

E10 Release 1.1

Release Notes
23 April 2014

Introduction

This document describes the cumulative changes made to the E10 since version 1.0.0.

Portal version 1.1.0 was released to the Synapse Support Forum (<http://forums.synapse-wireless.com>) on 23 April 2014.

New In This Version

The changes between version 1.0 and version 1.1 of the E10 come entirely from the operating system and included software:

- New packages:
 - `monit` – a utility for managing and monitoring processes, programs, files, directories, and file systems
 - `OpenSSH` – an SSH/SecSH protocol suite providing encryption for network services such as remote login or remote file transfer
 - `NTP` – an operating system daemon that sets and maintains the system time of day in synchronization with Internet standard time servers
 - `rsync` – a fast and extraordinarily versatile file copying tool
 - `screen` – a full-screen window manager that multiplexes a physical terminal between several processes
 - `udev` – a utility that provides a dynamic device directory that only contains files for present devices
 - `iptables` – a utility used to establish, maintain, and inspect IP packet filter rules tables in the Linux kernel
 - `htop` – an interactive process viewer
 - `sqlite` – a lightweight SQL database engine
- USB-Serial support (including support for the SNAP Stick 200 and the SN132 SNAPstick)
- Wi-Fi support (through a USB adapter)
- Cell modem support (through a USB adapter)
- Root file system flash increased to 185 MB
- Addition of `/etc/E10Version`
- Addition of `/etc/TZ`
- Addition of an autorun rule for invoking a script from a USB drive on reboot (`/etc/init.d/S77RunUsb.py`)
- Addition of an autorun rule for invoking a script from a network update server on reboot (`/etc/init.d/X88RunNet.py` – disabled by default)
- Modification of `/etc/fstab`
 - `/tmp` is now limited to 32 MB by default
 - Modify `fstab` to change this limit

- Kernel address locations now dynamically determined by installation script
 - Bad blocks can cause the boot loader or kernel images to “spill into” one another
 - Bad block locations are analyzed at install time to determine optimal installation locations for kernel images and the bootloader
- Script enhancements
 - BridgeRecovery.py – recover an unresponsive bridge node from the E10 with these scripts available from the Synapse User Forum.
 - UserMain.py / SynapseMain.py
 - Added getIpAddress(), an RPC to return any IP address(es) assigned to the E10
 - Bridge interaction – added options to check or set the bridge channel, network ID, etc. from the E10
 - E10ExampleFor1.1.py – E10 LED toggles on traffic and responds to updated UserMain.py/SynapseMain.py when they request the address of the bridge node.
- DHCP improvement
 - Interfaces that use DHCP will continue to attempt to get an IP address
- Python upgraded to version 2.7.5

One side-effect of the breadth of changes between the original E10 release and version 1.1 is that any custom code compiled for the original E10 release is likely to require recompiling before it will function in the 1.1 environment.

Fixes

- Updated code to protect against the Heartbleed bug
- A user login of ‘Snap’ has replaced the root user. You must first login as Snap and give the root user a password before it will be possible to log in as root

Installation and Upgrade Notes

- Upgrade procedures have changed significantly. Please consult the E10 User manual for detailed instructions

Related Documents

- E10 1.1 User Manual