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TECHNICAL BULLETIN

AA-12096

Revision A September 10, 2014



SUBJECT: 429 HUMS Software

- PARTS AFFECTED: Aeronautical Accessories Health and Usage Monitoring System (HUMS) Kit P/N 429-260-001
- **MODELS AFFECTED:** Bell Helicopter Textron Canada Limited model 429 helicopters with subject HUMS Kit installed in accordance with FAA STC SR09536RC-D.
 - **COMPLIANCE:** Compliance with this bulletin is per Customer's option.
 - **DESCRIPTION:** This Technical Bulletin is issued to allow owners to upgrade their HUMS processor to the current software configuration, V5.5 SP4, Database Configuration V36.
- FAA/ODA APPROVAL: The engineering aspects of this Technical Bulletin are FAA/ODA approved.
 - **MANPOWER:** Approximately 2.0 man-hours. (*Man-hours are based on hands-on time and may vary with personnel or available facilities*)

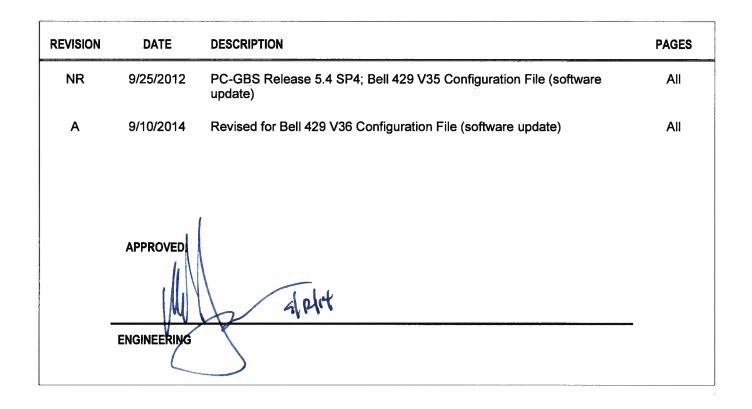
IF OWNERSHIP OF AIRCRAFT HAS CHANGED, PLEASE FORWARD THIS BULLETIN TO NEW OWNER

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LOG OF REVISIONS



1.0 MATERIALS REQUIRED

- 1. Bell 429 V36 Configuration File
- 2. Label P/N 1209-3196-PF

Material Type:	Brady Label THT-17-425-3 or equivalent
Text Color / Font Size:	Black / 9 point
Background Color:	White
Dimensions:	Per Figure 1

3. Label P/N 1209-3198-PF (if required)

Material Type:	Brady Label THT-166-424-2 or equivalent
Text Color / Font Size:	Black / 9 point
Background Color:	White
Dimensions:	Per Figure 2

2.0 WEIGHT AND BALANCE

Not affected.

3.0 PUBLICATIONS AFFECTED

None

4.0 ADDITIONAL INFORMATION

Any questions regarding this bulletin should be addressed to: Aeronautical Accessories Bell Helicopter Piney Flats Attn: Technical Support 450 Industrial Park Rd. Piney Flats, TN 37686-4419

Email: techsupport@aero-access.com

Toll free: 1-800-251-7094

5.0 ACCOMPLISHMENT INSTRUCTIONS

5.1 DOWNLOAD INSTRUCTIONS

- Go to Bell Helicopter Vibration Monitor website: <u>https://bhti-imds.iac-online.com/index.asp</u>
 If customer does not have a username and password, contact Bell Helicopter
 Product Support Engineering at <u>pseinter@bh.com</u>
- 2. Download PC-GBS release 5.5 SP4 from the website (5.5_SP4_Bell429_V36.zip).

5.2 INSTALLATION INSTRUCTIONS

- 1. Unzip the downloaded PC-GBS release 5.5 SP4 using Winzip.
- 2. Open the 'GBS' folder.
- Follow the Honeywell Software Installation Instructions (Document No. 1796-0012-GP, revision B, or later approved revision) to install the Bell 429 V36 Configuration File on the HUMS Processor (see Appendix A).

Refer to the following information when verifying the system configuration:

Tail Number:(Aircraft Serial Number)Aircraft Setup File:Setup_429_36OBS Version:5.5.402

5.3 PROCESSOR LABELING

- 1. Fill in the required data on the 429 HUMS Processor Label (1209-3196-PF) as shown in Figure 1. Install Label per Document No. 1796-0012-GP.
- 2. Verify the information on the existing Label (1209-3198-PF) reflects the current software version. Update the Label if necessary as shown in Figure 2.
- 3. Software update complete.

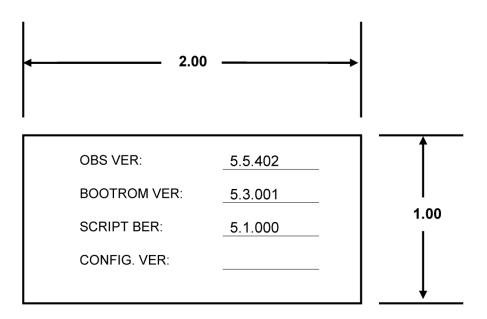


Figure 1: Label, P/N 1209-3196-PF

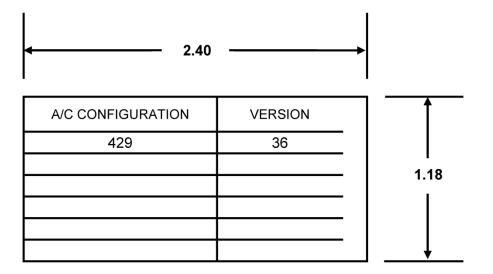


Figure 2. Label, P/N 1209-3198-PF

APPENDIX A

Document No. 1796-0012-GP

ECA Software Installation Instructions for Bell 429 & PC-GBS



Document No. 1796-0012-GP

ECA Software Installation Instructions

For

Bell 429 & PC-GBS

Revision B

Date: 11 Feb 2014

Prepared by Honeywell Aerospace 13475 Danielson Street, Suite 100 Poway, CA 92064

This data has been approved by BHTI ODA-710621-SW, IAW the FAA-appeared ODA Procedures Manual 2250142014

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Revision History

Revision Number	Date	Prepared By	Description
-	23 Feb 2011	Chuck Kemp	Initial Release
A	26 Jan 2012	JP Cain	Update to add Re-import instructions for data collected if engines are not started. Instructions formatted to be generic and not specific to software version.
В	11 Feb 2014	RR/JV	Updated the document to be more user friendly for 5.4 to 5.5 software upgrade.
			Incorporated customer feedback.

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1 INTRODUCTION

NOTE

This instruction outlines the information necessary to install the ground based software and to upgrade the onboard system. When installing the aircraft configuration file, the user is reminded to use the versions specified in the Bell Instruction. The following document uses PC-GBS v5.5.402, OSIF v5.5.402, 429_35.CSIF as examples throughout the document for the upgrade. Final validation shall be done against versions specified.

Important:

The following upgrade instructions assume that the system being upgraded is loaded with OBS and PC-GBS **V5.4.XXX** production releases.

