MTAS, tail the transaction.log and directory server access.log in preparation to monitor the previously queued provisioning begin to provision the Idap server. Also snoop port 80 to watch incoming MTAS network traffic. Three ssh sessions will be needed for this step.
 - i. From the command line substituting the correct server name using the list provided where denoted:

where <SERVER NAME> is

Staging: txmmscldap2 txmmscldap4

Production: txslldcent1.vzwcs.com njbrldcent2.vzwcs.com njbrldeast1.vzwcs.com txslldeast2 carkldwest1.vzwcs.com TXSLLDWEST2

- ii. # cd /opt/SUNWwbsvr/https-<SERVER NAME>/webapps/https-<SERVER NAME> /mtas-api/mtasapi/WEB-INF/logs
- iii. # tail -f transaction.log
- iv. From a second ssh session command line substituting the correct server name where denoted.
- v. # cd /var/mps/serverroot/slapd-<servername>
- vi. # tail -f access.log | egrep 'ADD|MOD|DEL'
- vii. From a third ssh session command line substituting the correct server name where denoted.
- viii. # snoop port 80

Server Names:

Staging: txslmmscldap2 txslmmscldap7

Production: txslldcent1 njbrldcent2 njbrldeast1 txslldeast2 carkldwest1 TXSLLDWEST2

9. Start MTAS (Provisioning Outage Ends)

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 62[⊥]

Have appropriate Verizon Wireless personal start MTAS.

Have appropriate Verizon Wireless personal verify MTAS operating correctly.

10. Monitor logs and verify MTAS operability

1. Verify MTAS network traffic at port 80 using the snoop command output from the previous step.

| Step# | Expected Results | Actual Results | Pass/ Fail | Verification Data Location |
|-------|---|----------------|---------------|-------------------------------|
| 1 | Network traffic on port 80 coming from MTAS | | | |
| | | | | |

2. Transaction log

Prior to MTAS start there will be no transaction log activity. Upon start you will see logging of the transaction logs with both Request and Response values. If no transactions are occurring in the transaction log have Verizon Wireless MTAS personnel verify MTAS has been turned on and that there are transactions for the LDAP server. Use the following table to determine pass/fail of MTAS start.

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 63[⊥]

| Step# | Expected Results | Actual Results | Pass/ Fail | Verification Data Location |
|-------|--|----------------|---------------|-------------------------------|
| 1 | Similar logging as follows: 01 Oct 2007 13:38:31 - ReqId: 1189552203661 TransactionType: D Request values: MDN: 9253245010 MIN: null OldMDN: null OldMIN: null OldMIN: null COS: null Response values: MDN: null MIN: null COS: null COS: null COS: null COS: null COS: null COS: null COS: null COS: null COS: SUCCESS | | | |
| 2 | Verify that there are transaction logs with the following: Msg: SUCCESS | | | |

3. Access Log

The access.log will also see an increase in activity with MOD's, ADD's and DEL's. Note: Overall activity in the access log may appear to not have increased since MMSC activity was not interrupted during the upgrade.

| Step# | Expected Results | Actual Results | Pass/ Fail | Verification Data Location |
|-------|--|----------------|---------------|-------------------------------|
| 1 | Upon successful MTAS start you will see access logs with ADD, MOD and DEL [28/Sep/2007:19:10:0 1 -0500] conn=562095 op=17762 msgld=17763 - ADD dn="mdn=123000000 165494, ou=People,dc=vzw,d c=com" | | | |
| 1 | | | 1 | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 64^{\perp}

11. Proceed or Back-out decision

If above MTAS success criteria was not seen have VZW verify MTAS is started and pointing to master 1 for that region. Also verify that there are MTAS transactions for LDAP server.

If there is still no obvious MTAS activity apparent in the logs stop MTAS and perform rollback of R2 Back-out Procedure.

If MTAS success criteria met, proceed with MTAS API Installation (Secondary Server - 30 minutes)

NPA Split Regression Test (Primary Server - 30 minutes)

The additional five attributes added to the schema provide the means to verify the MTAS API 2.0 Generic Attribute functionality.

These tests will verify the correct operation of the Class of Service (CoS) definition and template as it applies to the NPA Split entries.

1. Load Permissive Period NPA Split Test Pair

Perform the following to add the Permissive Period NPA Split Test Pair

cd ~/r2.deployment # ldapmodify -d "cn=directory manager" -w secret -a -f ./npa.split.test.pair.ldif

npa.split.test.pair.ldif contents:

dn: mdn=111000000,ou=people,dc=vzw,dc=com changetype: add objectClass: top objectClass: person objectClass: organizationalPerson objectClass: vzwperson objectClass: inetorgperson objectClass: mmsobject objectClass: costemplate npaexpirationdate: 20070813 mdn: 111000000 uid: 111000000 min: 111000000 MMSServiceClass: 1 npamdnref: 222000000

dn: mdn=222000000,ou=people,dc=vzw,dc=com changetype: add objectClass: top objectClass: person objectClass: organizationalperson objectClass: vzwperson objectClass: inetorgperson objectClass: mmsobject mdn: 222000000 uid: 222000000 min: 111000000

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 65^{\perp}

2. Default Permissive Period NPA Split Pair Value Test

| Step # | Procedure | Expected Result | Pass / Fail | Actual Result | Verification Data Location |
|-----------|---|--|---|---------------|-------------------------------|
| 1 | Run an Idapsearch on both entries of the test pair as follows from the command line. Idapsearch -D "cn=directory manager" -w admin123 -b ou=people,dc=vzw,dc=co m mdn=111000000 Idapsearch -D "cn=directory manager" -w admin123 -b ou=people,dc=vzw,dc=co m mdn=222000000 | dn: mdn=111000000, ou=People,dc=vzw,dc=com objectClass: top objectClass: person objectClass: inetorgperson objectClass: inetorgperson objectClass: costemplate npaexpirationdalPerson objectClass: costemplate npaexpirationdate: 20070813 mdn: 111000000 uid: 111000000 min: 111000000 MMSServiceClass: 1 ContentAccessLevel: 99 moCopy: 0 mtCopyDivert: 0 mtCopyDivert: 0 mtCopyDivert: 0 dn: mdn=2220000000,ou=people,d c=vzw,dc=com objectClass: person objectClass: vayperson objectClass: inetorgperson objectClass: inetorgperson objectClass: inetorgperson objectClass: inetorgperson objectClass: netorgperson objectClass: 1 una=111000000 MMSServiceClass: 1 uid: 222000000 min: 111000000 MMSServiceClass: 1 uid: 222000000 min: 222000000 mdn: 222000000 mdn: 222000000 mdn: 222000000 mdn: 222000000 mdn: 222000000 mdcopyDivert: 0 mtCopyDivert: 0 mtCopyDivert: 0 | Pass if attributes are present with default values listed. | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 66^{\perp}

3. Modify New Default Attributes on New NPA Test

Note: some of the values used in this test are illegal values for normal operation; these values are only used as indicators for success or failure of the operations.

| Step # | Procedure | Expected Result | Pass / Fail | Actual Result | Verification Data Location |
|-----------|---|-----------------------------|-------------|---------------|-------------------------------|
| | Use the test servlet to change the following values to provision dn: mdn=222000000, ou=People,dc=vzw,dc=co m with the following. • ContentAccess Level: 20 • moCopy1 • mtCopyDivert: 1 • mtCopyOrDivert t:: 1 • mtCopyOrDivert t:: 1 • moCopyAddres s: anyone@some where.com Modify: Using the test.jsp script found in the mtas api directory modify the test mdn using the following xml as input to test.jsp script. URL: http:// <server_ip>/mtas- api/mtasapi/tester.jsp <reqid>11895 52148975</reqid><sour ce>MTAS Load Test<tmtype> C</tmtype><min>222 000000</min><class OfService>1vice><contentaccesslev el>20 //moCopyAddress> anyone@somewhere.co m <mtc opyDivert>11<th>Success return form MTASAPI</th><th>Success</th><th></th><th>Data Location</th></mtc </contentaccesslev </class </sour </server_ip> | Success return form MTASAPI | Success | | Data Location |
| | | | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 67^{\perp}

| | pair as follows from the command line. Idapsearch -D "cn=directory manager" - w admin123 -b ou=people,dc=vzw,dc=co m mdn=111000000 Idapsearch -D "cn=directory manager" - w admin123 -b ou=people,dc=vzw,dc=co m mdn=222000000 | objectClass: top objectClass: person objectClass: inetorgperson objectClass: vzwperson objectClass: organizationalPerson objectClass: organizationdate: 20070813 mdn: 111000000 inamdnref: 222000000 min: 111000000 mmt 111000000 MMSServiceClass: 1 ContentAccessLevel: 20 moCopy: 1 mtCopyDivert: 1 mtCopyOrDivert: 1 mtCopyOrDivert: 1 mtCopyAddress: anyone @ somewhere.com objectClass: top objectClass: person objectClass: person objectClass: netorgperson objectClass: netorgperson objectClass: netorgperson objectClass: netorgperson objectClass: 1 mpam. dn: mtam=111000000 min: 111000000 min: 111000000 min: 222000000 mdn: 222000000 mdn: 222000000 mdn: 222000000 mdn: 222000000 mdn: 222000000 contentAccessLevel: 20 moCopy: 1 mtCopyOrDivert: 1 mtCopyOrDivert: 1 mtCopyOrDivert: 1 mtCopyOrDivert: 1 mtCopyOrDivert: 1 mtCopyOrDivert: 1 mtCopyOrDivert: 1 mtCopyAddress: anyone @ somewhere.com | matches expected. | | |
|--|---|--|----------------------|--|--|
|--|---|--|----------------------|--|--|

