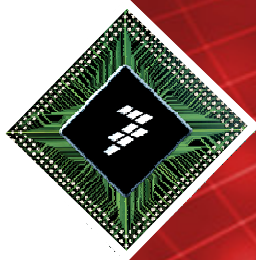




FSL Yocto Layers Reorg

Feb-2013



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Summary of Yocto reorg

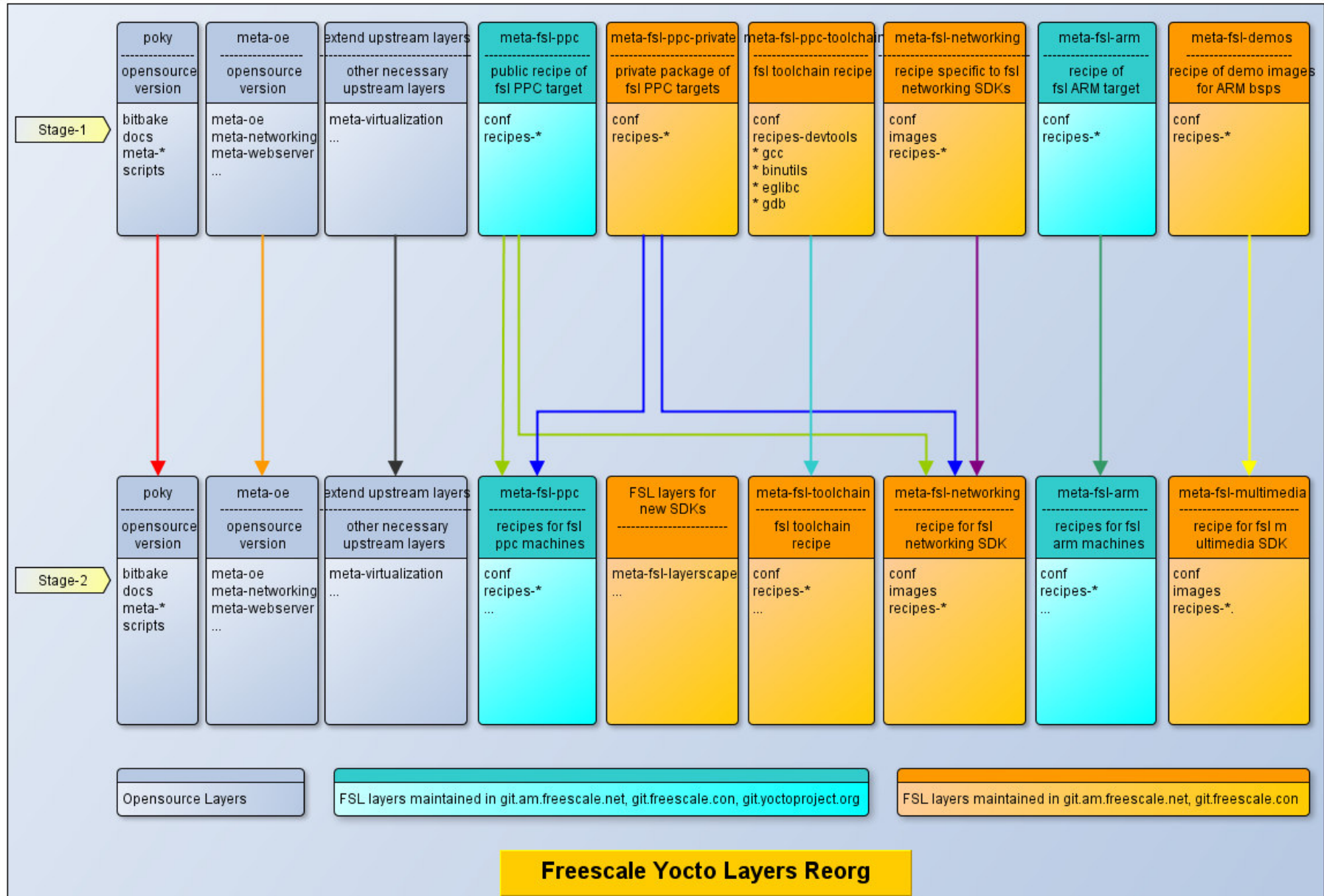
To support Layerscape release, both ARM architecture and PPC architecture are required to be supported by Yocto.

Currently Yocto support for i.MX SDK and QorIQ SDK are developed and maintained separately, some duplicated packages are not shared between ARM SDK and PPC SDK. And will not be efficient and effective maintained for Layerscape support.

More clear naming of Yocto layers for FSL specific will be helpful for PPC, ARM and Layerscape support simultaneously.

Subsequent slides introduces the plan and design of FSL Yocto layers re-org.

FSL Yocto Layers Reorg Design and Plan



FSL Yocto Layers Reorg – Stage1

➤ Stage1: ~ Jun-2013

➤ Following layers will coexist:

- ❖ poky: the opensource version
- ❖ meta-oe: the opensource branch corresponding to poky
- ❖ meta-virtualization: the opensource virtualization layer
- ❖ meta-fsl-ppc-toolchain: fsl toolchain recipes
- ❖ meta-fsl-ppc: fsl public packages for PPC targets
- ❖ meta-fsl-ppc-private: fsl private packages for PPC targets
- ❖ meta-fsl-arm: fsl packages for ARM targets
- ❖ meta-fsl-demos: demo rootfs recipes of ARM targets
- ❖ meta-fsl-networking: recipes specific to networking SDK
- ❖ Other necessary upstream layers

FSL Yocto Layers Reorg – Stage2

- Stage2: Jul-2013 ~ Dec-2013
- Following change will be made:
 - ❖ Poky/meta-oe/meta-virtualization for opensource are reused
 - ❖ Following architecture specific layers are maintained in git.am.freescale.net, git.freescale.com and git.yoctoproject.org
 - meta-fsl-arm: layer for FSL arm machines
 - meta-fsl-ppc: layer for FSL ppc machines
 - ❖ Following SDK specific layers are maintained in git.am.freescale.net and git.freescale.com
 - meta-fsl-toolchain: layer for fsl toolchain recipes
 - meta-fsl-multimedia: layer for multimedia SDK
 - meta-fsl-networking: layer for networking SDK
 - meta-fsl-layerscape: layer for layerscape SDK
 - ...

FSL Yocto Layers Reorg – More info...

Layer of getting layers specific to Freescale SDK

- Layer name: meta-freescale-sdk
- The function of this layer is similar as <https://github.com/Freescale/fsl-community-bsp-platform> and it is maintained in FSL internal/external git tree
- A branch is created for each FSL SDK release to include the scripts to fetch necessary layers of specified version

Multiple branch maintain

- Align with the branch policy of poky: denzil, danny, master ...
- A tag of sub-layers will be created for each FSL release

Meta-fsl-toolchain layer maintain

- This layer is maintained in FSL internal/external git tree
- Directory structure:

```
meta-fsl-toolchain
|-- meta-gcc4.6-eglibc2.13-binutils-2.21a
|-- meta-gcc4.7-eglibc2.15-binutils-2.23
```

SCM

- Unify the mailing list of FSL layers
Opensource: meta-freescale@yoctoproject.org