1.1 Overview

The HUMS 1134 system may require up to three software elements to be configured correctly in order to successfully accomplish a software update:

- 1. PC-GBS (the Ground Station Software)
- 2. Configuration Setup Installation File (*.csif file)
- 3. On-Board System Setup File (*.obs, extracted from the .osif; this may include firmware updates)

The PC-GBS software including CSIF and OSIF components needed to perform this update can be downloaded from the Bell iMDS Server as a single zipped file '5.5_SP4_Bell429_V35.zip' or located on a Honeywell provided CD. Please follow steps elaborated in Section 3.1.

NOTE

- PC-GBS is delivered as an archive file and must be extracted before use. To extract the files from the archive, first create a temporary directory on your local hard drive (for example C:\Installer-PCGBS). Then extract the files from the .zip archive to that location using WinZip or any other available program that will process *.zip files. WinZip is available from http://www.winzip.com/.
- 2. The onboard software (.OSIF) and the configuration information file (.CSIF) may also be delivered as an archive (zip) file due to FTP browser preferences, but need to have the proper extensions. This should be detected and corrected upon download. Save the file as 'All Files' file type and fill in the file extension to match the type being downloaded (e.g. .CSIF or .OSIF).
- 3. During the upgrades, if existing flight data is present, you will be asked if you want to re-import the existing data. It is recommended that you select 'No'.



- Depending on the amount of data present, the importing process could take hours. Data can be imported at a later time using the Import Data -> Raw Data menu selection if 'No' is selected.
- 5. If prompted to re-map sensors, it is recommended to select 'Ignore' and pressing 'OK'.

2 DESCRIPTION OF ACRONYMS AND ABBREVIATIONS

CSIF	Configuration Setup Information File
ECA	Embedded Common Architecture
HUMS	Health and Usage Monitoring System
OBS	On Board Software
OSIF	On-Board Software Installation File
PC-GBS	Personal Computer-Ground Based System
XSVF	Xilinx Serial Vector Format

3 PRE-REQUISITES AND SEQUENCE OF UPGRADING HUMS SOFTWARE

Be sure that you have administrative rights to install PC-GBS. These instructions are to be used for Windows XP installation. If using Windows 7, please refer to Section 4.1 to enable Windows Compatibility mode. It is also suggested that the user's PC conforms with the US Date Format.

The following steps are covered in detail:

- Installing version 5.5 PC-GBS or later, as specified in the Bell Instruction.
- Loading CSIF Bell 429 v35 or later, as specified in the Bell Instruction.
- Loading OSIF Bell 429 OBS v5.5 or later, as specified in the Bell Instruction.
- Checking the existing software versions.
- Connecting to the box and uploading software and configuration setup.
- Verifying the load completion and software versions.

3.1 Copying the installation files

The Software package is installed from either of these 2 locations:

- The Bell iMDS server
- Honeywell provided CD

3.1.1 Copying Installation package from Bell iMDS server (zipped version)

1) To download the software from the Bell iMDS server, please navigate to this address and login with your credentials: <u>https://bhti-imds.iac-online.com/</u>

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	Chevron 429	100%	2
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	429	100%	2
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= 429 • \$ \$ 429 Components			
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About Server			
			Internet Protected Mode: Off √a ▼ €,100% ▼

The main page will appear similar to the below screenshot.

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2) Click on 'Download' at the bottom left of the window.

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Chevron 429	UNIT	Status		Count		
	Chevron 429		100%	2		
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3) Select 'PC-GBS Programs' tab.

BHVM Server - Bell iMDS Website - Windows Internet Explorer		
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	Program Downloads	
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Done	Sinternet Protected Mode: Off	

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4) Save '5.5_SP4_Bell429_V35.zip' on the local machine.

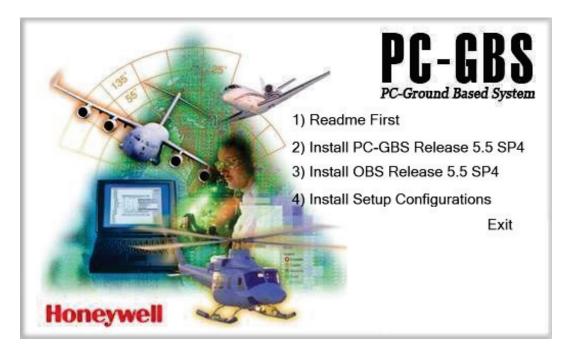
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	BHVM Server - BelliMDS Website C - Search Search	Save As Crganize Desktop Pavorites Desktop Desktop Downloads Downloads Doptox Recent Places Douments Douments Subversion Subversion Fle name Save as type WinRAR ZIP archive	 44 Search Desitop 25 ▼

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5) The file should be unzipped using WinZip or other unzip utility to the Desktop.

🔍 🏷 🚱 🏹 🗸 WinZip - 5.	5_SP4_Bell429_V35.zip			
Home Backup	Tools Settings	Layout Help Upgr	ade	0
Zip Filter * Compress	 FTP Upload + Burn CD/DVD Convert Zip File Send 	1-Click Unzip Unzip • Unzip Cp Unzip • Unzip Ent Decompress		Select Editing
Address \				- 🗈 🌶 💽 🖽 - 🗀
Folders × [] [5.5_SP4_Bell429_V35.zip] [] CSI [] GBS [] OSI				
🍌 src	CSI	GBS	IZO	src
	Autorun.inf	Menu.exe	readme.txt	
Selected 1 file, 359KB		Total 103 files, 104,20	94KB) 💭 🕒

6) Once unzipped and saved on a local computer, double click on the 'Menu.exe' to open the installation utility.



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3.2 Upgrading to version 5.5 or later

3.2.1 Installing PC-GBS version 5.5.402 or later (as specified in the Bell Instruction)

From the Honeywell CD image or Bell iMDS Server:

• Use Option 2 of the Menu to Install PC-GBS 5.5.402.

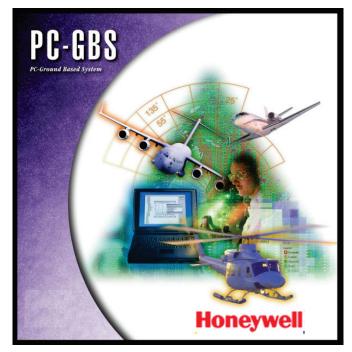
Procedure for installing from the Menu (Bell iMDS server file):

1) Navigate to the unzipped 5.5_SP4_Bell429_V35 on the desktop and double-click on 'Menu.exe'. Follow from step 5 in the 'Procedure for installing from the Menu (CD image)' below.

✓ ↓ Computer → Local Disk (C:) → Users →	e234462 🕨 Desktop	▶ GBS_5.5_SP4_402 ▶	•
▼ 🖻 Open Share with ▼ Burn	New folder		
Name	Date modified	Туре	Size
퉬 CSI	11/21/2013 11:18	File folder	
🐌 GBS	11/21/2013 11:24	File folder	
\mu osi	11/21/2013 11:24	File folder	
퉬 src	11/21/2013 11:26	File folder	
Autorun.inf	8/4/2009 11:27 AM	Setup Information	1 KB
🙆 Menu.exe	8/10/2010 2:38 PM	Application	359 KB
📄 readme.txt	1/11/2012 9:49 AM	Text Document	1 KB

Procedure for installing from the Menu (CD image):

1) The user will use the following CD image.