4. New Attribute Reset (Delete) Test

| Step # | Procedure | Expected Result | Pass / Fail | Actual Result | Verification Data Location |
|-----------|---|--------------------|-------------|---------------|-------------------------------|
| 1 | Using Idapmodify delete the following attributes from mdn=111000000, ou=People,dc=vzw,dc=co m and repeat for mdn=2220000000 ContentAccessL evel moCopy mtCopyDivert mtCopyOrDivert mcCopyAddress | Idapmodify success | Success | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 68^{\perp}

| | Idapmodify -D"cn=directory manager" -w <secret>dn:mdn=111000000,ou=people,dc=vzw,dc=comchangetype: modifydelete:ContentAccessLevelmdn=111000000,ou=people,dc=vzw,dc=comchangetype: modifydelete:mdn=111000000,ou=people,dc=vzw,dc=comchangetype: modifydelete:mdn=111000000,ou=people,dc=vzw,dc=comchangetype: modifydelete:mdn=111000000,ou=people,dc=vzw,dc=comchangetype: modifydelete:mdn=22000000,ou=people,dc=vzw,dc=comchangetype: modifydelete:contentAccessLevelmdn=222000000,ou=people,dc=vzw,dc=comchangetype: modifydelete:contentAccessLevelmdn=222000000,ou=people,dc=vzw,dc=comchangetype: modifydelete:mdn=222000000,ou=people,dc=vzw,dc=comchangetype: modifydelete:mdn=222000000,ou=people,dc=vzw,dc=comchangetype: modifydelete:mdn=222000000,ou=people,dc=vzw,dc=comchangetype: modifydelete:mdn=222000000,ou=people,dc=vzw,dc=comchangetype: modifydelete:mdn=22000000,ou=people,dc=vzw,dc=comchangetype: modifydelete:mdn=22000000,ou=people,dc=vzw,dc=com<!--</th--><th></th><th></th><th></th></secret> | | | |
|---|---|--|--|--|
| 2 | Run an Idapsearch on both entries of the test pair as follows from the command line. Idapsearch -D "cn=directory manager" -w admin123 -b ou=people.dc=vzw,dc=com mdn=111000000 Idapsearch -D "cn=directory manager" -w | dn: mdn=1110000000, ou=People,dc=vzw,dc=com objectClass: top objectClass: person objectClass: inetorgperson objectClass: vzwperson objectClass: vzwperson objectClass: organizationalPerson objectClass: costemplate npaexpirationdate: 20070813 mdn: 111000000 | Pass if Actual results match expected. | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 69^{\perp}

| admin123 -b ou=people,dc=vzw,dc=com mdn=2220000000 | npamdnref: 222000000 min: 111000000 MMSServiceClass: 1 ContentAccessLevel: 99 moCopy: 0 mtCopyDivert: 0 mtCopyOrDivert: 0 | | |
|--|--|--|--|
| | dn: mdn=222000000,ou=people,d c=vzw,dc=com objectClass: top objectClass: person objectClass: organizationalperson objectClass: inetorgperson objectClass: inetorgperson objectClass: inetorgperson objectClass: msobject nparef: mdn=111000000,ou=people,d c=vzw,dc=com npamdnref: 111000000 min: 111000000 MMSServiceClass: 1 uid: 222000000 mdn: 222000000 mdn: 222000000 contentAccessLevel: 99 moCopy: 0 mtCopyDivert: 0 | | |

5. Modify New Default Attributes on Old NPA Test

Note: some of the values used in this test are illegal values for normal operation; these values are only used as indicators for success or failure of the operations.

|--|

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 70^{\perp}

| 1 | Use the test servlet to change the following values to provision dn: mdn=111000000, ou=People,dc=vzw,dc=co m with the following. | Success return form MTASAPI | Success | |
|---|---|-----------------------------|---------|--|
| | ContentAccessL evel: 20 moCopy: 1 mtCopyDivert: 1 mtCopyOrDivert:: 1 moCopyAddress: anyone@somew | | | |
| | Modify: Using the test.jsp script found in the mtas api directory modify the test mdn using the following xml as input to test.jsp script. URL: http:// <server_ip>/mtas- api/mtasapi/tester.jsp</server_ip> | | | |
| | <verizon><reqid>118955 2148975</reqid><source >MTAS Load Test<trntype>C </trntype><min>111000 000</min><mdn>111000 0000</mdn><classofserv ice>1<c ontentAccessLevel>20<td></td><td></td><td></td></c </classofserv </source </verizon> | | | |
| | y>1 <mtcopyor Divert>1><mocopyaddress> anyone@somewhere.com </mocopyaddress><mtco pyDivert>1></mtco </mtcopyor | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 71 $^{\perp}$

| | follows from the command line. Idapsearch -D "cn=directory manager" -w admin123 -b ou=people,dc=vzw,dc=com mdn=111000000 Idapsearch -D "cn=directory manager" -w admin123 -b ou=people,dc=vzw,dc=com mdn=222000000 | objectClass: top objectClass: person objectClass: netorgperson objectClass: vzwperson objectClass: vzwperson objectClass: ostemplate npaexpirationdate: 20070813 mdn: 111000000 uid: 111000000 mpamdnref: 222000000 min: 111000000 MMSServiceClass: 1 ContentAccessLevel: 20 moCopy: 1 mtCopyObivert: 1 mtCopyOddress: anyone@somewhere.com dn: mdn=2220000000,ou=people,d c=vzw,dc=com objectClass: top objectClass: person objectClass: organizationalperson objectClass: inetorgperson objectClass: inetorgperson objectClass: inetorgperson objectClass: netorgperson objectClass: 1 uid: 22000000 man=111000000,ou=people,d c=vzw,dc=com npamdnref: 111000000 min: 222000000 min: 222000000 mdn: 22000000 mdn: 222000000 mdn: 222000000 mdn: 222000000 mdn: 222000000 mdn: 222000000 mdn: 222000000 mdn: 222000000 mdn: 222000000 mdn: 22000000 mdn: | results match expected. | | | |
|--|---|---|-------------------------------|--|--|--|
|--|---|---|-------------------------------|--|--|--|

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 72 $^{\perp}$
6. Delete Permissive Period NPA Split Test Pair

| Step # | Procedure | Expected Result | Pass / Fail | Actual Result | Verification Data Location | |
|-----------|---|---|-------------|---------------|-------------------------------|--|
| 1 | Use the test servlet to delete the NPA Split Test Pair using the xml below. | <u><verizon><returncode>0 <u>urnCode><returnmessage>SU</returnmessage></u> <u>CCESS<req< u=""></req<></u></returncode></verizon></u> | Success | | | |
| | <verizon><reqid>PPMS9</reqid></verizon> 552203661Source ce>MTAS Load Test<trntype></trntype> D1110 000000 | <u>d>PPMS9552203661</u> <u></u> ▼ | | | | Deleted: Use Idapmodify to delete the test pair¶ ¶ Idapmodify -D "cn=directory manager" -w admin123¶ ¶ dn: mdn=111000000,ou=people,dc=vzw ,dc=com¶ changetype: delete¶ ¶ Idapmodify -D "cn=directory manager" -w admin123¶ |
| 2 | Use the test servlet to guery both NPA Split Test Entries using the xml below | Success no result returned for Idapsearch <u>both pairs have</u> been deleted. | Success | | , | dn: mdn=2220000000,ou=people,dc=vzw ,dc=com¶ changetype: delete¶ |
| | <pre><verizon><reqld>118954 8874760</reqld><source/>MTAS Test Script<trntype>V</trntype><mdn>111 0000000</mdn></verizon></pre> | xml version="1.0"<br encoding="UTF- 8"?> <verizon><returncode>- 2</returncode><returnmessa ge>Subscriber does not. exist_<regld 21490f48071760_UPortle_0_for</regld </returnmessa </verizon> | | | | Deleted: Idapmodify Success Deleted: Run an Idapsearch on both entries of the test pair as follows from the command line. |
| | ≥ <verizon><reqld>118954 8874760</reqld><source< td=""> >MTAS Test Script<trntype< td=""> >V<rtrntype><vertination< td=""></vertination<></rtrntype></trntype<></source<></verizon> | <pre>>\Traspage: Interpretation of the second secon</pre> | | | | |
| | 0000000⋧ | exist_< <u>ReturnMessage><regid< u=""> ><u>1189548874760 izon></u></regid<></u> | | | | Deleted: Idapsearch -D "cn=directory manager" -w admin123 -b ou=people,dc=vzw,dc=com mdn=1110000000¶ |

ldapsearch -D "cn=directory manager" -w admin123 -b ou=people,dc=vzw,dc=com mdn=2220000000___

7. New Mexico Existing NPA Split Test (West Region Only)

This test will only be performed for the West region where an NPA split has taken place. The following are the production NPA's used in the test:

5057799203 is from ABQ MTSO, Taos RC, impacted by the split – corresponding split # is 5757799203 5057167300 is from ABQ MTSO, Framington RC, NOT impacted by the split.

