IBM System z
Introduction
October 2009

IBM System z Personal Development Tool

FAQ for Independent Software Vendors

Worldwide

ZSQ03041-00

IBM System z Personal Development Tool

Question:

On a high level, what is the IBM System z® Personal Development Tool?

Answer:

The IBM System z Personal Development Tool (zPDT) is a software-based application development tool from IBM for qualified IBM PartnerWorld® Independent Software Vendors (ISVs). The zPDT can enable a virtual System z architecture environment that allows mainframe operating systems, middleware, and software to run unaltered on Intel® and Intel-compatible platforms (such as Lenovo Thinkpad® W Series or IBM System x™ 3500 or 3650 server, or systems otherwise approved by IBM).

The zPDT gives qualified ISVs freedom of choice. With zPDT:

- ISVs already in the System z ecosystem can have additional choice of adding zPDT to their development environments. This new tool can be useful in supporting:
  - Application development
  - Education and demonstration of the ISVs product
  - Developers in remote locations (no need for a dedicated LPAR on existing systems)
- ISVs new to the System z ecosystem may now afford to have a virtual System z environment of their own and potentially open up their applications to new markets and opportunity.

The zPDT is for qualified Independent Software Vendors (ISVs), only. IBM PartnerWorld members who are approved for the IBM System z Developer Discount Program can receive zPDT as part of the System z Developer Discount offers (zDD). The zPDT is not for any other use outside of application development and support of application development for System z ISVs.

Question:

In some more detail, what is the IBM System z Personal Development Tool?

Answer:

The zPDT consists of software (product number 5799-ADE) that is authenticated and enabled by a USB hardware key (zPDTA, product number 1090-L01, 1090-L02, or 1090-L03).

The zPDT comes in three system sizes: one, two, or three virtual engines (where the 1090 model number denotes the size of the zPDT system). These virtual engines can be defined as System z general purpose processors, System z Integrated Information Processors (zIIPs), System z Application Assist Processors (zAAPs), and System z Integrated Facility for Linux® (IFL) (NO Integrated Coupling Facility (ICF)). The virtual engines can be enabled as separate uni-processors or as a multi-processor configuration.

The zPDT enables the z/Architecture® and I/O only. Other products, like the underlying hardware, Linux operating system, or IBM software products, such as IBM Operating Systems, middleware and tools, are not bundled with zPDT and must be acquired separately and combined in order to create a working application development system.

On top of a zPDT environment, ISVs can run z/OS®, z/VM®, z/VSE™, Linux for System z operating systems and their related middleware and software products and tools. These IBM OSes and software products are not bundled with zPDT and are available separately.

For more information on what System z technology is and is not supported on zPDT, see:

https://www.ibm.com/partnerworld/pwhome.nsf/weblook/pat_sas_zpdt_about.html

Question:

When is zPDTavailable?

Answer:

zPDT is available Friday October 30, 2009. For more information on ordering options for your country, see:
https://www.ibm.com/partnerworld/pwhome.nsf/weblook/pat_sas_zpdt_order.html

Question:

What operating systems are supported on zPDT?

Answer:

z/OS, z/VM, z/VSE, Linux for System z operating systems and their related middleware and software products are supported on zPDT. Specifically, IBM has tested with:

• z/OS Levels	1.9	1.10
• z/VM Levels	5.3	5.4
• z/VSE Level	4.1	
• Linux on System z Levels	SLES 10	RHEL 5.2

Question:

Who would use a zPDT?

Answer:

zPDT is for qualified Independent Software Vendors (ISVs) who have a need for a low-cost application development and demonstration platform for their commercially available products on System z.

Specifically, zPDT is for IBM PartnerWorld® members who are approved for the IBM System z Developer Discount Program and can receive System z Developer Discount offers (zDD). For more information on zDD, see:

https://www.ibm.com/partnerworld/pwhome.nsf/weblook/zpdt_zdd.html

The zPDT is not for any other use outside of application development for and support of application development for System z ISVs. For example, the zPDT is not intended for academia-related education purposes, not for Systems Integrators for software asset maintenance, and not for use for commercial applications and workloads.

Question:

Where would an ISV use a zPDT?

Answer:

This new offer is intended for ISVs who, for example, need:

- A low cost IBM System z development platform,
- A portable System z application demonstration platform, or
- To support developers in multiple locations, where having a personal system is more efficient than dedicating larger server resources

Question:

Where would an ISV NOT use a zPDT?