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- 2) If the PC-GBS installer utility is not already running, insert the CD into the PC and 'Autorun' will start. The CD includes instructions and a Product Key inside the CD cover if required.
- 3) Enter the Product Key if prompted during the installation.
- 4) If 'Autorun' does not start automatically the user can navigate to the 'Menu.exe' on the CD and upon double-clicking on that the installation utility will open.

Name	Date modified
\mu CSI	11/8/2013 1:03 PM
🐌 GBS	11/8/2013 1:03 PM
🐌 OSI	11/8/2013 1:03 PM
🌗 src	11/8/2013 1:03 PM
Autorun.inf	8/4/2009 11:57 PM
👜 Menu.exe	8/11/2010 3:08 AM
🕼 readme.txt	2/2/2012 2:58 AM

5) This will launch the menu screen of PC-GBS installation utility.

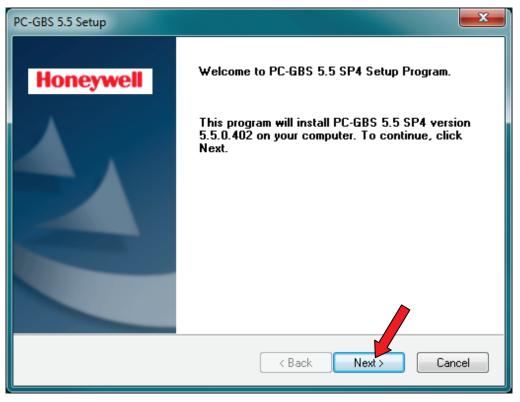


6) Click Option 2 to install PC-GBS.

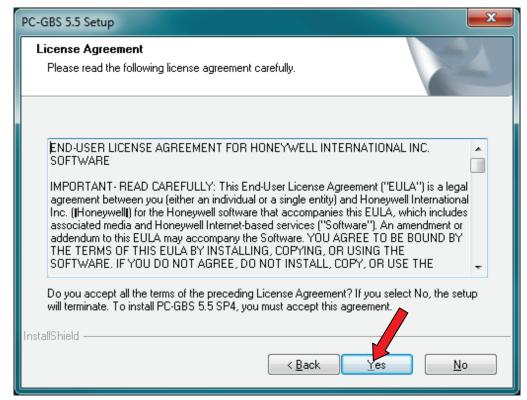


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7) Click the 'Next >' button. (This will upgrade and overwrite the existing PC-GBS 5.4.004. If loading more than one version of PC-GBS, refer to Appendix Section 4.3.)



8) To proceed, click 'Yes'. The Setup will start installing the PC-GBS.

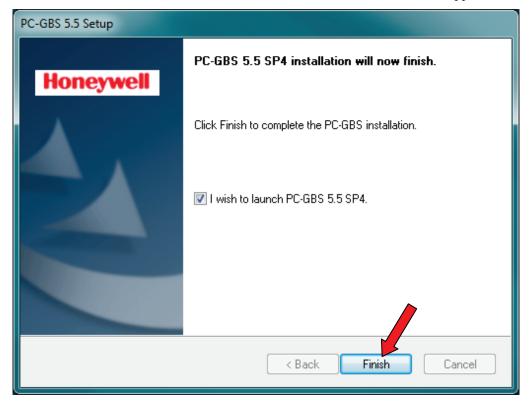


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9) It shall start the installation.

PC-GBS 5.5 Setup	×
Setup Status	22
PC-GBS 5.5 SP4 Setup is performing the requested operations.	
Installing	
C:\Program Files\VMEP55\bin\FlightDataTool.exe	
InstallShield	
	Cancel

10) Check 'I wish to launch PC-GBS' checkbox and click 'Finish' to start the PC-GBS application.



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11) This will launch PC-GBS. Verify that the splash screen shows the expected version (as per the Bell Instruction).



12) Exit out of PC-GBS program.

3.2.2 Installing Bell 429 configuration Setup

From the Honeywell CD image or Bell iMDS Server:

• Use Option 4 of the Menu to Install Setup Configuration (429_35.csif).

Procedure for installing from the Menu:

1) Use Option 4 of the PC-GBS installer Menu to Install the Configuration Setup 429_35.csif.



2) Select 'Browse...' and navigate to the CSIF file either previously downloaded from the Bell Helicopter iMDS web server or from a CD-ROM.

Note: If the 'csif' file is automatically selected by the tool, you can ignore this step.

Sr Configuration Setup In:	taller 🗾
Install Options	
Configuration Setup:	
	Browse
Installed Version:	Replacement Version:
Install	Preview Close

3) Select '429_35.CSIF' and click 'Open'.

ኇ Open					x
Look in:	BCSIF 429_35		•	← 🗈 💣 💷 ▼	
C:	Name	*		Date modified	Туре
Recent Places	429_35.CSIF			1/6/2012 11:03 PM	CSIF File
Desktop					
Libraries					
Computer					
Network					
	•	III			
	File name:			•	Open
	Files of type:	Configuration Setup files (*.C	SIF)	•	Cancel

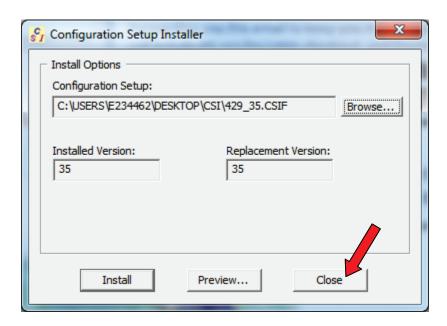
4) Click 'Install'.

Sr Configuration Setup Inst	aller 🗾
Install Options	
Configuration Setup:	
C: USERS (E336235) DESK	TOP\CSIF 429_35\429_35.CSIF Browse
Installed Version:	Replacement Version: 35
Install	Preview Close

5) Click 'OK'.

Installation Completed	x
Installation of 429 completed.	
ОК	

6) Click 'Close'.



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7) PC-GBS will automatically restart.



8) Bell 429 v35 is now installed to PC-GBS.

🤺 G	B S Fleet	Status Sum	nmary				
Data	Selection	Reports	View	Tools	Help		
						Aircraft Control & Status	GBS Controls & Status
	ි දූ 429					Fleet View 429	PC-GBS Help
						No Tails 🔹	
							<u>I</u> mport
							<u>M</u> easure
						Flight Data 5 Days Old	Data Movement
						Bus Exceedances	<u> </u>
						<u>A</u> ircraft Help	- Legend: 429
							K Exceeded

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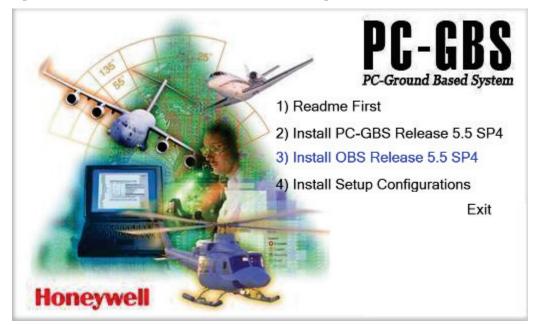
3.2.3 Installing Bell 429 OSIF

From the Honeywell CD image or Bell iMDS Server:

• Use Option 3 of the Menu to Install OBS Release (OBS_5_5_402.osif).

