

Quality Criteria Verification Report

Product	<i>apel.sl5.x86_64-1.4.1</i> <i>apel.sl6.x86_64-1.4.1</i>	Release	<i>1.4.1</i>
Software Provider	<i>EMI</i>	RT Ticket	<i>#8287 and #8288</i>
Provider contact	<i>Cristina Aiftimiei <crisrina.aiftimiei@pd.infn.it></i>		
Verifier	<i>Ruben Diez (rdiez@cesga.es)</i>		
Hours worked	<i>3h</i>	Date	<i>13/03/15</i>
Status	Accepted		

Summary

Verification report for apel V-1.4.1 in SL5 and SL6.

Related tickets

Documentation Criteria

Document	
Release notes	http://www.eu-emi.eu/releases/emi-3-monte-bianco/updates/-/asset_publisher/5Na8/content/update-24-16-02-2015-v-3-15-0-1#APEL_Parsers_v_2_5_0_APEL_Publis
User Documentation	http://www.eu-emi.eu/releases/emi-3-monte-bianco/updates/-/asset_publisher/5Na8/content/update-24-16-02-2015-v-3-15-0-1#APEL_Parsers_v_2_5_0_APEL_Publis
API Documentation	http://www.eu-emi.eu/releases/emi-3-monte-bianco/updates/-/asset_publisher/5Na8/content/update-24-16-02-2015-v-3-15-0-1#APEL_Parsers_v_2_5_0_APEL_Publis
Admin Documentation	http://www.eu-emi.eu/releases/emi-3-monte-bianco/updates/-/asset_publisher/5Na8/content/update-24-16-02-2015-v-3-15-0-1#APEL_Parsers_v_2_5_0_APEL_Publis
Software License	http://www.eu-emi.eu/releases/emi-3-monte-bianco/updates/-/asset_publisher/5Na8/content/update-24-16-02-2015-v-3-15-0-1#APEL_Parsers_v_2_5_0_APEL_Publis

Generic Criteria

Criteria	Status ¹	Additional Comments
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Binary Distribution	OK	
Upgrade	OK	
X.509 Certificate support	OK	
SHA-2 Certificates Support	OK	
RFC Proxy support	OK	
ARGUS Integration	NA	
World Writable Files	OK	
Passwords in world readable files	NT	Minor release
GlueSchema 1.3 Support	OK	
GlueSchema 2.0 Support	OK	
Middleware Version Information	NT	Minor release
Service Probes	OK	
Accounting Records	NA	
Bug Tracking System	OK	

Specific QC

Basic Functionality Test

== Verification of apel.s15.x86_64-1.4.1 ==

=== Ticket assigned ===

* [Ticket <https://rt.egi.eu/rt/Ticket/Display.html?id=8287>]

* Use APEL.apel.s15.x86_64.repo repo

```

{{{
[root@test07 yum.repos.d]# wget http://admin-
repo.egi.eu/sw/unverified/umd-
3.apel.apel.s15.x86_64/1/4/1/repofiles/APEL.apel.s15.x86_64.repo

```

```

[root@test07 yum.repos.d]# cat APEL.apel.s15.x86_64.repo
# EGI Software Repository - REPO META
(releaseId,repositoryId,repofileId) - (8287,1849,1780)

```

```

[APEL.apel.s15.x86_64]
name=APEL.apel.s15.x86_64
baseurl=http://admin-repo.egi.eu/sw/unverified/umd-
3.apel.apel.s15.x86_64/1/4/1/
enabled=1
protect=1
priority=1
gpgcheck=1
gpgkey=http://emisoft.web.cern.ch/emisoft/dist/EMI/3/RPM-GPG-KEY-emi
}}}

```

* Update:

