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Testing of CEMon 1.14.0

Unit tests

See:

<http://etics-repository.cern.ch/repository/download/registered/emi/emi.cream-ce.cream-common/1.14.0/noarch/glite-ce>

Deployment tests

See deployment tests for CREAM, since CEMon is deployed along with CREAM

System tests

Basic functionality tests

Resource BDII glue1 test

Result: PASSED

Verified that CEMon is published in the CREAM CE resource BDII in Glue 1.3

For sl5:

```
ldapsearch -h emitestbed29.cnaf.infn.it -x -p 2170 -b "o=grid" "objectclass=GlueService"
...
...
# emitestbed29.cnaf.infn.it_org.glite.ce.Monitor_3810702142, resource, grid
dn: GlueServiceUniqueID=emitestbed29.cnaf.infn.it_org.glite.ce.Monitor_3810702142,Mds-Vo-name=res
GlueServiceAccessControlBaseRule: VO:dteam
GlueServiceAccessControlBaseRule: VO:testers.eu-emi.eu
GlueServiceStatus: OK
GlueServiceStatusInfo: tomcat6 is running...[ OK ]
objectClass: GlueTop
objectClass: GlueService
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueServiceUniqueID: emitestbed29.cnaf.infn.it_org.glite.ce.Monitor_3810702142
GlueServiceAccessControlRule: dteam
GlueServiceAccessControlRule: testers.eu-emi.eu
GlueServiceStartTime: 1970-01-01T01:00:00+01:00
GlueServiceEndpoint: https://emitestbed29.cnaf.infn.it:8443/ce-monitor/services
GlueServiceVersion: 1.14.0
GlueSchemaVersionMinor: 3
GlueServiceName: INFN-CNAF_EMI-Monitor
GlueServiceType: org.glite.ce.Monitor
GlueServiceWSDL: http://grid.pd.infn.it/ce-mon/wsd/org.glite.ce-mon_service.wsdl
GlueServiceSemantics: http://wiki.italiangrid.org/twiki/bin/view/CEMon/FunctionalDescription
GlueForeignKey: GlueSiteUniqueID=INFN-CNAF_EMI
GlueServiceOwner: dteam
GlueServiceOwner: testers.eu-emi.eu
GlueSchemaVersionMajor: 1
...
...
```

For sl6:

```
...
ldapsearch -h emi-demo13.cnaf.infn.it -x -p 2170 -b "o=grid" "objectclass=GlueService"
```

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```
# emi-demo13.cnaf.infn.it_org.glite.ce.Monitor_3098107955, resource, grid
dn: GlueServiceUniqueID=emi-demo13.cnaf.infn.it_org.glite.ce.Monitor_3098107955,Mds-Vo-name=resou
GlueServiceAccessControlBaseRule: VO:dteam
GlueServiceAccessControlBaseRule: VO:testers.eu-emi.eu
objectClass: GlueTop
objectClass: GlueService
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueServiceUniqueID: emi-demo13.cnaf.infn.it_org.glite.ce.Monitor_3098107955
GlueServiceAccessControlRule: dteam
GlueServiceAccessControlRule: testers.eu-emi.eu
GlueServiceEndpoint: https://emi-demo13.cnaf.infn.it:8443/ce-monitor/services
GlueServiceVersion: 1.14.0
GlueSchemaVersionMinor: 3
GlueServiceName: INFN-CNAF_EMI-Monitor
GlueServiceType: org.glite.ce.Monitor
GlueServiceWSDL: http://grid.pd.infn.it/cemon/wsd/org.glite.ce-mon_service.wsd
GlueServiceSemantics: http://wiki.italiangrid.org/twiki/bin/view/CEMon/FunctionalDescription
GlueForeignKey: GlueSiteUniqueID=INFN-CNAF_EMI
GlueServiceOwner: dteam
GlueServiceOwner: testers.eu-emi.eu
GlueSchemaVersionMajor: 1
GlueServiceStatus: OK
GlueServiceStartTime: 2012-05-04T07:50:14+02:00
GlueServiceStatusInfo: /etc/init.d/tomcat5 is already running (23197)
...
```

Resource BDII glue 2 test

Result: PASSED

Verified that the CEMon service is published in the CREAM CE resource BDII in Glue 2.

For sl5:

