

Hampson-Russell
A CGGVeritas Company

Release Notes - Software Release CE8/R4.1

(Last Revision: June 9, 2009)

Software Release Date: June 8, 2009

List of Products:

Product Name:	Features supplied for version CE8/R4:			Comments:
AFI	afi			Must also have AVO.
AVO	avo	geoview pro3d	elog	
eLog	elog	geoview		
EMERGE	emerge	geoview	elog	
GLI3D	gli3d			
ISMap	ismap	Geoview		
Pro4D	pro4d	geoview		
ProMC	promc	geoview		
STRATA	strata	geoview bstrata	elog	
GeoView	geoview	seisloader		Please read a disclaimer notice below.
		view3d		Please read a disclaimer notice below.

Product Name:	Licenses Supplied with Products														
	afi 3.00	avo 7.00	bstrata 7.00	elog 5.00	emerge 5.00	geoview 5.00	gli3d 8.00	glipick 8.00	ismap 6.00	pro3d 7.00	pro4d 3.00	promc 2.00	seisloader 1.00	strata 7.00	view3d 1.00
AFI	+														
AVO		+		+		+				+			+		+
AVO modeling		+		+		+							+		+
AVO processing						+				+			+		+
eLog				+		+									
EMERGE				+	+	+							+		+
GLI3D							+	+							
ISMap						+			+				+		+
Pro4D						+					+		+		+
ProMC						+						+	+		+
STRATA			+	+		+							+	+	+

List of New Features and Enhancements:

Summary

This is a patch release, containing rigorous bug fixes and some enhancements.

The Most Important Features:

1. We have upgraded Well Exchange / GeoFrame to version 4.4.
2. We now added seismic data support for OpenWorks R5000 on 64-bit Linux platforms.

Details

Geoview

See also the Third party data connections section below for OpenWorks and GeoFrame well, log and tops handling and improvements.

1. We corrected the log unit mapping of “v/v” for Porosity logs input from LAS files. (#2469)

eLOG

2. The export of computed curves from ELOG now honors the KB elevation. (#2750)
3. The export of 0-offset synthetic in time now also exports the time values. (#2759)

Fluid Replacement Modeling (FRM)

4. We have updated FRM to automatically avoid impossible values. FRM now identifies where the Biot-Gassman equations produce values out of their physical ranges and recalculates these values using a least-squares fit and variables constrained within bounds.
5. We added porosity, saturation and volumetric units to FRM, and fixed bugs related to the use of units.

AFI

6. The Castagna parameters are now saved.

AVO

AVO Analysis and Processing:

See also the General section below for seismic data handling and other general improvements.

AVO Modeling:

See also eLog section above for more log curves related editing and FRM.

7. The interpolated intermediate logs that can be generated during wedge modeling now will have the correct time values when the KB is not set the same as the surface. (#2758)

EMERGE

8. To increase the stability of the error plots, all the previously opened application plot windows are now closed if a user re-runs the “train neural network” or “create single attribute list” options. (#2764)

See also the General section below for seismic data handling and other general improvements.

GLI3D

Nothing new this release.

ISMAP

9. We have added an option to move wells to a grid in kriging.

PRO4D

10. The 4D inversion now works correctly whenever the wavelet list has an empty wavelet in the top of the list. (#2741)
11. The time shift interpolation method now interpolates through zeroes that are used to represent null values in the grid model. (#2743)
12. We have solved the shaping filter instability that caused ringing in the filter. (#2751)
13. You can now cross plot imported data slices. (#2752)
14. The wavelet frequency response is now scaled correctly. (#2753)

See eLOG above for some items related to well log editing and FRM. See also the General section below for seismic data handling and other general improvements.

PROMC

Nothing new this release.

See eLOG above for some items related to well log editing and FRM. See also the General section below for seismic data handling and other general improvements.