Procedure for installing from the Menu:

1) Use Option 3 to Install OBS Release 5.5.402 or later (as specified in the Bell Instruction).



Browse to the target OSIF file (OBS_5_5_402.osif or later) and click Open.
 Note: If the 'osif' file is automatically selected by the tool, you can ignore this step.

SI OSIF Installer	
OBS Installation File (.OSIF):	
	Browse
Installed Version:	Replacement Version:
Install	Close

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3) Select 'OBS_5_5_402.osif' and click 'Open'.

SI Open			—
Look in:	🐌 OBS 5.5 SP4 402 💌	+ 🗈 💣 📰 -	
Ca	Name	Date modified	Туре
Recent Places	OBS_5_5_402.osif	12/2/2011 12:49 AM	OSIF File
Desktop			
Libraries			
Computer			
Network			
	۰ III		12+
	File name:	•	Open
	Files of type: OBS Installation Files (*.osif)	•	Cancel

4) Click 'Install'.

SI OSIF Installer	
OBS Installation File (.OSIF):	
C: \Users\e336235\Desktop\OB	S 5.5 SP4 40 Browse
Installed Version:	Replacement Version:
Instal	Close

5) Click 'OK' then 'Close' all the way back to the main menu.

OSIF Installer	×
OBS Installation Completed	
ОК	

3.2.4 Verify the Current file version loaded on the HUMS 1134 before upgrading.

While connected to the HUMS 1134 via an Ethernet cable, open PC-GBS and Click 'Import'

^r G B S Fleet Status Summary ata Selection Reports View Tools Help		x
∃- № 	Aircraft Control & Status GBS Controls & Statu	IS
్హే 429	Fleet View PC-GBS Help	
	429	
	No Tails	4
	<u>I</u> mport	
	<u>M</u> easure	
	Flight Data	
	5 Days Old — Data Movement	
	Bus Exceedances	
	<u>A</u> ircraft Help	
	Legend: 429	
	() Caution	
	🕈 Above Goal	
	Good	
	No Data	

1) Connect to the HUMS 1134 via the Ethernet cable.

Time Check		
	Press 'Next	date, time and time zone. I' button if it is correct. press 'Change' button.
	-Your Computer	s Date/Time
	Date:	27 March 2013
	Time:	16:41:51
	Time Zon	e: Pacific Daylight Time
		Change
		Next > Cancel



2) 'Download flights' dialog will appear. Click on 'System Info'.

OBS T)BS Type: D-SHAKTI-AGB Tail: 57_upda 🗙								
	D	ow	nlo	ad	Fli	igh	ts		
Γ	•		Mar	ch, 2	2013		Þ	1	
	Sun 24 3 10 17 24 31	25 4 11 18 25	26 5 12 19	27 6 13 20		22	23		
Ownload Settings System Info ✓ New Flights Only Message Log C This Date Only View C This Date Forward ✓ Errors Only									
Ready to Download OBS Serial Number: 000000293									
DOWNLOAD FLIGHTS Cancel									

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3) Verify current software installed on the unit. The following screenshot is an example.

System Information		X
System Info:		
Aircraft Setup File:	setup_429_V30.obs	~
Aircraft Setup Date:		-
Aircraft Setup Libra	ry Version: 5.5f	
Hardware Revision:	-	
Firmware Revision:		
ECA Processor Card 1	553 Channels: 2	
OBS Version:	5.4.003 Aug 26 2010(10:26:02)	
Flash Size:	478699520 bytes	
Flash FreeSpace:	464502784 bytes	
OBS Clock Date:	November 08, 2013 (22:06:16)	
GBS Clock Date:	November 08, 2013 (22:06:18)	
bpLoader Version:	0.0.001 04110 20, 2010 (20. 11.00)	
Start-up Script (VMU):		
bootline.txt CRC:		
ECA Connector Card:	Not Present	
Resident Setup Files:		
setup_429_V30.obs		
Communications Proto		
GBS:	119	~
	OK	

4) Click "OK" and then click on "Cancel" on the Download screen.

3.2.5 Connect via GBS Management to Update OBS/setup file

1) While connected to the HUMS 1134 with an Ethernet cable, right click on the menu bar, select GBS Management and enter the password as shown in the textbox and click 'OK'.

				i old.	inclusion incp		
	🟌 G B S Fleet Stat	us Sumi 🚽	Restore				
	Data Selection Reports		Move				
			Size		Aircraft Control	& Status	GBS Controls & Status
	1 29	-	Minimize Maximize		Fleet Vie	w	
•				10.00	429		PC-GBS Help
		×	Close	Alt+F4			
l		_	GBS Manageme	nt 🔽	No Tails	<u> </u>	Import
							Measure
					Survey Da	ata	
							Data Movement
					Bus Exceeda	nces	<u> </u>
					<u>A</u> ircraft He	In	
						ıp	

PASSWORD: i	iac.vmep
-------------	----------

Administrator Control Access 🛛 🛛							
Enter Password:							

OK	Cancel						

2) Click on 'Configure OBS...' and connect as shown.

GBS Management			×
Configuration Data Edit	Database		
	í [Configuration & Setup	
Honeywell		Configure OBS	
		Create OBS Setup File	
		Create HUMS Setup File	
Close	[HUMS Data Management Confirm Baseline HIT	1
	L		

Time Check			
	Press 'Ne Otherwise Your Comput Date: Time:	xt' button if it , press 'Char er's Date/Time [26 March 20 [15:08:09 ne: Pacific Dayli	13
		Next >	Cancel
Import Options			X
cable or Flas	h Drive. Ens	GBS using a co ure the cable is 0n-Board Sys	connected to
C RS-232 C US	B	Ethernet	C Flash Drive
·	See B	Ì	A
C Wireless			
		Next >	Cancel
DBS Management			X
Sup 1			
Connecting to OBS may ta	ake up to 90 se	conds	
			Advanced
_ Tail			
New			Apply
Erase Data			
Free Space Flush all existing data f	rom OBS.		Flush
	Don	e	

3) The following dialog offering upload of several files to the HUMS 1134 will pop up. Click 'View'.



4) Confirm the files to be uploaded. The files can be a combination of a '.xsvf' firmware file, the 'obs.gz', and the setup file. The screenshot below is an example.

Pending Updates	for Aircraft: 42	9, Tail: 3()-Upgrade		_ 💌	
The following files will OBS file can be read Pending OBS File:		OBS. Versio	n information	for the corespond	ing	
Filename		Туре	Version	Date		
setup 429 V35.obs		Setup	V 35	Fri, Jan 06, 2012	2 (093	
1134-1100-DD-02-R		Firmware	A60A	N/A		
obs.gz		System	V 5.5.402	Dec 1 2011 (11:	00:47	
<						
)		
Loaded OBS version	of selected file:					
OBS filename:	setup_429_V30.ot	os			_	
Version: Date/Time:	V 30 June 0, 2011 (15:05					
Date/Time:	Jun 9, 2011 (15:05					
1						
		ок (
		UN				

5) Upon verifying the files click 'Ok', and 'Yes' to upload the software onto the HUMS 1134.

