WES-2 Bridge Test Case Job Sheets

<u>Task 1:</u> Upload a small archived data case for event review (no simulation) and familiarize with simulation controls.

- 1. Right click on the desktop and select **Open in Terminal** to launch a shell window. Issue the following commands to list out the contents of an archived data case before the metadata is added:
 - a. cd /data1/wes_cases (note you can hit the tab key after starting to type out the paths and it will sometimes finish the command for you)
 - b. ls w2b_exercise_case_14_3_1
 - i. If a localization directory and/or a caseMetaData.xml file appear then this task has already been performed. If either of these is present, see Step 25 before continuing.
 - c. ls w2b_exercise_case_14_3_1/Processed
 - i. Note only some radar, satellite, warning, obs, grid, and ffmp data.
- 2. To start WES-2 Bridge, either navigate to Applications → WDTD → WES-2 Bridge in the the top-left Desktop menu, or open a new shell window, cd /w2b/wes and type ./wes.sh and hit Enter.



3. Once the WES II Bridge GUI loads, check to see if EDEX_00 is Active under the "EDEX Instances" list. If it is listed as Not Active, right click on EDEX_00 and select Start EDEX.

	WES II Bridge				,
File Edit Tools Window Help					
Available Cases					2 🔛 🗆 🗖
Case Name	Path	Status		EDEX Instance	S
EDEX Instances					🧳 🔻 🗖 🗖
EDEX Instance		Status			
EDEX_00					
EDEX_01		Not Active	Reset EDEX	-	
EDEX_02		Not Active	Start EDEX		
EDEX_03		Not Active	Stop EDEX Start CAVE		
EDEX_04		Not Active	Start CAVE		
	17:10:23Z 05-Nov-1	5 120M of 495M	Û		

4. Under the File menu select AWIPS Archive Case,

File Edit Tools Windo	ow Help
New Case	Ctrl+N
	Shift+Ctrl+A
Merge Case	Ctrl+M
Utilities	>
Refresh View	F5
Restart	Ctrl+Alt+R
Exit	Ctrl+Alt+Q

and in the wizard first page:

a. Click on Browse button and navigate to /data1/wes_cases/ where you will select w2b_exercise_case_14_3_1.

۱	Case From Archived Data Wizard ×
AWIPS Archive	r: Source Directory
Enter the locati	on of the AWIPS archived data directory where Processed and Raw directories are located.
Source Directo	ry
The case sou	rce directory
Source:	/data1/wes cases/w2b exercise case 14 3 1 Browse
Case Type	
🗹 Use origin	al archived data and do not copy to an alternate location.
	< Back Next > Finish Cancel

b. Check the "Use original archived data and do not copy to an alternate location" checkbox to leave the w2b_exercise_case_14_3_1 in its current location.

Note: If you are using this GUI for your own local case AND are using /data/archiver for the source directory then you must uncheck this checkbox because WES-2 Bridge is unable to write to the /data/archiver directory.

- 5. Click the Next button.
- 6. In the wizard second page enter the following:
 - a. Case Name: Exercise Case
 - b. AWIPS II Version: 14.3.1 (this is used for tracking build dependencies)
 - c. Case Description: archiver filtered case with radar, satellite, obs, warnings and FFMP data (this is useful documentation for later use)

(3)	Case From Archived Data Wizard X
AWIPS Archiver: Se	elect Destination
	on where the case will be saved. es can be specified by going to Window -> Preferences -> NEW.
Destination Directo	ry
Select a destinati	on case directory.
Destination:	(/data1/wes_cases/w2b_exercise_case_14_3_1 \$)
Case Name	
Set a name for the	e new case.
Case Name:	Exercise Case
Awips II Version Enter Awips II Ver Awips II Versio	
Case Description	
Set a brief descrip	ption for the case.
Case Descripti	archived filtered case with radar, satellite, obs, warnings, and FFMP data
	< Back Next > Finish Cancel

7. Click Next button.

- 8. Under WFOs box, click on Deselect All button, and then select OUN.
 - **Note:** if you had a lot of data you may choose to filter the data loaded in WES by using the **Data Types** box.
- 9. Click the Next button.
- 10. On the wizard third page enter the following:
 - **Note:** you may want to use the Set Date button to select the time from the calendar to ensure you don't make a typo. Also, you can hold down the arrows on the spinboxes to rapidly index to a number.
 - a. Start Date: 2013-06-01 00:00 b. End Date: 2013-06-01 04:00