1OK, WARN, FAIL, NA (Not Applicable) or NT (Not Tested)

```
{{{
[root@test07 ~]# yum clan all; yum update
[.....]
Dependencies Resolved
```

```
=====
=====
=====
```

```
==
Package                               Arch
Version                               Repository
Size
=====
```

```
=====
=====
==
```

```
Updating:
  apel-client                               noarch
  1.4.0-1.el5
  APEL.apel.sl5.x86_64                      18 k
  apel-lib                                  noarch
  1.4.0-1.el5
  APEL.apel.sl5.x86_64                      49 k
```

```
Transaction Summary
=====
=====
=====
```

```
==
Install      0 Package(s)
Upgrade     2 Package(s)
```

```
Total download size: 67 k
[.....]
}}}
```

```
* Check conf:
```

```
{{{
[root@test07 ~]# diff /etc/apel/client.cfg /root/client.cfg
[root@test07 ~]# diff /etc/apel/sender.cfg /root/sender.cfg
}}}
```

```
* Apel publisher client configuration
```

```
{{{
[root@test07 ~]# cat /etc/apel/client.cfg
# Information about the apel client database
[db]
hostname = localhost
port = 3306
name = apelclient
username = apel
password = umdtestapel
```

```
[spec_updater]
enabled = true
# The GOCDDB site name
site_name = UMD-VERIFICATION
ldap_host = sbdii02.ncg.ingrid.pt
ldap_port = 2170
```

```
## The following information is necessary for
## local jobs only. Provide an average value for
## machines which your batch system uses.
## Supported specs are HEPSPEC and Si2k
## Provide also a hostname for your batch system.
## This does not need to be a definitive hostname,
## but it should uniquely identify the batch system.
## Example: pbs.gridpp.rl.ac.uk
#lrms_server =
#spec_type = HEPSPEC
#spec_value = 1.0

[joiner]
enabled = true
local_jobs = false

[unloader]
enabled = true
dir_location = /var/spool/apel/

# You may send only summaries of your data to the APEL server,
# rather than individual job records.
# This reduces the network load.
send_summaries = false

# You may send 'withheld' instead of the user's DN in the
# GlobalUserName field. This is only valid for individual
# job records.
withhold_dns = false

# Optional: send ONLY these VOs to the APEL server.
# This overrides exclude_vos.
#include_vos = atlas,cms,lhcb

# Optional: do not send these VOs to the APEL server.
# This does not take effect if include_vos is set.
#exclude_vos = atlas,cms

# Which records to send:
# latest - just send the new records to the server
# gap    - send records from between the specified dates (inclusive)
#         this is only for individual job records
# all    - send all records to the server. Don't do this for
#         individual
#         job records without talking to the apel team!
interval = latest
## only used if interval = gap
#gap_start = 2012-01-01
#gap_end = 2012-01-31

# Send CAR-format records - only for job records
send_ur = false

[ssm]
enabled = true

[logging]
logfile = /var/log/apel/client.log
```

```

level = INFO
console = true
}}}

* SSM Configuration
{{{
[root@test07 ~]# cat /etc/apel/sender.cfg
#####
#####
# Required: broker configuration options
#

[broker]

# The SSM will query a BDII to find brokers available.  These details
are for the
# EGI production broker network
bdii: ldap://lcg-bdii.cern.ch:2170
network: PROD

# OR (these details will only be used if the broker network settings
aren't used)
host: test-msg01.afroditi.hellasgrid.gr
port: 6163

# broker authentication.  If use_ssl is set, the certificates
configured
# in the mandatory [certificates] section will be used.
use_ssl: false

#####
#####
# Required: Certificate configuration

[certificates]
certificate: /etc/grid-security/hostcert.pem
key: /etc/grid-security/hostkey.pem
capath: /etc/grid-security/certificates
# If this is supplied, outgoing messages will be encrypted
# using this certificate
#server_cert: /etc/grid-security/hostcert.pem

#####
#####
# Messaging configuration.
#

[messaging]

# Queue to which SSM will send messages
destination: /queue/global.accounting.test.cpu.central

# Outgoing messages will be read and removed from this directory.
path: /var/spool/apel/outgoing

[logging]
logfile: /var/log/apel/ssmsend.log
# Available logging levels:
# DEBUG, INFO, WARN, ERROR, CRITICAL
level: INFO

