

# DCS - 5020

## Integrated Digital Console System



### FEATURES

- Digital communications console system.
- IP connected dispatch positions.
- Integrates telephone call handling and radio dispatch.
- Resilient distributed architecture.
- 30 definable ports for lines and operators to a maximum of 16 operators.
- Supports and integrates analogue radio, MPT 1327, NEXEDGE®, FleetSync®, iDEN®, MOTOTRBO™, and TETRA voice and data.
- Screen-based, configurable Graphical User Interface (GUI) with intelligently integrated call queuing feature and caller ID aliasing.
- Multilingual operator presentation.
- Range of operator and audio interface options.

### INTRODUCTION

The DCS-5020 Digital Console System is designed to meet the needs of the small to medium-sized operations control room. Combining telephony and both digital and analogue radio control to either direct wired or IP connected dispatch positions, the DCS-5020 meets a range of professional applications for public safety, transportation, utilities, oil, gas, mining and private industry. Offering many of the features of a traditional console system, the DCS-5020 is based on a distributed architecture which removes the requirement for a central switch, and also allows IP connected dispatch positions to be placed anywhere on an associated IP Network. This ensures a fully scalable solution down to a single operator position and provides a high level of system resilience for mission critical applications.

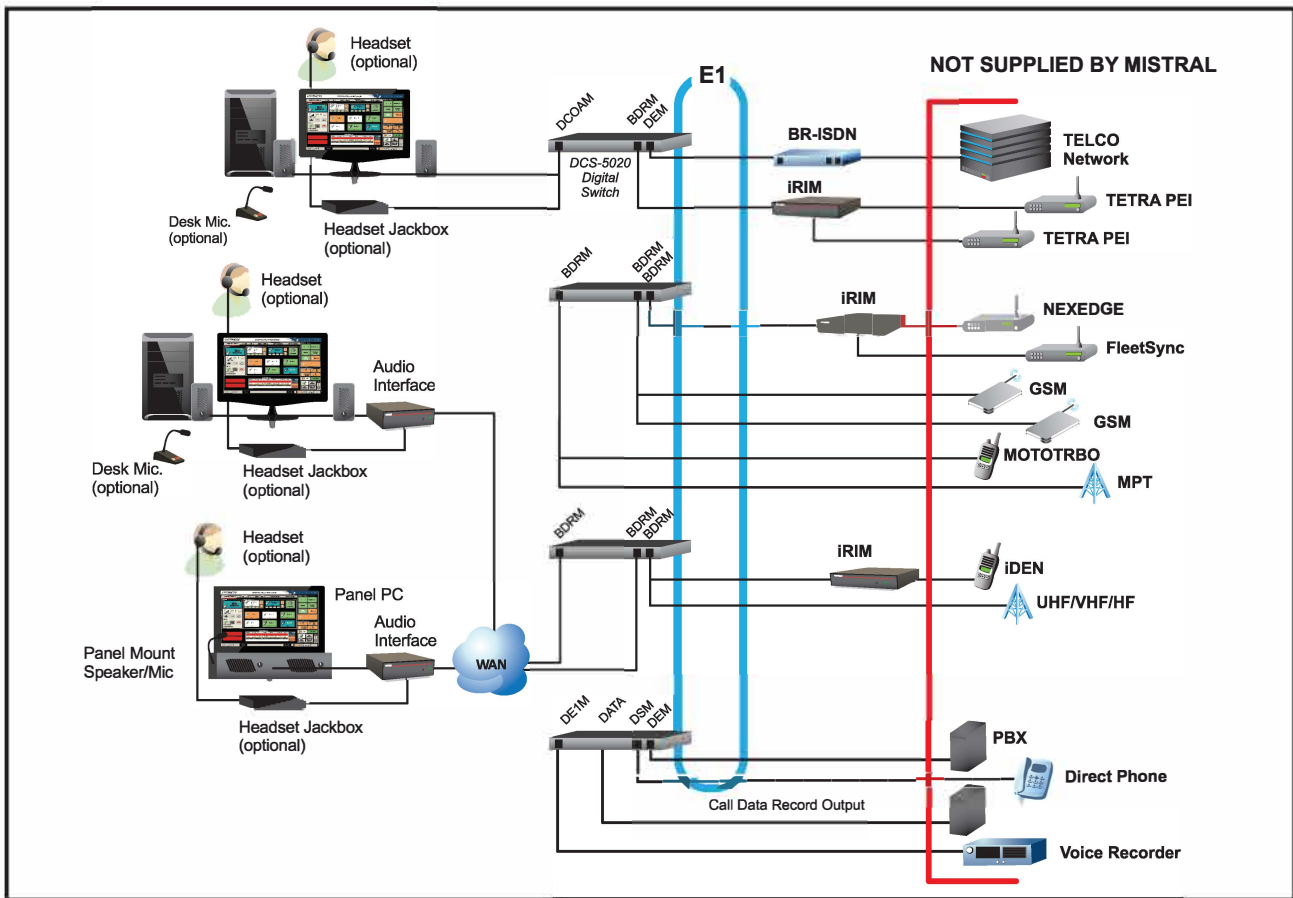
### DIGITAL SWITCH - MODULAR DESIGN

The required interfaces determine the choice of plug-in modules in the Digital Switch. Modules are currently available for the following:

- Analogue subscriber line or PABX extension level (or GSM networks with suitable gateway).
- Direct telephone connection or hot line circuits.
- Conventional radio via 2/4-wire direct or Tone Remote Control (TRC), 5/6 Tone or FleetSync.
- MPT 1327 via MAP27 interface or direct connect to Zetron MPT infrastructure.
- Digital trunked Radio - TETRA (compatible with Motorola, EADS/Nokia, Sepura), iDEN, NEXEDGE and MOTOTRBO.
- HF radio via an interface to Codan transceivers.
- Analogue or E1 interface to long term voice logger.
- Serial or NTP interfacing to Real Time Clock.

System installation and configuration is through the Digital Console Management System (DCMS) software. DCMS is used to set levels, download new firmware, and monitor the health of the system. Full time connection is required only if continuous monitoring is desired.

## SAMPLE SYSTEM ARCITECTURE



## APPLICATIONS

The combination of telephony, conventional radio, MPT, and Digital Radio supports a range of console applications.

### Small Control Rooms

The DCS-5020 is an economic solution for small control rooms for public safety, oil and gas, mining, events, industry, ports and harbours. It brings many of the features of a large control centre into the smaller control room environment. The integrated radio and telephone functionality allows the operator to perform both call taking and dispatch functions. It can be employed as an incident control room without impacting on the role of the primary control centre.

### Mobile Command Centre

Mobile command centres can be established for special events, accidents or other major incidents by deploying the DCS-5020 as a transportable package. The operator can have access to multiple radio working groups, conventional radio channels or telephone circuits to manage incident personnel.

For truly transportable applications, the telephone ports may be fitted with GSM terminals for mobile telephony service. Digital radio connectivity is done through a number of fixed digital radios rather than direct to the infrastructure, providing a quick deployable solution.



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