



# Logging facility

For the DIRAC middleware

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# Statement

## gLogger

*gLogger* is the current logging solution within *DIRAC*:

- allows developers to **create messages** in the middleware.
- created a longtime ago, old, and **out of date**.

## logging

We are trying to create a new solution based on the standard Python library *logging* in order to replace *gLogger*. The purpose is:

- **minimise maintenance**.
- follow a **standard**.
- provide facilities to **centralize logs** and set up analysis tools.

*logging* will have to reproduce all functionalities of the *gLogger*.

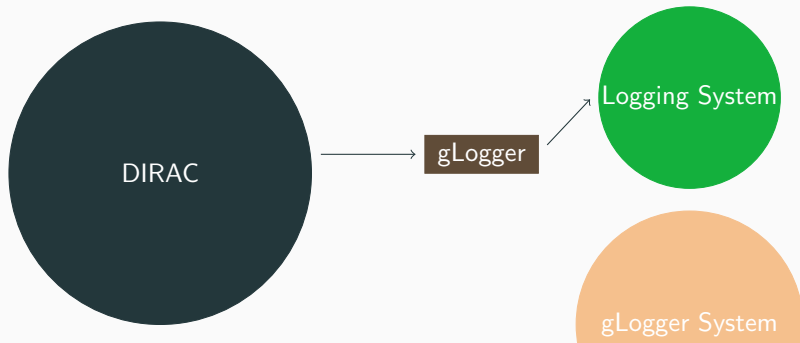
# Current situation

## logging wrapper

After a comparative study between *gLogger* and *logging*, we chose to replace transparently *gLogger* using *logging* through a wrapper:

- nothing to change in the existing code for developers.
- only some minor behaviour changes.

Currently, we are building this wrapper.



# Central Logging Infrastructure

## Purpose

One of the purpose of *logging* is to facilitate the creation of a central logging infrastructure:

- gather all logs in one place.
- provide tools for analysis, alerts and monitoring.

## Solutions provided by logging

- 1 We can easily send logs to *Logstash* and *ElasticSearch*.
- 2 We can also easily send them to *RabbitMQ* where the logserver can get them.

**Thanks for your attention**