# DPS (Dispatching Phone System)

## Overview

3IC Dispatch Phone System (DPS) serves dedicated phone communication between NDC (National Dispatching Center: KPX in Korea) and power generation plants. Via DPS, Power Plant receives dispatch command from NDC and makes dispatch related close communication with NDC.

DPS has independent recording board and server installed in the system. It provides better reliability of recorded data and easier & faster system maintenance than integrated industrial PC type system.

DPS is consisted of main system, back-up system, line switch, digital voice recording system, and operation consoles (key phones).

### Main System

Connected to dedicated voice line and linked to operation console and line switch, this system performs line exchange functions. When any fault occurs with main system, it shall be automatically switched to backup system. And when the main system is recovered to normal, it shall be automatically switched back to main system.

### Back-up System

Back-up system is consisted of the same hardware and software as those of main system. When fault occurs with main system, connection shall be automatically switched to this backup system via line switch. And when the main system is recovered to normal, it shall be automatically switched back to main system.

### Line Switch

Line Switch constantly monitors operation status of main and backup System. When detecting any fault with dedicated voice line, it performs line switching between main and back-up system.

### Voice Recording System (VRS)

All voice communications shall be recorded real-time. Every function provided by commercial recorder such as replaying recorded data, shall also be provided by this VRS.

### Operation Console

This Operation Console dedicated to DPS, shall provide all the functions which are provided by commercial key phones

# Functions

### High Performance & High Reliability

- Monitoring operation status of main & back-up system real-time
- Automatic line switching in case of any fault detected
- Surge arrester installed to protect the system from lightning or over-current

### Easy to Use

- Equipped with all the commercial key phone system functions
- GUI based Operation Screens
- Various Voice Codec supported (G.711/G.726/G.729A/G.723.1)

### Easy to Manage and Maintain

- As a measure against system failure, each channel is equipped with memory to temporarily save recorded data for 30 minutes.
- Designed in hot-swappable plug-in, the system can have module exchange or line expansion without power-off.

# Features

### Hardware Modulated

- With hot-swapping, capacity can be expanded by module, and functions can be modified without suspending service.

### QoS (Quality of Service)

- Provide high voice quality IP phone functions

### Integrated Communication Environment

- Voice communication service
- Data service with LAN / WAN modules

### TTS (Text to Speech) response supported

### ARS (Automatic Response Service) supported

### 19" Rack Specifications complied

### Easy to Install and Maintain

· LED equipped in front of the system to annunciate any system fault

**Various Recoding Conditions Supported**

· Different Conditions can be set including Automatic, Manual, Stop, DTMF, Voice Recognition
  and ID type

**Securing Data Security and Reliability with Dual Configuration**

**Real-time Self-Monitoring**

**Centralized Management (CMS) via TCP/IP**

## Configuration