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*Technical Note*

**Release note for Vision Remote Embedded Linux**

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Document No: TN-0090

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# 1 General

## 1.1 Purpose

This document contains SW release notes for Vision Remote Embedded Linux (VREL). These notes contains relevant information for end users that uses Vision Remote systems.

## 1.2 Common code base

The VREL is common for both VM-110 RU, VM-110 BU and VX-100 BU. Under each release there will be a comment for which platform the release is valid for.

# 2 Release history

## VREL 24.02 (r1)

Date: 2025-01-02

VREL 24.02 is the first OS image released by Vision Remote that builds a custom Yocto Linux distribution on top of \*Digi Embedded Yocto (DEY)\* rather than using OS images from Digi mostly as-is.

The purpose of this transition is to improve how we handle software compatibility across devices and to prepare for a simpler and more robust software upgrade strategy as the project evolves.

Most of the changes included in this release come from Yocto 4.0 (kirkstone) and DEY 4.0.

### Changes:

**\*\*Linux kernel bumped from v5.4 to v5.15\*\*** - Inherited from DEY 4.0. This set of patches from Digi has improved kernel security capabilities and better hardware support for the ConnectCore 6N.

**\*\*Init system changed from SysVinit to Systemd\*\*** - Inherited from Yocto 4.0 (kirkstone). This change enables more granular control of the booting process and better logging/troubleshooting capabilities at the cost of slightly slower boot times.

**\*\*Bumped distributed Qt version from v5.13 to v5.15\*\*** - Inherited from Yocto 4.0 (kirkstone). Testing indicates good compatibility with the previous release.

**\*\*Firewall policy ( `iptables` ) changed to DROP\*\*** - Changed default firewall policy from ACCEPT to DROP. This solves an issue where packets forwarded from the EG-Link port could mess with DNS behavior. Ports 22 (ssh) and 80/3000 (web interface) on the EG-Link port have been opened by default. Other ports must be opened manually by editing the configuration ( ` /etc/iptables/iptables.rules ` ). The Test Port remains less restricted. [BU only]

### Added:

**\*\*Updated network drivers\*\*** - Added drivers for revised network hardware on the Digi ConnectCore 6N system-on-module. This addition is backwards- and pin compatible with the previously used ConnectCore 6 SoM.

**\*\*OS-native drivers for backlight and display\*\*** - Added kernel drivers for i2c backlight and display used on VM-110 RUs, allowing this hardware to be decoupled from libvisionlink in the future.

**\*\*Systemd services for Vision Remote software\*\*** - Added services for startup of VisionLink Server [BU] and VM-110 Dashboard [RU], replacing the old init.d daemon scripts. Also added services for logging of Vision Remote software.

**Removed:**

**\*\*SysVinit (`init.d`)\*\*** - Inherited from Yocto 4.0 (kirkstone). Removed SysVinit as it is no longer in use after moving to Systemd. `systemd-sysvinit` is included for compatibility to allow running legacy init daemon scripts if necessary.

**Compatibility notes:**

The following patches to other Vision Remote software has been updated and tested to support this release:

- \* libvisionlink v2.2.2 (VM-110)\*
- \* VisionLink Server v2.1.2 (VM-110) | v1.3.13 (VX-100)
- \* BU web interface v1.4.1 (VM-110 | VX-100)

> \\*) VREL and libvisionlink v2.x currently not supported on VX-100 RU.

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**VREL DEY-3.0 (r4)**

Date:

## DEY 3.0 (r4)

Vision Remote has been using a Yocto Linux distribution provided by Digi up to and including this release (`dey-3.0-r4`).

For more information about this distribution, see [<https://github.com/digi-embedded/meta-digi>](<https://github.com/digi-embedded/meta-digi>).