```

```
console: true
}}}
```

```
* Running apelclient (OK)
```

```
{{{
[root@test07 ~]# /usr/bin/apelclient
2015-03-12 10:47:43,320 - client - INFO - Starting apel client version
1.4.0
2015-03-12 10:47:43,332 - client - INFO - Connecting to the
database ...
2015-03-12 10:47:43,468 - apel.db.backends.mysql - INFO - Connected to
localhost:3306
2015-03-12 10:47:43,469 - apel.db.backends.mysql - INFO - Database:
apelclient; username: apel
2015-03-12 10:47:43,469 - client - INFO - Connected.
2015-03-12 10:47:43,470 - client - INFO - =====
2015-03-12 10:47:43,470 - client - INFO - Starting spec updater.
2015-03-12 10:47:43,781 - client - INFO - Spec updater finished.
2015-03-12 10:47:43,782 - client - INFO - =====
2015-03-12 10:47:43,782 - client - INFO - =====
2015-03-12 10:47:43,782 - client - INFO - Starting joiner.
2015-03-12 10:47:43,783 - apel.db.backends.mysql - INFO - Creating
JobRecords
2015-03-12 10:47:46,332 - apel.db.backends.mysql - INFO - Done.
2015-03-12 10:47:46,332 - client - INFO - Joining complete.
2015-03-12 10:47:46,333 - client - INFO - =====
2015-03-12 10:47:46,333 - client - INFO - =====
2015-03-12 10:47:46,333 - client - INFO - Starting summariser.
2015-03-12 10:47:46,333 - apel.db.backends.mysql - INFO - Summarising
job records...
2015-03-12 10:47:46,538 - apel.db.backends.mysql - INFO - Done.
2015-03-12 10:47:46,539 - client - INFO - Summarising complete.
2015-03-12 10:47:46,539 - client - INFO - =====
2015-03-12 10:47:46,539 - client - INFO - =====
2015-03-12 10:47:46,539 - client - INFO - Starting unloader.
2015-03-12 10:47:46,539 - client - INFO - Will unload from
VJobRecords.
2015-03-12 10:47:46,564 - apel.db.unloader - INFO - Getting records
updated since: 2015-03-12 05:15:05
2015-03-12 10:47:46,725 - apel.db.backends.mysql - INFO - Updating
timestamp.
2015-03-12 10:47:46,726 - client - INFO - Unloaded 0 records in 0
messages.
2015-03-12 10:47:46,726 - apel.db.unloader - INFO - Writing sync
messages.
2015-03-12 10:47:46,759 - client - INFO - Unloaded 23 sync records in
1 messages.
2015-03-12 10:47:46,760 - client - INFO - Unloading complete.
2015-03-12 10:47:46,760 - client - INFO - =====
2015-03-12 10:47:46,761 - client - INFO - =====
2015-03-12 10:47:46,761 - client - INFO - Starting SSM.
2015-03-12 10:47:47,394 - client - INFO - Found 2 brokers.
2015-03-12 10:47:47,395 - client - INFO - No server certificate
supplied. Will not encrypt messages.
2015-03-12 10:47:47,681 - stomp.py - INFO - Established connection to
host mq.cro-ngi.hr, port 6163
2015-03-12 10:47:47,683 - ssm.ssm2 - INFO - Will send messages to:
/queue/global.accounting.test.cpu.central
2015-03-12 10:47:47,751 - ssm.ssm2 - INFO - Connected.
2015-03-12 10:47:47,792 - ssm.ssm2 - INFO - Found 1 messages.
}}}
```

```
2015-03-12 10:47:47,792 - ssm.ssm2 - INFO - Sending message:
55016094/550160c2b97ec5
2015-03-12 10:47:47,831 - ssm.ssm2 - INFO - Waiting for broker to
accept message.
2015-03-12 10:47:47,964 - ssm.ssm2 - INFO - Broker received message:
55016094/550160c2b97ec5
2015-03-12 10:47:48,051 - ssm.ssm2 - INFO - Tidying message directory.
2015-03-12 10:47:48,068 - ssm.ssm2 - INFO - SSM connection ended.
2015-03-12 10:47:48,069 - client - INFO - SSM run has finished.
2015-03-12 10:47:48,069 - client - INFO - Sending SSM has shut down.
2015-03-12 10:47:48,070 - client - INFO - SSM stopped.
2015-03-12 10:47:48,070 - client - INFO - =====
2015-03-12 10:47:48,071 - client - INFO - Client finished
}}}
```

