

## Linux Plumbers Conference 2025



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# One Config to Rule Them All: From systemd to Embedded Upgrades

Systemd, Debian, and Red Hat already use layered configuration models (/usr defaults, /etc overrides, /run ephemeral) that make packaging, updates, and administration safer and more predictable. For embedded Linux, adopting this approach more broadly would enable read-only root filesystems, easy factory resets, and reliable full-system upgrades. This talk will open a discussion on how applications can consume layered configs directly, and how build systems like Yocto or Buildroot could assemble final configuration files from fragments, encouraging a consistent ecosystem-wide model for configuration management across embedded systems.

**Primary author:** Mr WEBSTER, Behan (Linaro)

**Presenter:** Mr WEBSTER, Behan (Linaro)

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