| Step | Procedure | Expected Result | Pass / Fail | Actual Result | Verification |
|--------|-------------------------------|-------------------------|--------------|---------------|---------------|
| π 4 | Due en Idensserek en | day m da _ 6067700202 | Deee if | | Data Location |
| 1 | Run an idapsearch on | an: man=5057799203, | Pass If | | |
| | both entries of the test pair | ou=People,dc=vzw,dc=com | attributes | | |
| | as follows from the | objectClass: top | are present | | |
| | command line. | objectClass: person | with default | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 73^{\perp}

| | ldapsearch -D "cn=directory manager" -w admin123 -b ou=people,dc=vzw,dc=co m mdn=5057799203 ldapsearch -D "cn=directory manager" -w admin123 -b ou=people,dc=vzw,dc=co m mdn=5757799203 | objectClass: inetorgperson objectClass: vwperson objectClass: msobject objectClass: organizationalPerson objectClass: organizationdate: 20070813 mpacxpirationdate: 20070813 mpacxpirationdate: 20070813 mpacxpirationdate: 20070813 mbacket in the interpretain of the interpretain market interpretain of the interpretain min: 5057799203 MMSServiceClass: 1 ContentAccessLevel: 99 moCopy: 0 mtCopyDivert: 0 mtCopyDivert: 0 mtCopyOrDivert: 0 dn: mdn=5757799203,ou=people,d c=vzw,dc=com objectClass: intorgperson objectClass: intorgperson objectClass: intorgperson objectClass: intorgperson objectClass: msobject mparef: mdn=5057799203,ou=people,d c=vzw,dc=com npamdnref: 5057799203 min: 5057799203 min: 5057799203 ContentAccessLevel: 99 moCopy: 0 mtCopyDivert: 0 | values listed. | |
|---|--|--|--|--|
| 2 | Run an Idapsearch on the | mtCopyOrDivert: 0 dn: mdn=5057167300. | Pass if | |
| - | entry that was not affected by the split from the command line as follows: Idapsearch -D "cn=directory manager" -w admin123 -b ou=people,dc=vzw,dc=co m mdn=5057167300 | an indiceord of the second ou=People,dc=vzw,dc=com objectClass: top objectClass: person objectClass: inetorgperson objectClass: vzwperson objectClass: vzwperson objectClass: organizationalPerson objectClass: costemplate mdn: 5057167300 wid: 5057167300 min: 5057167300 MMSServiceClass: 1 ContentAccessLevel: 99 moCopy: 0 mtCopyDivert: 0 mtCopyOrDivert: 0 | attributes are present with default values listed. | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 74 $^{\perp}$

MTAS API Installation (Secondary Server - 30 minutes)

1. Delete Previous MTAS API (WAR) File

Repeat all steps found under this header in the section for the Primary Server titled "MTAS API Installation (Primary Server - 30 minutes)"

2. MTAS API (WAR) File Deployment (mtas-api_2.0.2.war)

Repeat all steps found under this header in the section for the Primary Server titled "MTAS API Installation (Primary Server - 30 minutes)"

3. Java Virtual Machine (JVM) Tuning

Repeat all steps found under this header in the section for the Primary Server titled "MTAS API Installation (Primary Server - 30 minutes)"

4. Web Server Performance Tuning

Repeat all steps found under this header in the section for the Primary Server titled "MTAS API Installation (Primary Server - 30 minutes)"

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 75^{\perp}

R2 Regression Testing (Secondary Server - 1 hour)

 Determine Master 2 (m2) test MDN and if different from 9253245010 replace all occurrences of this MDN with your test MDN in the procedure below. If the test MDN is different record that test MDN in the next line:

Master 2 (m2) Test MDN:

Delete Test MDN if it already exists.

| Step# | Procedure | Expected Results | Actual Results | Pass/ | Verification Data |
|-------|--|--|----------------|-------------|-------------------|
| 1 | Delete: Using the test.jsp script found in the mtas api directory delete the test mdn using the following xml as input to test.jsp script. URL: http:// <server_ip>/mt as- api/mtasapi/tester.js p <verizon><reqid>1 189552203661qId><source/>MTAS Load Test<trnt ype>D< MDN>9253245010</trnt </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118955 2203661</reqid>erizon></returnco </verizon> | | <u>raii</u> | |
| 2 | Query: Using test.jsp (http:// <server_ip>/m tas- api/mtasapi/tester.js p) enter the following xml and select send request. <verizon><reqid>1 189548874760qId><source/>MTAS Test Script<trn Type>V< MDN>9253245010</trn </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>- 2<ret urnMessage>Subscri ber does not exist.e><reqld>11895488 74760</reqld>zon></ret </returnco </verizon> | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 76^{\perp}

2. Add & Query Test MDN

| Step# | Procedure | Expected Results | Actual Results | Pass/ Fail | Verification Data |
|-------|--|--|----------------|---------------|-------------------|
| 1 | Add: Using the test.jsp script found in the mtas api directory add the test mdn using the following xml as input to test.jsp script. URL: http:// <server_ip>/mt as- api/mtasapi/tester.js p <verizon><reqid>1 189552268243qId><source/>MTAS Test Script<trn Type>A< MIN>9253245010<!--<br-->MIN><mdn>925324 5010</mdn><class OfService>1</class OfService><td>From tester.jsp <?xml version="1.0" encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118955 2268243</reqid>erizon></returnco </verizon></td><td></td><td></td><td></td></trn </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118955 2268243</reqid>erizon></returnco </verizon> | | | |
| 2 | Query: Using test.jsp (http:// <server_ip>/m tas- api/mtasapi/tester.js p) enter the following xml and select send request. <verizon><reqid>1 189548874760qId><source/>MTAS Test Script<trn Type>V< MDN>9253245010< /MDN></trn </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118954 8874760</reqid><mi N>9253245010><mdn>9253245010 </mdn><classofser vice>1ce><mocopy>0Copy><mtcopyordiv ert><mtcopydivert>0 </mtcopydivert><co ntentAccessLevel>99 el></co </mtcopyordiv </mocopy></classofser </mi </returnco </verizon> | | | |

 ${\tt MMSC-LDAP \ Subscriber \ Directory \ R2 \ Deployment \ MoP \ v1.8}$

Page 77 $^{\perp}$

3. Perform Handset Test

Perform handset test using Master 2 (m2) Test MDN.

Record Master 2 (m2) Test MDN:

| Step# | Procedure | Expected Results | Actual Results | Pass/ | Verification Data |
|-------|--|---|----------------|-------|-------------------|
| L | T 11 DAD | 1 | 1 | Fail | Location |
| | access log for test MDN using the command below replacing <servername> with appropriate server name and <test MDN> with the test MDN.</test </servername> | nva | nva | nva | nva |
| | tail -f /var/mps/serverroot/ slapd- <servername>/logs/ access grep <m1 test MDN></m1 </servername> | | | | |
| 2 | Using m2 test MDN send an MMS from one mobile to another. Verify that it is received in the destination mobile. | Destination mobile receives test MMS. | | | |
| 3 | Verify tailed access log shows query for test MDN | Similar to the following with time and test MDN being different: [02/Oct/2007:16:37:5 9 +0000] conn=860265 op=2628 msgld=12895 - SRCH base="ou=people,dc =vzw,dc=com" scope=2 filter="(mdn=9316441 080)" attrs="ipv4 mdn min mmsnotif MMSServiceClass MMSSubscriberEnabl e uid" | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 78 $^{\perp}$

4. Modify & Query Test MDN

| Step# | Procedure | Expected Results | Actual Results | Pass/ Fail | Verification Data Location |
|-------|---|--|----------------|---------------|-------------------------------|
| 1 | Modify: Using the test.jsp script found in the mtas api directory modify the test mdn using the following xml as input to test.jsp script. URL: http:// <server_ip>/mt as- api/mtasapi/tester.js p <verizon><reqid>1 189552148975qId><source/>MTAS Load Test<trnt ype>C< MIN>9253245010<!--<br-->MIN>9253245010<!--<br-->MIN>9253245010<!--<br-->MIN><class OfService>PPMMS /ClassOfService>cc ontentAccessLevel> 40evel><mocopy>1<!--<br-->moCopy><mtcopyo rDivert>1</mtcopyo rDivert>1Divert>1Divert></mocopy></class </trnt </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118955 2148975</reqid>erizon></returnco </verizon> | | | |
| 2 | Query: Using test.jsp (http:// <server_ip>/m tas- api/mtasapi/tester.js p) enter the following xml and select send request. <verizon><reqid>1 189548874760qId><source/>MTAS Test Script<trn Type>V< MDN>9253245010</trn </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118954 8874760</reqid><mi N>9253245010><mdn>9253245010 </mdn>9253245010 9253245010</mi </returnco </verizon> | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 79 $^{\perp}$

| | mewhere.comopyAddress> <mtcop yDivert>1vert><contentaccess Level>40cessLevel>></contentaccess </mtcop | | |
|--|---|--|--|
| | | | |

5. Perform Handset Test

Perform handset test using Master 1 (m1) Test MDN.