* World writable files

* An easy way to find world-writable files is using the find command:
{{{
[root@test07 ~]# find / -xdev -type f -perm -002 -exec ls -l {} \
}}}

* For finding world-writable files in the packages contents:

```
{{{  
[root@test07 ~]# rpm -qalv | egrep "^[-d]([-r][-w][-xs]){2}[-r]w"  
drwxrwxrwt    2 root    root                0 oct  7  2009 /tmp  
drwxrwxrwt    2 root    root                0 oct  7  2009 /var/tmp  
drwxrwxrwt    2 root    root                0 sep 16 06:59  
/var/cache/coolkey  
drwxrwxrwt    2 root    root                0 jun 17  2009  
/var/spool/vbox  
-rw-rw-rw-    1 root    root                0 ene 27 18:51  
/var/run/nscd/socket  
drwxrwxrwt    2 root    root                0 sep 16 15:25  
/var/cache/coolkey  
}}}
```

== Verification of apel.sl6.x86_64-1.4.1 ==

=== Ticket assigned ===

* [Ticket <https://rt.egi.eu/rt/Ticket/Display.html?id=8288>]

* Use APEL.apel.sl6.x86_64.repo repo

```
{{{  
[root@test07 yum.repos.d]# wget http://admin-  
repo.egi.eu/sw/unverified/umd-  
3.apel.apel.sl6.x86_64/1/4/1/repofiles/APEL.apel.sl6.x86_64.repo
```

```
[root@test07 yum.repos.d]# cat APEL.apel.sl6.x86_64.repo  
# EGI Software Repository - REPO META  
(releaseId,repositoryId,repofileId) - (8288,1850,1781)
```

```
[APEL.apel.sl6.x86_64]  
name=APEL.apel.sl6.x86_64  
baseurl=http://admin-repo.egi.eu/sw/unverified/umd-  
3.apel.apel.sl6.x86_64/1/4/1/  
enabled=1  
protect=1
```

```
priority=1
gpgcheck=1
gpgkey=http://emisoft.web.cern.ch/emisoft/dist/EMI/3/RPM-GPG-KEY-emi
}}}
```

```
* Update:
{{{
[root@test07 ~]# yum clan all; yum update
[.....]
Dependencias resueltas
```

```
=====
=====
=====
==
Paquete                Arquitectura
Versión                Repositorio
Tamaño
=====
=====
=====
==
```

```
Actualizando:
  apel-client                noarch
  1.4.0-1.el6
  APEL.apel.s16.x86_64      18 k
  apel-lib                  noarch
  1.4.0-1.el6
  APEL.apel.s16.x86_64      48 k
```

```
Resumen de la transacción
=====
=====
=====
==
```

```
Actualizar          2 Paquete(s)

Tamaño total de la descarga: 66 k
[.....]
```

```
}}}
```

```
* Check conf:
{{{
[root@test07 ~]# diff /etc/apel/client.cfg /root/client.cfg
[root@test07 ~]# diff /etc/apel/sender.cfg /root/sender.cfg
}}}
```

```
* Apel publisher client configuration
{{{
[root@test07 ~]# cat /etc/apel/client.cfg
# Information about the apel client database
[db]
hostname = localhost
port = 3306
name = apelclient
username = apel
password = umdtestapel

[spec_updater]
```



```
enabled = true
# The GOCDB site name
site_name = UMD-VERIFICATION
ldap_host = sbdii02.ncg.ingrid.pt
ldap_port = 2170