Answer:

The zPDT environment does not support ALL System z function. System z functions NOT supported by zPDT:

- Parallel, ESCON®, FCP and FICON® channels are not supported.
- Coupling links and coupling facilities are not supported.
- System z instructions and functions that are not relevant to zPDT operation are not included. The excluded list includes list-directed IPL, cryptographic coprocessors and adapters, ETR, TOD steering, asynchronous data movers, MIDAWs, logical channel subsystems, HiperSockets™, LPARs, multiple I/O paths, coupling facilities, and some CHSC functions.

ISVs needing any of the function outlined above should consider a traditional System z server.

Question:

Is zPDT as good as having a traditional System z machine?

Answer:

No, zPDT does not produce an environment equal to a larger System z. Some aspects of a larger system are unlikely to be met in any very small environment. These include the ability to verify and enhance the scalability of a program under development, run application programs that require hundreds of MIPS, or to use unique performance functions of a cryptographic adapter. A larger System z is needed for these areas of development. Likewise, a zPDT system is not recommended for very fine-level performance tuning that is sensitive to memory location, cache functions, and pipeline optimization. Larger System z machines have different characteristics than a zPDT at this level. In addition, the zPDT platform does not nearly have the same quality of service as does a mainframe in terms of availability and connectivity.

ISVs needing any of the function outlined above should consider a traditional System z server.

Question:

Can ISVs run commercial production workloads on zPDT (such as application development outsourced from commercial clients)?

Answer:

No. The terms and conditions for the zPDT software (5799-ADE), the requirements for participating in the System z Developer Discount offering, and the terms and conditions of any IBM software discount contracts associated with The IBM System z Developer Discount (zDD) are clear: The development system must be 100% dedicated to development use only with no production or outsourcing workloads of any kind. The development system cannot be used for any fee based activities, nor any other purpose, e.g. disaster recovery or Capacity Back UP (CBU).

For information on the requirements and restrictions of zDD, see:
https://www.ibm.com/partnerworld/pwhome.nsf/weblook/zpdt_zdd.html

Question:

Can an ISV share a zPDT application development environment?

Answer:

It depends.

An ISV may have multiple developers working on one zPDT system and ‘sharing’ that system – the

zPDT license and operation is not on a per seat basis.

An ISV may NOT share a zPDT system with another ISV, other partner, vendor, or commercial client.

Question:

If zPDT just enables virtual zArchitecture and I/O, what else is needed to create a fully operational application development system with zPDT?

Answer:

Several components are needed to come together so zPDT tool can be used effectively for a virtual System z environment:

- An underlying Intel or Intel-compatible system (such as IBM System x® 3500 M1, 3500 M2, 3650 M1, or 3650 M2; Lenovo Thinkpad® W Series; or systems otherwise tested and approved by IBM. The ISVs may have this system in house already, or may choose to purchase new from a hardware vendor of choice.
- 64 bit Red Hat Enterprise Linux 5.3 (RHEL 5.3) or 64-bit openSUSE 10.3, 11.0, or 11.1.. The ISV may already have an appropriate license of Novel or RedHat. If not, ISV is to get appropriate Linux from Linux distributor.
- The zPDT application development software (5799-ADE) with a 1090 USB hardware key (1090-L01, 1090-L02, and 1090-L03, where the model number corresponds to the number of virtual engines).
- Mainframe OSes or middleware, these have to be acquired separately.

For more information on recommended minimum system requirements, see:
https://www.ibm.com/partnerworld/pwhome.nsf/weblook/pat_sas_zpdt_requirements.html

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Question:

Can an ISV run non-IBM (3rd party) software on the zPDT?

Answer:

Yes, consult your 3rd party vendor for their product terms and conditions.

Question:

How does an ISV get the zPDT software tool (5799-ADE and corresponding 1090 USB hardware key)?

Answer:

The zPDT is for qualified Independent Software Vendors (ISVs), only. IBM PartnerWorld members who are approved for the IBM System z Developer Discount Program can receive zPDT as part of the System z Developer Discount offers (zDD). The zPDT is not for any other use outside of application development and support of application development for System z ISVs.