(1)		Case From Archived Data Wizard	
	Select Time Range	the case.	
Start Date Start date for t Start Date:	he case	Set Date	
End Date			
End date for th	e case		
End Date:	2013-06-01 04:00	Set Date	

- 11. Click the **Finish** button to create the case metadata.
 - a. When WES is done creating metadata for the case, you will see Exercise Case listed in the Case Name list of Available Cases, and it will have a status of Not loaded.
 - b. If you do not see your case listed, check under Window → Preferences and make sure /data1/wes_cases and /data2 have been added to your "Case directory paths"

3	WES II Bridge		_ = ×
File Edit Tools Window Help			
Available Cases			ê 🖌 🕄 v 🗆 🖬
Case Name	Path	Status	EDEX Instances
Exercise Case	/data1/wes_cases/w2b_exercise_case_14_3_1	Not loaded	
EDEX Instances			2 - 5
EDEX Instance		Status	
EDEX_00			
EDEX_01		Not Active	
EDEX_02		Not Active	
EDEX_03		Not Active	
EDEX_04		Not Active	
	17:27:44Z 07-Mar-16	175M of 617M 📋	

- **12.** In the shell window with w2b_exercise_case_14_3_1 issue the following commands to list out the contents of the case after the metadata is added:
 - a. ls w2b_exercise_case_14_3_1
 - i. Note that the caseMetaData.xml and the localizations folder should now exist
 - b. ls w2b_exercise_case_14_3_1/localizations
 - i. Note that the localization utility tree and maps have been copied into the case from the AWIPS-2 installed on WES-2 Bridge.

13. Select the Exercise Case, right click on the row, and select Load Case.

- a. In the **Load Case** tab, review the metadata, and then click **Load** to load the records into the database.
 - **i.** This will take a minute or two, and the Progress Information bar will disappear when the data is loaded into an available EDEX instance.
 - **ii.** If there are no available EDEX instances, you will be prompted to unload an EDEX instance before being able to proceed.
 - iii. If no EDEX instances are running, WES II Bridge should prompt you to start one. You can also manually start one by right-clicking on an instance in the instance manager and choosing "Start EDEX".
- 14. Drag the vertical bar to the right, so you can see the Status of Exercise Case is Loaded and under EDEX Instances which EDEX instance the case is loaded on.

3	WES II Bridge			,
File Edit Tools Window Help				
Available Cases		4	🖇 🐱 🙆 🙆 🎽 🍷 🗖	
Case Name	Path	Status	EDEX Instances	
Exercise Case	/data1/wes_cases/w2b_exercise_case_14_3_1	Loaded	EDEX_02	
∢	10		>	
EDEX Instances			& ▽ □ 🛙	
EDEX Instance	Status			
EDEX_00	Active			Vertical bar
EDEX_01	Not Activ	e		can be
EDEX_02	Active			dragged to
EDEX_03	Not Activ	e		reveal more/ less of
EDEX_04	Not Activ	e		window
	17:33:20Z 07-Mar-16	123M of 617M] 🕹	→

- **a.** When a case is Loaded, it can be quickly accessed for event review or simulation.
- 15. Right click on Exercise Case, and select Review.
- 16. In the Review Wizard, click Finish.
 - a. Click OK if the Low Available Memory for Application window appears.
 - **b.** CAVE will load with all the data visible, and after 1 minute will set the D2D clock to the end of the case for reference.
 - i. Note: The D2D clock is not frozen and moves forward past the end of the case, but has no impact.
- 17. Under the ktlx menu select All tilts base data, increase frame count to 64, and navigate through the data.
 - **a.** Note this is static case review (no simulation), so the data doesn't update automatically.
- **18.** Swap panes with an empty pane, and under the Obs menu select Local CWA Warnings and navigate through the data.
- **19.** Swap panes with an empty pane, and under the Satellite menu select 4 panel (GOES M-Q) and navigate through the data.
- **20.** Under the **Upper Air** menu, select **Oklahoma City**, **OK** and notice no data will load because this data type (bufrua) was not included in the archive case.

21. Click on the D2D clock and enter 2013-6-1 for the date and 1-30-00 for the time and select Freeze time at this position.

	Set Time	×
○ Use current real time		
 Set time 		
Set time		
Year: 2013 🗘	Month: 6	Day: 1
Hours: 1	Minutes: 30	Second: 0
☑ Freeze time at this pos	sition	
	OK Cancel	

a. Your CAVE clock should have yellow text with a black background when the time is frozen:

Time:	01:30Z 01-Jun-13

22. To launch another CAVE on this case, identify the EDEX Instance in the Case Name list of available cases (i.e. EDEX_02), and then in the EDEX Instances on the bottom left of the WES II Bridge, right click on the appropriate EDEX Instance row and select Start CAVE.

