

## Version GA10 z1090-1-10.55.13 Release Letter

**1. Product Description**

The IBM System z Personal Development Tool (zPDT) provides System z functionality, with selected emulated I/O devices. The z1090 runs in a Linux environment. As the name implies, a zPDT is intended for development and similar purposes such as education and demonstrations. It lacks the Reliability and Service (RAS) and flexibility of a “real” System z machine and is not suitable for production use. This release letter refers to the zPDT that uses a token or USB hardware key defined as a Sentinel Hardware Key (SHK) for licensing management. Please reference the System zPDT Guide and Reference (SG24-8205-05) Redbook, section 1.3 Terminology changes for more information concerning licensing options.

**2. Fixed in this release**

- Fixed problem when both 3270port and intASCIIport are defined to the devmap.
- Fixed ipl\_dvd failure when ap crypto is defined.
- Fixed CMPSC expansion with entropy failure.
- awschmap now provides return code of 4 if there are any warnings.

**3. System Configuration and Prerequisites**

The supported levels of Linux must be at least the 64-bit version of Red Hat Enterprise Linux (RHEL) 7.0 or greater, the 64-bit version of openSUSE Leap 42.3 or greater, the 64-bit version of SLES 12 SP3 or greater, and Ubuntu 16.04 or greater. **Earlier versions are not supported.**

**4. Install z1090-1-10.55.13**

If you are installing the 1090 application for the first time, refer to the Redbook titled IBM zPDT Guide and Reference System z Personal Development Tool (SG24-8205-05), chapter five, zPDT Installation. Please be sure that you have installed the appropriate version of Linux and the prerequisites before proceeding to install the 1090 code. If you have already installed the appropriate version of Linux and the required prerequisites, and you are upgrading from a previous zPDT level, please proceed to the next step.

**4.1. Install the 1090 application**

You will use root to install the z1090 release. As root, install **z1090-1-10.55.13.x86\_64** and accept the End User License agreement. If you’ve downloaded the release, set the proper write and access permissions (either chmod 755 or u+x zPDT package name).

**4.2. Execute z1090instcheck**

The next step is to run the command z1090instcheck to check if conditions of your system are favorable for the 1090 application. You should run this command from the user login configured to run the 1090 application. If you choose to run from root, the path is **/usr/z1090/bin/z1090instcheck**.

**4.3. Plug the Sentinel Hardware Key (SHK)**

If not already plugged in, be sure to plug the SHK into the appropriate USB slot. If this is a brand new SHK that has not been activated yet, you’ll need the 1090 code to be able to activate the SHK. The SHK may be plugged into any available USB 2.0 port. If you are planning to install the SHK in a USB hub make sure that the hub is externally powered, otherwise, you could damage the SHK.

**5. 1090 Directory Structure**

The following is the directory structure set up by the install process. If the structure is not in place, the **awsstart** command will create it for you.

/<homeDir>/z1090/logs	various traces are placed here
/<homeDir>/z1090/configs	IOCDs, IOCP, activation profiles
/<homeDir>/z1090/disks	emulated disk volumes
/<homeDir>/z1090/tapes	emulated tape volumes
/<homeDir>/z1090/cards	input to emulated card reader
/<homeDir>/z1090/list	emulated printer output

(where /<homeDir> is whatever the home directory is for the given user)

**6. Known Restrictions, Exceptions, and Other Notes****6.1. Restrictions**

- SNA is not supported.
- Multicast IP is not supported via OSE managed devices. Multicast IP is only supported with OSA defined in OSD mode.
- Deflate function is not provided in this driver but will be provided in a future GA10 driver.

**6.2 Exceptions**

- None

**6.3 Other Notes**

- With zArchitecture level on by default, if you IPL an older ADCD, you may get a Disable Wait 0019. You will have to update your ADCD image. Using the latest ADCD (zOS 2.2) from May 2017, it did IPL fine. With ZARCH\_ONLY turned OFF explicitly via devmap using cpuopt parameter you can IPL in ESA/390 mode in devmap.txt like this:

cpuopt ZARCH\_ONLY ON

or

cpuopt ZARCH\_ONLY OFF (non-standard option)

- zOS 2.3 hits SLIP TRAP right in setup right after IPL. This is a zOS problem and will be handled via zOS APAR OA54373.
- Linux on Z under VM may rarely experience a loss of connectivity when using an OSA dedicated configuration. Development is investigating.
- zVM PRG005abend sometimes observed when running zOS under zVM 7.1 GA 1801 RSU 1902. Development is investigating.
- awsrdr device statement without a full path specified will cause a core dump. Work around is to explicitly provide the full path statement. This is expected to allow the default to work in a future fixpack release.