New Files for OBS - Aircraft: D-SHAKTI-AGB, Tail: 57_update_new_hw 🔀						
	You have 3 new files to upload to the OBS					
	Upload them now?					
<u>Y</u> es	<u>View</u> <u>N</u> o					

Note: The loading will take around 12 minutes. Please DO NOT interrupt the power at this stage.

OBS Type: 429 Tail: 30-Upgrade	
Uploading New File "1134-1100-DD-02-REVOG-VA60A.xsvf" 1301504 / 15479301 bytes se	ent
Tail New 30-Upgrade Apply	
Erase Data Free Space 464,502,784 Flush all existing data from OBS. Flush	

OBS Type: 429 Tail: 30-Upgrade	
Decompressing File	e
Tail New 30-Upgrade	Advanced
Erase Data Free Space 464,502,784 Flush all existing data from OBS. Cancel	Flush

6) After the files are successfully uploaded, Cycle Power of the HUMS 1134.

3.2.6 Verify load complete and versions correct.

- 1) If not previously done during the update, **Cycle Power** to the HUMS 1134 (this will ensure the firmware load is finalized).
- 2) Connect to the HUMS 1134 through the 'Import...' button as shown and click 'System Info'.

🤺 G E	S Fleet	Status Sum	nmary				- • ×
Data	Selection	Reports	View	Tools	Help		
	.					Aircraft Control & Status	GBS Controls & Status
	ੱ ਨੂੰ 429					Fleet View	PC-GBS Help
						No Tails 🗾	Import
							Import o Measure
						Flight Data 5 Days Old	Data Movement
						Bus Exceedances	<u> </u>
						<u>A</u> ircraft Help	
							Legend: 429 Exceeded
							Caution
							🕈 Above Goal
							🔵 Good
							🔵 No Data



OBS	Type: 429 Tail: 30-Upgrade 🔀							
Download Flights								
	▲ November, 2013 ▶							
	Sun Mon Tue Wed Thu Fri Sat 27 28 29 30 31 1 2 3 4 5 6 7 4 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23							
	24 25 26 27 28 29 30 1 2 3 4 5 6 7							
Download Settings Very New Flights Only								
	C This Date Only Message Log ○ This Date Forward View ● All Flights Firors Only							
Ready to Download OBS Serial Number: 000000000								
DOV	VNLOAD FLIGHTS Cancel							

3) Select 'System Info' and verify software versions as per the Bell instruction. The following screenshot is an example.

System Information		X					
System Info:							
Aircraft Type:	429	~					
Tail Number:	N1234						
Serial Number:	000004701						
Aircraft Setup File:	setup_429_V35.obs						
Aircraft Setup Date:	Fri, Jan 06, 2012 (0932)						
Aircraft Setup Libra	Aircraft Setup Library Version: 5.5c						
Hardware Revision:	1134-5150-FA-C						
Firmware Revision:	A60A						
ECA Processor Card 1553 Channels: 2							
OBS Version:	5.5.402 Dec 1 2011(11:00:47)						
Flash Size:	478699520 bytes						
Flash FreeSpace:	477921280 bytes						
OBS Clock Date:	November 20, 2013 (09:57:51)						
GBS Clock Date:	November 20, 2013 (09:58:13)						
bpLoader Version:	5.3.001 June 28, 2010 (20:47:03)						
Start-up Script (VMU):							
bootline.txt CRC:	1567769370						
ECA Connector Card: Resident Setup Files:	Not Present	~					
	ок						

4) Click "OK" and then click on "Cancel" on the Download screen.

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3.2.7 Downloading BIT check information and Flight Data

- 1) Connect the Ethernet cable between the Laptop with PC-GBS and to the 1134 processor.
- 2) Power the processor. Boot time takes about 2 minutes.
- 3) Press 'Import...' button on the PC-GBS main page.

" G B S Fleet Status Summary ata Selection Reports View Tools Help		
	Aircraft Control & Status	GBS Controls & Status
<u>क</u> 429	Fleet View	PC-GBS Help
	429 🔽	
	No Tails 💌	Import
		<u>M</u> easure
	Survey Data	Data Movement
	Bus Exceedances	In Out
	Dus Excecualites	
	Aircraft Help	
		Legend: 429 K Exceeded
		Caution
		Above Goal Good
		O No Data

4) Click 'Next >' on time check if time is correct, if not click change and set the time. Then click 'Next >', after ensuring Ethernet is selected.

Time Check		Import Optic	ns		X
	Check the date, time and time zone. Press 'Next' button if it is correct. Otherwise, press 'Change' button.	Data is imported into the GBS using a communication cable or Flash Drive. Ensure the cable is connected to both the computer and the On-Board System, and then press 'Next'.			connected to
	Your Computer's Date/Time Date: 23 February 2011 Time: 17:26:44 Time Zone: Pacific Daylight Time	C RS-232	C USB	Ethernet	C Flash Drive
	Next > Cancel	C Wireless		Next >	Cancel

- 5) Click 'Download Flights' button so that the latest BIT check can be downloaded.
- 6) At the completion of the download you will be returned back to the PC-GBS main screen. In order to view the recent BIT status one more step must be accomplished in order to import a BIT when an engine has not been started or a vibration acquisition taken.

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7) Right click on the window title bar, select GBS Management, and enter the password as shown in the textbox and click 'OK'.

	PASSWORD:	iac.vmep	
	t Status Summary		
Data Selection Repor	ts View Tools Help ·	Aircraft Control & Status Fleet View	GBS Controls & Status PC-GBS Help
		No Tails	Import
	Administrator Co		Data Movement
		<u>A</u> ircraft Help	
			Legend: 429 Exceeded Caution Above Goal Good No Data
Select an Aircraft			

8) At the 'Data' drop down, select 'Force Import of Ignored Data...'.

GBS Management			
Configuration Data	Edit Database 🗸		
	Re Import of Ignored Dates Flight Data Tool	ta Setup	
Hone,		o <u>n</u> figure OBS	
		Create OBS <u>S</u> etup File	
		Create H <u>U</u> MS Setup File	
HUMS Data Management Close Confirm Baseline <u>H</u> IT			

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9) The 'Force import of All Data' dialog will now open. Ensure the proper aircraft type, tail number, Data Import State, and Time Interval are selected as indicated below. Press the 'Import' button and any new BIT checks and vibration test will now be imported into the PC-GBS database.

Force Import of All Data	×
Aircraft Type:	
429	┚
Tail Number:	
57007	_
Data Import State	
O Un-imported only O All Data	
Time Interval	
Last Day	
C Last Week	
C Last Month	
C After Selected Date 1/ 6/2012	
Status	
	~
Print Status Import Close	

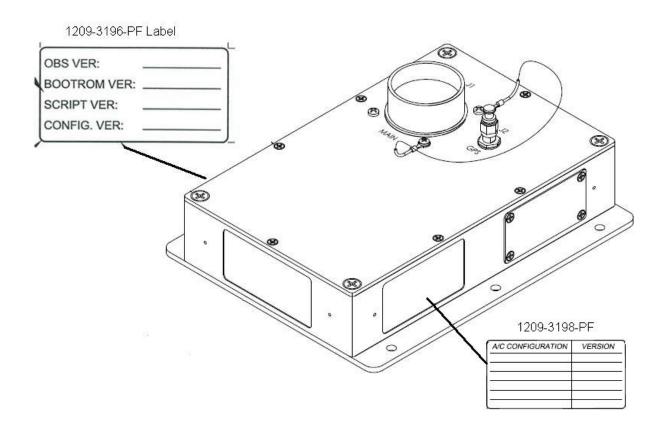
- 10) Press the 'Close' button and return back to PC-GBS main screen ensuring the 'HVM' icon is showing a green status.
- 11) Updating both PC-GBS and the onboard system is now complete.