It is IBM's intent to make the zPDT available world wide through several sales channels. WW availability will be rolled out over time. Qualified ISVs may have several ways to order zPDT depending on which fulfillment options are available in your country or geography. The options available today are:

1. ITC (Information Technology Company, LLC) - zPDT is available world wide through ITC. ITC is an international information technology vendor with over 30 years of experience with mainframe hardware, software, and services. IBM has contracted with ITC to provide zPDT-based solutions to ISVs. ITC can provide you with a full zPDT system, support, and a full range of services covering

education, installation, customization, networking, and data management. For more information on ITC:

a. please see www.p390.com
b. or email to sales@p390.com
c. or contact:

John Cotte
Information Technology Co. LLC
PO BOX 688
Falls Church, VA 22040
(800) 994-9441

2. IBM Business Partners – Your country may have an IBM System z Business Partner approved to sell zPDT. The IBM Business Partners provide a wide variety of services around zPDT including hardware and software ordering, system builds, software migration, hardware and software support, and more.
3. Self Serve Web form - This option is for ISVs who want the freedom to build and deploy a zPDT system on their own and using skills, software, hardware, and other resources you may already have in-house. Currently, the self serve web form is only available for ISVs in US and Canada.

For more information on how to order zPDT, see:
https://www.ibm.com/partnerworld/pwhome.nsf/weblook/pat_sas_zpdt_order.html

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Question:

Please explain an approved IBM System z Business partner and ITC?

Answer:

Because so many parts must come together to make a working zPDT application development system, a qualified ISV may want to contract with another group to build, supply, and support the zPDT system.

ITC (Information Technology Company, LLC) - zPDT is available world wide through ITC. ITC is an international information technology vendor with over 30 years of experience with mainframe hardware, software, and services. IBM has contracted with ITC to provide zPDT-based solutions to ISVs. ITC can provide you with a full zPDT system, support, and a full range of services covering education, installation, customization, networking, and data management. For more information on ITC:

- please see www.p390.com
- or email to sales@p390.com
- or contact: John Cotte

Information Technology Co. LLC
PO BOX 688
Falls Church, VA 22040
(800) 994-9441

IBM System z Business Partners approved to sell zPDT solutions and services have shown they have a deep knowledge of System z and have taken education and gained the skills to build and support a zPDT system.

For more information, see how to order the zPDT:

https://www.ibm.com/partnerworld/pwhome.nsf/weblook/pat_sas_zpdt_order.html

Question:

Can I still get z/OS via the z/OS ADCD (Application Development Controlled Distribution)?

Answer:

Yes. The z/OS ADCD will continue to be available and will carry a US$900 subscription fee per ADCD license. The z/OS ADCD must be licensed for each zPDT (1090 USB Hardware key).

Question:

How do I get the IBM software to run on top of the zPDT software?

Answer:

ISVs can request IBM System z software through the same channel whereby you purchased the zPDT system. The available System z SW includes basically any System z SW product that would be ordered through IBM's normal System z ordering and fulfillment processes. IBM products that are royalty-bearing or products that IBM deems to be competitive are not available at a discount through this offering.

The z/OS and z/VM operating systems are available to approved ISVs as part of the z/OS ADCD and z/VM Startup builds. Plans are in the works to also provide a z/VSE ADCD build in the near future.

Distributed software (for Linux for System z) can be acquired through the IBM Software Mall (PassPort Advantage).

Additional System z SW that is not provided as part of the ADCD builds can be requested through the fulfillment channel that the system was purchased. ISVs purchasing through your IBM Business Partner or ITC would continue to work with those providers. ISVs who purchased the zPDT through the IBM self-service web form option (US and Canada) will receive instructions on how to order the additional SW they need through the IBM System z Developer Discount program.

Question:

What are System z Developer Discount offering program and how does it relate to zPDT?

Answer:

The intent of the System z Developer Discount offering is to help lower the development cost to ISVs who want to develop, market and support their commercially available applications and tools for the System z market. Through this offering, qualified approved ISVs can receive discounts on IBM hardware and software. The ISV needs to be approved for the IBM System z Developer Discount offering program (zDD) in order to get discounts on System z application development offers – including zPDT.

The IBM System z Developer Discount offering program (zDD) can provide additional benefits for ISVs that support the IBM System z platform. The zDD offering is for ISVs with commercially available software products only, and is not intended for other parties involved with just providing education, seminars, outsourcing, or other forms of workloads not dedicated to the development and support of new applications for System z.

The intent of the zDD is to help lower the cost of developing, marketing, and supporting commercially available applications and tools for the System z market, in short, the zDD can provide discounts on IBM System z hardware and software, including IBM System z10™ servers and the zPDT tool.

ISVs interested in participating in the zDD need to understand the requirements of the offering and how it works on a ongoing basis. Additional information is provided at:
https://www.ibm.com/partnerworld/pwhome.nsf/weblook/zpdt_zdd.html

As a member of zDD, you will also be eligible to order the z/OS ADCD, the z/VM Startup, additional IBM software, and the zPDT.

