DID YOU KNOW?

IDAS "Drop Link" can extend range by connecting multiple sites together with RF?

What is it?

When you need to connect multiple local repeater sites together via RF, it is called "Drop Link". "Drop" means the local repeat function and "Link" means the link to another repeater site. With the IDAS conventional IP network function, the original clear digital audio passes throughout the "Drop Link" system. It can extend your communications coverage and allow you to communicate as if it were a single site.

The "Drop Link" system allows the ability to add crossband capability without additional cost. The crossband "Drop Link" system allows interoperability between users in different frequency bands.

Benefits:

1. Creates a connection between two independent tower sites using RF instead of IP.
2. Behaves as if it were connected via IP
3. It is an excellent solution to link sites together where no IP is available.
4. Can be used as a temporary solution for increasing coverage as in Summer Festivals and Conventions.
5. Can easily be configured in place of attempting to secure assistance from an IT department, or where IP connectivity is at a premium.
6. Works with a larger systems where other repeaters may be linked together via IP already.
7. Gives mountain top sites the ability to join into the multi-site configuration when no IP is available.

Who can use this?

This application can be used by:

- Private system operators
- Transportation companies
- College campuses
- Large multi-location companies
- Multi-jurisdictional agencies
- Multi-site Manufacturing
- Local government
- Delivery companies

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How does this work?

In order to make the Drop Link work, you would need to add an FR5000/FR6000 repeater at each tower location you wish to Link. The two repeaters act as an RF Link in place of the IP link. The information sent from each site through the Drop Link repeater goes via RF and can be set up at any time and added to the site infrastructure. The signal that comes into the main repeater from the field is simply sent out on both the local repeater AND the Drop link repeater. This creates the path necessary to link both sites together without affecting the local coverages already in place. The subscriber units at both sites will be connected together when the link is established. You can also design the RF Drop Link to be crossbanded or on a different frequency band from the existing sites main repeaters if you wish, or for reasons of interference. You also have ability to crossband two sites of different frequency bands, so that subscriber units can communicate together even if one site is UHF and the other is VHF. The path from the main repeater site through the Drop Link is not affected by crossbanding the signals.

Required Equipment:

The equipment required to set up a Drop Link system is:

1. FR5000/6000 at each tower site to be linked together
2. UR-FR5000/6000 Module for the Drop Link
3. UC-FR5000 Channel Module for each repeater at the sites to be linked
4. CF-FR5000 Card for each Repeater at the sites to be linked
5. Duplexers for each repeater

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