TQ Systems Community BSP Release Notes

Release 1.x-current

TQ Systems Community BSP Team

November 17, 2013

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Summary

    Version 1.x

    Release 1.x-current

    Date November 17, 2013

    Status some mature, some in progress

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    Abstract This document has the release notes of the TQ Systems Community BSP 1.x which is a communty effort to improve TQ Systems board support based on different 3rd party meta layer supports in OpenEmbedded and Yocto.

    Target users, developers and integrators

Revision History

Release	Date	Name	Position	Modification
1.x	2013-11-06	Linz		Document created.

Involved Components

- TQ Systems embedded modules
- Poky embedded Linux
- Yocto related

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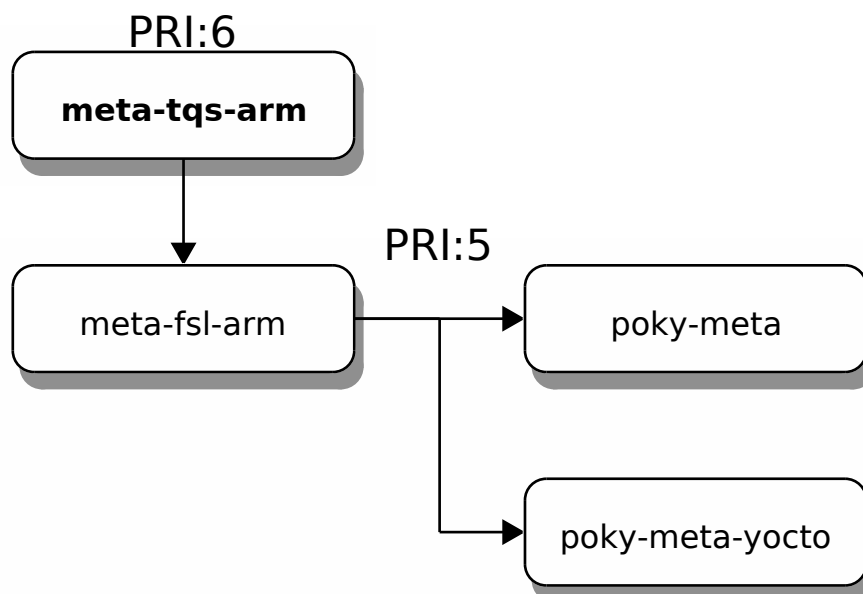
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BSP SCOPE

The scope of this release includes meta-tqs-arm. Please, see in next table the complete supported board list.

Machine	Name	SoC	Layer
qemuarmv6	arm_versatile_1136jfs		meta-tqs-arm
tqma35	TQ System i.MX35 Embedded module (tqma35)	i.MX35	meta-tqs-arm

1.1 Priority of Dependent Layers

Name	Description
meta-tqs-arm	OpenEmbedded/Yocto BSP layer for TQ Systems ARM based platforms (this).
meta-fsl-arm	OpenEmbedded/Yocto BSP layer for Freescale's ARM platforms.
poky-meta	Poky Build Tool and Metadata.
poky-meta-yocto	Yocto Build Tool and Metadata.

LINUX KERNEL

Tqs-community-bsp supports the following sources for Linux Kernel:

- **linux-tqs**: Linux Kernel stable mainline (kernel.org) with machine extensions

2.1 Default Linux Providers

The following table shows the default version of Linux Kernel provided by TQ Systems Community BSP for each supported machine.

Board	Kernel Provider	Kernel Version
qemuarmv6	linux-tqs	2.6.34.14
tqma35	linux-tqs	2.6.34.14

2.2 linux-tqs

linux-tqs provides the Linux Kernel 2.6.34.14 from stable mainline (kernel.org) with TQ Systems embedded module extensions.

Please, see in the following table which are the main features supported by stable mainline kernel for each supported machine.

Machine	Basic Feature List
qemuarmv6	ARM-Versatile PB on an ARMv6
tqma35	

U-BOOT

Tqs-community-bsp supports the following sources for u-boot:

- **u-boot-tqs**: provides the U-Boot 2010.06 version with TQ Systems embedded module extensions and configuration patches.

3.1 Default u-boot Provider

The following table shows the default u-boot version and provider for all supported boards.

Board	u-boot Provider	u-boot Version
tqma35	u-boot-tqs	2010.06

3.2 u-boot-tqs

The following table shows the version of U-Boot provided and supported by TQ Systems for each supported machine.

Board	u-boot Version	TQS BSP
tqma35	2010.06	v2010.06-tqma35-0105

USERSPACE PACKAGES

There is a huge number of userspace packages provided by Yocto. The following table shows some version for few highligthed packages.

Package	Board/SOC family	Version
udev	all	172

KNOWN ISSUES

qemuarmv6

- Qemu ARMv6 is not supported by **runqemu**

tqma35

- Work in progress.