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3.2.8 Completing 1134 processor Identification Tag

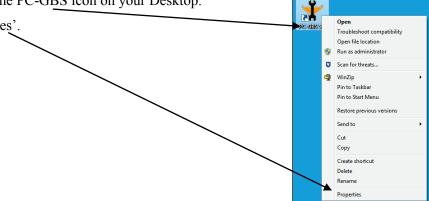
When applicable in Bell Instruction, perform software label updates as follows (refer to the figure below):

- 1) Change or install 1209-3196-PF label to reflect the software versions of the software just previously installed and verified in Section 3.2.6 step 3 above. Leave the 'Config Ver:' line blank or strike through.
- 2) Write CSIF aircraft type and version onto 1209-3198-PF label.



4 APPENDIX

- 4.1 Enabling Windows Compatibility Mode on Windows 7 to run in Windows XP mode:
 - 1) Right click on the PC-GBS icon on your Desktop.
 - 2) Select 'Properties'.



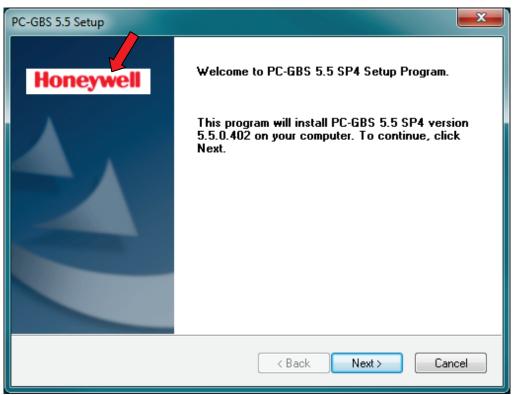
- 3) Select the 'Compatibility' tab.
- 4) Check 'Run the program in compatibility mode for: Windows XP'.
- 5) Check 'Run this program as an administrator.'
- 6) Select Apply.
- Select OK. This will cause the Windows 7/XP/Vista to start PC-GBS in administrator mode every time the program is run.

	PC-GBS 0.5 Prope Security	Details	Previous Versions
	General If you have problem	Shortcut s with this program ar	Compatibility and it worked correctly on
	an earlier version of matches that earlier Help me choose t	version.	compatibility mode that
\backslash	Compatibility mode	ram in compatibility m	node for:
	Windows XP (S		Ŧ
	Settings		
	Hun in 640 x	480 screen resolution	n
		top composition	
	DisaNe disple Privilege Level	ay scaling on high Di	'l settings
		ram as an administra	
	Change setting	o for all users	

Upon completion of the above steps, installation of PC-GBS software can be done by following the instructions for Windows XP PC-GBS installation.

4.2 Installing more than one version of PC-GBS (Not Recommended)

1) Although not recommended, it is possible to load more than one version of PC-GBS by double left clicking on the 'Honeywell' logo. This allows multiple versions of PC-GBS to be installed on a single computer.



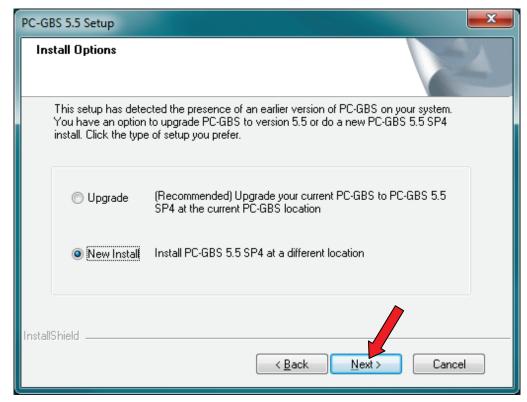
Note: This is an unsupported approach. Honeywell does not recommend installation of more than one version of PC-GBS on a single computer.

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2) To proceed, click 'Yes'.

PC-GBS 5.5 Setup	x
License Agreement Please read the following license agreement carefully.	1
END-USER LICENSE AGREEMENT FOR HONEYWELL INTERNATIONAL INC. SOFTWARE IMPORTANT- READ CAREFULLY: This End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a single entity) and Honeywell International Inc. (Honeywell) for the Honeywell software that accompanies this EULA, which includes associated media and Honeywell Internet-based services ("Software"). An amendment or addendum to this EULA may accompany the Software. YOU AGREE TO BE BOUND BY THE TERMS OF THIS EULA BY INSTALLING, COPYING, OR USING THE SOFTWARE. IF YOU DO NOT AGREE, DO NOT INSTALL, COPY, OR USE THE Do you accept all the terms of the preceding License Agreement? If you select No, the setu will terminate. To install PC-GBS 5.5 SP4, you must accept this agreement. InstallShield	P

3) Select 'New Install' and click 'Next >'.

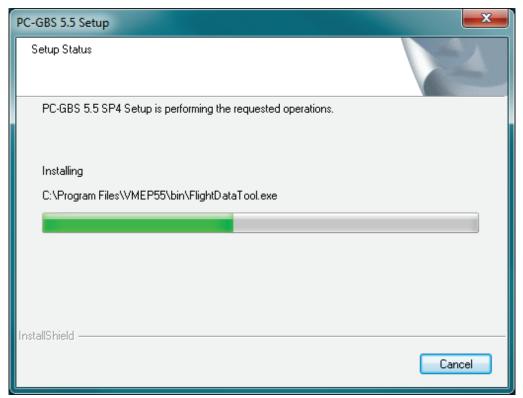


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4) Click 'Next >' (recommend using the default path).

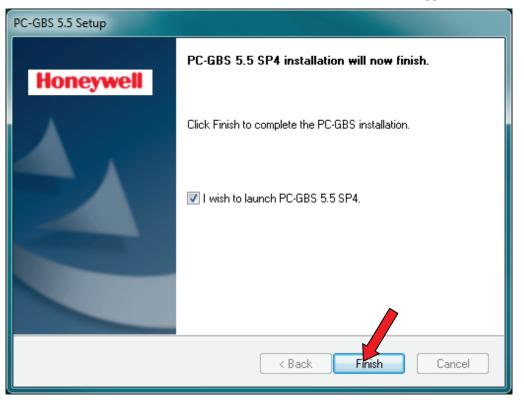
PC-GBS 5.5 Setup	×
Choose Installation Location	No.
Setup will install PC-GBS 5.5 SP4 in the following folder.	
To install to this folder, click Next. To install to a different fo another folder.	older, click Browse and select
Destination Folder C:\Program Files\VMEP55 InstallShield	Browse Next > Cancel

5) This shall start the installation.



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6) Check 'I wish to launch PC-GBS' checkbox. Click 'Finish' to start the PC-GBS application.



7) This will launch PC-GBS.