Question:

What are the z/OS ADCD and z/VM Startup, and how does that relate to the zPDT?

Answer:

The z/OS ADCD (Application Development Controlled Distribution) is a low-cost pre-defined stack of z/OS software useful for the development and support of applications on z/OS. It is available through the IBM System z Developer Discount program (zDD) and is ideal for those zDD qualified ISVs who may have little or no System z System programming skills or resources.

The z/VM Start up is a low-cost pre-defined configuration of z/VM, useful for the development of and support of applications on z/VM, or for supporting multiple guest OS images, such as Linux for System z and z/OS.

Both z/OS ADCD and the z/VM Startup run on zPDT-based systems.

The z/OS ADCD and z/VM Startup are built and maintained by IBM Dallas Development Center. They are built with the latest software maintenance at the time of their release and they are refreshed about every 6 months. The z/OS ADCD and z/VM Startup are provided as-is with no warranty nor support.

The z/OS ADCD contains z/OS and a large selection of IBM middleware. It is available to zDD members for US$900/ per year (representing a substantial discount over regularly-priced System z software). The z/OS ADCD is available to zDD members in DVD format only. For the z/OS ADCD, you will be required to sign a License Agreement that defines the terms and conditions under which the software on the z/OS ADCD can be used.

The z/VM Startup is contains z/VM and an assortment of z/VM program products. It is available to zDD members at no charge. z/VM Startup is available to zDD members via internet download only. For the z/VM Startup, you will be required to sign a License Agreement for the z/VM Startup that defines the terms and conditions under which the software provided via the z/VM Startup can be used.

For more information on the z/OS ADCD and z/VM Startup, please see
http://198.81.193.6/adcd.html

Question:

How much does a zPDT cost?

Answer:

The zPDT is intended to be a low-cost application development tool for ISVs. There are several components to the cost/ creating a zPDT applications development system:

- The zPDT application development software (5799-ADE) is under an un-warranted IBM Product License Agreement (IPLA) with an annual license of US $3,750 per year per System z virtual engine. The size of the virtual system is defined by the model of the 1090 USB hardware key (1090-L01, 1090-L02, and 1090-L03, where the model number corresponds to the number of virtual engines). Therefore:
  - zPDT SW defined by a 1090-L01 is US $3,750 per year
  - zPDT SW defined by a 1090-L02 is US $7,500 per year
  - zPDT SW defined by a 1090-L03 is US $11,250 per year
- The 1090 USB hardware key (1090, all models) is US $299 and ships with the zPDT software order.

NOTE: Prices are suggested for US only. Prices for other countries and regions will vary. The above reflects the current IBM pricing. IBM reserves the right in its sole discretion to, among other things, change one or more of the foregoing without notice

- The zPDT requires an underlying Intel or Intel-compatible system. You may have an adequate PC system in house already, or may choose to purchase new from a hardware vendor of choice.
- The zPDT requires a 64-bit Novel (openSUSE) or RedHat Linux as the underlying operating system for the PC hardware. You may already have an appropriate license of Novel or RedHat. If not, you may get appropriate Linux from a Linux distributor. See the system minimum requirements later.
- The zPDT does not come with mainframe OSes or middleware, these have to be acquired separately, for example:
  - The z/OS ADCD is available as is from IBM Dallas center for an annual subscription of US $900
  - The z/VM Startup is available as is from IBM Dallas center at no charge
  - Additional IBM products outside of the z/OS ADCD and z/VM Startup are available
- You may also need professional services to install, configure, and support a zPDT system.

Question:

What types of license agreements are needed?

Answer:

There are several license agreements required for a zPDT system. The IBM System z Personal Development Tool product itself - Product Number 5799-ADE - has its own license agreement which is a click-through license agreement when the product is installed.

All users must also sign a System z Developer Discount, software discount contract which defines the SW discount and the terms and conditions under which the System z software can be used on the zPDT system.

If a z/OS ADCD or z/VM Startup are to be used, there are individual license agreements for each distribution.

Question:

Can I upgrade a zPDT?

Answer:

Yes. You can order an MES upgrade for the zPDTA 1090 USB hardware key. Only upgrades are accepted, no downgrades. For example, you can upgrade a 1090-L01 to either an –L02, or an -L03 for a nominal processing charge and the zPDT software (IBM number 5799-ADE) billing is updated to match the new system. You may order zPDT MES upgrades from the channel you ordered zPDT from

Question:

Is zPDT supported?

