

Teletics Application Note

Drilling Rig Communications with the w^{*}intercom

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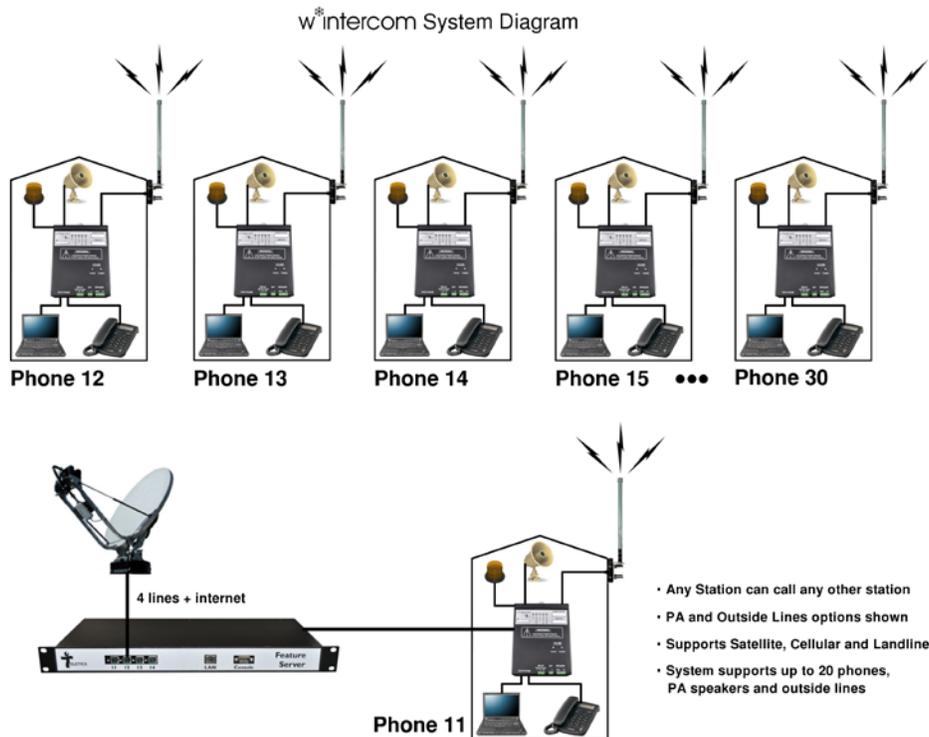
For each system, you require one Teletics Feature Server, which is the “brains” of the system, taking care of dialing between units and the PA feature. If you desire having access to an outside line, you can order a Feature Server Rack Mount (RM) unit to the system and program it to provide outside line access to whatever phones on the system should be allowed to dial out and in (over VSAT for example).



For an example, let’s consider a small drilling rig camp that has a four trailers and one drilling rig. Also, for example, let’s assume that the company man and the geologist get access to one VSAT phone line each.

This system would consist of 1 of Teletics Feature Server RM and 5 of w*intercom radios.

The w*intercom “Master” is unit 11. This unit typically goes near the VSAT system, with the Feature Server RM. The Feature Server RM has 4 LINE ports, two of which are plugged into the VSAT terminal outgoing LINE ports:



You can have up to 20 w*intercom radios in one system. The numbers that are given to each Phone go from 11 to 30. So if the company man in trailer 13 wants to call the tool push on the drilling rig, and the drilling rig has w*intercom 14, he simply picks up his phone and dials 14.

In our example, if the two people who have outside phone line access are using phone 12 and 13, the 2 VSAT phone lines for outside calls would be plugged into the Feature Server RM ports 12 and 13. The Feature Server RM simply “maps” those two VSAT phone lines to the correct w*intercom stations on the system. So, if the person using 12 or 13 dial 9 in front of a phone number, their call is routed out to the VSAT system, and if their line on the VSAT terminal rings, their phone will ring until they answer.

The PA function is accessed by putting a * character in front of the number of the w*intercom that you want to PA with. For instance, if the company man is at 13, and he wants to talk through the PA speaker at 14, he dials *14, waits for the beep, and then talks. His voice will come out of the PA speaker at w*intercom 14.

Anyone in the system can page across all speakers simultaneously by dialing *99.

Each speaker on a w*intercom will produce a loud ring when that station is being called. Also, the PA amplifier on the w*intercom is 40 WRMS, which is more than enough to be heard over rig noise. Both Ring and PA volume can be adjusted on each unit.

The w*intercom system supports as many simultaneous phone conversations as there are phones and PA speakers that can be used on the system.

The internet ports on the w*intercom act as a wireless switch. It is on a shared priority basis. The phone system has priority over the data service to ensure voice quality.

Success with the w*intercom system requires proper installation practices. The most common reasons for the system not to work properly are incorrect antenna placement and bad choices for antennas, cables and mounting brackets. Teletics has a field tool, called TUtil that will indicate where radio signal strength is a problem. Additionally, cabling should be rated for the frequency used. LMR-400 when kept to 30 foot lengths and shorter is a good choice. Teletics also offers antenna mounts and outdoor enclosures for use with its equipment.

The w*intercom eliminates communications wiring at oil and gas or mining camp sites. The w*intercom can pay for itself very quickly versus cost of cabling and cabling labor, and provide a more reliable communications system as well with minimal setup between moves.

For further information on this application of the Teletics w*intercom system, please contact your local Teletics distributor. Teletics distributors can be found under “Where to Buy” at www.teletics.com