## The following information is necessary for
## local jobs only. Provide an average value for
## machines which your batch system uses.
## Supported specs are HEPSPEC and Si2k
## Provide also a hostname for your batch system.
## This does not need to be a definitive hostname,
## but it should uniquely identify the batch system.
## Example: pbs.gridpp.rl.ac.uk
#lrms_server =
#spec_type = HEPSPEC
#spec_value = 1.0

[joiner]
enabled = true
local_jobs = false

[unloader]
enabled = true
dir_location = /var/spool/apel/

# You may send only summaries of your data to the APEL server,
# rather than individual job records.
# This reduces the network load.
send_summaries = false

# You may send 'withheld' instead of the user's DN in the
# GlobalUserName field. This is only valid for individual
# job records.
withhold_dns = false

# Optional: send ONLY these VOs to the APEL server.
# This overrides exclude_vos.
#include_vos = atlas,cms,lhcb

# Optional: do not send these VOs to the APEL server.
# This does not take effect if include_vos is set.
#exclude_vos = atlas,cms

# Which records to send:
# latest - just send the new records to the server
# gap     - send records from between the specified dates (inclusive)
#         this is only for individual job records
# all     - send all records to the server. Don't do this for
individual
#         job records without talking to the apel team!
interval = latest
## only used if interval = gap
#gap_start = 2012-01-01
#gap_end = 2012-01-31

# Send CAR-format records - only for job records
send_ur = false

[ssm]
```

```

enabled = true

[logging]
logfile = /var/log/apel/client.log
level = INFO
console = true
}}}

* SSM Configuration
{{{
[root@test07 ~]# cat /etc/apel/sender.cfg
#####
#####
# Required: broker configuration options
#

[broker]

# The SSM will query a BDII to find brokers available.  These details
are for the
# EGI production broker network
bdii: ldap://lcg-bdii.cern.ch:2170
network: PROD

# OR (these details will only be used if the broker network settings
aren't used)
#host: test-msg01.afroditi.hellasgrid.gr
#port: 6163

# broker authentication.  If use_ssl is set, the certificates
configured
# in the mandatory [certificates] section will be used.
#use_ssl: true
use_ssl: false

#####
#####
# Required: Certificate configuration

[certificates]
certificate: /etc/grid-security/hostcert.pem
key: /etc/grid-security/hostkey.pem
capath: /etc/grid-security/certificates
# If this is supplied, outgoing messages will be encrypted
# using this certificate
#server_cert: /etc/grid-security/servercert.pem

#####
#####
# Messaging configuration.
#

[messaging]

# Queue to which SSM will send messages
destination: global.accounting.test.cpu.central

# Outgoing messages will be read and removed from this directory.
path: /var/spool/apel/outgoing