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4.3 Downgrade Instructions for 5.5, back to 5.4

- 1) Install PC-GBS 5.4 if not done already. Refer to Section 4.4 on how to install the PC-GBS. (The steps in Section 4.4 are for PC-GBS 5.5, so ensure that installation files of PC-GBS 5.4 are used. Refer to Bell Instruction for the same.)
- 2) When downgrading, a warning 'The program to be installed is older than...' will prompt for user response. Please click 'Yes' to proceed.

PC-GBS 5.4 Setup
The program to be installed (version 5.4.0.004) is older than the existing one(version 5.5.0.402). Do you want to continue? If you select YES, the installation will overwrith your existing files.

Note: Delete PC-GBS 5.5 Desktop shortcut manually post-downgrade.

- 3) Open the PC-GBS 5.4 and install the CSIF and OSIF files using the steps in Sections 4.5 and 4.6. (The steps in Section 4.5 and 4.6 are for selecting 5.5 versions. Ensure that the CSIF and OSIF files are selected for 5.4 versions. Refer to Bell Instruction for the same.)
- 4) Please refer to Section 3.2.4 for steps to check for 'bpLoader' and 'Start-up Script (VMU)' file versions. If the current and target versions are the same, as per the Bell Instruction, skip steps 13 and 14 below.
- 5) While connected to the HUMS 1134 with an Ethernet cable, right click on the menu bar, select GBS Management and enter the password as shown in the textbox and click 'OK'.

		FASSWORD.	lac.vinep		
ᅷ G B S Fleet Status Sum	8	Restore	1	1	
Data Selection Reports View	1	Move			
⊡- क 		Size Minimize	Aircraft Control &	a Status	GBS Controls & Status
H		Maximize	Fleet Viev	w	PC-GBS Help
	×	Close	429	-	
	_	GBS Management	No Tails	•	Import
					Measure
				1	
			Survey Da	rta	— Data Movement —
			Bus Exceedar	nces	
E ∰ 429			<u>A</u> ircraft Hel	p	

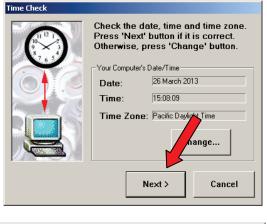
PASSWORD: inc yman

Administrator Control Access		
Enter Password:		

	Cancel	

6) Click on 'Configure OBS...' and connect as shown.

GBS Management		
Configuration Data Edit	Database	
	í í	Configuration & Setup
Honeywell		Configure OBS
		Create OBS Setup File
		Create HUMS Setup File
	-	HUMS Data Management
Close		Confirm Baseline HIT





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OB5 Management		×
Connecting to OBS may take up to 90 seconds		
	Advanced	
Tail		
New	Apply	
Erase Data		
Free Space		
Flush all existing data from OBS.	Flush	
Done		

7) Click 'Advanced'.

OBS Type: 429 Tail: N1234	
OBS Managemer	nt
	Advanced
Tail	
New N1234	Apply
Erase Data Free Space 459,857,920	
Flush all existing data from OBS.	Flush
Done	

8) Select the '...' button to browse to the 'VMEP' folder.

Upload File		Upload
	Done	

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9) Select the appropriate 'OBS.gz' file from 'C:\Program Files\VMEP\Upload\System' (Refer to Bell Instruction) and click 'Upload'.

📌 G B	S Fleet Adva	anced OBS Manaş	gement	×	
Data S	Selection Rep	ו שיי שיי	Advanced OBS		Controls & Status
	Open				
	Look in:	🗀 System		- 🗧 🖆 🖬 -	
	My Recent Documents Desktop My Documents My Computer	G 1134-1100-DD- G 1134-1100-DD- G 1134-1100-DD- G 1134-1100-DD- G 1134-1100-DD- G 1134-1100-DD- G 1134-1100-DD- G 1209-1013-DD- G 1209-1013-DD- G 1209-1013-DD- G 1209-1013-DD- G 1209-1013-DD- G 1209-1013-DD- G 1239-1100-DD-	00-REV0F-VA408.xsvf 00-REV0F-VA508.xsvf 01-REV0F-VA608.xsvf 01-REV0F-VA508.xsvf 01-REV0F-VA508.xsvf 02-REV0F-VA608.xsvf 02-REV0F-VA508.xsvf 02-REV0F-VA508.xsvf 02-REV0F-VA508.xsvf REV0A-V9606.XSVF REV0A-V9606.XSVF REV0A-V9606.XSVF REV01-V9404.XSVF REV01-V9404.XSVF 00-REV0A-VA402_Chain1.xsvf 00-REV0A-VA502_Chain1.xsvf	I239-1100-DD-00-REVOA I239-1100-DD-01-REVOA I239-1100-DD-01-REVOA I239-1100-DD-01-REVOA I239-1100-DD-02-REVOA I239-1100-DD-02-REVOA I239-1100-DD-02-REVOA I239-1100-DD-02-REVOA I239-1100-DD-02-REVOA I239-1100-DD-02-REVOA ID50-03-REVOA I00-05-03-REVOA I00-05-	-VA402_Cha -VA502_Cha -VA602_Cha -VA402_Cha -VA402_Cha -VA502_Cha
	(<			>
	My Network Places	File name: Files of type:	obs.gz	• •	Open Cancel
		pload File	,		ove Goal

Program Files	VMEP\Upload\System\obs.gz	Upload
a region rices	The topood option woodge	
	Done	-

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10) Message appears 'The OBS has a newer version.....' Click 'Yes' on the dialog box to proceed with the downgrade.

Advanced OBS Management		×		
Advance Ready	ed OBS			
Aircraft Type 429 V35 Aircraft Subconfiguration	Front Panel Type BHVM Data Mirroring Mode COMMANDED			
Absorber Type: Man Man Aircraft Setup Configury on The OBS has a newer or the same version of file 'obs.gz' Do you want to upload 'obs.gz' anyway?				
OBS PART NO: 1134-5150-FA SERIAL NO: 00004701	REV: C			
Above Information should match the ta Upload File C:\Program Files\VMEP54\Upload\Sys	stem\obs.gz Upload			
D	one			

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11) The file is uploaded as seen from the status 'Uploading File.'

Advanced OBS Management		×		
Uploadin "obs.gz" 1547264 / 3669614 bytes se		_		
Aircraft Type	Front Panel Type			
429 V35	BHVM	-		
Absorber Type:	Serialization			
Manage Auto-Swappable Configuration S	Setups			
Data Retention 30 Days to retain data that has been downloaded	Apply			
OBS Tag Information				
PART NO: 1134-5150-FA SERIAL NO: 00004701	REV: C			
Above Information should match the tag on the OBS. Apply				
Upload File C:\Program Files\VMEP54\Upload\System\obs.gz				
Ca	ncel			

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12) Wait for the upload. Once done, it shows 'Ready'.

Advanced OBS Management			
Advance Ready	d OBS		
Aircraft Type	Front Panel Type		
429∨35 ▼	BHVM		
Aircraft Subconfiguration	Data Mirroring Mode		
_	COMMANDED		
Absorber Type:	Serialization Apply		
Manage Auto-Swappable Configuration S	View/Edit		
Data Retention 30 → Days to retain data that has been downloaded	Apply		
OBS Tag Information			
PART NO: 1134-5150-FA SERIAL NO: 00004701	REV: C		
Above Information should match the tag	on the OBS. Apply		

13) Similarly, select 'bploader.bin' from the same path as in step 9 and click 'Upload'.

