KENWOOD

NXDN™ DMR

Scalable AVL/Dispatch Software Can Track, Locate, and Manage Subscriber Units and Fleets, Both Indoors and Out.

For NXDN and DMR digital protocols and radio systems, including DMR Trunking 2.5 (not in EU)
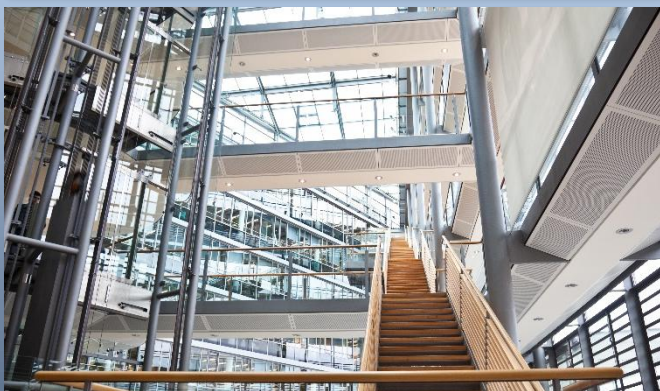
Dispatch

Windows-based software to start a dispatch system for fleet management and businesses from retail to healthcare by controlling multiple subscriber units on the same network

AVL

Simple or multi-client automatic vehicle location or AVL system can be created that can be scaled to meet diverse user requirements from transportation and logistics to public works.

Indoor Location

The latest Indoor Location license using Bluetooth® technology can locate radios on a map by transmitting BLE Data from and to a beacon installed in the building.
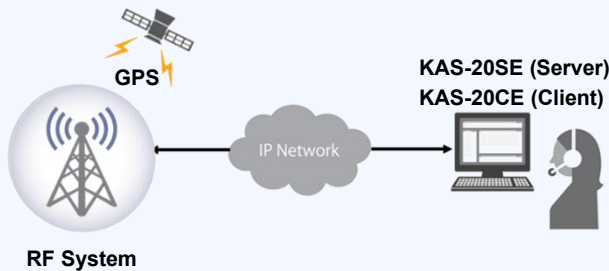
Highlights

- Flexible and scalable: Low-cost initial package is upgraded by adding user-selectable optional licenses
- **NEW!** Dispatcher can choose to monitor same or different audio received from left and right speakers using Selected Tile or unselected Tiles.
- Supports diverse digital radio systems & IP interfaces including DMR Trunking 2.5 (not in EU)

- Server stores all communications log and data (e.g. GPS, status, messages, audio, etc.)
- Server managed user levels, configurations, permissions: Register up to 30 users with 10 simultaneous logins
- Import/export asset lists such as unit, group, and fleet via TSV format; Manual/auto asset list creation

AVL/Dispatch

- Location Management for up to 1,500 subscriber units
- Auto & manual polling, Lone worker, GPS time mark, Geo Fencing, Track units, Go to home position, etc.
- Position log & play

- Multi-role dispatching functions including IP Voice dispatch console, AVL/fleet monitoring and mapping, Call log/event sharing
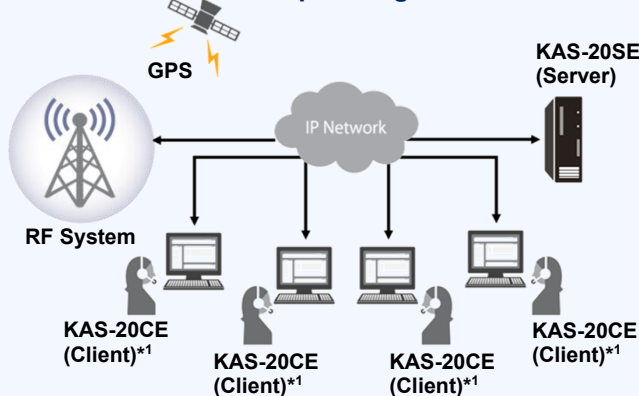- Exports to KML or CSV format