```
ldapsearch -h emitestbed29.cnaf.infn.it -x -p 2170 -b "o=glue" "objectclass=Glue2EndPoint"
...
# emitestbed29.cnaf.infn.it_ComputingElement_org.glite.ce.Monitor_2146819513,
  emitestbed29.cnaf.infn.it_ComputingElement, resource, glue
dn: GLUE2EndpointID=emitestbed29.cnaf.infn.it_ComputingElement_org.glite.ce.Monitor_2146819513,GL
GLUE2EntityValidity: 3600
GLUE2EndpointQualityLevel: production
GLUE2EndpointImplementor: gLite
GLUE2EndpointHealthStateInfo: tomcat6 is running...[ OK ]
GLUE2EntityOtherInfo: InfoProviderName=glite-info-glue2-endpoint
GLUE2EntityOtherInfo: InfoProviderVersion=1.2
GLUE2EntityOtherInfo: InfoProviderHost=emitestbed29.cnaf.infn.it
GLUE2EntityOtherInfo: MiddlewareName=EMI
GLUE2EntityOtherInfo: MiddlewareVersion=2.0.0-1
GLUE2EndpointCapability: information.monitoring
GLUE2EndpointHealthState: ok
GLUE2EndpointServiceForeignKey: emitestbed29.cnaf.infn.it_ComputingElement
GLUE2EntityName: Monitor endpoint for Service emitestbed29.cnaf.infn.it_ComputingElement
GLUE2EndpointTechnology: webservice
GLUE2EndpointWSDL: https://emitestbed29.cnaf.infn.it:8443/ce-monitor/services/CEMonitor?wsdl
GLUE2EndpointInterfaceName: org.glite.ce.Monitor
GLUE2EndpointURL: https://emitestbed29.cnaf.infn.it:8443/ce-monitor/services
GLUE2EndpointDowntimeInfo: See the GOC DB for downtimes: https://goc.egi.eu/
GLUE2EndpointImplementationVersion: 1.14.0
GLUE2EndpointSemantics: http://wiki.italiangrid.org/twiki/bin/view/CEMon/FunctionalDescription
GLUE2EndpointIssuerCA: /C=IT/O=INFN/CN=INFN CA
GLUE2EndpointServingState: production
GLUE2EndpointImplementationName: CEMon
GLUE2EndpointInterfaceVersion: 1.0
objectClass: GLUE2Endpoint
```

Resource BDII glue1 test

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```
objectClass: GLUE2ComputingEndpoint
GLUE2EndpointTrustedCA: IGTF
GLUE2EndpointID: emitestbed29.cnaf.infn.it_ComputingElement_org.glite.ce.Monitor_2146819513
GLUE2EntityCreationTime: 2012-05-02T14:53:46Z
...
...
```

For sl6:

```
ldapsearch -h emi-demo13.cnaf.infn.it -x -p 2170 -b "o=glue" "objectclass=Glue2EndPoint"
...
# emi-demo13.cnaf.infn.it_ComputingElement_org.glite.ce.Monitor_1331424988, emi-demo13.cnaf.infn.
dn: GLUE2EndpointID=emi-demo13.cnaf.infn.it_ComputingElement_org.glite.ce.Monitor_1331424988, GLUE
  roupID=resource,o=glue
GLUE2EntityValidity: 3600
GLUE2EndpointQualityLevel: production
GLUE2EndpointImplementor: gLite
GLUE2EntityOtherInfo: InfoProviderName=glite-info-glue2-endpoint
GLUE2EntityOtherInfo: InfoProviderVersion=1.2
GLUE2EntityOtherInfo: InfoProviderHost=emi-demo13.cnaf.infn.it
GLUE2EntityOtherInfo: MiddlewareName=EMI
GLUE2EntityOtherInfo: MiddlewareVersion=2.0.0-1
GLUE2EndpointCapability: information.monitoring
GLUE2EndpointServiceForeignKey: emi-demo13.cnaf.infn.it_ComputingElement
GLUE2EntityName: Monitor endpoint for Service emi-demo13.cnaf.infn.it_ComputingElement
GLUE2EndpointTechnology: webservice
GLUE2EndpointWSDL: https://emi-demo13.cnaf.infn.it:8443/ce-monitor/services/CEMonitor?wsdl
GLUE2EndpointInterfaceName: org.glite.ce.Monitor
GLUE2EndpointURL: https://emi-demo13.cnaf.infn.it:8443/ce-monitor/services
GLUE2EndpointDowntimeInfo: See the GOC DB for downtimes: https://goc.egi.eu/
GLUE2EndpointImplementationVersion: 1.14.0
GLUE2EndpointSemantics: http://wiki.italiangrid.org/twiki/bin/view/CEMon/FunctionalDescription
GLUE2EndpointIssuerCA: /C=IT/O=INFN/CN=INFN CA
GLUE2EndpointServingState: production
objectClass: GLUE2Endpoint
objectClass: GLUE2ComputingEndpoint
GLUE2EndpointInterfaceVersion: 1.0
GLUE2EndpointImplementationName: CEMon
GLUE2EndpointTrustedCA: IGTF
GLUE2EndpointID: emi-demo13.cnaf.infn.it_ComputingElement_org.glite.ce.Monitor_1331424988
GLUE2EndpointStartTime: 2012-05-04T05:50:14Z
GLUE2EndpointHealthStateInfo: /etc/init.d/tomcat5 is already running (23197)
GLUE2EndpointHealthState: ok
GLUE2EntityCreationTime: 2012-05-04T08:21:10Z
...
```