Record Master 2 (m2) Test MDN:

| Step# | Procedure | Expected Results | Actual Results | Pass/ | Verification Data |
|-------|---|-----------------------|----------------|-------|-------------------|
| | | | | Fail | Location |
| 1 | Tail LDAP server | n/a | n/a | n/a | n/a |
| | access log for test | | | | |
| | MDN using the | | | | |
| | command below | | | | |
| | replacing | | | | |
| | <servername> with</servername> | | | | |
| | appropriate server | | | | |
| | MDNs with the test | | | | |
| | | | | | |
| | | | | | |
| | tail –f | | | | |
| | /var/mps/serverroot/ | | | | |
| | slapd- | | | | |
| | <servername>/logs/</servername> | | | | |
| | access grep <test< td=""><td></td><td></td><td></td><td></td></test<> | | | | |
| | MDN> | | | | |
| 2 | Using master 2 test | Destination mobile | | | |
| | MDN send an MMS | receives test MMS. | | | |
| | from one mobile to | | | | |
| | another. Verify that it | | | | |
| | is received in the | | | | |
| 2 | destination mobile. | Similar to the | | | |
| 3 | verily talled access | Similar to the | | | |
| | tost MDN | and test MDN being | | | |
| | | different. | | | |
| | | different. | | | |
| | | [02/Oct/2007:16:37:5 | | | |
| | | 9 +00001 | | | |
| | | conn=860265 | | | |
| | | op=2628 | | | |
| | | msgld=12895 - | | | |
| | | SRCH | | | |
| | | base="ou=people,dc | | | |
| | | =vzw,dc=com" | | | |
| | | scope=2 | | | |
| | | filter="(mdn=9316441 | | | |
| | | 080)" attrs="ipv4 mdn | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 80^{\perp}



6. Delete & Query Test MDN

| Step# | Procedure | Expected Results | Actual Results | Pass/ Fail | Verification Data Location |
|-------|--|--|----------------|---------------|-------------------------------|
| 1 | Delete: Using the test.jsp script found in the mtas api directory delete the test mdn using the following xml as input to test.jsp script. URL: http:// <server_ip>/mt as- api/mtasapi/tester.js p <verizon><reqid>1 189552203661qId><source/>MTAS Load Test<trnt ype>D< MDN>9253245010</trnt </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118955 2203661</reqid>erizon></returnco </verizon> | | | |
| 2 | Query: Using test.jsp (http:// <server_ip>/m tas- api/mtasapi/tester.js p) enter the following xml and select send request. <verizon><reqid>1 189548874760qId><source/>MTAS Test Script<trn Type>V< MDN>9253245010</trn </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>- 2<ret urnMessage>Subscri ber does not exist.e><reqid>11895488 74760</reqid>zon></ret </returnco </verizon> | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 81^{\perp}

- 7. Prepare for MTAS Redirect
 - 2. Prior to redirecting MTAS tail the transaction.log and directory server access.log in preparation to watch the previously queued provisioning begin to provision the ldap server.
 - i. From the command line substituting the correct server name using the list provided where denoted:
 - ii. # cd /opt/SUNWwbsvr/https-<SERVER NAME>/webapps/https-<SERVER NAME> /mtas-api/mtasapi/WEB-INF/logs
 - iii. # tail -f transaction.log
 - iv. From a second session command line substituting the correct servername where denoted:
 - v. # cd /var/mps/serverroot/slapd-<servername>
 - vi. # tail -f access.log | egrep 'ADD|MOD|DEL'

Server Names:

Staging: txslmmscldap2 txslmmscldap7

Production: txslldcent1 njbrldcent2 njbrldeast1 txslldeast2 carkldwest1 TXSLLDWEST2

8. Redirect MTAS to Master 2/Secondary

Have appropriate Verizon Wireless personal redirect MTAS to Master 2/Secondary.

Have appropriate Verizon Wireless personal verify MTAS operating correctly.

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 82^{\perp}

9. Monitor logs and verify MTAS operability

1. Transaction log

Prior to MTAS being redirected there will be no transaction log activity. Upon the redirect you will see logging of the transaction logs you will see both Request and Response values. If no transactions are occurring in the transaction log have Verizon Wireless verify MTAS has been redirected. Use the following table to determine pass/fail of MTAS redirect.

| Step# | Expected Results | Actual Results | Pass/ | Verification Data |
|-------|---|----------------|-------|-------------------|
| | | | Fail | Location |
| 1 | Similar logging as follows: 01 Oct 2007 13:38:31 - ReqId: 1189552203661 TransactionType: D Request values: MDN: 9253245010 MIN: null OldMDN: null OldMIN: null OldMIN: null COS: null Response values: MDN: null MIN: null COS: null COS: null COS: null COS: null COS: null COS: null COS: null | | | |
| 2 | Verify that there are transaction logs with the following: Msg: SUCCESS | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 83^{\perp}

2. Access Log

The access.log will also see an increase in activity with MOD's, ADD's and DEL's. Overall activity in the access log may appear to not have increased since MMSC activity was not interrupted during the upgrade.

| Step# | Expected Results | Actual Results | Pass/ | Verification Data |
|-------|--|----------------|-------|-------------------|
| | | | Fail | Location |
| 1 | Upon successful MTAS start you will see access logs with ADD, MOD and DEL [28/Sep/2007:19:10:0 1 -0500] conn=562095 op=17762 msgId=17763 - ADD dn="mdn=123000000 165494, ou=People,dc=vzw,d c=com" | | | |
| 1 | | | 1 | |

10. Proceed or Back-out decision

If above MTAS success criteria was not seen have VZW verify MTAS was redirected and is pointing to master 2 for the region. Also verify that there are MTAS transactions for the LDAP server.

If there is still an issue back-out is not an immediate option as the Primary Server has already been successfully updated. A thorough investigation of the steps involved in MTAS deployment and configuration should thus ensue at this point.

Once the installation or configuration omission has been found and fixed, perform the regression test once again for the Secondary server.

11. Redirect MTAS to Master 1/Primary

Have Verizon Wireless personnel redirect MTAS back to Master 1/Primary for this region.

Have appropriate Verizon Wireless personal verify MTAS operating correctly.

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 84[⊥]

R2 Back-out Procedure (Master Server 1 or 2 - 30 minutes) (10)

If it is deemed necessary to back-out R2 the following steps will accomplish this:

1. Stop MTAS & Verify (If not already stopped)

Prior to stopping MTAS tail the transaction.log to verify the MTAS provisioning activity stops.

From the command line substituting the correct SERVER NAME where denoted:

cd /opt/SUNWwbsvr/https-<SERVER NAME>/webapps/https-<SERVER NAME> /mtas-api/mtasapi/WEB-INF/logs

tail -f transaction.log

Responsible Verizon Wireless personal is to stop MTAS for this region.

If activity persists in the transaction.log verify MTAS has indeed been stopped.

2. MTAS API Back-Out to mtas-api_1.5.war

 Copy the tester.jsp which will be used to verify the re-installed R1 from the Back-Out to your home directory. This script was not available in R1. Be sure to insert the SERVER NAME for the server you are working on below where you see <SERVER NAME> (Fully Qualified Domain Name).

cp /opt/SUNWwbsvr/https-<SERVER NAME>/webapps/<SERVER NAME>/mtas-api/mtasapi/tester.jsp ~

Server Names:

Staging: txslmmscldap2 txslmmscldap7

Production: txslldcent1 njbrldcent2 njbrldeast1 txslldeast2 carkldwest1 TXSLLDWEST2

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 85[⊥]

- 2. Delete Previous MTAS API (WAR) File
- 1. Login to Web Server Admin & select the Manage button.



MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 86[⊥]

2. Select Virtual Server class tab.

| 🥹 Server Manager - Mozilla Firefox 📃 🗖 🔀 | | | | | |
|--|-------|--|--|--|--|
| <u>Eile Edit View History B</u> ookmarks <u>T</u> ools <u>H</u> elp | Ó | | | | |
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| Administration Server > wclab1md.nss.vzwnet.com ▼ Manage Sun~ONE Web Server 6.1 Server Manager | Apply | | | | |
| Preferences (Security Logs (Monitor Virtual Server Class) Java | | | | | |
| On / Off Server On / Off | 5 | | | | |
| Performance Tuning Magnus Editor | | | | | |
| Add Listen Socket Server On Server Off | | | | | |
| Edit Listen About this server Sockets | | | | | |
| MIME Types | | | | | |
| Restrict Access | | | | | |
| Restore | | | | | |
| Done | La. | | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 87 $^{\perp}$

3. Select Server in the "Tree View of the Class".

| 🥹 Server Manager - Mozilla Firefox | | | | | |
|---|------|--|--|--|--|
| Elle Edit View Higtory Bookmarks Tools Help | 0 | | | | |
| < 🔹 🔹 😪 🏠 🕑 📗 🗋 http://wdab1md:8888/https-wdab1md.nss.vzwnet.com 🔹 🕨 💽 🕻 Google | 9 | | | | |
| Administration Server > wclab1md.nss.vzwnet.com ♥ Manage Class Manager A Sun™ONE Web Server 6.1 Server Manager Class Manager A | pply | | | | |
| Preferences Security Logs Monitor Virtual Server Class Java | | | | | |
| Manage Classes Manage a Class of Virtual Servers | | | | | |
| Add Class Select a Class: vsclass1 Manage | | | | | |
| <u>Edit Classes</u> | | | | | |
| | ^ | | | | |
| Tree View of the Server | | | | | |
| vsclass1 https-wclab1md.nss.vzwnet.com Homepage Mathematical Action (Mathematical Action (Ma | | | | | |
| Help | ~ | | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 88^{\perp}

4. Select the Web Applications tab.

| 🖲 Virtual Server Manager - Mozilla Firefox 📃 🗖 🔀 | | | | |
|---|--|--|--|--|
| Ele Edit View History Bookmarks Tools Help | | | | |
| 💠 • 🔷 • 🧭 🐼 🏠 🕑 📗 🗈 http://wdab1md:8883/https-wdab1md.nss.vzwnet.com/dass-vsclass1/vs-https-v 🔹 🕨 💽 • Google | | | | |
| Administration Server > wclab1md.nss.vzwnet.com > https-wclab1md.nss.vzwnet.com < Manage | | | | |
| Preferences (Logs) Web Applications (WebDAV Search | | | | |
| Deploy Web Status Edit Web Server Name:https-wclab1md.nss.vzwnet.com Applications Server Name:https-wclab1md.nss.vzwnet.com Belongs To: vsclass1 Urthosts: wclab1md.nss.vzwnet.com State: on MIME File: nime.types ACL File: /opt/SUNWwbsvr/https-wclab1md.nss.vzwnet.com/logs/access Error Log: /opt/SUNWwbsvr/https-wclab1md.nss.vzwnet.com/logs/arccess Help | | | | |
| Done | | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 89^{\perp}