STRATA

15. We have fixed an error in gathering the initial model trace for a deviated well in Inversion Analysis. The error happened when the domain of the initial model was “Two-Way Time (ms)” instead of “(ms)”. This error has been present since the CE8R2 release. (#2735)

See also the General section below for seismic data handling and other general improvements, and see eLOG above for some items related to well log editing.

GENERAL

Data Slice, Base Map, Horizons

16. Map Utilities now handles missing picks when cross plotting two horizons. (#2742)

Installation

Cross Plot

Time-Velocity Table

Seismic Data Handling

17. For Linux systems, the seismic process output now correctly reports the disk space available. (#75)

Trace Plotting

Wavelet

18. In the reversed polarity synthetics convention, we have fixed an error in the constant phase wavelet extraction using wells method. This error was introduced in CE8R3. (#2765)
19. We have fixed an error in wavelet extraction using wells when the well log is missing in the extraction window and is shorter than the seismic trace. A shortened length of seismic trace is now used rather than extending the length of the well log. (#2678)

Third party data connections

Well Exchange / GeoFrame

20. Upgraded Well Exchange / GeoFrame to version 4.4. (#2330)
21. Well coordinates imported from GeoFrame now match the selected projection system. (#2289)

Well Exchange / OpenSpirit

Well Exchange / OpenWorks

SeisWorks

22. We now added seismic data support for OpenWorks R5000 on 64-bit Linux platforms. (#2274)

View3D

Hampson-Russell Assistant

23. We have updated and improved parts of the Assistant and expanded its index.

FTP Download

The software installation images can be found at our ftp sites. Please visit <http://www.cggveritas.com/hampson-russell> for instructions and details.

CD and Package Labels

<i>Platform</i>	<i>Version</i>	<i>Date Label</i>
SUN / Sparc Solaris	CE8/R4.1	June 8, 2009
SGI / IRIX	CE8/R4.1	June 8, 2009
LINUX / Red Hat	CE8/R4.1	June 8, 2009
PC / Windows	CE8/R4.1	June 8, 2009

Supported Operating Systems are listed on the **HRS Hardware Specifications** page at http://www.cggveritas.com/data//1/rec_docs/812_HRS_Hardware_Specification_2008-12.pdf.

Note: Some modules are not available for some platforms. See the Compilation Dates table below, visit our web site <http://www.cggveritas.com/hampson-russell>, or contact our support staff for more details.

Compilation Dates

<i>Executable/Module</i>	<i>Solaris</i>	<i>IRIX</i>	<i>Linux</i>	<i>Windows</i>
AFI	May 28, 2009	May 28, 2009	May 28, 2009	May 28, 2009
Autocal(32-bit)	May 29, 2009	May 29, 2009	May 29, 2009	May 28, 2009
Autocal(64-bit)	May 29, 2009	Not Available	May 29, 2009	May 28, 2009
Backgroundservices (32-bit)	May 29, 2009	May 29, 2009	May 29, 2009	May 28, 2009
Backgroundservices (64-bit)	May 29, 2009	Not Available	May 29, 2009	May 28, 2009
AVO	May 28, 2009	May 28, 2009	May 28, 2009	May 28, 2009
eLog	May 28, 2009	May 28, 2009	May 28, 2009	May 28, 2009
EMERGE	May 28, 2009	May 28, 2009	May 28, 2009	May 28, 2009
GeoView(32-bit)	May 29, 2009	May 29, 2009	May 29, 2009	May 28, 2009
GeoView (64-bit)	May 29, 2009	Not Available	May 29, 2009	May 28, 2009
logdialog	May 28, 2009	May 28, 2009	May 28, 2009	May 28, 2009