GetInfo test

Result: PASSED

Verified that the getinfo operation works and returns information about the service.

For sl5:

```
$ glite-ce-monitor-getinfo --cert /tmp/x509up_u500 --key /tmp/x509up_u500 https://emitestbed29.cnaf.infn.it
Description=[cemonitor service]
Version      =[1.0]
HostDN       =[CN=emitestbed29.cnaf.infn.it,L=CNAF,OU=Host,O=INFN,C=IT]
Topic [CE_MONITOR]
  Dialect [ISM_CLASSAD_GLUE_1.2]
    queryLanguage [RegEx]
    queryLanguage [ClassAd]
  Dialect [ISM_CLASSAD]
    queryLanguage [RegEx]
```

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```
    queryLanguage [ClassAd]
  Dialect [ISM_LDIF_GLUE_1.2]
    queryLanguage [RegEx]
    queryLanguage [ClassAd]
  Dialect [ISM_LDIF]
    queryLanguage [RegEx]
    queryLanguage [ClassAd]
Action [SendExpiredNotification::]
Action [DoNotSendNotification::]
Action [SendNotification::]
```

For sl6:

```
$ glite-ce-monitor-getinfo --cert /tmp/x509up_u500 --key /tmp/x509up_u500 https://emi-demo13.cnaf.
Description=[cemonitor service]
Version      =[1.0]
HostDN       =[CN=emi-demo13.cnaf.infn.it,L=CNAF,OU=Host,O=INFN,C=IT]
Topic [CE_MONITOR]
  Dialect [ISM_CLASSAD_GLUE_1.2]
    queryLanguage [RegEx]
    queryLanguage [ClassAd]
  Dialect [ISM_CLASSAD]
    queryLanguage [RegEx]
    queryLanguage [ClassAd]
  Dialect [ISM_LDIF_GLUE_1.2]
    queryLanguage [RegEx]
    queryLanguage [ClassAd]
  Dialect [ISM_LDIF]
    queryLanguage [RegEx]
    queryLanguage [ClassAd]
Action [SendExpiredNotification::]
Action [DoNotSendNotification::]
Action [SendNotification::]
```

GetTopics test

Result: PASSED

Verified that the gettopics operation works and returns the list of installed topics.

For sl5:

```
$ glite-ce-monitor-gettopics --cert /tmp/x509up_u500 --key /tmp/x509up_u500 https://emitestbed29.
Topic [CE_MONITOR]
  Dialect [ISM_CLASSAD_GLUE_1.2]
    queryLanguage [RegEx]
    queryLanguage [ClassAd]
  Dialect [ISM_CLASSAD]
    queryLanguage [RegEx]
    queryLanguage [ClassAd]
  Dialect [ISM_LDIF_GLUE_1.2]
    queryLanguage [RegEx]
    queryLanguage [ClassAd]
  Dialect [ISM_LDIF]
    queryLanguage [RegEx]
    queryLanguage [ClassAd]
```

For sl6:

```
$ glite-ce-monitor-gettopics --cert /tmp/x509up_u500 --key /tmp/x509up_u500 https://emi-demo13.cn
Topic [CE_MONITOR]
  Dialect [ISM_CLASSAD_GLUE_1.2]
    queryLanguage [RegEx]
    queryLanguage [ClassAd]
```

GetInfo test

