



'Feel
your Airport'

Primary Cable is the Backbone

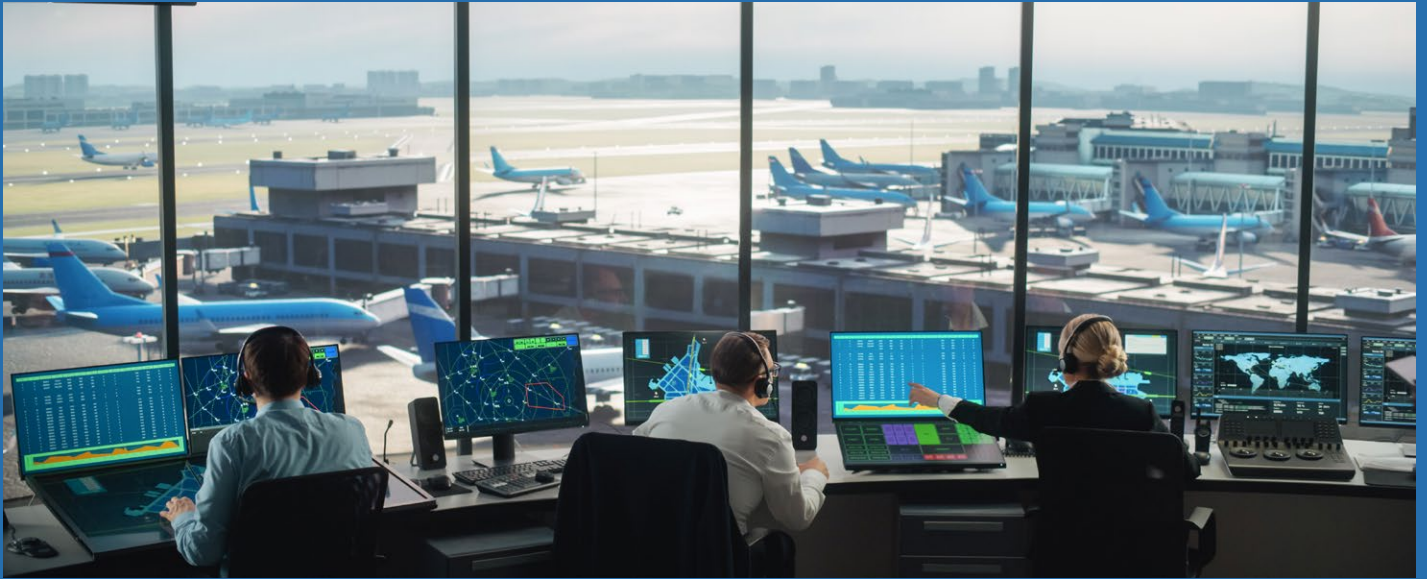
CMS by GRP

AGL Control and Monitoring System

Introduction

With a more than 20 years strong experience in AGL systems, GRP has developed **tailor sized solutions for airport AGL control and monitoring systems.**

From a simple PLC based design suited for small runways to an extended double server based solutions with full redundancy suited for major airport with demanding operation conditions, GRP will adapt its design in order to match **your specific requirement** and provide your ATC with a friendly interface to control your Airfield Ground Lighting installation.



Standards

- **ICAO**
Aerodrome Design Manual,
Annex 14, Volume 1
- **EASA**
CS-ADR-DNS Issue 5
- **UK CAA**
CAP 168

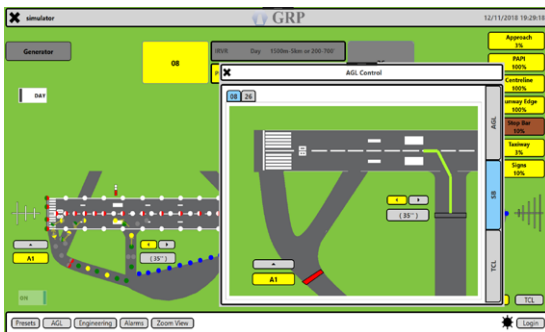
Functionalities

- **AGL control and monitoring** (Lighting configuration, brightness, alarms, ...)
- **ATC operation interface.**
- Maintenance logs and equipment status (CCR, lights, circuit selectors, UPS, ...).
- Stop bar management.
- **AGL power supply management** (generators, UPS, ...).
- **Real time operational alarms.**
- Aircraft/vehicle detection.
- Runway Status lights.
- RETIL management.
- Aircraft guidance.
- Weather conditions.
- ...

CMS-GRP is a fully integrated AGL control and monitoring solution.

This **scalable system** will allow operation and maintenance to have full access and control of its AGL installation, involving:

- Lights.
- Constant current regulators.
- Circuits selectors.
- Generators.
- RVR measurement system.
- Weather station.
- Etc...