5. Select Edit Web Applications.

| 🕲 Virtual Server Manager - Mozilla Firefox | |
|--|-----------------------------------|
| Ele Edit View Higtory Bookmarks Tools Help | $-\lambda_{ij}^{ij} \lambda_{ij}$ |
| < • 🔶 • 🥐 • 🚱 🔝 🏠 🕑 📗 🗅 http://wdab1md:8888/https-wdab1md.nss.vzwnet.com/dass-vsdass1/vs-https-4 🔹 🕨 💽 • Google | Q |
| Administration Server > wclab1md.nss.vzwnet.com > https://wclab1md.nss.vzwnet.com > https://wclab1md.nss.vzwnet.com > Manage Sun~ONE Web Server 6.1 Virtual Server Manager | ly |
| Preferences Logs Web Applications WebDAV Search | |
| Deploy Web Application Deploy Web Application | |
| WAR File On: | |
| Applications WAR File Dath: | |
| | |
| Application UR1: | |
| Installation Directory: /opt/SUNWwbsvr/https-wclab1md.nss.vzwnet.com/wet | |
| OK Reset Help | |
| | |
| | |
| | |
| Done | 1.4 |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 90^{\perp}

6. Select Delete then OK, then OK again to confirm.

| 🕹 Virtual Server Manager - I | Mozilla Firefox | | | |
|---|---|--|------------------------------|--|
| <u>Eile E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> oo | okmarks <u>T</u> ools <u>H</u> elp | | 0 | |
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| Deploy Web Application | Edit Web Applications f | for https-wclab1md.nss.vzwnet.c | om | |
| | Action URI | State | P | |
| Edit Web Applications | Edit 📝 /mtas-api/mtasapi | Enabled /opt/SUNWwbsvr/https- | -wclab1md.nss.vzwnet.com/web | |
| | Edit Delete Disable | Reset | Heip | |
| Done | J | | > | |
| Done | | | | |
| Deleting WebApp will remove everything under : Deleting WebApp will remove everything under : /opt/SUNW/bsvr/Inttps-wdab Imd.nss.vzwnet.com/webapps/https-wdab Imd.nss.vzwnet.com/mtas-api/mtasapi, | | | | |

ОК

Cancel

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 91^{\perp}

7. You should see the below when the previous MTAS API is deleted.

| 🥹 Virtual Server Manager - Mozilla Firefox 📃 🗖 🔀 | | | | | |
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| Sun. Sun. Sun. | histration Server > 21md.nss.vzwnet.com > https ss1 > ONE Web Server 6.1 Virtual Se | s-wclab1md.nss.vzwnet.c rver Manager | om 💌 Manage | Apply | |
| Preferences Lo | gs)Web Applications \ We | bDAV | | | |
| Deploy Web Application | Edit Web Application | ons for https-wcl | ab1md.nss.vzwno | et.com | |
| | Action | URI | State | PATH | |
| Edit Web | This virtual server d | This virtual server does not have any Web Applications | | | |
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| Done | | | | 14 | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 92 $^{\perp}$

8. Select Apply from the upper left then select Apply Changes. Select OK on the Success pop-up window.

| 🕹 Virtual Server Manager - Mozilla Firefox 📃 🗖 🔀 | | | | | |
|--|-------------------|--|--|--|--|
| Elle Edit View Higtory Bookmarks Tools Help | $\langle \rangle$ | | | | |
| • • • • • • • • • • • • • • • • • • • | Q) | | | | |
| Administration Server > wclab1md.nss.vzwnet.com > https-wclab1md.nss.vzwnet.com > vsclass1 > Sun~ONE Web Server 6.1 Virtual Server Manager | ly | | | | |
| Preferences V Logs) Web Applications V WebDAV V Search | | | | | |
| Deploy Web Application Apply Changes | | | | | |
| Edit Web Applications Use this button to apply and stop and start the server. Apply Changes Apply Changes | | | | | |
| Use this button to dynamically apply your changes (without stopping and starting the server) Load Configuration Files | | | | | |
| Done | | | | | |

| The pa | ge at http://wclab1md:8888 says: | X |
|--------|--|---|
| 3 | Success! Your changes have been applied. Return to previous page? OK Cancel | |

 ${\tt MMSC-LDAP \ Subscriber \ Directory \ R2 \ Deployment \ MoP \ v1.8}$

Page 93^{\perp}

3. MTAS API (WAR) File Deployment (mtas-api_1.5.war)

- Select Deploy Web Applications in the left panel. 1.
- Select the location of the WAR file to install (server machine). 2.
- 3. Give the path to the WAR file (mtas-api_1.5.war)
- 4. Enter the Application URI:

/mtas-api/mtasapi

5. The Installation Directory should already be filled in and is acceptable as is.

The installation directory should be similar to:

/opt/SUNWwbsvr/https-<SERVER NAME>/webapps/https-<SERVER NAME>

Note: This will not be exactly the same as in the example web page image below.

- 6. 7. Select ok and give the WAR file several minutes to load.
- You will receive a success message upon completion.

| 🙂 Vii | rtual S | lerver | Manag | er - | Mozilla Firefox | |
|------------|----------------|---------------|------------------------|-----------------------|--|--------|
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| | • 🏟 | - 🤇 | 20 | 1 | http://localhost:4321/https-m1md.lwsapps.com/dass-vsck 🔻 🕨 💽 🕻 Google | 9 |
| ♦ § | S <u>un</u> | | Admir m1mc Sun** | nistr I.Iw: ONB | ration Server > https-m1md.lwsapps.com V Manage Sapps.com > vsclass1 > E Web Server 6.1 Virtual Server Manager | Apply |
| P | refere | ence | <u>s V Loi</u> | 15) | Web Applications WebDAV Search | |
| | Deplo Appli | y We catio | <u>eb</u> n | | Deploy Web Application | |
| | Edit | Web | | | WAR File On: Server Machine Go | |
| | Applic | ation | <u>15</u> | | WAR File Path: /export/home/operator/mtas-api_1.5.war | Browse |
| | | | | | Application URI: /mtas-api/mtasapi |] |
| | | | | | Installation Directory: //opt/SUNWwbsvr/https-m1md.lwsapps.com/webapps/ | |
| | | | | | OK Reset Help | |
| Done | | | | < | ¢.] | > |
| Done | | | | | | 1.33 |

Restore the MTAS API configuration file (web.xml)

This configuration file contains the information needed by the MTAS API to find and connect to the LDAP

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 94[⊥]

database.

1. Enter the fully gualified domain name where <SERVER NAME> is in the path to change to below.

cd /opt/SUNWwbsvr/https-<SERVER NAME>/webapps/https-<SERVER NAME>/mtasapi/mtasapi/WEB-INF

2. Restore saved web.xml

cp web.xml web.xml.org # cp ~/web.xml.saved.1.5 ./web.xml

3. CoS Back-Out

Note: this change will be automatically replicated to the secondary master.

Delete the R2 CoS entries:

Idapmodify -a -p 389 -D "cn=Directory Manager" -w DirectoryManager dn: cn=DefaultAttributeCoSDef,dc=vzw,dc=com changetype: delete

Idapmodify -a -p 389 -D "cn=Directory Manager" -w DirectoryManager dn: cn=DefaultAttributeValues,ou=Templates,dc=vzw,dc=com changetype: delete

Idapmodify -a -p 389 -D "cn=Directory Manager" -w DirectoryManager dn: ou=templates,dc=vzw, dc=com changetype: delete

Add back the R1 NPA Split CoS entry

Idapmodify -D "cn=Directory Manager" -w <secret> -a -f ~/r1.npa.cos.ldif

4. Attribute Back-Out

Note: This change will be automatically replicated to the secondary master.

- 1. Remove the following attributes using the Adminstration Console from the objectclass mmsobjectclass: moCopyAddress, moCopy, mtCopyDivert, mtCopyOrDivert, ContentAccessLevel.
 - 1. Log into the Administration Console, Open the Console to Master one Console -> Master Select Configuration tab, then Schema in LH panel:

Deleted: ¶ # Idapmodify -a -p 389 -D "cn=Directory Manager" -w DirectoryManager¶ dn: cn=DefaultAttributeCoSDef,dc=vzw,d c=com¶ changetype: delete¶

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 95^{\perp}

| Console Edit View Object Help Sun Java™ System | Directory Server Version 5.2 | |
|---|---|---------|
| Image: Schema Image: Schema | The schema checking is enabled Object Classes Attributes Matching Rules Standard Object Classes (Read-Only): Required Attributes: account alias applicationentity applicationprocess bootabledevice Allowed Attributes: Cacheobject Allowed Attributes: User Defined Object Classes: Allowed Attributes: ids-proxy-sch-changegroupaction alids-proxy-sch-forbiddenentryproperty ids-proxy-sch-forbiddenentryproperty alids-proxy-sch-forbiddenentryproperty ids-proxy-sch-forbiddenentryproperty Parent: OID: OID: | Disable |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 96 $^{\perp}$

2. Select the mmsobject object class under the User Defined Object Classes.

| Console Edit ⊻iew Object Help Sun Java™ System Tasks Configuration r | Directory Server Version 5.2 | |
|--|---|----------------|
| Image: Second Secon | The schema checking is enabled Object Classes Attributes Matching Rules Standard Object Classes (Read-Only): Required Attributes: account alias applicationentity applicationentity applicationeroress bootabledevice cacheobject Allowed Attributes: User Defined Object Classes: ContentAccessLevel GenAttr: MMSSubscriberEnable mmsblacklistelement mmsblacklistenebled | <u>Disable</u> |
| | Insdarconfiguration mmsnotif Insdarserver mmspermstorageadd Vzwperson mmsw/bitelistelement Parent: top OID; mmsObject-oid Create Edit | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 97 $^{\perp}$

