PREVAS INDUSTRIAL LINUX

Realizing an Industrial Linux Platform
Prevas Industrial Linux (PIL)
Quality Enhanced and Documented Linux Platform

Standard and off-the-net integration tools

Yocto, OpenEmbedded

Safe-update and remote service

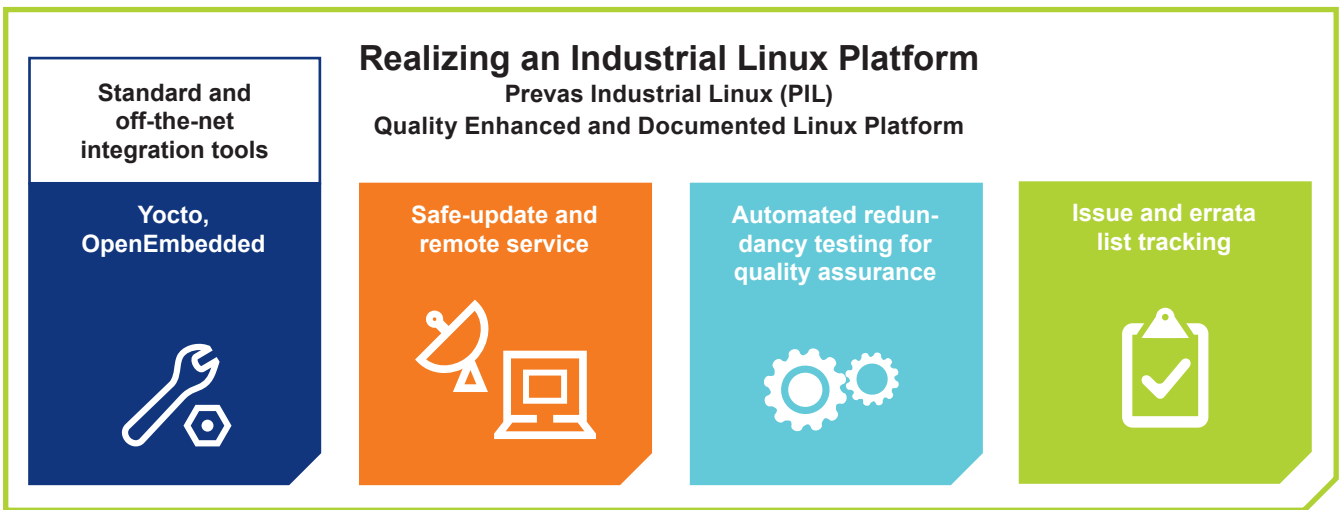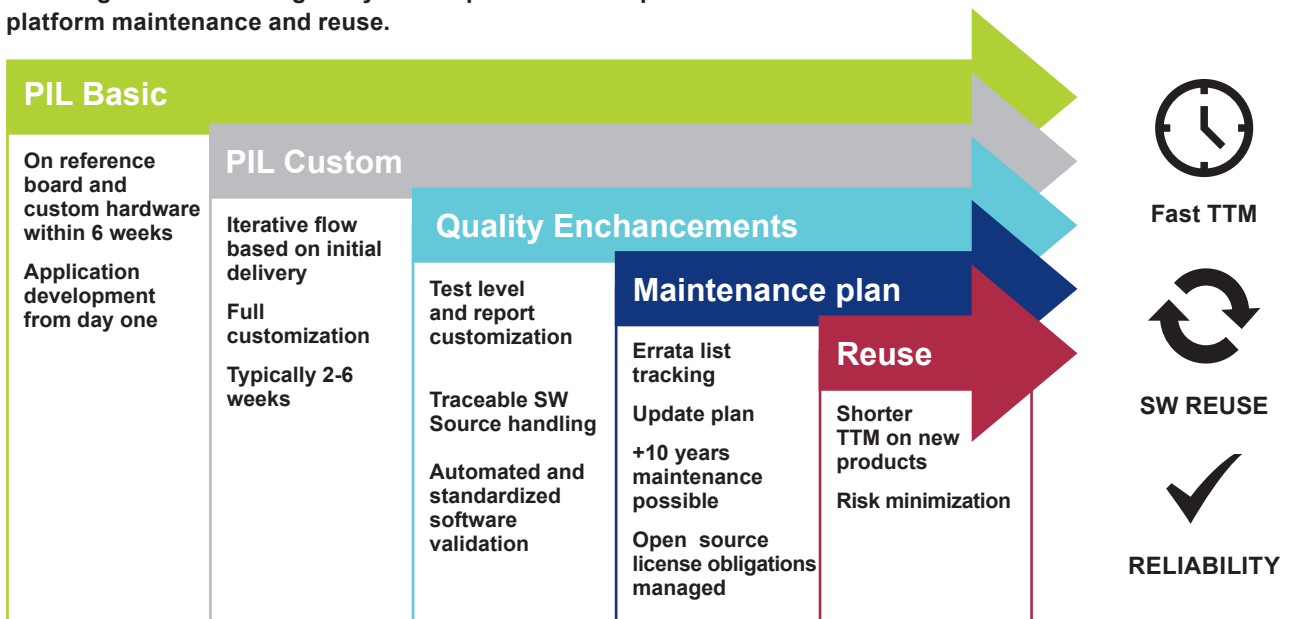**Automated redundancy testing for quality assurance**

