



## CERN Control and Monitoring Framework — C2MON

### What does it do?

C2MON is a Java tool-kit for building highly complex, distributed and fail-safe monitoring solutions. It contains many useful features such as historical metric persistence and browsing, command execution and alerting.

### How does it work?

The C2MON platform uses a 3-tier architecture.

The data acquisition (DAQ) layer provides solutions for acquiring data from a number of protocols/hardware.

The server layer is designed to keep the latest sensor value In-Memory. Internally, the server is broken down into a number of modules, including the possibility to write optional modules providing extra functionalities.

Client layer communication is done via a provided C2MON Client API,

### Unique characteristics

The modular design, allows custom extensions and horizontal scalability at all layers.

The platform supplies all core functionalities of a monitoring system while being extensible and adaptable to a wide variety of monitoring requirements.

### Limitations or constraints

Since its a Open Source Platform support service is limited.

### Originally designed to be used for:

It has been developed for CERN's demanding infrastructure monitoring needs to prevent data burst situations and ensure network stability and reliability.

### Questions related to this technology

Who is using it?

## References

<https://kt.cern/technologies/cern-control-and-monitoring-framework-%E2%8094-c2mon>

<http://c2mon.web.cern.ch/c2mon/docs/latest/>

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