GLI3D	Sept 23, 2008	Oct 9, 2008	Sept 23, 2008	Not Available
ISMap	May 28, 2009	May 28, 2009	May 28, 2009	May 28, 2009
ismapEmerge(32-bit)	May 29, 2009	May 29, 2009	May 29, 2009	May 28, 2009
ismapEmerge(64-bit)	May 29, 2009	Not Available	May 29, 2009	May 28, 2009
Pro4D	May 28, 2009	May 28, 2009	May 28, 2009	May 28, 2009
ProMC	May 28, 2009	May 28, 2009	May 28, 2009	May 28, 2009
SeisLoader(32-bit)	May 29, 2009	May 29, 2009	May 29, 2009	May 28, 2009
SeisLoader(64-bit)	May 29, 2009	Not Available	May 29, 2009	May 28, 2009
STRATA	May 28, 2009	May 28, 2009	May 28, 2009	May 28, 2009
strataBatch(32-bit)	May 28, 2009	May 29, 2009	May 29, 2009	May 28, 2009
strataBatch(64-bit)	May 28, 2009	Not Available	May 28, 2009	May 28, 2009
View3D (32-bit)	Not Available	Not Available	May 29, 2009	May 28, 2009
View3D (64-bit)	May 29, 2009	Not Available	May 29, 2009	May 28, 2009
swsv (SeisWorks) Emerald City R2003.12	Feb 20, 2009	Dec 11, 2007	March 4, 2009	Not Available
swsv (SeisWorks R5000)	Feb 20, 2009	Not Available	March 2, 2009 (32 bit), March 31(64-bit)	Not Available
WLEx (OpenWorks Emerald City R2003.12)	May 14, 2009	May 14, 2009	May 14, 2009	Not Available
WLEx (OpenWorks R5000)	May 15, 2009	Not Available	May 14, 2009	Not Available
WLEx (OpenSpirit)	May 14, 2009	Not Available	May 14, 2009	May 11, 2009
WLEx (GeoFrame 3.8.1)	Oct. 24, 2004	Not Available	Not Available	Not Available
WLEx (GeoFrame 4.0.2)	Feb. 1, 2006	Not Available	Not Available	Not Available
WLEx (GeoFrame 4.04)	Feb. 1, 2006	Not Available	Not Available	Not Available
WLEX (GeoFrame 4.2)	Feb. 1, 2006	Not Available	Feb. 1, 2006	Not Available
WLEX (GeoFrame 4.3)	Sep 7, 2008	Not Available	Sep 7, 2008	Not Available
WLEX (GeoFrame 4.4)	Not Available	Not Available	May 15, 2009	Not Available
OpenSpirit (well data support)	2.9.4, 3.1.1	Not Available	2.9.4, 3.1.1	2.9.4, 3.1.1

OpenSpirit (seismic data support)	2.9.4	Not Available	2.9.4	2.9.4
FLEXlm 32-bit applications	8.1b	8.1b	9.5.0	8.1b
FLEXlm 64-bit applications	9.5.0	Not Available	9.5.0	FLEXnet 11.4.0
FLEXnet License Manager (Hamp-Russ, and lmgrd package)	11.4.0	FLEXlm 8.1b	11.4.0	11.4.0
	<i>Solaris</i>	<i>IRIX</i>	<i>Linux</i>	<i>Windows</i>
Adobe (Acrobat) Reader is no longer included. If you need Adobe Acrobat, please see your IT department. Our help system is no longer in pdf format, but our tutorial guides are still in that format.				

Disclaimer for SeisLoader and View3D:

SeisLoader is one of the many new features added to the Hampson-Russell suite of software for the CE8 releases. However, we specifically limit the licensing of SeisLoader to the CE8 releases only, due to the nature of this product. Although we think you will find SeisLoader to be an excellent addition to our product line, with its simplified data loading, viewing, and ease of interpretation, SeisLoader is currently a prototype for the new seismic interpretation interface for all of our products.

We hope that you will use, enjoy and provide feedback on the interface over the coming months, and provide us with the information to refine the design and incorporate your ideas. The new seismic interpretation interface will be incorporated into our main product lines and SeisLoader as a stand-alone utility will not be in the CE9 release.

Similarly, View3D is a visualization tool which will be incorporated gradually into all our products.