Answer:

The zPDT software (IBM number 5799-ADE) is licensed under the IBM International License Agreement for Non-warranted Programs. As with most software, there is no warranty against software defects. New releases of this software will be provided as appropriate. Problems should not be reported through IBM's standard problem reporting channels, however 1090 software defects may be reported to the forum. However, because the zPDT software is unwarranted, IBM makes no warranties that problems submitted to the forum will be addressed or resolved.

To that effect ISVs may choose to get support for their zPDT system from an approved IBM Business Partner or from ITC (Information Technology Company, LLC.).

For a summary of zPDT support, see:

https://www.ibm.com/partnerworld/pwhome.nsf/weblook/pat_sas_zpdt_support.html

For the zPDT forum see

http://groups.yahoo.com/group/z1090

Question:

What is the zPDT forum?

Answer:

The zPDT forum is a simple discussion group. It is currently found at:

http://groups.yahoo.com/group/z1090

The forum is intended for discussions about zPDT itself and basic z/OS ADCD questions. It is not intended as a vehicle for more complex "how to" issues related to System z operating systems and software products.

Question:

What do you mean that zPDT is an un-warranted IBM Product License Agreement (IPLA)?

Answer:

The 1090 USB hardware key/ token is warranted for one year and will be replaced if a defect is found. This does not cover misuse or loss.

The zPDT software (IBM number 5799-ADE) is covered by the standard IBM IPLA license agreement. As with most software, there is no warranty against software defects. IBM intends to respond quickly and aggressively to any valid defects found in this software. New releases of this software will be provided as appropriate. Reports of 1090 software defects should use the forum or newsgroup that is monitored by IBM rather than the standard IBM software problem reporting channels.

The use of a forum for zPDT is no different from other non-warranted application development tools available from IBM and other vendors.

Question:

How many zPDT licenses/ systems can I have?

Answer:

You may purchase up to three zPDT licenses. Requests for more than three zPDT licenses, as well as more than three z/OS ADCD and/or z/VM Startup licenses are subject to review and approval from the IBM System z Developer Discount executive review board.

The zPDT and the z/OS ADCD are licensed per system (in this case, the system is define by the 1090 USB hardware key) and there is no discount for purchasing larger volumes of zPDT or z/OS ADCD licenses.

The zPDT is not licensed per user or per seat. Many users can use a ingle zPDT system.

You can load the zPDT software on any number of systems you have in-house, but zPDT environment will only be activated with the 1090 USB hardware key that comes with each zPDT software license.

Question:

What if I want/ need many OS instances on the zPDT?

Answer:

zPDT only supports [up to] one instance per virtual engine. For example a zPDT with three virtual engines can be configured as:

- A single instance with three engines in a multiprocessor configuration
- Three instances with a single engine each
- Two instances, one with two engines and the other with one engine
- These virtual engines can be defined as System z general purpose processors, System z Integrated Information Processor (zIIP), System z Application Assist Processor (zAAP), System z Integrated Linux Facility (IFL)

If more than one instance is needed per zPDT virtual engine, then the z/VM operating system can be used to virtualize these configurations even further and create any number of engines and engine types within an instance.

Question:

How does the zPDT tool compare with other System z application development platforms from IBM?

Answer:

There are several application development solutions available from IBM, for example:

- Discounted System z hardware and software as provided by the IBM System z Developer Discount program offers. This includes IBM System z9® and z10™ systems. For more information on System z Developer Discounts, contact :

  syszdd@us.ibm.com

- Remote Development Program offerings provided by the IBM Innovation Centers, for example the RDP program in Dallas, TX. All PartnerWorld members who qualify for mainframe server benefits are eligible to participate in the enhanced Remote Development Program. The Remote Development Program can provide a readily available, inexpensive, cloud environment in which to develop or test their applications including access to the latest software, such as IBM z/OS®,

z/VM®, z/VSE®, Linux® for System z, CICS®, IMS, DB2® and WebSphere® as well as the latest hardware, such as IBM System z9 Integrated Information Processor (zIIP) and the IBM System z9 Application Assist Processor (zAAP). For more information, contact:

http://www-304.ibm.com/jct01005c/isv/spc/rdp.html

The zPDT application development tool can be a valuable addition to this existing portfolio of application development offers. zPDT can be a stand alone system, or can be in addition to other ISV AD systems in house.