Issue and errata list tracking

Tested and running on multiple HW architectures (ARM11, Cortex-A7, Cortex-A8, Cortex-A9, Cortex-A53, x86, etc.)

Covering the full and long lifecycle of a product with a plan for software platform maintenance and reuse.

PIL Basic

On reference board and custom hardware within 6 weeks

Application development from day one

PIL Custom

Iterative flow based on initial delivery

Full customization

Typically 2-6 weeks

Quality Enchancements

Test level and report customization

Traceable SW Source handling

Automated and standardized software validation

Maintenance plan

Errata list tracking

Update plan

+10 years maintenance possible

Open source license obligations managed

Reuse

Shorter TTM on new products

Risk minimization

Fast TTM

SW REUSE

RELIABILITY

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PREVAS INDUSTRIAL LINUX BASIC CONTENT

Prevas Industrial Linux Basic is delivered with a feature set similar to the one below that can easily be enhanced in Prevas Industrial Linux Plus.

TOOLCHAIN	BASE LIBRARIES	SYSTEM TOOL	SYSTEM UTILS	NETWORK AND SECURITY
gcc	glib	busybox	gzip	netbase
binutils	zlib	bash	zip	dhclient
glibc	expat	sysvinit	bzip2	udhcpd
libstdc++	gettext		util-linux	ssh (openssh)
	ncurces		dbus	sftp (openssh)
	readline		console-tools	openssl

DATABASES	DEBUG AND TRACE	DEVICE AND KERNEL UTILS	FILE SYSTEM UTILS	SAFE UPDATE
sqlite3	gdb	usbutils	e2fsprogs	via scp/ftsp
Berkeley-db	gdb-server	libusb	mtd-utils	via USB MSC
	valgrind *	pciutils	dostools	appliance watchdog for multiple application/process monitoring
	gettext	udev	util-linux	
	oprofile *	modutils	attr	
	powertop *			
	perf *			

GUI FRAMEWORK	APPLICATION SDK		TEST FRAMEWORK
Qt *	make		For Linux host (x86 and x86_64) and windows host
	For Linux host (x86)		Performance test suite

HARDWARE SUPPORT *	U-BOOT	KERNEL
Non-volatile memory support (one of USB, SD/MMC, eMMC, NAND or NOR depending on HW)	●	●
Serial console	●	●
Ethernet driver		●
On-chip GPIO		●
On-chip RTC		●
Watchdog		●
USB host driver (MSC, USB memory stick)		●
Display (If headed on of HDMI, LVDS or VGA)		●
Input device (If headed one of USB host mouse or touch driver)		●

● Included ● Maybe Included * Hardware dependent.

The Prevas Industrial Linux Team has long experience in delivering future proof solution. Call us today to learn what we done for other customers in your field.

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