```

Dialect [ISM_CLASSAD]
  queryLanguage [RegEx]
  queryLanguage [ClassAd]
Dialect [ISM_LDIF_GLUE_1.2]
  queryLanguage [RegEx]
  queryLanguage [ClassAd]
Dialect [ISM_LDIF]
  queryLanguage [RegEx]
  queryLanguage [ClassAd]

```

GetEvent test

Result: PASSED

Verified that the getevent operation works and return info for the specified topic in the specified dialect

For sl5:

```

$ glite-ce-monitor-getevent --cert /tmp/x509up_u500 --key /tmp/x509up_u500 --topic CE_MONITOR --d
cert=/tmp/x509up_u500 - key=/tmp/x509up_u500

```

Event [0]:

```

Message[0]=[
  GlueCEInfoApplicationDir = "/opt/exp_soft";
  GlueHostProcessorModel = "XEON";
  GlueCEName = "demo";
  GlueCEHostingCluster = "emitestbed29.cnaf.infn.it";
  GlueCEPolicyPriority = 1;
  GlueHostProcessorVendor = "Intel";
  GlueHostProcessorClockSpeed = 2800;
  GlueCEStateFreeJobSlots = 0;
  GlueSubClusterPhysicalCPUs = 2;
  GlueCEStateEstimatedResponseTime = 2146660842;
  GlueHostNetworkAdapterInboundIP = false;
  GlueCEInfoDefaultSE = "lxbra1910.cern.ch";
  GlueSubClusterWNTmpDir = "/tmp";
  GlueCEStateStatus = "Production";
  GlueCEInfoHostName = "emitestbed29.cnaf.infn.it";
  GlueCEInfoContactString = "https://emitestbed29.cnaf.infn.it:8443/ce-cream/servi";
  GlueCEStateTotalJobs = 0;
  GlueCESEBindGroupCEUniqueID = "emitestbed29.cnaf.infn.it:8443/cream-pbs-demo";
  GlueInformationServiceURL = {
    "ldap://emitestbed29.cnaf.infn.it:2170/mds-vo-name=r",
    "ldap://emitestbed29.cnaf.infn.it:2170/mds-vo-name=r",
    "ldap://emitestbed29.cnaf.infn.it:2170/mds-vo-name=r"
  };
  GlueCEAccessControlBaseRule = {
    "VO:dteam",
    "VOMS:/testers.eu-emi.eu/Role=pilot",
    "VO:testers.eu-emi.eu"
  };
  GlueHostOperatingSystemVersion = "Carbon";
  GlueCEStateWaitingJobs = 444444;
  GlueClusterService = {
    "emitestbed29.cnaf.infn.it:8443/cream-pbs-demo"
  };
  GlueCEPolicyMaxRunningJobs = 999999999;
  GlueCEInfoGatekeeperPort = 8443;
  GlueCEPolicyPreemption = 0;
  GlueCEPolicyMaxTotalJobs = 999999999;
  GlueCEInfoLRMSVersion = "2.5.7";
  GlueClusterUniqueID = "emitestbed29.cnaf.infn.it";
  GlueCEInfoTotalCPUs = 2;
  GlueClusterName = "emitestbed29.cnaf.infn.it";
  GlueCESEBindGroupSEUniqueID = {
    "lxbra1910.cern.ch",

```

GetTopics test

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```
"cvitbdpml.cern.ch"
};
GlueHostBenchmarkSI00 = 1286;
GlueChunkKey = "GlueClusterUniqueID=emitestbed29.cnaf.infn.it";
GlueCEStateFreeCPUs = 2;
GlueCEInfoLRMSType = "pbs";
GlueCEPolicyMaxSlotsPerJob = 999999999;
GlueCEStateWorstResponseTime = 2146660842;
GlueHostNetworkAdapterOutboundIP = true;
GlueCEPolicyMaxWallClockTime = 4320;
GlueSubClusterName = "emitestbed29.cnaf.infn.it";
GlueCEImplementationName = "CREAM";
GlueHostMainMemoryVirtualSize = 4096;
GlueHostArchitectureSMPSize = 2;
GlueHostApplicationSoftwareRunTimeEnvironment = {
    "CNAF",
    "GLITE-3_0_0",
    "GLITE-3_1_0",
    "LCG-2",
    "LCG-2_1_0",
    "LCG-2_1_1",
    "LCG-2_2_0",
    "LCG-2_3_0",
    "LCG-2_3_1",
    "LCG-2_4_0",
    "LCG-2_5_0",
    "LCG-2_6_0",
    "LCG-2_7_0",
    "MPI-START",
    "MPI-START-1.3.0",
    "MPICH2",
    "MPI_NO_SHARED_HOME",
    "OPENMPI",
    "OPENMPI-1.2.7",
    "R-GMA",
    "SF00MeanPerCPU_790",
    "SI00MeanPerCPU_870"
};
GlueCEPolicyMaxWaitingJobs = 999999999;
GlueCECapability = "CPUScalingReferenceSI00=10";
GlueHostArchitecturePlatformType = "x86_64";
GlueCEImplementationVersion = "1.14.0";
GlueHostMainMemoryRAMSize = 2048;
GlueSubClusterLogicalCPUs = 2;
GlueForeignKey = {
    "GlueClusterUniqueID=emitestbed29.cnaf.infn.it",
    "GlueSiteUniqueID=INFN-CNAF_EMI",
    "GlueCEUniqueID=emitestbed29.cnaf.infn.it:8443/cream-pbs-demo"
};
GlueCEInfoJobManager = "pbs";
GlueHostBenchmarkSF00 = 1496;
GlueHostProcessorOtherDescription = "Cores=1";
GlueHostOperatingSystemRelease = 6.2;
GlueCEPolicyMaxObtainableCPUTime = 2880;
GlueCEUniqueID = "emitestbed29.cnaf.infn.it:8443/cream-pbs-demo";
GlueCEPolicyAssignedJobSlots = 2;
GlueCEInfoDataDir = "unset";
GlueCEPolicyMaxCPUTime = 2880;
GlueHostOperatingSystemName = "ScientificCERNSLC";
GlueCEStateRunningJobs = 0;
GlueSubClusterUniqueID = "emitestbed29.cnaf.infn.it";
GlueSubClusterTmpDir = "/tmp";
GlueCEPolicyMaxObtainableWallClockTime = 4320;
CloseStorageElements = {
    [
        GlueCESEBindSEUniqueID = "cvitbdpml.cern.ch";
        GlueCESEBindCEAccesspoint = "n.a";
    ]
};
```

