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A Linux Bus for SVSM Services: Build New, Reuse VIRTIO, or Both?

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The Secure VM Service Module (SVSM) for Confidential VMs can expose multiple services and virtual devices to the Linux guest. To manage these, we need a proper bus in the kernel for discovery and enumeration.

So, what is the right architectural choice for this bus? Should we write a new, minimalist bus from scratch? Or should we adapt the standardized VIRTIO framework for its broad ecosystem support? Is a hybrid approach possible, giving us the best of both worlds? This talk will explore these questions, aiming to discuss the trade-offs of each path.

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