```

```
[logging]
logfile: /var/log/apel/ssmsend.log
# Available logging levels:
# DEBUG, INFO, WARN, ERROR, CRITICAL
level: CRITICAL
console: true
}}}
```

```
* Running apelclient (OK)
```

```
{{{
[root@test07 ~]# /usr/bin/apelclient
2015-03-12 17:13:10,071 - client - INFO - Starting apel client version
1.4.0
2015-03-12 17:13:10,075 - client - INFO - Connecting to the
database ...
2015-03-12 17:13:10,301 - apel.db.backends.mysql - INFO - Connected to
localhost:3306
2015-03-12 17:13:10,301 - apel.db.backends.mysql - INFO - Database:
apelclient; username: apel
2015-03-12 17:13:10,301 - client - INFO - Connected.
2015-03-12 17:13:10,301 - client - INFO - =====
2015-03-12 17:13:10,301 - client - INFO - Starting spec updater.
2015-03-12 17:13:10,626 - client - INFO - Spec updater finished.
2015-03-12 17:13:10,626 - client - INFO - =====
2015-03-12 17:13:10,627 - client - INFO - =====
2015-03-12 17:13:10,627 - client - INFO - Starting joiner.
2015-03-12 17:13:10,627 - apel.db.backends.mysql - INFO - Creating
JobRecords
2015-03-12 17:13:12,398 - apel.db.backends.mysql - INFO - Done.
2015-03-12 17:13:12,398 - client - INFO - Joining complete.
2015-03-12 17:13:12,398 - client - INFO - =====
2015-03-12 17:13:12,399 - client - INFO - =====
2015-03-12 17:13:12,399 - client - INFO - Starting summariser.
2015-03-12 17:13:12,399 - apel.db.backends.mysql - INFO - Summarising
job records...
2015-03-12 17:13:12,668 - apel.db.backends.mysql - INFO - Done.
2015-03-12 17:13:12,668 - client - INFO - Summarising complete.
2015-03-12 17:13:12,669 - client - INFO - =====
2015-03-12 17:13:12,669 - client - INFO - =====
2015-03-12 17:13:12,669 - client - INFO - Starting unloader.
2015-03-12 17:13:12,669 - client - INFO - Will unload from
VJobRecords.
2015-03-12 17:13:12,729 - apel.db.unloader - INFO - Getting records
updated since: 2015-01-28 11:13:45
2015-03-12 17:13:12,877 - apel.db.backends.mysql - INFO - Updating
timestamp.
2015-03-12 17:13:12,878 - client - INFO - Unloaded 0 records in 0
messages.
2015-03-12 17:13:12,878 - apel.db.unloader - INFO - Writing sync
messages.
2015-03-12 17:13:12,913 - client - INFO - Unloaded 29 sync records in
1 messages.
2015-03-12 17:13:12,913 - client - INFO - Unloading complete.
2015-03-12 17:13:12,913 - client - INFO - =====
2015-03-12 17:13:12,914 - client - INFO - =====
2015-03-12 17:13:12,914 - client - INFO - Starting SSM.
2015-03-12 17:13:13,242 - client - INFO - Found 2 brokers.
2015-03-12 17:13:13,242 - client - INFO - No server certificate
supplied. Will not encrypt messages.
}}}
```

```
2015-03-12 17:13:13,432 - stomp.py - INFO - Established connection to
host mq.cro-ngi.hr, port 6163
2015-03-12 17:13:13,509 - ssm.ssm2 - INFO - Will send messages to:
global.accounting.test.cpu.central
2015-03-12 17:13:13,510 - ssm.ssm2 - INFO - Connected.
2015-03-12 17:13:13,522 - ssm.ssm2 - INFO - Found 1 messages.
2015-03-12 17:13:13,522 - ssm.ssm2 - INFO - Sending message:
5501bb0c/5501bb18defb2e
2015-03-12 17:13:13,541 - ssm.ssm2 - INFO - Waiting for broker to
accept message.
2015-03-12 17:13:13,615 - ssm.ssm2 - INFO - Broker received message:
5501bb0c/5501bb18defb2e
2015-03-12 17:13:13,642 - ssm.ssm2 - INFO - Tidying message directory.
2015-03-12 17:13:13,651 - ssm.ssm2 - INFO - SSM connection ended.
2015-03-12 17:13:13,651 - client - INFO - SSM run has finished.
2015-03-12 17:13:13,652 - client - INFO - Sending SSM has shut down.
2015-03-12 17:13:13,652 - client - INFO - SSM stopped.
2015-03-12 17:13:13,652 - client - INFO - =====
2015-03-12 17:13:13,652 - client - INFO - Client finished
}}}
```

* World writable files

* An easy way to find world-writable files is using the find command:

```
{{{
[root@test07 ~]# find / -xdev -type f -perm -002 -exec ls -l {} \;
}}}
```

* For finding world-writable files in the packages contents:

```
{{{
[root@test07 ~]# rpm -qalv | egrep "^[-d]([-r][-w][-xs]){2}[-r]w"
drwxrwxrwt    2 root    root                0 jul 20  2011
/tmp
drwxrwxrwt    2 root    root                0 jul 20  2011
/var/tmp
}}}
```

New Features/Fixed Bugs

None.

Additional Info

None.