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```
    GlueCESEBindMountInfo = "n.a";
    GlueCESEBindWeight = 0;
    GlueCESEBindCEUniqueID = "emitestbed29.cnaf.infn.it:8443/cream-pbs-demo";
    name = GlueCESEBindSEUniqueID;
    mount = GlueCESEBindCEAccesspoint
  ],
  [
    GlueCESEBindSEUniqueID = "lxbra1910.cern.ch";
    GlueCESEBindCEAccesspoint = "n.a";
    GlueCESEBindMountInfo = "n.a";
    GlueCESEBindWeight = 0;
    GlueCESEBindCEUniqueID = "emitestbed29.cnaf.infn.it:8443/cream-pbs-demo";
    name = GlueCESEBindSEUniqueID;
    mount = GlueCESEBindCEAccesspoint
  ]
};
]]
```

For sl6:

```
$ glite-ce-monitor-getevent --cert /tmp/x509up_u500 --key /tmp/x509up_u500 --topic CE_MONITOR --d
cert=/tmp/x509up_u500 - key=/tmp/x509up_u500
```

Event [0]:

```
  Message[0]=[[
    GlueCEInfoApplicationDir = "/opt/exp_soft";
    GlueHostProcessorModel = "XEON";
    GlueCEName = "demo";
    GlueCEHostingCluster = "emi-demo13.cnaf.infn.it";
    GlueCEPolicyPriority = 1;
    GlueHostProcessorVendor = "Intel";
    GlueHostProcessorClockSpeed = 2800;
    GlueCEStateFreeJobSlots = 0;
    GlueSubClusterPhysicalCPUs = 2;
    GlueCEStateEstimatedResponseTime = 2146660842;
    GlueHostNetworkAdapterInboundIP = false;
    GlueCEInfoDefaultSE = "lxbra1910.cern.ch";
    GlueSubClusterWNTmpDir = "/tmp";
    GlueCEStateStatus = "Production";
    GlueCEInfoHostName = "emi-demo13.cnaf.infn.it";
    GlueCEInfoContactString = "https://emi-demo13.cnaf.infn.it:8443/ce-cream/service";
    GlueCEStateTotalJobs = 0;
    GlueCESEBindGroupCEUniqueID = "emi-demo13.cnaf.infn.it:8443/cream-pbs-demo";
    GlueInformationServiceURL = {
      "ldap://emi-demo13.cnaf.infn.it:2170/mds-vo-name=res",
      "ldap://emi-demo13.cnaf.infn.it:2170/mds-vo-name=res",
      "ldap://emi-demo13.cnaf.infn.it:2170/mds-vo-name=res"
    };
    GlueCEAccessControlBaseRule = {
      "VO:dteam",
      "VOMS:/testers.eu-emi.eu/Role=pilot",
      "VO:testers.eu-emi.eu"
    };
    GlueHostOperatingSystemVersion = "Beryllium";

