

New Message Format

Job Records

A message can contain multiple records. Different records must be separated by the end of record marker (%%).

Description

Header APEL-individual-job-message: v0.1

The header only appears once at the top of each message. It defines the type of record and the schema version.

Key	Value	Description	Mandatory
Site	String	GOCDB/official name of the site where the job run	Yes
SubmitHost	String	Head node where the job was submitted	Yes
LocalJobID	String	Batch System Job ID	Yes
LocalUserID	String	Local username	
GlobalUserName	String	User's X.509 DN	
UserFQAN	String	User's VOMS attributes	
WallDuration	int	Wallclock time for the job (seconds)	Yes
CpuDuration	int	CPU time for the job (seconds)	Yes
Processors	int	Number of processors	
NodeCount	int	Number of nodes	
StartTime	int	Start time of the job (epoch)	Yes
EndTime	int	Stop time of the job (epoch)	
MemoryReal	int	Memory consumed by job (kbytes)	
MemoryVirtual	int	Virtual memory consumed by job (kbytes)	
ScalingFactorUnit	String	HepSpec SpecInt custom	Yes
ScalingFactor	double	Value of either HepSpec, SpecInt or custom	Yes

End of record: %%

Notes:

If ScalingFactorUnit/Value is not available it should be set to:

- ScalingFactorUnit = 'custom'
- ScalingFactor = 1

If GlobalUserName or UserFQAN is not published, the value for these fields on the server will be set to 'None'.

Example Message

```
APEL-individual-job-message: v0.1
Site: RAL-LCG2
SubmitHost: ce01.ncg.ingrid.pt:2119/jobmanager-lcgsge-atlasgrid
LocalJobID: 31564872
LocalUserID: atlasprd019
GlobalUserName: /C=whatever/D=someDN
UserFQAN: /voname/Role=NULL/Capability=NULL
WallDuration: 234256
CpuDuration: 2345
Processors: 2
NodeCount: 2
StartTime: 1234567890
EndTime: 1234567899
MemoryReal: 1000
MemoryVirtual: 2000
ScalingFactorUnit: SpecInt2000
ScalingFactor: 1000
%%
...another job record...
%%
```

Summary Job Records

Description

Header: APEL-summary-job-message: v0.1

The header only appears once at the top of each message. It defines the type of record and the schema version.

Key	Value	Description	Mandatory
Site	String	GOCDB/official name of the site where the job run	Yes
Month	int	Month of summary	Yes
Year	int	Year of summary	Yes
GlobalUserName	String	User's X.509 DN	
VO	String	User's VO	
Group	String	User's VOMS Primary group	
Role	String	User's VOMS Primary role	
WallDuration	int	clock time for the job	Yes
CpuDuration	int	CPU time for the job	Yes
NormalisedCpuDuration	int	Normalised CPU time for the job	Yes
NormalisedWallDuration	int	Normalised Wall clock time	Yes
NumberOfJobs	int	Total number of jobs	Yes

End of record: %%

Notes:

If GlobalUserName, VO, Role or Group are not published, the value for these fields on the server will be set to 'None'.

A single job record must only be included in one summary record to avoid duplication of data.

Example Message

```
APEL-summary-job-message: v0.1
Site: RAL-LCG2
Month: 3
Year: 2010
GlobalUserName: /C=whatever/D=someDN
VO: atlas
Group: /atlas
Role: Role=production
WallDuration: 234256
CpuDuration: 2345
NormalisedCpuDuration: 2500
NormalisedWallDuration: 244435
NumberOfJobs: 100
%%
...another summary job record...
%%
...
%%
```

Summary Sync Records

Header: APEL-sync-message: v0.1

The header only appears once at the top of each message. It defines the type of record and the schema version.

Description

Header: APEL-sync-message: v0.1

The header only appears once at the top of each message. It defines the type of record and the schema version.

Key	Value	Description	Mandatory
Site	String	GOCDB/official name of the site where the job run	Yes
NJobs	int	Total number of jobs for that month	Yes
NDays	int	Number of days between earliest and latest job in month	Yes

RecordStart	date	Date of the earliest job in the month	Yes
RecordEnd	date	Date of the latest job in the month	Yes

End of record: %%

Notes:

Each record indicates the number of jobs run on the site per month. This data is used to create the Nagios apel-sync test.

Example Message

```
APEL-sync-message: v0.1
Site: RAL-LCG2
NJobs: 3479
NDays: 29
RecordStart: 2010-01-02
RecordEnd: 2010-01-27
```

```
%%
...another sync record...
%%
...
%%
```