

Product Change Notification		Date
		June 21, 2023
Product	Digi Embedded Yocto Release 4.0-r3 (dey-4.0-r3)	

## Reason for Change

<input type="checkbox"/> Technical Requirement	<input type="checkbox"/> Product Transition
<input type="checkbox"/> Customer Requirement	<input type="checkbox"/> Product Discontinuation
<input type="checkbox"/> Quality Improvement	<input checked="" type="checkbox"/> <b>Product Enhancement</b>
	<input type="checkbox"/> Other

Description of Change	<p>Digi Embedded Yocto version 4.0-r3 is based on the Yocto Project® release 4.0 “kirkstone” and provides feature enhancements, bug fixes and Embedded Documentation Portal updates.</p> <p>Platform Support: CC8M Nano/Mini, CC6UL, CCMP13/15, CC93</p> <p><u>Release changelog</u></p> <p>4.0-r3</p> <ul style="list-style-type: none"><li>• ST-based platforms<ul style="list-style-type: none"><li>○ Added preliminary TrustFence support</li><li>○ Fixed Ethernet PHY pinctrl resuming from deep sleep</li><li>○ Adjust CAN bus parent clock to achieve more accurate baud rates</li><li>○ Add DT overlay for Bluetooth raw test mode</li><li>○ Adjust NAND lines speed settings</li><li>○ Add specific kernel driver for Marvell Ethernet PHY on DVK</li><li>○ Fix race condition on bring up of LAN87xx Ethernet PHY</li><li>○ Disable auto-mount of microSD card to avoid race condition on kernel boot</li></ul></li><li>• NXP-based platforms<ul style="list-style-type: none"><li>○ Added support to ConnectCore 93</li><li>○ U-Boot v2022.04 (based on tag 'lf-5.15.71-2.2.0' by NXP)</li><li>○ Linux kernel v5.15.71 (based on tag 'lf-5.15.71-2.2.0' by NXP)</li><li>○ QT6 6.3.2</li><li>○ Fix PMIC regulators suspend state on ConnectCore 8M Nano</li><li>○ Fix clock initialization issue on LAN8710/20 PHY on ConnectCore 6UL</li></ul></li><li>• General bug fixing and improvements</li></ul> <p>4.0-r2</p> <ul style="list-style-type: none"><li>• Added webkit support</li><li>• ST-based platforms<ul style="list-style-type: none"><li>○ Added support to ConnectCore MP13</li><li>○ Updated BSP</li></ul></li></ul>
-----------------------	--

	<ul style="list-style-type: none"> <li>▪ Updated Trusted Firmware ARM</li> <li>▪ Updated OP-TEE</li> <li>▪ Updated U-Boot v2021.10</li> <li>▪ Updated Linux kernel v5.15.67 (based on tag v5.15-stm32mp-r2 by ST)</li> <li>▪ Updated Wi-Fi driver (based on 'v5.15.58-2023_0222' release from Cypress)</li> <li>▪ Updated Wi-Fi firmware to 'imx-kirkstone-fafnir_r1.0' release from Murata</li> <li>• NXP-based platforms <ul style="list-style-type: none"> <li>○ Added support to ConnectCore 8M Mini</li> <li>○ Added support to ConnectCore 8M Nano</li> <li>○ Updated BSP <ul style="list-style-type: none"> <li>▪ Updated U-Boot v2020.04</li> <li>▪ Updated Linux kernel v5.15.71 (based on tag lf-5.15.71-2.2.0 by NXP)</li> </ul> </li> <li>○ Updated MCA firmware for ConnectCore 6UL to v1.22.</li> <li>○ Added Qt 6.3.2 support for ConnectCore 8M platforms</li> </ul> </li> </ul> <p>4.0-r1</p> <ul style="list-style-type: none"> <li>• Release based on Yocto 4.0 (kirkstone) including: for NXP-based platforms <ul style="list-style-type: none"> <li>○ New toolchain based on GLIBC-2.35</li> <li>○ Updated Qt 5.15.3</li> <li>○ Updated bluez5 to v5.64</li> <li>○ Updated gstreamer1.0 to v1.20.1</li> <li>○ Updated OpenSSL to v3.0.2</li> <li>○ Updated busybox to v1.35.0</li> <li>○ Updated NetworkManager to v1.36.2</li> <li>○ Package upgrades and security fixes</li> </ul> </li> <li>• Updated mca-tool to v1.26</li> <li>• Updated QCA65x4 Wi-Fi firmware and driver to include Cisco Extensions support (qcacld-2.0)</li> <li>• ST-based platforms <ul style="list-style-type: none"> <li>○ Linux kernel v5.15.24 (based on tag v5.15-stm32mp-r1 by ST)</li> <li>○ U-Boot v2021.10</li> </ul> </li> <li>• NXP-based platforms <ul style="list-style-type: none"> <li>○ Linux kernel v5.15.52 (based on tag lf-5.15.52-2.1.0 by NXP)</li> <li>○ U-Boot v2020.04</li> </ul> </li> </ul>
<b>Affected Part Numbers (Supported Platforms)</b>	<p><b><u>ConnectCore 93</u></b></p> <p>ConnectCore 93 System-on-Module (SOM)</p> <ul style="list-style-type: none"> <li>· CC-WMX-YC7D-KN</li> </ul> <p>ConnectCore 93 Development Kit</p> <ul style="list-style-type: none"> <li>· CC-WMX93-KIT</li> </ul>