    GlueCEStateWaitingJobs = 444444;
    GlueClusterService = {
      "emi-demo13.cnaf.infn.it:8443/cream-pbs-demo"
    };
    GlueCEPolicyMaxRunningJobs = 999999999;
    GlueCEInfoGatekeeperPort = 8443;
    GlueCEPolicyPreemption = 0;
    GlueCEPolicyMaxTotalJobs = 999999999;
    GlueCEInfoLRMSVersion = "2.5.7";
    GlueClusterUniqueID = "emi-demo13.cnaf.infn.it";
    GlueCEInfoTotalCPUs = 2;
```


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```
GlueClusterName = "emi-demo13.cnaf.infn.it";
GlueCESEBindGroupSEUniqueID = {
    "lxbra1910.cern.ch",
    "cvitbdpml.cern.ch"
};
GlueHostBenchmarkSI00 = 1286;
GlueChunkKey = "GlueClusterUniqueID=emi-demo13.cnaf.infn.it";
GlueCEInfoLRMSType = "pbs";
GlueCEStateFreeCPUs = 2;
GlueCEPolicyMaxSlotsPerJob = 999999999;
GlueCEStateWorstResponseTime = 2146660842;
GlueHostNetworkAdapterOutboundIP = true;
GlueCEPolicyMaxWallClockTime = 4320;
GlueSubClusterName = "emi-demo13.cnaf.infn.it";
GlueCEImplementationName = "CREAM";
GlueHostMainMemoryVirtualSize = 4096;
GlueHostArchitectureSMPSize = 2;
GlueHostApplicationSoftwareRunTimeEnvironment = {
    "CNAF",
    "GLITE-3_0_0",
    "GLITE-3_1_0",
    "LCG-2",
    "LCG-2_1_0",
    "LCG-2_1_1",
    "LCG-2_2_0",
    "LCG-2_3_0",
    "LCG-2_3_1",
    "LCG-2_4_0",
    "LCG-2_5_0",
    "LCG-2_6_0",
    "LCG-2_7_0",
    "MPI-START",
    "MPI-START-1.3.0",
    "MPICH2",
    "MPI_NO_SHARED_HOME",
    "OPENMPI",
    "OPENMPI-1.2.7",
    "R-GMA",
    "SF00MeanPerCPU_790",
    "SI00MeanPerCPU_870"
};
GlueCEPolicyMaxWaitingJobs = 999999999;
GlueCECapability = "CPUScalingReferenceSI00=10";
GlueHostArchitecturePlatformType = "x86_64";
GlueCEImplementationVersion = "1.14.0";
GlueHostMainMemoryRAMSize = 2048;
GlueSubClusterLogicalCPUs = 2;
GlueForeignKey = {
    "GlueClusterUniqueID=emi-demo13.cnaf.infn.it",
    "GlueSiteUniqueID=INFN-CNAF_EMI",
    "GlueCEUniqueID=emi-demo13.cnaf.infn.it:8443/cream-pbs-demo"
};
...
...
```

Subscription with authentication test

Result: PASSED

For sl5:

Created a subscription towards an authenticated client:

```
$ glite-ce-monitor-subscribe --key /tmp/x509up_u500 --cert /tmp/x509up_u500 --topic CE_MONITOR --
SubscriptionID=[uuid-1335971444743]
```

Subscription with authentication test

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Started a consumer on that client and verified that the messages arrive:

```
$ glite-ce-monitor-consumer --cert /tmp/x509up_u500 --key /tmp/x509up_u500 9988
Socket connection successful on port 9988 master socket 3
Accepting connection ...
tmp=
dest::ffff:131.154.100.61
Wed May 2 17:11:07 2012
- 1: accepted connection from IP=131.154.100.61 (emitestbed29.cnaf.infn.it)
Event Producer=CE Sensor
Event ID      =-1
Topic [CE_MONITOR]
  Dialect [ISM_CLASSAD_GLUE_1.2]
>>> Event #0 - Dumping messages:
```

```
Event #0 - Message #0
[
  GlueCEInfoApplicationDir = "/opt/exp_soft";
  GlueHostProcessorModel = "XEON";
  GlueCEName = "demo";
  GlueCEHostingCluster = "emitestbed29.cnaf.infn.it";
  GlueCEPolicyPriority = 1;
  GlueHostProcessorVendor = "Intel";
  GlueHostProcessorClockSpeed = 2800;
  GlueCEStateFreeJobSlots = 0;
...
...

