

	Doc or ECO #:	ECO-72040-001	Date:	3/5/2020	Author:	Aeg
	Rev. #:	A				
Engineering Change Order (ECO)	Engineering Approval:	Aeg	Date:	3/5/2020	Quality Approval	SL

P/N #:	72040	Effective Date:	March 5, 2020
Title:	VR EOD Workspace Release 3.2		

1.0 Purpose / Summary

Greensea systems has released a new version of EOD Workspace for VideoRay systems.

2.0 Parts Affected

Part Number	Notes	Removed	Added	Modified	REV
72040	VideoRay Supervised Autonomy Control Greensea EOD Workspace Upgrade to 3.2	☐	☐	☒	3.2

3.0 Detail

A new version of EOD workspace has been released.

20200224_videoray_v3.2.0-4189435_ubuntu_bionic_x86_64.run

This is installed as a update overtop 2.5.0 installs.

A new work instruction for performing the upgrade has been drafted and published.

VideoRay and NIWC personel have performed multiple upgrades and both teams have performed validation testing.

Note that the Advanced and Basic Greensea packages have not been sync'd to this version yet.

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VR EOD Workspace 3.2 Release Notes

February 21, 2020

Project VR Package List

The following applications are included in the VideoRay EOD Workspace installer.

- libgss_types v2.3.0
 - libopensea v10.1.5
 - libgss_filters v1.1.2
 - openmngvr v4.2.0
 - openfls v1.5.1
 - opencmd v2.0.2
 - gss_process_server v1.1.0
 - gss_process_client v1.1.4
 - gssbin_log_processor v1.1.1.1
 - gss_alarm_manager v1.1.2
 - gss_signal_mapper v1.1.1
 - gss_linux_joystick v1.3.1
 - gss_linux_event v1.1.1
 - gss_sensory_cam v1.1.2
 - opencmd_dynamics_sim v1.1.1
 - gss_nmea2gss v1.2.5
 - gss_gss2nmea v1.2.5
 - gss_videoray_bus v1.2.2
 - gss_turns_count v1.1.1
 - gss_keygen v1.1.1
 - gss_dvl v2.0.2
 - gss_blueprint_seatrac v1.1.0
 - gss_backup_update_restore v1.3.0
 - gss_inuktun_manip v1.0.0
 - gss_nav_mux v1.1.1
 - gss_depth v1.3.2
 - gss_turns_count v1.1.2
 - openins
- 2e7ec6df2d1aea77a47aee3a058c74a8f827
26c8 # vr branch as of 2019/12/03
- videoray_pcs v1.3.0
 - libworkspace_essentials v6.0.0
 - libworkspace_widgets v4.5.3
 - libworkspace_customer_placeholder v2.1.1
- install
- libworkspace_videoray v1.0.0
 - workspace v3.32.0

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What's New

General

- Added gss_videoray_bus to process view.
- Updated applicable configs for the new version of OPENMNGR.
- mss_component.yml has been renamed to vehicle_component.yml.
- openins_task_config.yml Pconfig_gps_max_accepted_hdop has been changed from 15 to 1.2.

Installation

- The installer now requires a target to be successfully completed. The target for this installer is **vr_eod**. Users will be prompted to select a target when installing by adding it to the end of the installation command as in the example below:

```
sudo ./20200205_videoray_v3.1.1_ubuntu_bionic_x86_64.run -- vr_eod
```

The **vr_eod** target will install the EOD Workspace software package using the standard EOD workspace configs.

- The installer will create three icons on the desktop. These icons will use the Greensea logo.
 - EOD Workspace. This will launch EOD Workspace.
 - The Playback EOD Workspace launcher. This will launch Playback EOD Workspace.
 - The Manual. This will open a PDF Manual.
- Config files are now installed in the **/opt/greensea/videoray** directory.
 - Config files in the **/opt/greensea/** folder are owned by root.
- The installer will automatically generate/install ssh keys for the local machine if they don't already exist.

Controller Support

- There is now only one config file for controller maps (single vr_sigmaps.yml) both XBOX and VideoRay handbox controller inputs are managed from this file.
- Added stick gains widget in Workspace. It is found in the lower-right corner of Workspace in the controls tab.
- Added udev rules for XBOX controller and Videoray handbox to make them hot-swappable. Only one controller can be plugged at a time.
- Added support for manipulator control via Videoray controller.

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Bug Fixes

- Fixed lag observed when attempting to stop the Inuktun manipulator.
- Fixed remote update arguments.
- Fixed Oculus pausing by updating openfls from v1.4.8 to v1.5.1.
- Updated all target process server configs to have the 'network_speed=10' arg to openfls.

Known Issues

- The Buttons widget in the Vehicle Configuration tab of Diagnostics View does not currently register XBOX Controller Input.
- Video slowdown has been observed occasionally when operating in full screen video mode. This does not impact video recording.

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4.0 Disposition of Material

NIWC has upgraded all their fleet vehicles and will continue to upgrade their vehicles as needed.

Any EOD workspace customers can update to version 3.2

Some in house engineering systems and sales demo systems were upgraded. No additional internal upgrades are currently planned, but can be done as needed.

5.0 Action Items

Action	Department	Acknowledgement Initials
Epicor Update	ENGR	AEG
Publish to FTP	Purchasing	JB
Produce 70218 from latest WI-70218; Rev E	Production	KK

6.0 Modified / Referenced Documents:

Document	Current Revision
WI-EOD_WORKSPACE-UPGRADE	A
20200224_videoray_v3.2.0-4189435_ubuntu_bionic_x86_64.ruu	
VR_EOD_3.2_Release_Notes	

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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
3/5/2020		Initial Submission	aeg