

# Server Timeout Parameter for Modbus Registers (DX83/ GatewayPro)

## OVERVIEW

On a DX80 wireless network, there are two basic timeouts to monitor:

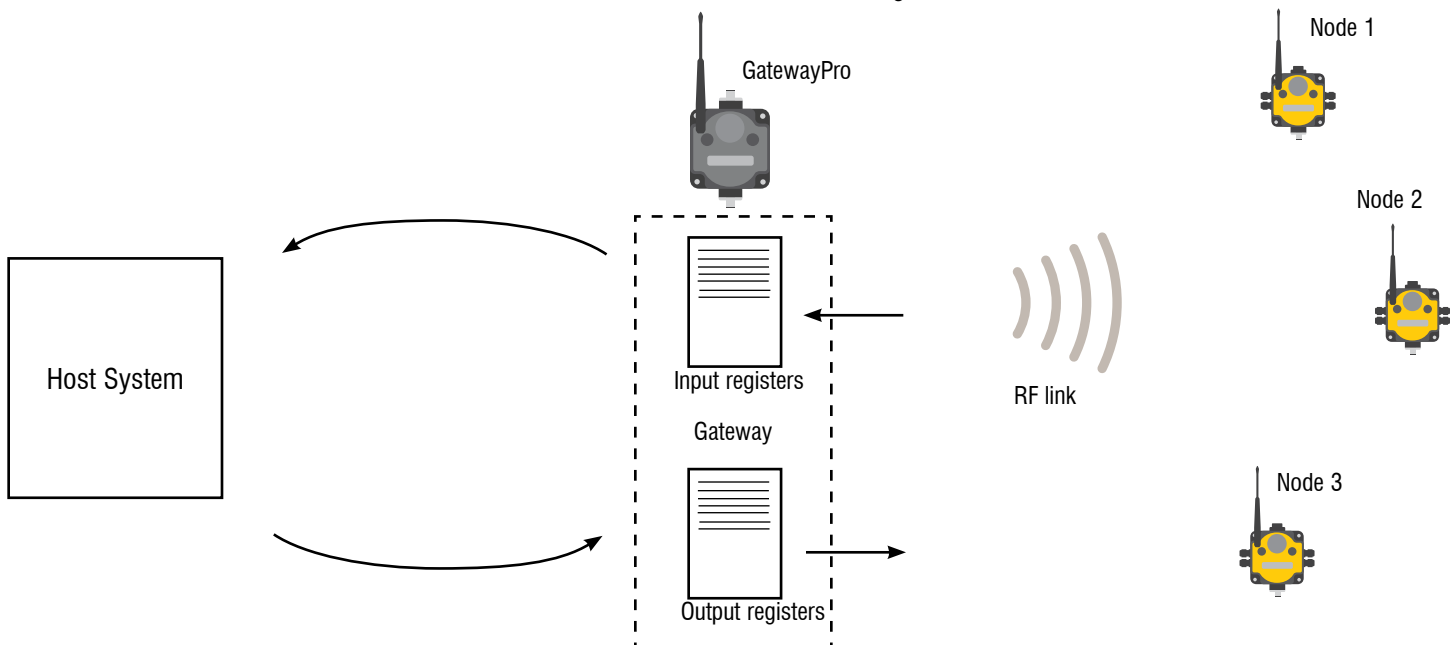
- radio link timeouts between the Gateway and its Nodes, and
- host timeouts between the host system and the DX83 or GatewayPro.

This technical note describes how to monitor host timeouts using the Server Timeout parameter in the DX83/GatewayPro.

Set the Server Timeout parameter on DX80 output registers that are controlled from the host. If the host does not write to the register defined as a DX80 output within the timeout parameter (in seconds), the DX83 or GatewayPro sets the output to a default condition. This allows the DX83 or GatewayPro to detect when the host is absent and set outputs to a default state.

## MONITORING FOR TIMEOUTS

The polling parameter monitors the radio link between the Nodes and the Gateway. When the radio link fails, an error message is written to that Node's register 8.



The host needs to know when an error condition exists.

Reading every Node's register 8 indicates the radio link status.

A timeout between the host and the DX83/ GatewayPro must be determined and handled by the host system.

The Server Timeout parameter establishes the time in which the host system must update the Gateway's output registers. If the registers are not updated, outputs are set to a default value.

Set the Server Timeout parameter using the Web Configurator. This parameter is located on the *System > Data > Local Register* screen.

Nodes can set default values on outputs when an error condition exists.