```

For sl6:

Created a subscription towards an authenticated client:

```
$ glite-ce-monitor-subscribe --key /tmp/x509up_u500 --cert /tmp/x509up_u500 --topic CE_MONITOR --
SubscriptionID=[uuid-1336120522529]
```

Started a consumer on that client and verified that the messages arrive:

```
$ glite-ce-monitor-consumer --cert /tmp/x509up_u500 --key /tmp/x509up_u500 8988
Socket connection successful on port 8988 master socket 3
Accepting connection ...
tmp=
dest::ffff:131.154.101.194
Fri May 4 10:35:23 2012
- 1: accepted connection from IP=131.154.101.194 (emi-demo13.cnaf.infn.it)
Event Producer=CE Sensor
Event ID      =-1
Topic [CE_MONITOR]
  Dialect [ISM_CLASSAD_GLUE_1.2]
>>> Event #0 - Dumping messages:
```

```
Event #0 - Message #0
[
  GlueCEInfoApplicationDir = "/opt/exp_soft";
  GlueHostProcessorModel = "XEON";
  GlueCEName = "demo";
  GlueCEHostingCluster = "emi-demo13.cnaf.infn.it";
  GlueCEPolicyPriority = 1;
  GlueHostProcessorVendor = "Intel";
  GlueHostProcessorClockSpeed = 2800;
  GlueCEStateFreeJobSlots = 0;
  GlueSubClusterPhysicalCPUs = 2;
  GlueCEStateEstimatedResponseTime = 2146660842;
  GlueHostNetworkAdapterInboundIP = false;
  GlueCEInfoDefaultSE = "lxbra1910.cern.ch";
  GlueSubClusterWNTmpDir = "/tmp";

```

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```
GlueCEStateStatus = "Production";
GlueCEInfoHostName = "emi-demo13.cnaf.infn.it";
GlueCEInfoContactString = "https://emi-demo13.cnaf.infn.it:8443/ce-cream/service";
GlueCEStateTotalJobs = 0;
GlueCESEBindGroupCEUniqueID = "emi-demo13.cnaf.infn.it:8443/cream-pbs-demo";
GlueInformationServiceURL = {
    "ldap://emi-demo13.cnaf.infn.it:2170/mds-vo-name=res",
    "ldap://emi-demo13.cnaf.infn.it:2170/mds-vo-name=res",
    "ldap://emi-demo13.cnaf.infn.it:2170/mds-vo-name=res"
};
GlueCEAccessControlBaseRule = {
    "VO:dteam",
    "VOMS:/testers.eu-emi.eu/Role=pilot",
    "VO:testers.eu-emi.eu"
};
GlueHostOperatingSystemVersion = "Beryllium";
GlueCEStateWaitingJobs = 4444444;
GlueClusterService = {
    "emi-demo13.cnaf.infn.it:8443/cream-pbs-demo"
};
GlueCEPolicyMaxRunningJobs = 999999999;
GlueCEInfoGatekeeperPort = 8443;
GlueCEPolicyPreemption = 0;
GlueCEPolicyMaxTotalJobs = 999999999;
GlueCEInfoLRMSVersion = "2.5.7";
GlueClusterUniqueID = "emi-demo13.cnaf.infn.it";
GlueCEInfoTotalCPUs = 2;
GlueClusterName = "emi-demo13.cnaf.infn.it";
GlueCESEBindGroupSEUniqueID
..
...
```

Subscription without authentication test

Result: PASSED

For sl5:

Created a subscription towards a non secure client:

```
$ glite-ce-monitor-subscribe --key /tmp/x509up_u500 --cert /tmp/x509up_u500 --topic CE_MONITOR --
SubscriptionID=[uuid-1335971870144]
```

Started this non authenticated consumer and verifies that it receives messages:

```
$ glite-ce-monitor-consumer 9999
Socket connection successful on port 9999 master socket 3
Accepting connection ...
Wed May 2 17:17:52 2012
- 1: accepted connection from IP=131.154.100.61 (emitestbed29.cnaf.infn.it)
Event Producer=CE Sensor
Event ID      =-1
Topic [CE_MONITOR]
  Dialect [ISM_CLASSAD_GLUE_1.2]
>>> Event #0 - Dumping messages:

