timesys

Timesys BSP Lifecycle Maintenance

Your BSP + Our Maintenance and Security Expertise = 60% Reduction in Maintenance Costs

Keeping your product line updated and in sync means high maintenance costs. There's the cost of having to manage multiple versions of Linux, for multiple generations of a product, and for multiple variants. And to keep your product secure, there's the on-going cost of being able to identify issues in all your production releases and respond rapidly and efficiently when vulnerabilities and patches affecting your BSPs are identified. With so much of your resources tied up in maintaining your BSP, it's difficult to focus on your value-add application, new feature development and next-generation product.

Timesys BSP Lifecycle Maintenance will:

- Keep your OSS BSP software components up to date
- Monitor security issues and patches for your BSP
- Patch, update and test your BSP

Timesys BSP Lifecycle Maintenance significantly lowers the long-term maintenance costs associated with keeping your product line updated and secure — our customers have proven a 60% reduction in their costs.

Timesys BSP Lifecycle Maintenance Service enables you to do more with less

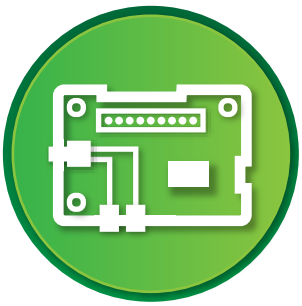
Long-term maintenance of a BSP/Linux software platform is a time-consuming effort that requires dedicated, often full-time engineers with expertise in Linux kernel development, build systems, software update implementation, and security vulnerability monitoring and patch management.

Rely on the expertise of the Timesys BSP maintenance team to:

- **Keep Your Product Line Updated, and In Sync** — The Timesys BSP maintenance team takes on the task of updating your BSP and keeps it in sync with latest releases (compilers, user space packages, major kernel and Yocto Project upgrades) as per your requirements. Along with updating your BSP, we also rebuild the SDK.
- **Stay Secure** — Our BSP Lifecycle Maintenance Service relieves your team of the burden of constant CVE monitoring and analyzing their impact by utilizing Timesys' Vigiles Security Software Composition Analysis (SCA) and mitigation tool. Our Maintenance service manages every step of the process for you, from vulnerability identification and assessment to patch integration. So your system is patched quicker, minimizing the chance of your product being exploited.
- **Receive Ready-to-Deploy Updates** — After integrating patches/updates, we validate the BSP using the Timesys driver testing framework. We provide you with the updated BSP along with test reports and documentation to help you with compliance.

Timesys brings open source embedded software expertise to your BSP maintenance

When you engage with Timesys for BSP Lifecycle Maintenance, we maintain your BSP for you and keep it secure, in the most cost-efficient way possible. We've worked with hundreds of boards, on thousands of projects and with numerous build systems including: Yocto Project, Timesys Factory, Buildroot, PetaLinux, and LTIB. All of this experience has enabled us to streamline the process of Linux BSP development and maintenance.



"We chose to partner with Timesys in the development of our new portfolio of medical devices to ensure that they stay secure throughout their lifecycle. Our customers globally face strict information security requirements combined with a heightened threat environment when deploying these devices within their enterprise. Our secure design methodology, partnership with Timesys, and operational policies allow our customers to be confident in choosing and deploying these devices in their healthcare practice."

– Roshy J. Francis,
Chief Technology Officer of
Diagnostic Cardiology for GE
Healthcare

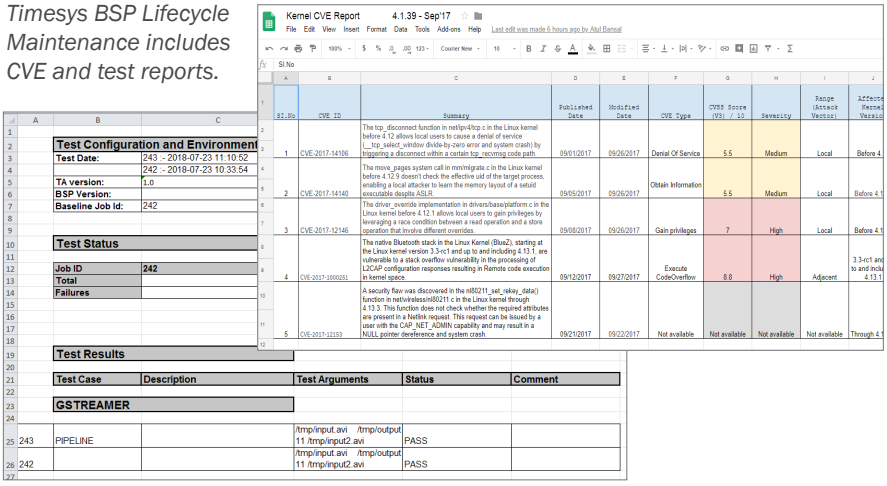
Timesys BSP Lifecycle Maintenance includes:

- Subscription to Vigiles Prime
  - Security & vulnerability notification and reporting tool for monitoring your software
- Monthly Security Notification reports
  - CVE report for user space, kernel, toolchain
- BSP update twice a year
  - Minor kernel version upgrade for security and bug fixes
  - User space security patching/package update
  - SDK (Development configuration and Production configuration)
  - Two releases per year on a mutually agreed upon timelines
- Functional driver test reports
  - Release notes & test reports
  - Hardware maintained in Timesys Remote Access Embedded Board Farm
- How-to-Use documentation
- Bidirectional Git — Upload/download BSP sources and changes
- One on-demand update for emergency security fixes

Optional add-ons include:

- Kernel/drivers and U-Boot major version upgrades
- Yocto upgrade
- Custom BSP update cadence
- Additional on-demand update for emergency security fixes

Timesys BSP Lifecycle Maintenance includes CVE and test reports.



How It Works

1. Set Up Baseline

We set up a baseline that includes:

- Adding your custom board into the Timesys Board Farm Cloud
- Adding your BSP code into a private Git repo that only you and Timesys can access
- Running a driver test

2. Review Reports

We provide monthly vulnerability reports, and on a quarterly basis we jointly review them to determine what updates and patches you want us to apply.

3. Integrate Patches/Updates

We integrate security patches / package updates for your BSP as per the quarterly review.

4. Validate BSP

After integrating patches/ updates, we validate the BSP by comparing the driver tests against the baseline.

5. Deliver Updated BSP & Reports

We deliver updated BSP and validation reports for comparison with the previous report.

To learn more about Timesys BSP Lifecycle Maintenance, email us at **sales@timesys.com** or call us at **1.866.392.4897** (toll-free) or **+1.412.232.3250** to schedule a complimentary, no-obligation consultation.

Disclaimer: *Security is an ongoing process and is not foolproof. Timesys' security offering provides assistance with minimizing known vulnerabilities based on known issues, but doesn't have any warranty.*

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