

N3468. Networking Protocol

Los Alamos National Laboratory (LANL) and Eberline Instruments have developed an open architecture protocol to be used by radiation monitor vendors around the world, which will enable nuclear facilities to add monitors to their networks without having to worry about vendor specific communication hardware or protocols.

A demonstration system has been operational at LANL for over six months. This RadNet communications protocol is based on the universal datagram protocol/internet protocol (UDP/IP) common to all systems which support the more well known TCP/IP transport protocol.

The RadNet protocol simply defines the data packet format that is carried onto the network by the UDP/IP messages transmitted by all participating radiation monitors. RadNet packets carry within them all information needed by the listening client software to display readings, status, and monitor location. No preconfiguration of the client is required.

For further information, contact Eberline for copies of the joint poster given with LANL at the San Antonio HPS meeting, July 1997.

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