Event #0 - Message #0
[
  GlueCEInfoApplicationDir = "/opt/exp_soft";
  GlueHostProcessorModel = "XEON";
  GlueCENAME = "demo";
  GlueCEHostingCluster = "emitestbed29.cnaf.infn.it";
  GlueCEPolicyPriority = 1;
  GlueHostProcessorVendor = "Intel";
```

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```
GlueHostProcessorClockSpeed = 2800;  
GlueCEStateFreeJobSlots = 0;  
GlueSubClusterPhysicalCPUs = 2;  
...
```

For sl6:

Created a subscription towards a non secure client:

```
$ glite-ce-monitor-subscribe --key /tmp/x509up_u500 --cert /tmp/x509up_u500 --topic CE_MONITOR --  
SubscriptionID=[uuid-1336120959953]
```

Started this non authenticated consumer and verifies that it receives messages:

```
$ glite-ce-monitor-consumer 8899  
Socket connection successful on port 8899 master socket 3  
Accepting connection ...  
Fri May 4 10:42:39 2012  
- 1: accepted connection from IP=131.154.101.194 (emi-demo13.cnaf.infn.it)  
Event Producer=CE Sensor  
Event ID =-1  
Topic [CE_MONITOR]  
Dialect [ISM_CLASSAD_GLUE_1.2]  
>>> Event #0 - Dumping messages:  
  
Event #0 - Message #0  
[  
  GlueCEInfoApplicationDir = "/opt/exp_soft";  
  GlueHostProcessorModel = "XEON";  
  GlueCEName = "demo";  
  GlueCEHostingCluster = "emi-demo13.cnaf.infn.it";  
  GlueCEPolicyPriority = 1;  
  GlueHostProcessorVendor = "Intel";  
  GlueHostProcessorClockSpeed = 2800;  
  GlueCEStateFreeJobSlots = 0;  
  GlueSubClusterPhysicalCPUs = 2;  
  GlueCEStateEstimatedResponseTime = 214666084  
  ...
```

Unsubscription test

Result: PASSED

Cancelled a previously created subscription and verified that the consumer doesn't receive anymore messages:

For sl5:

```
$ glite-ce-monitor-unsubscribe --key /tmp/x509up_u500 --cert /tmp/x509up_u500 --id uuid-133597144  
$
```

For sl6:

```
$ glite-ce-monitor-unsubscribe --key /tmp/x509up_u500 --cert /tmp/x509up_u500 --id uuid-133612052  
$
```

Regression tests

<https://savannah.cern.ch/bugs/?78075>

Result: PASSED

Verified that there aren't spurious characters in the log4j conf file:

```
# cat /etc/glite-ce-monitor/log4j.properties
log4j.rootLogger=info, fileout
log4j.logger.httpclient.wire.content=off
log4j.logger.org.glite.voms.PKIStore=off
log4j.appender.fileout=org.apache.log4j.RollingFileAppender
log4j.appender.fileout.File=/var/log/cemonitor/glite-ce-monitor.log
log4j.appender.fileout.MaxFileSize=1000KB
log4j.appender.fileout.MaxBackupIndex=20
log4j.appender.fileout.layout=org.apache.log4j.PatternLayout
log4j.appender.fileout.layout.ConversionPattern=%d{dd MMM yyyy HH:mm:ss,SSS} %c - %m%n
```

<https://savannah.cern.ch/bugs/?80401>

Result: PASSED

See functionality test above

<https://savannah.cern.ch/bugs/?80405>

Result: PASSED

```
# grep -i backend /etc/glite-ce-monitor/cemonitor-config.xml
    backendLocation="/var/cemonitor"
```

<http://savannah.cern.ch/bugs/?83297>

Result: PASSED

See Glue 2 test above. Verified in particular that the attributes `MiddlewareName`, `MiddlewareVersion`, `ImplementationName`, `ImplementationVersion` are properly published

<http://savannah.cern.ch/bugs/?85183>

Result: PASSED

See functionality tests above Verified that in the:

```
accepted connection from IP=
```

the IP name is correct

Integration tests

The system functionality tests have been performed also with CEMon configured to use ARGUS

-- MassimoSgaravatto - 2012-05-02

This topic: CEMon > Cemon1140TestingReport
Topic revision: r3 - 2012-05-14 - MassimoSgaravatto



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