 Select Edit then "Remove" the following attributes from the Allowed Attributes box: moCopyAddress, moCopy, mtCopyDivert, mtCopyOrDivert, ContentAccessLevel. Then select OK. Verify attributes removed from the Allowed Attributes box.

| 💠 Edit Object Class | X |
|---|---|
| Name: mmsObject | Parent: top OID (Optional): mmsObject-oid |
| Available Attributes: | Add Add |
| authorsn bootfile bootparameter buildingname businesscategory c cacertificate | Add ► mocopy mocopyaddress mtcopydivert mtcopyordivert newnpa npaexpirationdate moemdpref |
| | <u>O</u> K <u>C</u> ancel <u>H</u> elp |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 98^{\perp}

- 2. Delete the following attributes from the Directory Server using the Administration Console: moCopyAddress, moCopy, mtCopyDivert, mtCopyOrDivert, ContentAccessLevel.
 - 1. Select the Attributes tab.

| m1md.lwsapps.com - Sun J | Java(TM) System Directo | ry Server - m1md | | | | |
|--------------------------|---|-----------------------------------|-------------------|-------------|------|--|
| Sun Java™ System | Directory Server | Version | 5.2 | | | |
| m1md.lwsapps.com:3890 | The schema checking is | The schema checking is enabled | | | | |
| Schema | Object Classes Standard Attributes (Re | Attributes Matchir ad-Only): | ng Rules | | | |
| Backups | Name | OID | Syntax | Multivalued | | |
| | abstract | 0.9.2342.19200300.1 | DirectoryString | 2 | - | |
| 👜 🧑 Plugins | accountunlocktime | 2.16.840.1.113730.3 | GeneralizedTime | | | |
| | aci | 2.16.840.1.113730.3 | IA5String | | | |
| | aclrights | 1.3.6.1.4.1.42.2.27.9 | . DirectoryString | | | |
| | aclrightsinfo | 1.3.6.1.4.1.42.2.27.9 | DirectoryString | | | |
| | administratorcontacti 2.16.840.1.113730.3 DirectoryString | | | | | |
| | User Defined Attributes: | | | | | |
| | Name | OID | Syntax | Multivalued | | |
| | contentaccesslevel | ContentAccessLevel | INTEGER | | | |
| | genattr | GenAttr-oid | DirectoryString | | | |
| | ids-proxy-con-allow | . 1.3.6.1.4.1.1071.1.3 | DirectoryString | V | | |
| | ids-proxy-con-allow | . 1.3.6.1.4.1.1071.1.3 | DirectoryString | N N | | |
| | ids-proxy-con-audit-f | . 1.3.6.1.4.1.1071.1.3 | DirectoryString | V | | |
| | ids-proxy-con-audit | 1.3.6.1.4.1.1071.1.3 | DirectoryString | | Y | |
| | Cre <u>a</u> te | Edit De | lete | | Help | |
| | | | | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 99^{\perp}

2. Select each of the 5 attributes listed in step 1 and select Delete then Yes. Verify attributes removed from the User Defined Attributes.

| Tasks Configuration Dire | ctory Status | | | | | |
|-----------------------------|---|---------------------|------------------|-------------|------|--|
| ▶ m1md.lwsapps.com:3890 | The schema checking is enabled Disable Object Classes Attributes Matching Rules | | | | | |
| Backups | Standard Attributes (Rea | ad-Only): | 1 | | | |
| - 🕅 Logs | Name | OID | Syntax | Multivalued | | |
| - Riugins | apstract | 0.9.2342.19200300.1 | DirectoryString | IV IV | | |
| | accountuniocktime | 2.10.040.1.113730.3 | Generalized Time | 1 | | |
| | aci | 136141422379 | DirectoryString | | | |
| | acingnis | 136141422279 | DirectoryString | | | |
| | administratorcontacti | 2.16.840.1.113730.3 | DirectoryString | <u> </u> | 3 | |
| | User Defined Attributes: | | | | | |
| | Name | OID | Syntax | Multivalued | | |
| | mmssubscriberenable | MMSSubscriberEnabl | INTEGER | | | |
| | mmsuserid | mmsuserid-oid | DirectoryString | | | |
| | mmswhitelistelement | mmswhitelistelement | DirectoryString | 1 | | |
| | mmswhitelistenabled | mmswhitelistenabled | INTEGER | | | |
| | тосору | moCopy-oid | INTEGER | | - | |
| | mocopyaddress | moCopyAddress-oid | DirectoryString | | 2 | |
| | Create | Edit Del | lete | | Help | |

| Confirm | nation | \mathbf{X} |
|----------|--------------------------|--------------|
| <u>^</u> | Delete attribute mocopy? | |
| | Yes No | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

| Page | 100 [⊥] |
|------|------------------|
|------|------------------|

5. Java Virtual Machine (JVM) Tuning Back-Out

These steps will revert to previous tuning configuration by changing Xms to 1024m and the connection pooling.

1. Log into the Administration Console and select the server to manage, then select Manage.



MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 101^{\perp}

2. Select the Java tab, then select the JVM Options in the left panel.

| Server Manager - Mozilla Firefox | 🛛 |
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| Elle Edit View History Bookmarks Iools Help | 0 |
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| 🏽 network_webpage 🗋 F5-Southfield 🗋 tccss 🌮 Getting Started 🦳 1&1 Internet Inc I 🔂 Latest Headlines Ġ Map | » |
| Administration Server > m1md.lwsapps.com Manage Sun~ONE Web Server 6.1 Server Manager | Apply |
| Preferences Security Logs Monitor Virtual Server Class | |
| | ~ |
| Enable/Disable Servlets/JSP JVM Options | |
| | |
| <u>JVM General</u> Operation JVM Option | |
| JVM Path | |
| Settings Edit Collars -Djava.security.auth.login.config=/opt/SUNW | |
| JVM Options Edit Cline -Djava.util.logging.manager=com.iplanet.ias | = |
| Edit -XX:NewSize=64m | |
| Edit C -XX:PermSize=32m | |
| DBC Connection Edit -Xmx2048m | |
| Pools Edit Strand | |
| JDBC Resources OK Reset | ~ |
| Done | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 102^{\perp}

3. Select Delete from the drop down box to the right of –Xms256, then click OK. The resulting **•** – – – **Formatted:** Centered success box will appear, click OK to continue.

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| Administration Server > m1md.lwsapps.com Manage Class Manage Age Sun~ONE Web Server 6.1 Server Manager Age | ylqc |
| Preferences Security Logs Monitor Virtual Server Class | |
| | ^ |
| Enable/Disable Servlets/JSP JVM Options | |
| | |
| JVM General Operation JVM Option | |
| JVM Path | |
| Edit Djava.security.auth.login.config=/opt/SUNW | |
| JVM Options Edit Cline -Djava.util.logging.manager=com.iplanet.ias | = |
| Edit Contraction -XX:NewSize=64m | |
| Edit CAXPermSize=32m | |
| JDBC Connection Edit V -Xmx2048m | |
| Pools -Xms256m | |
| JDBC | |
| Resources OK Reset Help | ~ |
| Done | |



MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

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Page 103^{\perp}

4. Enter –Xms1024m next to the Add Selection as seen below and select OK. This will be followed by a success popup window, select OK to continue.

| 🕹 Server Manager - Mozilla | Firefox | | | 🛛 |
|---|---|--|--------------------|-------|
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| • • | 1 🕑 🚺 🗖 | http://localhost:4321/https-m1md.lwsapps.com/bin/index | 🔹 🕨 💽 Google | Q |
| 🝺 network_webpage 📋 F5-Sol | uthfield 🗋 tccss 🥐 | Getting Started 🤭 1&1 Internet Inc I 🔂 Latest Hea | dines <u>G</u> Map | » |
| ♦ Sun. Sun∾ON | r <u>ation Server</u> > E Web Server 6.1 | m1md.lwsapps.com 💌 Manage Server Manager | Class Manager | Apply |
| Preferences Secur | ity V Logs V Ma | nitor (<u>Virtual Server Class</u>) <u>Java</u> | | |
| Enable/Disable Servlets/JSP | JVM Option | 15 | | |
| JVM General | Operation | JVM Option | | |
| JVM Path | Add 💌 | -Xms1024m | | |
| Settings | Edit 🔛 | -Djava.security.auth.login.config=/opt/SUNW | | |
| JVM Options | Edit 💌 | -Djava.util.logging.manager=com.iplanet.ias | | |
| JVM Profiler | Edit 🔛 | -XX:NewSize=64m | | |
| 1080 | Edit 💌 | -XX:PermSize=32m | | |
| Connection | Edit 🔛 | -Xmx2048m | | |
| <u>P0015</u> | | | | |
| JDBC Resources | 0 | K Reset | Help | |
| | | | | |
| Done | | | | |



MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 104 $^{\perp}$

 Select Delete from the drop down box to the right of -Dcom.sun.jndi.ldap.connect.pool.maxsize=50 then click OK. The resulting success box will appear, click OK to continue.

| ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory | Bo | okmarks <u>T</u> ools <u>I</u> | ielp | < |
|--|--------------|--|---|---------------|
| Þ • 🔶 • 🥑 📀 | 1 |) 🕑 🚺 | http://localhost:4321/https-m1md.lwsap 🔻 🕨 🗔 V Dcom | ı.sun.jndi.lc |
| Sun Sun | nistr ONB | <u>ation Server</u> > Web Server 6. | m1md.lwsapps.com V Manage Class Ma | inager Aj |
| Preferences Se | curi | ty \ Logs \ M | lonitor Virtual Server Class Java | |
| Epoble/Dicoble | ^ | Variation and | | |
| Servlets/JSP | | JVM Optio | ns | |
| JVM General | | Operation | JVM Option | |
| JVM Path | | Add 🖌 | | |
| Settings | - | Edit 💌 | -Djava.security.auth.login.config=/opt/SUNW | |
| JVM Options | | Edit 💌 | -Djava.util.logging.manager=com.iplanet.ias | |
| IVM Profiler | | Edit 💌 | -XX:NewSize=64m | |
| <u>Svin Promer</u> | | Edit 💌 | -XX:PermSize=32m | |
| JDBC Connection | | Edit 💌 | -Xmx2048m | |
| Pools | | Edit 💌 | -Xms1024m | |
| JDBC | | Edit 🖌 | -Dcom.sun.jndi.ldap.connect.pool.maxsize=E | |
| Resources | | Edit | | |
| Custom | ~ | Delete | Reset Help | 1 [|



MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

6. Select Apply then Select Apply Changes. Select OK in the popup success window to continue.

| 🕹 Server Manager - Mozilla Firefox | |
|---|------------|
| Elle Edit View History Bookmarks Tools Help | \bigcirc |
| 👍 🕶 🛶 😴 🚱 🏠 🕑 📗 🗋 http://localhost:4321/https-m1md.lwsapps.com/bin/index 💌 🕨 🕞 🕞 Google | Q |
| 🏽 network_webpage 🗋 F5-Southfield 🗋 tccss 🌮 Getting Started 🏹 1&1 Internet Inc I 🔂 Latest Headlines Ġ Map | » |
| Administration Server > m1md.lwsapps.com Manage Manage Sun~ONE Web Server 6.1 Server Manager Apple Server 6.1 Server Manager | ply |
| Preferences Security Logs Monitor Virtual Server Class | |
| Enable/Disable Servlets/JSP Apply Changes | |
| JVM General Use this button to apply and stop and start the server. JVM Path Image: Comparison of the server of t | |
| JVM Options Use this button to dynamically apply your changes (without stopping a starting the server) | and |
| JDBC Connection Pools | |
| Done | |
| | 1.501 |

| The pa | ge at http://localhost:4321 says: | X |
|--------|---|---|
| 3 | Success! The server has started up. Return to previous page? OK Cancel | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 106 $^{\perp}$

7. The resulting screen should look at below.

| 🕹 Server Manager - Mozille | a Firefox | | | 🛛 |
|--|-------------------------------------|--|------------------------|-------|
| <u>File E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> i | ookmarks <u>T</u> ools <u>H</u> e | łp | | 0 |
| • 🔶 • 💽 🙆 1 | 🚹 🕑 🚺 🗖 | http://localhost:4321/https-m1md.lwsapps.com/bin/index | 🔹 🕨 🔀 Google | Q |
| 🝺 network_webpage 📄 F5-So | uthfield 🗋 tccss 🌮 | Getting Started 🦄 1&1 Internet Inc I 🔯 Latest H | leadlines <u> </u> Map | » |
| ♦ Sun ~ ON | ration Server > E Web Server 6.1 | m1md.lwsapps.com 💌 Manage Server Manager | Class Manager | Apply |
| Preferences Secur | rity V Logs V Ma | onitor Virtual Server Class Java | | |
| · · · · · · · · · · · · · · · · · · · | 10 | | | ~ |
| Enable/Disable Servlets/JSP | JVM Option | 15 | | |
| JVM General | Operation | JVM Option | | |
| JVM Path | Add 💌 | | | |
| Settings | Edit 🔛 | Djava.security.auth.login.config=/opt/SUNW | | |
| JVM Options | Edit 💌 | -Djava.util.logging.manager=com.iplanet.ias | | |
| JVM Profiler | Edit 💌 | -XX:NewSize=64m | | |
| 1080 | Edit 💌 | -XX:PermSize=32m | | |
| Connection | Edit 🔛 | -Xmx2048m | | |
| Pools | Edit 💌 | -Xms1024m | | |
| JDBC Bosourcos | | | | |
| <u>Resources</u> | 0 | K | Help | ~ |
| Done | | | | 1 |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 107 $^{\perp}$

R1 Regression Testing after Back-Out (Master Server 1 or 2 – 1 hour)

1. Restore tester.jsp to the MTAS API root directory.

cp ~/tester.jsp /opt/SUNWwbsvr/https-<SERVER NAME>/webapps/https-<SERVER NAME>/mtas-api/mtasapi

 Determine test MDN and if different from 9253245010 replace all occurrences of this MDN with your test MDN in the procedure below. If the test MDN is different record that test MDN in the next line:

Master 1 or 2 Test MDN:

3. Delete Test MDN if it already exists.

| Step# | Procedure | Expected Results | Actual Results | Pass/ | Verification Data |
|-------|--|--|----------------|-------|-------------------|
| 1 | Delete: Using the test.jsp script found in the mtas api directory delete the test mdn using the following xml as input to test.jsp script. URL: http:// <server_ip>/mt as- api/mtasapi/tester.js p <verizon><reqid>1 189552203661qId><source/>MTAS Load Test<trnt ype>D< MDN>9253245010</trnt </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118955 2203661</reqid>erizon></returnco </verizon> | | Fall | Location |
| 2 | Query: Using test.jsp (http:// <server_ip>/m tas- api/mtasapi/tester.js p) enter the following xml and select send request. <verizon><reqid>1 189548874760qId><source/>MTAS Test Script<trn Type>V<</trn </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>- 2<ret urnMessage>Subscri ber does not exist.e><reqid>11895488 74760</reqid>zon></ret </returnco </verizon> | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 108^{\perp}
| MDN /MDI | l>9253245010< N> | | |
|-------------|---------------------|--|--|
| | | | |

4. Add & Query Test MDN

| Output Protecture Expected results Actual results Fail Location 1 Add: Using the test.jsp.script found in the mas api directory add the test mdn using the following xml as input to test.jsp script. URL: http://server_ip>/mt as- api/mtasapi/tester.js p From tester.jsp From tester.jsp 2 Query: Using test.jsp (http://server_ip>/mt as- api/mtasapi/tester.jsp) From tester.jsp From tester.jsp 2 Query: Using test.jsp (http://cserver_ip>/mt tas- gpi/mtasapi/tester.jsp) From tester.jsp 2 Query: Using test.jsp (http://cserver_ip>/mt tas- api/mtasapi/tester.jsp) From tester.jsp 2 Query: Using test.jsp (http://cserver_ip>/mt tas- api/mtasapi/tester.jsp) From tester.jsp 2 Query: Using test.jsp (http://cserver_ip>/mt tas- api/mtasapi/tester.jsp) From tester.jsp 2 Query: Using test.jsp (http://cserver_ip>/mt tas- api/mtasapi/tester.jsp From tester.jsp 2 Query: Using test.jsp (http://cserver_ip>/mt tas- api/mtasapi/tester.jsp From tester.jsp 3 CCESS CCESS 4 CCESS CCESS 4 CCESS CCESS 5 CCESS CCESS 6 Corrigo CCESS 7 From tester.jsp CCESS 8 CCESS CCESS 8 CCESS 8 |
|---|
| 1 Add: Using the test jsp script found in the mtas api directory add the test mdn using the following xml as input to test jsp script. URL: http://cserver_ip>/mt as- api/mtasapi/tester.js p From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnmessage>SU CCESSage><returlmessage>SU CCESSage><redld>118955 268243./Reqld> verizon><regld>1 189552268243./Re qld><source/>MTAS Test Script-//Source><tm Type>A vMiN><mdn>925324 5010-//MDN><class OfService>1-/Class OfService> verizon> 2 Query: Using test jsp (http://<server_jp>/mt tas- api/mtasapi/tester.js p) enter the following xml and select send request. 2 Query: Using test jsp (http://cserver_jp>/mt tas- api/mtasapi/tester.jsp 2 Query: Using test jsp (http://cserver_jp>/mt tas- api/mtasapi/tester.jsp e From tester.jsp z Cuery: Using test jsp (http://cserver_jp>/mt tas- api/mtasapi/tester.jsp e P 2 Query: Using test jsp (http://cserver_jp>/mt tas- api/mtasapi/tester.jsp api/mtasapi/tester.jsp verizon> e y verizon> select send request. verizon> e e y y y verizon> api/mtasapi/tester.jsp e y y y</server_jp></class </mdn></tm </regld></redld></returlmessage></returnmessage></verizon> |
| > |
| Test <classofser Script<trn vice="">1Type>V< ce></trn></classofser |
| MDN>9253245010< /MDN> |

 ${\tt MMSC-LDAP \ Subscriber \ Directory \ R2 \ Deployment \ MoP \ v1.8}$

Page 109 $^{\perp}$

5. Perform Handset Test

Perform handset test using Master 1 or 2 Test MDN.