The system will provide functions such as:

- **ATC AGL control interface** (touch screens).
- Ground lighting brightness control.
- Automatic/manual LVP AGL configuration.
- Automatic/manual AGL QFU configuration.
- Stop bar control and monitoring.
- Routing configuration.
- Aircraft guidance.
- **Alarms and warning.**
- **Operation logs.**
- **Field maintenance feedback (insulation, power consumption,..).**
- **Maintenance status and logs.**
- Etc...



Features

Depending on the local requirements, the equipment involved in a CMS-GRP system may vary. Its structure may either be based on PLCs or preferably on servers, that will allow **enhances performances and redundancy**.

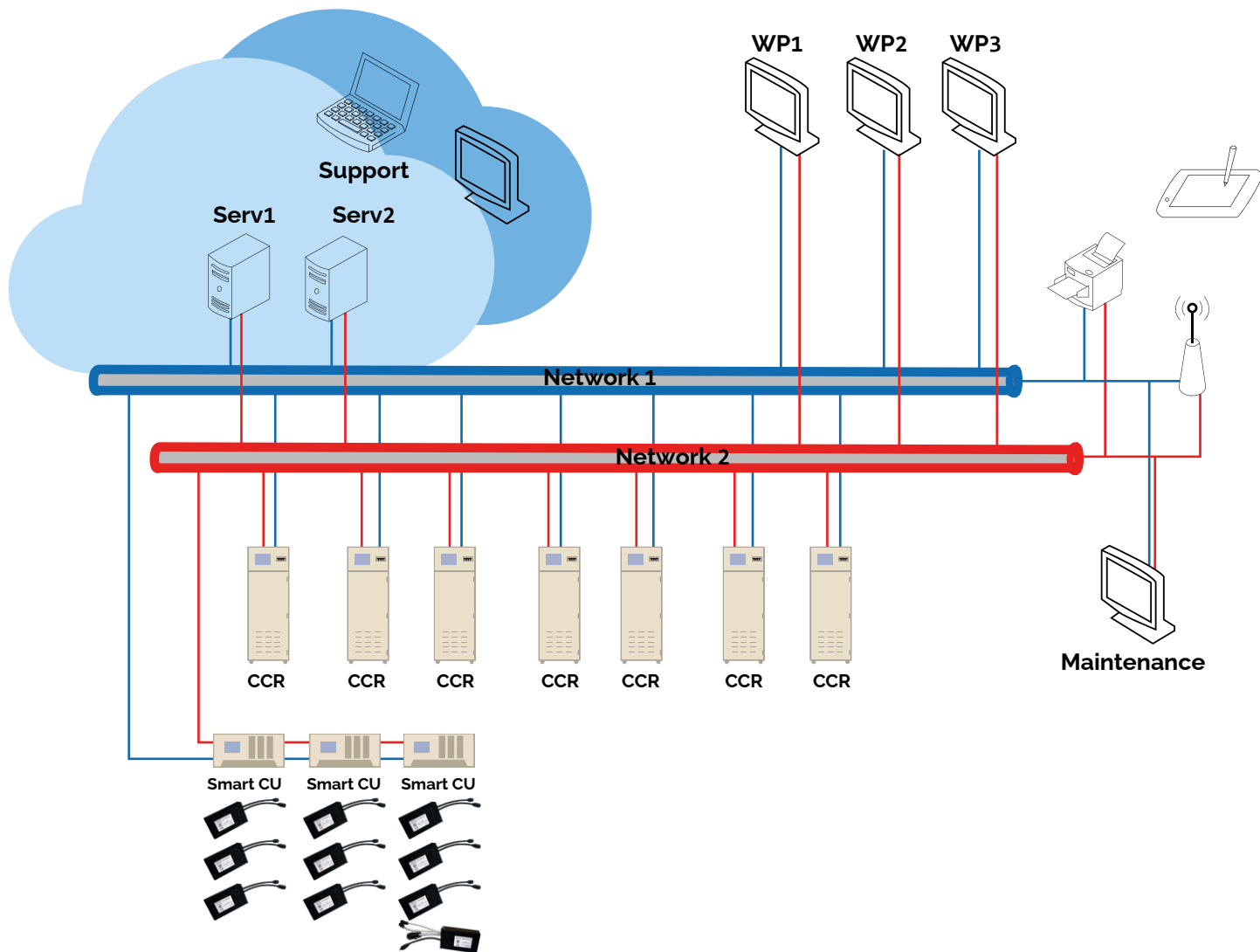
A typical CMS-GRP system would include the following equipment:

- PLCs.
- Touch screen PC at ATC work position (can be 1 or more).
- Server (single, double with hot redundancy, ...).
- UPS.
- Ethernet communication network.
- Double redundant communication network (option).
- Maintenance work station.
- Log Printer.
- Substation interface cabinet.
- Operation/maintenance rugged tablet.

Other systems or equipment could be added depending on the sophistication level required by airport operation, such as:

- **Single lamp control and monitoring system.**
- AGL maintenance system.
- ILS.
- Weather information.
- ...

CMS-GRP, **can also be** designed as a part of an AGL control and monitoring system in order to extend its functionality and be **integrated into an existing solution**.



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