As digital radios already operate over IP and gateways have historically been used to connect analog radios over IP networks, a question regularly arises about why you would need a gateway such as the DRG100 for digital radios. Below we discuss the Advantages.

## 1. Gateways Allow Radios with Point-to-Point Protocols to be Shared Amongst a Number of Operator Positions

For example the P25 DFSI protocol is NOT designed to be used by more than one console at a time. Without a Gateway (or a central server, like the DX-Altus server), only one console would be able to connect to a P25 DFSI base station.  A Gateway allows a single radio connection to be fanned out to multiple consoles.

## 2. Only ONE Vocoder is Required (and located in the Gateway) and Shared Amongst a Number of Users.

This presents significant cost savings when multiple users exist. If no Gateway existed you would need to pay for a vocoder on every operator position.

## 3. Gateways allow the Radio to be accessed simultaneously by a Mixture of Dispatch Consoles

For example, RediTALK users can easily upgrade to the higher featured DX-Altus or both products could be used in conjunction for redundancy applications.

## 4. The DRG100 Gateway provides Organizations with the Flexibility to Change Protocols

As the same device is used, organizations can change their radios to suit future demands and still continue use the DRG100 with only an update to the Firmware.

## 5. The DRG100 Gateway can be Upgraded or Changed to suit the Radio Protocol

This means that Resellers and System Integrators only need to be trained to sell and support ONE device.

## 6. Reduces the Cost and Complexity of the GUI by Loading Time Critical and Proprietary Functions to the Gateway

Changes in proprietary consoles are more easily managed and confined to the Gateway, meaning the GUI does not need to be upgraded. This significantly reduces cost and upgrade time when multiple users exist.

This also minimizes the processing required by the PC or Tablet.

## 7. The DRG100 Gateway offers High Network Functionality

Such as the ability to do conferencing and multicasting to suit the application and the IT environment.