Record Master 1 or 2 Test MDN:

| Step# | Procedure | Expected Results | Actual Results | Pass/ | Verification Data |
|-------|---|-----------------------|----------------|-------|-------------------|
| | | | | Fail | Location |
| 1 | access log for test | n/a | n/a | n/a | n/a |
| | MDN using the | | | | |
| | command below | | | | |
| | replacing | | | | |
| | <servername> with</servername> | | | | |
| | appropriate server | | | | |
| | name and <test< td=""><td></td><td></td><td></td><td></td></test<> | | | | |
| | MDN> with the test | | | | |
| | MDN. | | | | |
| | 4-11 6 | | | | |
| | tall –t | | | | |
| | /var/mps/serverroot/ | | | | |
| | siapu- | | | | |
| | access aren <m1 2<="" td=""><td></td><td></td><td></td><td></td></m1> | | | | |
| | test MDN> | | | | |
| 2 | Using m1/2 test | Destination mobile | | | |
| | MDN send an MMS | receives test MMS. | | | |
| | from one mobile to | | | | |
| | another. Verify that it | | | | |
| | is received in the | | | | |
| 3 | Verify tailed access | Similar to the | | | |
| 5 | log shows query for | following with time | | | |
| | test MDN | and test MDN being | | | |
| | | different: | | | |
| | | | | | |
| | | [02/Oct/2007:16:37:5 | | | |
| | | 9 +0000] | | | |
| | | conn=860265 | | | |
| | | op=2628 | | | |
| | | 1115910=12895 - | | | |
| | | base-"ou-neonle do | | | |
| | | =vzw.dc=com" | | | |
| | | scope=2 | | | |
| | | filter="(mdn=9316441 | | | |
| | | 080)" attrs="ipv4 mdn | | | |
| | | min mmsnotif | | | |
| | | MMSServiceClass | | | |
| | | MMSSubscriberEnabl | | | |
| | | e uid" | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 110^{\perp}

6. Modify & Query Test MDN

| Step# | Procedure | Expected Results | Actual Results | Pass/ | Verification Data |
|-------|---|--|----------------|-------|-------------------|
| 1 | Modify: Using the test.jsp script found in the mtas api directory modify the test mdn using the following xml as input to test.jsp script. URL: http:// <server_ip>/mt as- api/mtasapi/tester.js p <verizon><reqid>1 189552148975qId><source/>MTAS Load Test<trnt ype>C< MIN>9253245010<!--<br-->MIN>9253245010<!--<br-->MIN><class OfService>1</class OfService>Verizon></trnt </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118955 2148975</reqid>erizon></returnco </verizon> | | Fall | |
| 2 | Query: Using test.jsp (http:// <server_ip>/m tas- api/mtasapi/tester.js p) enter the following xml and select send request. <verizon><reqid>1 189548874760qId><source/>MTAS Test Script<trn Type>V< MDN>9253245010</trn </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118954 8874760</reqid><mi N>9253245010><mdn>9253245010 </mdn><classofser vice>1ce> </classofser </mi </returnco </verizon> | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 111^{\perp}

7. Perform Handset Test

Perform handset test using Master 1 or 2 Test MDN.

Record Master 1 or 2 Test MDN:

| Step# | Procedure | Expected Results | Actual Results | Pass/ | Verification Data |
|-------|--|---|----------------|-------|-------------------|
| 1 | Tail LDAP server access log for test MDN using the command below replacing <servername> with appropriate server name and <test MDN> with the test MDN. tail -f /var/mps/serverroot/ slapd- <servername>/logs/</servername></test </servername> | n/a | n/a | n/a | n/a |
| 2 | MDN> Using master 1/2 test MDN send an MMS from one mobile to another. Verify that it is received in the destination mobile. | Destination mobile receives test MMS. | | | |
| 3 | Verify tailed access log shows query for test MDN | Similar to the following with time and test MDN being different: [02/Oct/2007:16:37:5 9 +0000] conn=860265 op=2628 msgld=12895 - SRCH base="ou=people,dc =vzw,dc=com" scope=2 filter="(mdn=9316441 080)" attrs="ipv4 mdn min mmsnotif MMSServiceClass MMSSubscriberEnabl e uid" | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 112^{\perp}

8. Delete & Query Test MDN

| Step# | Procedure | Expected Results | Actual Results | Pass/ Fail | Verification Data Location |
|-------|--|--|----------------|---------------|-------------------------------|
| 1 | Delete: Using the test.jsp script found in the mtas api directory delete the test mdn using the following xml as input to test.jsp script. URL: http:// <server_ip>/mt as- api/mtasapi/tester.js p <verizon><reqid>1 189552203661qId><source/>MTAS Load Test<trnt ype>D< MDN>9253245010<td>From tester.jsp <?xml version="1.0" encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118955 2203661</reqid>erizon></returnco </verizon></td><td></td><td></td><td></td></trnt </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>0< ReturnMessage>SU CCESSage><reqid>118955 2203661</reqid>erizon></returnco </verizon> | | | |
| 2 | Query: Using test.jsp (http:// <server_ip>/m tas- api/mtasapi/tester.js p) enter the following xml and select send request. <verizon><reqid>1 189548874760qId><source/>MTAS Test Script<trn Type>V< MDN>9253245010<td>From tester.jsp <?xml version="1.0" encoding="UTF-8"?> <verizon><returnco de>- 2<ret urnMessage>Subscri ber does not exist.e><reqld>11895488 74760</reqld>zon></ret </returnco </verizon></td><td></td><td></td><td></td></trn </reqid></verizon></server_ip> | From tester.jsp xml version="1.0"<br encoding="UTF-8"?> <verizon><returnco de>- 2<ret urnMessage>Subscri ber does not exist.e><reqld>11895488 74760</reqld>zon></ret </returnco </verizon> | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 113^{\perp}

- 9. Prepare for MTAS start
 - 3. Prior to starting MTAS tail the transaction.log and directory server access.log in preparation to watch the previously queued provisioning begin to provision the ldap server.
 - i. From the command line substituting the correct server name using the list provided where denoted:
 - ii. # cd /opt/SUNWwbsvr/https-<SERVER NAME>/webapps/https-<SERVER NAME> /mtas-api/mtasapi/WEB-INF/logs
 - iii. # tail -f transaction.log
 - iv. From a second session command line substituting the correct server name where denoted:
 - v. # cd /var/mps/serverroot/slapd-<servername>
 - vi. # tail -f access.log | egrep 'ADD|MOD|DEL'

Server Names:

Staging: txslmmscldap2 txslmmscldap7

Production: txslldcent1 njbrldcent2 njbrldeast1 txslldeast2 carkldwest1 TXSLLDWEST2

10. Start MTAS & Replay MTAS Transactions (Provisioning Outage Ends)

Have appropriate Verizon Wireless personal start MTAS.

Have appropriate Verizon Wireless personal replay MTAS transactions from the start of MOP execution.

Have appropriate Verizon Wireless personal verify MTAS operating correctly.

- 11. Monitor logs and verify MTAS operability
 - 1. Transaction log

Prior to MTAS start there will be no transaction log activity. Upon start you will see logging of the transaction logs and you should see both Request and Response values. If no transactions are occurring in the transaction log, have Verizon Wireless personnel verify MTAS has been turned on. Use the following table to determine pass/fail of MTAS start.

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 114^{\perp}

| Step# | Expected Results | Actual Results | Pass/ Fail | Verification Data Location |
|-------|--|----------------|---------------|-------------------------------|
| 1 | Similar logging as follows: 01 Oct 2007 13:38:31 - ReqId: 1189552203661 TransactionType: D Request values: MDN: 9253245010 MIN: null OldMDN: null OldMIN: null COS: null Response values: MDN: null COS: null MIN: null COS: null | | | |
| 2 | Verify that there are transaction logs with the following: Msg: SUCCESS | | | |

2. Access Log

The access.log will also see an increase in activity with MOD's, ADD's and DEL's. Overall activity in the access log may not appear to have increased since MMSC activity was not interrupted during the upgrade.

| Step# | Expected Results | Actual Results | Pass/ | Verification Data |
|-------|--|----------------|-------|-------------------|
| | | | Fail | Location |
| 1 | Upon successful MTAS start you will see access logs with ADD, MOD and DEL | | | |
| | [28/Sep/2007:19:10:0 1 -0500] conn=562095 op=17762 msgld=17763 - ADD dn="mdn=123000000 165494, ou=People,dc=vzw,d c=com" | | | |

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 115^{\perp}

Appendix A – CoS Entry Addition

1. (West Region Only) Verify Mexico NPA Split R2 Conversion Script Execution has completed

ps -ef | grep npa.split.r2.conv.pl

If the below is all you see continue with next step:

root 1447 1384 0 17:46:07 pts/1 0:00 grep npa.split.r2.conv.pl

If script is still running allow it to complete before continuing and with the CoS definition changes as the script requires that the R1 NPA CoS definition stays intact during the scripts execution.

Evaluate any error in the error logs for the script.

2. Save the previous NPA Split CoS definition entry

Idapsearch -D "cn=Directory Manager" -w <secret> -s base -b " cn=genattr,ou=People,dc=vzw,dc=com" objectclass=* > ~/r1.npa.cos.ldif

3. Delete the previous NPA Split CoS definition entry

Idapmodify -a -p 389 -D "cn=Directory Manager" -w <secret>
dn: cn=genattr,ou=People,dc=vzw,dc=com
changetype: delete
<return>
<return>

4. Add R2 CoS entries using an Idif.

Idapmodify -D "cn=Directory Manager" -w <secret> -a -f ~/r2.deployment/r2.cos.ldif

Contents of r2.cos.ldif

dn: ou=templates,dc=vzw, dc=com objectclass: top objectclass: organizationalunit ou: templates

dn: cn=DefaultAttributeValues,ou=Templates,dc=vzw,dc=com objectClass: top objectClass: costemplate objectClass: person objectClass: inetorgperson objectClass: organizationalPerson objectClass: mmsobject cn: DefaultAttributeValues ContentAccessLevel: 99 moCopy: 0 mtCopyDivert: 0 mtCopyOrDivert: 0

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 116^{\perp}

dn: cn=DefaultAttributeCoSDef,dc=vzw,dc=com objectclass: top objectclass: LDAPsubentry objectclass: cosSuperDefinition objectclass: cosPointerDefinition cosTemplateDn: cn=DefaultAttributeValues,ou=Templates,dc=vzw,dc=com cosAttribute: mcCopyDivert cosAttribute: mtCopyDivert cosAttribute: mtCopyOrDivert cosAttribute: ContentAccessLevel

MMSC-LDAP Subscriber Directory R2 Deployment MoP v1.8

Page 117^{\perp}