System Device Tree & OpenAMP RemoteProc

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System Device Tree & RemoteProc

> System Device Tree Goals for RemoteProc:

- >> RemoteProc information in a single place
- >> Minimalistic: provide as little information as possible to enable it
- >> Reduce vendor-specific details
- >> Allow current bindings in traditional device tree -- no changes required to existing device trees

> Vision:

>> Generic way of describing RemoteProc bindings in device tree

OpenAMP RemoteProc Flow with System-DT





OpenAMP RemoteProc Flow with System-DT

> System Device Tree RemoteProc

- >> Make use of common System Device Tree concepts
- >> Reduces vendor specific information to a single 32-bit bitfield

> Lopper generates traditional RemoteProc bindings via plugins





Current State of RemoteProc bindings

> Existing RemoteProc bindings are fragmented across vendors

>> Many have similar concepts but subtly different

> For System Device Tree, no changes are required at this moment

- >> Lopper's plugins deal with vendors differences; one plugin per vendor
- >> Decouple System Device Tree work from RemoteProc bindings work

> Aligning RemoteProc bindings across vendors in the long term would:

- >> make the implementation easier in Lopper; potentially remove the need for plugins
- >> improve both the bindings and drivers in Linux and RTOSes