۱		WES II Bridge			×
File Edit Tools Windo	w Help				
Available Cases				a 🛛 🖉 🖉 🖉	
Case Name		Path	Status	EDEX Instances	
Exercise Case		/data1/wes_cases/w2b_exercise_case_14_3_1	Loaded	EDEX_02	
<u>ح</u>		Ш		>	
EDEX Instances				2 ▼ □ □	
				· · ·	
EDEX Instance		Status			
EDEX_00		Active			
EDEX_01		Not Activ	/e		
EDEX_02	Deach EDEX				
EDEX_03	Reset EDEX Start EDEX	Not Activ	/e		
EDEX_04	Stop EDEX	Not Activ	/e		
	Start CAVE	·	1		
	Start CAVE	18:04:38Z 07-Mar-16	334M of 617M		

a. Click OK on the available memory popup window if it pops up, and when CAVE launches, move the new CAVE to a new monitor.

Note: You have to manually set the CAVE clock when using Start CAVE.

- 23. Load and view data on the new CAVE and verify it is the same data.
- 24. Shut down CAVE and the Text Workstation.
 - a. Any active EDEX started above can remain running even after shutting down CAVE.
- **25.** As a final step, reset the task for future users:
 - a. In WES-2 Bridge under the list of Available Cases, right click on the Exercise Case and select "Unload Case". This step will unload the case from the EDEX it was loaded onto.
 - **b.** Navigate to /data1/wes_cases/w2b_exercise_case_14_3_1 and remove the localizations directory and the caseMetaData.xml file.

Task 2: Run a Simulation on a Case Not Loaded: w2b_test_case_14_3_1

- 1. Select w2b_test_case_14_3_1 in the Case Name tab, and right click and select Simulation.
- 2. In the Simulation tab (may need to move the vertical slider bar to see) enter the following:
 - a. Simulation Data Time Range
 - i. Start Date: 2013-05-31 22:25
 - ii. End Date: 2013-06-01 00:00
 - iii. Note: This task loads the whole case (no need to modify the Load Data Time Range). The Simulation Data Time Range will load a subset of the case for simulation.
 - b. Under the WESSL Script, select TestScript.

()		WES II Bridge	_ = ×
File Edit Tools Window Help			
🔮 Available Cases 📃 🗖	w2b test case 14_3_1	×	- 0
2 🖬 🍷	Simulation		
Case Name	w2b test case 14 3 1		
w2b test case 14_3_1		dge 14.3.1 OUN May 31-June 1, 2013	
	Case Information		Simulate
	Name, location, and d	escription of the case	
	Case Location:	/data1/wes_cases/w2b_test_case_14_3_1	Save Macro
	Case Name:		Load Macro
	case Name.	w2b test case 14_3_1	Reset
	Case Description:	Test Case for WES-2 Bridge 14.3.1 OUN May 31-June 1, 2013	Add WFO
			Add Data Types
	Is Remote		
	Host - JMS port	localhost	
	🗉 Load Data Time R	ange	Ξ.
	The start and end date	es of the loaded data must be within the case start and end dates.	
	Case Start Date:	2013-05-31 00:00	
	Start Date:	2013-05-31 00:00 Set Date	
	Case End Date:	2013-06-01 07:00	
	End Date:	2013-06-01 07:00 Set Date	
	Simulation Data T	ime Range	
		es of the simulation must be within the start and end dates of the loaded data.	
	Start Date:	2013-05-31 00:00 Set Date	
	End Date:	2013-06-01 07:00 Set Date	
EDEX Instance	WESSL Script:	TestScript (\$	
EDEX_00	🗌 Remove warnin	igs for the WFO	
EDEX_02	Case Creation Info	ormation	
EDEX_03			
	- WFO (1)	+ 💥 - Data Types (75) + 💥	~
		21:43:24Z 07-Mar-16	

- 3. In the upper-right part of the simulation tab (may need to use scroll bars), click on the Simulate button.
 - **a.** The case will first be Loaded into an available EDEX which will take a minute or two.
 - **b.** If no EDEX instance is available you will need to unload a case by right clicking on a case name and selecting Unload.
- 4. Click **OK** on the available memory popup window if it pops up, and note when the WESSL2 window and Simulation Controls window pops up.
 - a. Ignore any error messages about "Requested map level(s)".
- 5. Click the PLAY button on the Simulation Controls window.
 - a. Note: You will be issuing a warning during this task. There may be an issue where warnings will not display in D2D when running a simulation on a particular EDEX for the first time. To get around this, hit STOP under Simulation controls, close CAVE and the WESSL window, and repeat steps 1-4. You will be able to view your warning in D2D on this EDEX in any future simulations.

