Full Life Cycle Security Maintenance of Embedded Linux BSPs

Webinar Q&A Document
June 2, 2020

1. **Are both Vigiles and the BSP Lifecycle Maintenance Service available for non-Yocto BSPs?**

   Yes. Vigiles and the BSP Lifecycle Maintenance Service are available for non-Yocto BSPs.

   Vigiles has direct integration into Yocto, Buildroot and Timesys Factory build systems. For all other build systems, you need to generate Software BOM and upload it to Vigiles. Note: You can create your software manifest from scratch entirely online using the Vigiles “Create Manifest” UI. Once your manifest is uploaded, Vigiles will provide full monitoring of CVEs and fixes and support for triaging.

   For BSP Lifecycle Maintenance, we can support most open source software. If a software manifest exists, we can maintain the security of your BSP.

2. **Do you offer the BSP Lifecycle Maintenance Service for other processors?**

   Yes. The BSP Lifecycle Maintenance Service is offered for other processors. For non-NXP products, please contact Timesys directly.

3. **Are both Vigiles and the BSP Lifecycle Maintenance Service offered for Android?**

   For Android, you can use Vigiles and BSP Maintenance to monitor CVEs and fixes, and for help with triaging the Linux portion of Android.

   For the Android Open Source Project components from Google, use the security tracking bulletin from Google (https://source.android.com/security/bulletin).

4. **How are Vigiles results presented? Are the reports exportable (json/xml) for integration into company-wide issue trackers?**

   Yes. The Vigiles results can be exported. You can export them as a spreadsheet or a PDF, so the results can be easily integrated into your own issue tracker.

   In the upcoming Vigiles release, you will also have the ability to get reports via JSON directly in your build system. This will provide further integration into your company-wide issue tracker.

5. **Does Vigiles support Android security patches?**

   Vigiles is not fully enabled for Android yet. However, you can use Vigiles and BSP Maintenance to monitor CVEs and fixes, and for help with triaging the Linux portion of Android.

   For the Android Open Source Project components from Google, use the security tracking bulletin from Google (https://source.android.com/security/bulletin).

6. **I see that minor kernel updates (patches) are part of the BSP Lifecycle Maintenance Service. What about major kernel upgrades such as moving from version 4.19 to version 5.4? Are they included?**

   Major Linux kernel upgrades, such as moving from one LTS kernel version to another, are not included in the BSP Lifecycle Maintenance Service.

   We can provide the LTS upgrade service when needed, under a separate Services engagement.

7. **Can the patches for each maintenance release be pushed to our own GIT?**

   Yes. If you can grant our BSP Maintenance Service team access to your GIT repository, we can push the patches for each maintenance release directly into it.

8. **We have three board variants for a product. Would each of the boards require a separate BSP Lifecycle Maintenance contract?**

   When setting up the maintenance service for your BSP, we leverage the similarities between the hardware and BSP. If your three board variants are using the same Linux BSP, the same Linux kernel version, and a similar root filesystem definition, we will leverage this fact when setting up the BSP Maintenance contract.

   If, for example, your three boards have two different Linux kernel versions, are supported by different BSPs, or are powered by completely different processors, separate maintenance contracts may be needed.

---

https://www.nxp.com/support/support/nxp-engineering-services/bsp-lifecycle-maintenance:BSP-LIFECYCLE-MAINTENCE

https://www.nxp.com/support/support/nxp-engineering-services/vigiles-software-keeping-your-linux-bsp-secure:VIGILES

https://community.nxp.com/community/oss-security-maintenance