

	Doc or ECO #:	ECO-71632-004	Date:	10/2/2020	Author:	aeg
	Rev. #:	A				
Engineering Change Order (ECO)	Engineering Approval:	aeg	Date:	10/2/2020	Quality Approval	aeg

P/N #:	71632	Effective Date:	October 2, 2020
Title:	UDEV updates for DAGR, GPS and USBL		

1.0 Purpose / Summary

To support a better user experience when using plug and play USB devices the UDEV rules were modified to provide consistent device file naming.

2.0 Parts Affected

Part Number	Notes	Removed	Added	Modified	REV
71632	UDEV rules updated	☐	☐	☒	D

3.0 Detail

To ensure that a device file with persistent naming is generated on each insertion we created a udev file to map the FTDI devices to device file names.

A rule for the DAGR was made, VideoRay matches the FTDI programing with the 5Hz GPS puck so that they can be used interchangeable.

Blueprint Subsea also updated their USB interface for the USBL. The udev rules were updated to support this as well.

To install copy the file **99-usb-serial.rules** (using sudo) into **/etc/udev/rules.d/**

Reboot the computer for the new rules to take effect.

Current UDEV rules:

```
KERNEL=="ttyUSB*", ATTRS{manufacturer}=="Prolific Technology Inc. ", SYMLINK+="vrGPS"
KERNEL=="ttyUSB*", ATTRS{manufacturer}=="VideoRay", ATTRS{product}=="VIDEORAY GPS", SYMLINK+="vrGPS"
KERNEL=="ttyUSB*", ATTRS{manufacturer}=="FTDI", ATTRS{product}=="US232R", SYMLINK+="vrUSBL"
KERNEL=="ttyUSB*", ATTRS{manufacturer}=="FTDI", ATTRS{product}=="USB-RS232 Cable", SYMLINK+="vrUSBL"
KERNEL=="ttyUSB*", ATTRS{manufacturer}=="Sealevel", SYMLINK+="vr485"
```

A .deb file was made for installation, however since it will not overwrite files without using a dpkg --force-overwrite command line its utility is limited.

At the time of ECO publishing only EOD Workspace config files are currently setup to use the new symlinks. This feature will be rolled into the next release of basic and pro workspace.

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4.0 Disposition of Material

No disposition required.

5.0 Action Items

Action	Department	Acknowledgement Initials
Place on FTP	Eng	AEG
Update next build releases	Eng	AEG
Ensure file is manually loaded on systems as needed	Eng	AEG
Modify current pro/basic systems as needed	Eng	AEG
Field update Navy Systems	Support	RC

6.0 Modified / Referenced Documents:

Document	Current Revision
99-usb-serial.rules	N/A

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7.0 Revision History

Date Revised (mm-dd-yyyy)	Location of Change (section, paragraph no., step no., etc.)	Description of Change Made	Name of Person making the Change
10/2/2020		Init release	AEG