- 6. WESSL2 will pop up a new report every few minutes, and you can click on each one of the WESSL Events manually if you want to review them.
 - **a.** During the simulation you will receive text, image, and video popups relaying information from various sources on this day.
- 7. From the ktlx menu, select 0.5 Z+SRM8 and review the recent radar data.
- 8. Under the CAVE menu and New submenu select Text Workstation, and then issue a tornado warning with WarnGen (don't spend much time doing it, just for demonstration purposes), making sure to select a basis for the warning (radar detected, spotter, etc.) and/or hail threat.
 - a. If you receive a message about product expiration, click the "Go Ahead" button.
 - b. If warning product does not display in the Text Workstation after you select "Create Text" in Warngen, navigate to CAVE → Preferences → Text Workstation and make sure the host matches the workstation name you are running WES II Bridge from.
- 9. In a new pane, load the Local CWA Warnings plot from the Obs menu, and see your new warning.
- **10.** The simulation will stop at 00:00:00.
 - a. After the simulation has stopped, shut down CAVE and WESSL.

Task 3: Build a WESSL Script and Play it in a Simulation

1. Check to see if EDEX_00 is Active under the "EDEX Instances" tab. If it is listed as Not Active, right-click and select Start EDEX. EDEX_00 MUST be active for Script Builder to run.

Available Cases	2 🖬 💱
Case Name	Path Status EDEX Instances
EDEX Instances	چ ج =
EDEX Instances	्र र व Status
EDEX IIIstances	Status Not Active
EDEX Instance	Status Not Active Not Active Reset EDEX
EDEX Instance EDEX_00	Status Not Active Not Active Not Active Start EDEX Start EDEX
EDEX Instance EDEX_00 EDEX_01	Status Not Active Not Active Not Active Construction

- 2. Right-click on w2b_test_case_14_3_1 and select Launch Script Builder.
- 3. Click on the folder icon, click the New button, and enter a name for your script.

Open Script x	
Scripts available for this case	
an Now Conv. Delate	
Level Copy Delete	
Ĵ	

4. Double click on the Date and Time empty cell where you will enter in 2013-5-31-22-25 and click OK.

File Date/Time Commands Options	ES II Script Build	er _ 🗆 X
demo		
Date and Time	Delay	Command
		Select A Time X
	Choose a Time for a WES Event	
		Start Time: 2013-05-31 12:00:00
		End Time : 2013-06-01 06:00:00
		Year 2013 😴
		Month 5
		Day 31
		Hour 22 🗘
		Minute 25
		Second:
		00 15
		○ 30 ○ 45
		Random Delay
<		ОК
Current Case: w2b_test_case_14_3_:	1	

- a. Right-click in the Command box, and select Text.
- b. Click in the box and type "Begin Simulation", and click OK.



c. Click on the Play button to preview the event text popup.



- 5. Click on the + sign to add an event, and double click on the Date and Time empty cell where you will enter in 2013-5-31-22-25 with the 15 Second checkbox selected and click OK.
 - a. Right-click in the Command box, and select Image.
 - b. Click on the Browse button and navigate to /data1/wes_cases/ w2b_test_case_14_3_1/wessl2/resources.
 - c. Select 20130601_00_summary.png, and click the Open button.
 - **d.** Click on the **Backward then Forward Play** buttons in the **Event Previewer** window already open, and the image will display.
- 6. Click on the + sign to add an event, and double click on the Date and Time empty cell where you will enter in 2013-5-31-22-28 with the 15 Second checkbox selected and click OK.
 - a. Right-click in the Command box, and select Video.
 - b. Click on the Browse button and navigate to /data1/wes_cases/ w2b_test_case_14_3_1/wessl2/resources.
 - c. Select Sequence_01.mov, and click the Open button.
 - d. Click on the **Backward then Forward Play** buttons in the **Event Previewer** window already open, and the video will play.
- 7. Click on the + sign to add an event, and **double click** on the **Date and Time empty cell** where you will enter in 2013-5-31-22-35 with 30 Second selected and click OK.
 - a. Right-click in the Command box, and select Map/Observation Event.
 - b. Type in 35.47 for Latitude and -98.35 for Longitude and "Golf ball hail in Hinton, OK", in the Report Text. Under Report type, select "HAIL" from the drop-down menu then click OK.
 - c. Click on the **Backward then Forward Play** buttons in the **Event Previewer** to preview the event text popup.