■ A Simple, PC-based Standalone Location Management/AVL and Dispatching

GPS

RF System

IP Network

KAS-20SE (Server)
KAS-20CE (Client)

KAS-20SE (server)/KAS-20CE (client) with paid license(s)
- ◆ Location Management License   KWD-20C-LM
- ◆ Voice Dispatch License   KWD-20C-VD
- ◆ Voice Path License   KWD-20C-VP

■ Multi-client AVL/Voice Dispatching with Remote Server; Accepts up to 8 RF systems and 10 clients

GPS

RF System

IP Network

KAS-20SE (Server)

KAS-20CE (Client)*1
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KAS-20SE (server) with paid license
- ◆ Multi-client License   KWD-20S-MC

KAS-20CE (client) with paid license(s)*1
- ◆ Location Management License   KWD-20C-LM
- ◆ Voice Dispatch License   KWD-20C-VD

*1: A license is required for each client

Highly Optimized GUI

- Emphasis on maneuverability and functionality
- User-configurable call and patch windows
- Shortcut keys and configurable key bindings
- Map with editable unit icons, groups, and imported layers

- Track working radios right on the Building Floor Map
- Compatible with OpenStreet Map and scanned maps
- Switch image layers on/off via Additional Layer Window
- Image layers can be individually switched on or via Additional Layer Window

🔺 DISPATCH and AVL WINDOWS

Dispatch: List display window   **AVL: Unit operation (left), Emergency (right) windows**

Voice Recording/Playback

- Console to: Unit, Talkgroup/ Channel, Console calls
- Soft vocoder: Simultaneous processing up to 8 paths
- Voice recording and playback: Stores all voice in AMBE+2, plays back from log window, and exports voice data to MP3 format
- 3 configurable software patch group
- Configurable Call Box window: Put any individual, talk group, or console with priority; Adjustable volume/ mute per call box; UID/alias indicator; and Configurable color and size
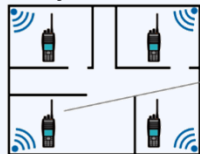
NEW! Indoor Location

Bluetooth®

- Location of radios inside a building can be tracked efficiently using BLE Beacon and BLE Gateway.
- 2 RF systems and a Bluetooth system to send BLE data to a location server
- IP and Serial connections enabled for an NXDN Conventional/Trunking or DMR Conventional console. Connectable repeaters and radios vary depending on the IP/Serial connection.
- Target radios for Indoor Location limited to portables
- Device location data is obtained in intervals or by an event (e.g. emergency).
- Geo Fencing, Map display of terminal in emergency, Text messaging, Status messaging, Stun/Kill, Exporting of communications log, positional data, Display of communication logs (Call log and Message log), Indoor and Outdoor maps, Auto polling, and Voice dispatching
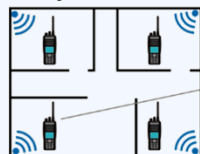
■ Indoor Location System

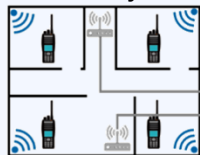The following diagrams are typical configurations of two RF systems and a Bluetooth system.

LEGEND
- BLE Beacon
- BLE Gateway

RF System #1: BLE Beacon + Subscriber + Base Station

Serial connection

RF System #2: BLE Beacon + Subscriber + Repeater System

- NXDN/DMR Conv
- NXDN Gen1 Trunking
- NXDN Gen2 Trunking
- KPG-1002GW
- IP Network

Bluetooth System: BLE Beacon+ Subscriber + BLE Gateway

Hub
IP Network

KAS-20SE (Server)

