ICMS
Integrated Control and Monitoring System
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SYSTEM DESCRIPTION
ICMS is an integrated control and monitor system that automates the interface to navigation and lighting aids equipment in an airport facility. ICMS accomplishes this automation in a No-Single-Point-of-Failure architecture. This means that any component of ICMS can fail and ICMS will report the loss of that component and continue to function. The interface to the remote equipment is accomplished with redundant industrial grade computers, called Concentrators. These Concentrators are linked to numerous ICMS workstations over dual redundant LANs. They collect status data from the Concentrators and present it to the user in a Graphical User Interface (GUI). All commands sent to the remote equipment and status changes received from the remote equipment are time and date stamped and logged into an Archive File to achieve a “Black Box” on the ground feature. The installation and use of ICMS requires no modification to the remote equipment. ICMS can easily be modified to support any existing and future NAVAIDS equipment. ICMS has been baselined by the FAA and is currently under configuration management control. ICMS can be configured to meet the needs of all airports from small (local and regional) to large international airports.

ICMS FEATURES
- Distributes Status and Control of remote equipment to multiple workstations throughout the facility
- Produces user interface to equipment through touch screen displays
- Graphical User Interface for consistent interface to all remote equipment
- Industry standard TCP/IP protocol for communication
- Failsafe redundant architecture
- Supports WAN links to remote sites
- Maximizes the utilization of tower real estate by reducing the number of individual display panels
- Archive capability for all user commands and status changes

NAVAIDS EQUIPMENT SUPPORTED
- ILS – Mark 1A, 1C, 1E, 1F
- ILS – Mark 10
- ILS – Mark 20
- ILS – Mark 20A
- ILS – ASII
- DME – 415 SE
- VOT
- NDB/NDB-RF
- VOR
- TACAN
- GRN-27

VISAIDS EQUIPMENT SUPPORTED
- MALSR
- ALSF-1/SSALR
- ALSF-2/SSALR
- PAPI
- REIL

WEATHER EQUIPMENT SUPPORTED
- RVR
- ENGINE GENERATORS