- 8. Click on the + sign to add an event, and double click on the Date and Time empty cell where you will enter in 2013-5-31-22-40 with the 45 Second selected and click OK.
 - **a. Right-click** on the box with a **green checkmark**, and select **Pause** (will pause the simulation with this event).
 - b. Right-click in the Command box, and select Presentation.
 - i. **Presentation** launches the Firefox browser on the file you specify. This is useful for incorporating content such as Flash modules, web page, or Articulate/Camtasia content.
 - c. Left-click on the Browse button, and navigate to /data1/wes_cases/ w2b_test_case_14_3_1/wessl2/resources, select Warning LSR Loop.html, and click Open and OK.
 - d. Click on the Backward then Forward Play buttons in the Event Previewer to preview the debrief.
- 9. Click on the + sign to add an event, and double click on the Date and Time empty cell where you will enter in 2013-5-31-22-40 with the 45 Second selected (same time as in previous step) and click OK.
 - a. Right-click in the Command box, and select Text.
 - **b.** Enter in some text saying the simulation has been paused and to click on the PLAY button to resume and click OK.
 - c. Click on the **Backward then Forward Play** buttons in the **Event Previewer** to preview the event text popup.
- **10.** Click on the + sign to add an event, and **double click** on the **Date and Time empty cell** where you will enter in **2013-5-31-22-41** with the **00 Second** selected and click **OK**.
 - a. Right-click in the Command box, and select Presentation.
 - b. Left-click on the Browse button, and navigate to /data1/wes_cases/
 - w2b_test_case_14_3_1/wessl2/resources, select engage.html, click Open and OK.
 - c. Click on the **Backward then Forward Play** buttons in the **Event Previewer** to preview the debrief module.
- 11. After completing steps 3–9, your Script Builder window should be populated with events similar to this:

demo						
Date and Time	Delay	Command		Notification	Category	Comment
2013-05-31 22:25:00 Z	4	Text: Begin Simulation	43	asterisk.wav		
2013-05-31 22:25:15 Z	4	Image:sl2/resources/20130601_00_summ	43	asterisk.wav		
2013-05-31 22:28:15 Z	E	Video:3_1/wessl2/resources/Sequence_0	43	asterisk.wav		
2013-05-31 22:35:30 Z		Observation: HAIL	43	asterisk.wav		
2013-05-31 22:40:45 Z		Presentation:essl2/resources/Warning_LS	43	asterisk.wav		
2013-05-31 22:40:45 Z		Text: Simulation paused. Click PLAY to resur	43	asterisk.wav		
2013-05-31 22:41:45 Z		Presentation:e 14 3 1/wessl2/resources/e	43	asterisk.wav		

- 12. Close the WES II Script Builder and Event Previewer windows and click Yes.
- 13. Select w2b_test_case_14_3_1 in the Case Name tab, right click, and select Simulation since you now have the case Loaded.

14. In the Simulation tab Simulation Data Time Range enter 2013-05-31 22:25 for the Start Date and 2013-05-31 00:00 for the End Date.

9	Qı	uick Simulation Wi	izard		×
	: Select Time Range				C 🦚
Set a range of sta	rt and end times for the simula	tion.			N
Start Date					
Start date for th	a cimulation				
Start date for the	2013-05-31 22:25				
Start Date:	2013-05-31 22:25	Set Date			
End Date					
End date for the			_		
End Date:	2013-06-01 00:00	Set Date			
WESSL Script					
Provide the nam	me of the WESSL script to run w	ith the simulation.			
WESSL Scrip	t: demo				0
WARNINGS SETTI	NGS				
Check box if the	e warnings should be removed	for the WEO			
	arnings for the WFO	ior the mos			
		< Back	Next >	Finish	Cancel
		DOCK	INCAL >	misii	Cancer

- 15. Under the WESSL Script, select the script name you created in Step 3, and click the Finish button.
- **16.** Click **OK** on the available memory popup window, and note when the WESSL2 window and Simulation Controls window pops up.
- 17. Click the PLAY button on the Simulation Controls window.
- 18. WESSL2 will pop up your events as you created them.