

DX Assistant

Local Network Server for
SensorNet Enabled Detectors



The DX Assistant 2.0 is a stand-alone local server application operating in a Linux environment and specifically designed to support a network of SensorNet enabled radiation detectors inside a protected firewall.

The DX Assistant is a web application that consists of a website client called the DX Dashboard and a server back-end that interfaces with a database. The Dashboard is accessed from a web browser to manage and monitor a network of deployed DX-family devices. The DX devices communicate with the server to report device events and poll for new device settings. Device events and settings are stored in the database.

The DX Assistant allows the DX devices to be configured with Ethernet, WiFi, and Mesh networking options. Features include smartphone and tablet monitoring and control, and email and text notifications.

SYSTEM REQUIREMENTS

Operating System: Linux - Ubuntu Server 16.04

Pre-Installed and Configured Packages

- LAMP
 - Apache 2 (Tested with v. 2.4.18)
 - MySQL (Tested with v. 14.14)
 - PHP (Tested with v. 7.0.4)

ACL (Access Control Lists)

- ACL is used to help define rights and permissions for files and directories.
- It can be installed with: `sudo apt-get install acl`

Mail client (nullmailer, sendmail, etc.)

CPU: 2.50+ GHz Dual core

RAM: 2 GB

Disk Space (typically 60 GB, but depends on number of devices – see below):

- 40 GB – Linux Server
- 5 GB - Base Installation + 2 GB per each Rad-DX device

Ethernet or Wi-Fi Network Connection

CD-ROM Drive