**ConnectCore MP13**

ConnectCore MP13 System-on-Module (SOM)

- CC-ST-DX58-ZK
- CC-WST-DX58-NK

ConnectCore MP13 Development Kit

- CC-WMP133-KIT

**ConnectCore MP15**

ConnectCore MP15 System-on-Module (SOM)

- CC-ST-DW69-ZM
- CC-WST-DW69-NM

ConnectCore MP15 Development Kit

- CC-WMP157-KIT

**ConnectCore 8M Mini**

ConnectCore 8M Mini System-on-Module (SOM)

- CC-MX-ET7D-ZN
- CC-MX-ET8D-ZN
- CC-WMX-ET7D-NN
- CC-WMX-ET8D-NN

ConnectCore 8M Mini Development Kit

- CC-WMX8MM-KIT

**ConnectCore 8M Nano**

ConnectCore 8M Nano System-on-Module (SOM)

- CC-WMX-FS7D-NN
- CC-WMX-FR6D-NN
- CC-MX-FS7D-ZN
- CC-MX-FR6D-ZN

ConnectCore 8M Nano Development Kit

- CC-WMX8MN-KIT

**ConnectCore 6UL**

ConnectCore 6UL System-on-Module (SOM)

- CC-WMX-JN58-NE
- CC-MX-JN58-Z1
- CC-WMX-JN59-NN
- CC-WMX-JN7A-NE
- CC-WMX-JN7A-CBX
- CC-WMX-JN68-NN
- CC-WMX-JN69-NN
- CC-MX-JN69-ZN

	<p>ConnectCore 6UL SBC Pro</p> <ul style="list-style-type: none"><li>· CC-WMX6UL-KIT</li><li>· CC-SBP-WMX-JN58</li><li>· CC-SBP-WMX-JN7A</li></ul>
<b>Timing of Change</b>	<p>Available in the embedded documentation portal now: <a href="http://www.digi.com/resources/documentation/digidocs/embedded/index.html">www.digi.com/resources/documentation/digidocs/embedded/index.html</a></p> <p>Download available on Github: <a href="https://github.com/digi-embedded/meta-digi/tree/kirkstone">https://github.com/digi-embedded/meta-digi/tree/kirkstone</a></p> <p>Digi Support website (select SOM platform and go to “Development Software and Sample Code” section): <a href="http://www.digi.com/support/supporttype?type=firmware">www.digi.com/support/supporttype?type=firmware</a></p>
<b>Notes</b>	<p>Requires software upgrade on existing product. Release Notes: <a href="https://github.com/digi-embedded/meta-digi/tree/kirkstone">https://github.com/digi-embedded/meta-digi/tree/kirkstone</a></p>
<b>Authorization</b>	Digi International Embedded Product Management