Open						? 🔀
Look in:	🔁 System		•	+ 🗈 d	* 🎟	
My Recent Documents	1134-1100-DC 1134-1100-DC 1134-1100-DC 1134-1100-DC 1134-1100-DC 1134-1100-DC	-00-REV0F-VA408.xsvf)-00-REV0F-VA508.xsvf)-00-REV0F-VA608.xsvf)-01-REV0F-VA408.xsvf)-01-REV0F-VA408.xsvf		1239-1100- 1239-1100- 1239-1100- 1239-1100- 1239-1100-	DD-01-REV DD-01-REV DD-01-REV DD-02-REV	0A-VA602_Cha 0A-VA402_Cha 0A-VA502_Cha 0A-VA602_Cha 0A-VA602_Cha
Desktop My Documents	1134-1100-DC 1134-1100-DC 1134-1100-DC 1134-1100-DC 1134-1100-DC 1209-1013-DC)-01-REV0F-VA608.xsvf)-02-REV0F-VA408.xsvf)-02-REV0F-VA508.xsvf)-02-REV0F-VA608.xsvf)-REV0A-V9606.XSVF	••		DD-02-REV	0A-VA502_Cha 0A-VA602_Cha
My Computer	1209-1013-DE 1209-1013-DE 1239-1100-DE)-REV0A-V9686.XSVF)-REV01-V9404.XSVF)-REV02-V9505.XSVF)-00-REV0A-VA402_Cha)-00-REV0A-VA502_Cha				
	<					>
My Network Places	File name:	bpLoader.bin]	- [Open
	Files of type:				•	Cancel

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14) When ready, select 'vmu.scr' and click upload.

Open		? 🔀 🤇
Look in:	🗁 System	- ← 🗈 📸 🖬 -
My Recent Documents Desktop	1134-1100-DD-00-REVOF-VA408.xsvf 1134-1100-DD-00-REVOF-VA508.xsvf 1134-1100-DD-00-REVOF-VA608.xsvf 1134-1100-DD-01-REVOF-VA408.xsvf 1134-1100-DD-01-REVOF-VA508.xsvf 1134-1100-DD-01-REVOF-VA608.xsvf 1134-1100-DD-02-REVOF-VA408.xsvf	1239-1100-DD-00-REV0A-VA602_Cha 1239-1100-DD-01-REV0A-VA602_Cha 1239-1100-DD-01-REV0A-VA502_Cha 1239-1100-DD-01-REV0A-VA602_Cha 1239-1100-DD-02-REV0A-VA602_Cha 1239-1100-DD-02-REV0A-VA502_Cha 1239-1100-DD-02-REV0A-VA602_Cha 1239-1100-DD-02-REV0A-VA602_Cha
My Documents	1134-1100-DD-02-REVOF-VA508.xsvf 1134-1100-DD-02-REVOF-VA608.xsvf 1209-1013-DD-REV0A-V9606.XSVF 1209-1013-DD-REV0A-V9686.XSVF	bpLoader.bin ♀️obs.gz ━─vmu.scr
My Computer	1209-1013-DD-REV01-V9404.X5VF 1209-1013-DD-REV02-V9505.X5VF 1239-1100-DD-00-REV0A-VA402_Chain1.xsvf 1239-1100-DD-00-REV0A-VA502_Chain1.xsvf	
	<	>
My Network Places	File name: vmu.scr Files of type:	Open Cancel

15) Click 'Done'.

dvanced OBS Management		E		
Advance Ready	d OBS			
Aircraft Type 429 V35 Aircraft Subconfiguration	Front Panel Type BHVM Data Mirroring Mode COMMANDED	•		
Absorber Type:	Serialization	Apply View/Edit.		
Data Retention 30 Days to retain data that has been downloaded OBS Tag Information				
PART NO: 1134-5150-FA SERIAL NO: 00004701	REV: C			
Above Information should match the tag Upload File [C:\Program Files\VMEP54\Upload\Syst		Apply Upload		
	one			

16) Click 'Done'.

OBS Type: 429	Fail: N1234	
Ready	OBS Manageme	nt
		Advanced
New N1234	•	Apply
Erase Data		
Free Space 4 Flush all existing data f	58,334,208 rom OBS.	Flush
	Done	

- 17) The OBS reboots automatically.
- 18) After reboot completion, connect to OBS again and select 'Advanced' to set the aircraft configuration file.

OBS Type: 429	Tail: N1234	×
A	OBS Manageme	nt
		Advanced
- Tail		
New N1234	4 –	Apply
Erase Data		
Free Space	474,038,272	
Flush all existing date	a from OBS.	Flush
	Done	

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19) Select the 5.4 compatible CSIF from 'Aircraft type' drop down menu, as per the Bell Instruction. Example uses '429 V30'.

Advance	e obs	
Ready		
Aircraft Type	Front Panel Type	
429 V35	BHVM	•
429 V35	Data Mirroring Mode	
429 \V30	COMMANDED	•
Absorber Type:		
_	Serialization	Apply
Manage Auto-Swappable Configuration	Setups	1
		View/Edit
Data Retention		
30 📑 Days to retain data that has been downloaded		Apply
OBS Tag Information		
PART NO: 1134-5150-FA	REV: C	
SERIAL NO: 00004701		
Above Information should match the tag	g on the OBS.	Apply
Upload File		
		Upload
D	one	

20) Click 'Apply'.

Advanced OBS Management		
Advance Ready	ed OBS	
Aircraft Type 429 ∀30 ▼	Front Panel Type	
Aircraft Subconfiguration	Data Mirroring Mode	
Absorber Type:	Serialization Apply	
Manage Auto-Swappable Configuration Setups		

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21) Click 'Done'.

Upload File		 Upload	
	Done		

22) Click 'Done'.

OBS Type: 429 Tail: N1234	\mathbf{X}
OBS Management	
Advanced	
New N1234 Apply]
Erase Data	
Free Space 478,560,256 Flush all existing data from OBS. Flush	
Done	

23) The OBS reboots automatically.

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24) Refer to Section 3.2.6 to check for the load completion and correct versions, as per the Bell Instruction.

The screenshot below is an example of a successful downgrade.

System Information				
System Info:				
Aircraft Setup Libra	y Version: 5.5f	~		
Hardware Revision:		-		
Firmware Revision:	A60A			
ECA Processor Card 1	553 Channels: 2			
OBS Version:	5.4.003 Aug 26 2010(10:26:02)	_		
Flash Size:	478699520 bytes			
Flash FreeSpace:	478560256 bytes			
OBS Clock Date:	January 01, 2014 (20:54:54)			
GBS Clock Date:	January 01, 2014 (20:56:43)			
bpLoader Version:	5.3.001 June 28, 2010 (20:47:03)			
Start-up Script (VMU):	5.1.000	-		
bootline.txt CRC:	1567769370	=		
ECA Connector Card: 1	Not Present			
Resident Setup Files:				
setup_429_V30.obs	Thu, Jun 09, 2011 (1505)			
Communications Protocol:				
GBS:	119			
OBS:	119			
Using:	119	~		
	OK			

25) Click "OK" and then click on "Cancel" on the Download screen.