BUT, zPDT does not produce an environment equal to a larger System z. Some aspects of a larger system are unlikely to be met in any very small environment. These include the ability to verify and enhance the scalability of a program under development, run application programs that require hundreds of MIPS, or to use unique performance functions of a cryptographic adapter. A larger System z is needed for these areas of development. Likewise, a zPDT system is not recommended for very fine-level performance tuning that is sensitive to memory location, cache functions, and pipeline optimization. Larger System z machines have different characteristics than a zPDT at this level. In addition, the zPDT platform does not nearly have the same quality of service as does a mainframe in terms of availability and connectivity. For these and other reasons, the zPDT environment is not intended as a replacement for a larger system.

IF an ISV needs large systems with large amounts of data and I/O, large complex I/O and networking configurations, Parallel Sysplex®, and real performance with real devices, THEN the best choice would be a IBM System z10 Business Class™ machine.

IF an ISV is unable, unwilling to build and manage their own System z or zPDT development platform, THEN the best choice would be to consider remote development from one of the IBM Innovation Centers.

Question:

Can I run zPDT on an existing Intel or Intel-compatible system I already have in-house - what are the minimum system requirements?

Answer:

ISVs may choose to use hardware and software resources already in house. See recommended minimum system requirements:
https://www.ibm.com/partnerworld/pwhome.nsf/weblook/pat_sas_zpdt_requirements.html

To build a zPDT system, several components have to come together. An ISVs may choose to contact an IBM Business Partner approved to sell zPDT solutions and services or ITC (Information Technology Company, Llc.) for products and services. See:
https://www.ibm.com/partnerworld/pwhome.nsf/weblook/pat_sas_zpdt_order.html

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Question:

Why is 64-bit hardware and Linux required?

Answer:

32-bit machines are older technology and typically don't have enough CPU cores, memory, or disk space to support Linux, zPDT, OSes, and middleware. Typically 64-bit machines provide much better performance.

Question:

What kind of performance can I expect from a system with zPDT on it?

Answer:

As compared to an IBM P/390, a system with zPDT will provide much better performance in all areas of speed, CP, and I/O.

zPDT performance varies from machine to machine and from workload to workload. For example, the faster the underlying PC hardware and the more number of cores to the underlying PC hardware, the faster the zPDT performance will be overall. Also, it can be expected that short CPU-intensive re-compiles will run faster than large I/O and data-intensive applications on zPDT (this is understandable, given the differences between Intel and z/Architecture).

Given that zPDT is a software product, and given the high degree of variability in workload performance, the zPDT software will not have published sizes, speeds, MIPS, or MSU ratings.

In the event you need estimates of zPDT MSU ratings to price your software product for another vendor to license, estimated software pricing metrics from IBM can be provided upon request. Please contact: syszdd@us.ibm.com

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Question:

Will the zPDT software be periodically refreshed?

Answer:

It is IBM's intent to update the zPDT software periodically in the event of correcting defects or for adding additional features and functions available to ISVs.

Question:

Where can I get more information on zPDT?

Answer:

Here is a list of url information:

- zPDT public landing

  http://www.ibm.com/partnerworld/pwhome.nsf/weblook/pat_sas_zpdt.html

- Developer Discount Requirements page

  https://www.ibm.com/partnerworld/pwhome.nsf/weblook/zpdt_zdd.html

- zPDT features and functions

  https://www.ibm.com/partnerworld/pwhome.nsf/weblook/pat_sas_zpdt_about.html

- zPDT system requirements

  https://www.ibm.com/partnerworld/pwhome.nsf/weblook/pat_sas_zpdt_requirements.html

- zPDT support options

  https://www.ibm.com/partnerworld/pwhome.nsf/weblook/pat_sas_zpdt_support.html

- zPDT how to order

  https://www.ibm.com/partnerworld/pwhome.nsf/weblook/pat_sas_zpdt_order.html

- Forum for zPDT users:

  http://groups.yahoo.com/group/z1090

- Additional zPDT documentation:

  The following books are available at http://www.redbooks.ibm.com

- System z Personal Development Tool SG24-7721
  Volume 1: Introduction and Reference

- System z Personal Development Tool SG24-7722
  Volume 2: Installation and Basic Use

- System z Personal Development Tool SG24-7723
  Volume 3: Additional Topics

The following publications are shipped with the product and available in the Library section of Resource Link: www.ibm.com/servers/resourcelink

- System z Personal Development Tool 1090 User's Guide G229-1101
- System z Personal Development Tool Statement of Limited Warranty SC27-2604

Using the instructions on the Resource Link panels, obtain a user ID and password. Resource Link has been designed for easy access and navigation.

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