

BoF: Embedded Update Tools

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Jan Lübbe – jlu@pengutronix.de



Existing Tools

- Update components: Root-FS, Application, Kernel, DTB, Bootloader?, FPGA?
- Basic features: fail-safe, roll-back, signatures, compatibility, online and offline updates, build system integration, A/B
- Additional features: encryption at rest, delta updates
- Image-based: swupdate, mender, rauc, ...
- File-based: ostree, swupd, ...



BoF Scope

- not focused on specific tools
- only image-based (not deb/rpm/opk)
 - less complex, easier to tests
- full system (not only docker/containers)
 - container tools usually have their own updaters
- war stories, missing features, unsolved problems



Topics?

<https://gist.github.com/jluebbe/d27b2289208791f3805adf69a0dac482>



<https://www.pengutronix.de>

Discuss!

war stories, missing features,
unsolved problems

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Updater Comparisons

https://wiki.yoctoproject.org/wiki/System_Update

https://elinux.org/images/3/31/Comparison_of_Linux_Software_Update_Technologies.pdf

https://mkrak.org/wp-content/uploads/2018/04/FOSS-NORTH_2018_Software_Updates.pdf