KAS-20CE Dispatch Client with Paid License(s)
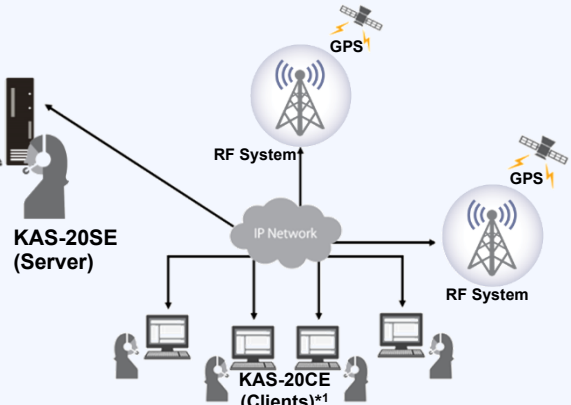- Indoor Location License **NEW**   KWD-

■ AVL/Voice Dispatch System

KAS-20SE: Dispatch Server with Paid License
- Trunking 2.5 **NEW**   KWD-20S-T25
- Multi-client License   KWD-20C-MC
- RF System   KWD-20S-RS

KAS-20SE/CE: Dispatch Server/ Dispatch Client
- Sample License **NEW**   KAS-20E-TE

GPS
RF System
GPS
IP Network
RF System

KAS-20CE (Clients)*1

KAS-20CE: Dispatch Client with Paid License*1
- DES License **NEW**   KWD-20C-DE
- Location Management License   KWD-20C-LM
- Voice Dispatch License   KWD-20C-VD
- Voice Path License   KWD-20C-VP

*1: A license is required for each client

🔺 INDOOR LOCATION MAP in AVL WINDOW and INDOOR LOCATION WINDOWS

Access Indoor Location map from AVL Window: Right-click a building in the AVL list pane, then choose "Select for Indoor Location Window" to open the Indoor Location window.

Indoor Location: Main window (left), Emergency window (right)

☐ COMPATIBILITY

Compatible digital radio systems & IP interfaces: Titles in red are **NEW.**

- **DMR Trunking 2.5 ****, DMR Tier II Conv, DMR Tier III Trunking with DMR IP Gateway KPG-1013GW
- NXDN Conv, Type-C Trunking Gen1 and Gen2 with IP Gateway KPG-1002GW,
- FleetSync, and **Indoor Location**

☐ SOFTWARE LICENSE

The KAS-20E can be customized and scaled by adding and authenticating software licenses.

Currently available licenses include Multi-client, Voice Recording, RF System, DMR Tier III, Location Management, Voice Dispatch, and Voice Path.

All of the existing licenses authenticated with the previous software KAS-20 can be used as is, even after upgrading to the new KAS-20E.

The following new licenses have been developed and are available.

NEW Licenses for the KAS-20E Server and Client

SOFTWARE		LICENSE	DESCRIPTION
Server	KAS-20SE	KWD-20S-T25	KAS-20E connected with DMR Trunking 2.5 system. ** Not yet applicable in Europe
Client	KAS-20CE	KWD-20C-IL	To use KAS-20CE for Indoor Location
		KWD-20C-DE *1	To use KAS-20CE for DES Function

*1: A license must be installed for each client and server application; however, if a PC is installed with both the client and server applications, then only one of the licenses (client or server) will be required for operation.

☐ SYSTEM REQUIREMENTS

	DISPATCH SERVER SOFTWARE KAS-20SE	DISPATCH CLIENT SOFTWARE KAS-20CE
Processor	8th Generation Intel Core i5 CPU or faster	
Operating System	Windows11 Windows Server 2025 Windows Server 2022 Windows Server 2019 Windows Server 2016	Windows11
Memory	8GB or above	
Hard Disk Space	50 GB or more free space	500 MB or more free space
Ethernet	1 or more Ethernet port / 100BASE-T or more	
COM Port	1 port or more	
Display	1024 x 768 or higher resolution	1920 x 1080 or higher resolution (23 inches and above recommended)
Microsoft .NET Framework	4.8 or later	
SQL Server	2022 / 2022 Express 2019 / 2019 Express *2 2017 / 2017 Express *2 2016 SP2 / 2016 SP2 Express *2	—
Input Device	Keyboard, Mouse	

*2: License available however, the server software KAS-20SE is not guaranteed to work.