

WES Startup Instructions

For simulations and case review mode

The following are a simple guide to help you get case data displayed in your WES via a simulation mode or case review mode. If, during this process, you encounter any issues or errors, please send an email to Dale.A.Morris@noaa.gov and let him know what part of this document you are having trouble with.

Step 1. Logging into your WES

Log into the WES with your credentials. If you have difficulty logging into your WES, please see your local WES focal point.

Step 2. Launch WES-2 Bridge

Under the '*Applications*' menu, click on '*WDTD*', and then click on *WES-2 Bridge*. This should launch the WES-2 Bridge GUI within 15-30 seconds. Expand the WES-2 Bridge GUI to cover the whole desktop screen.

Step 3. Setting up a simulation or case review

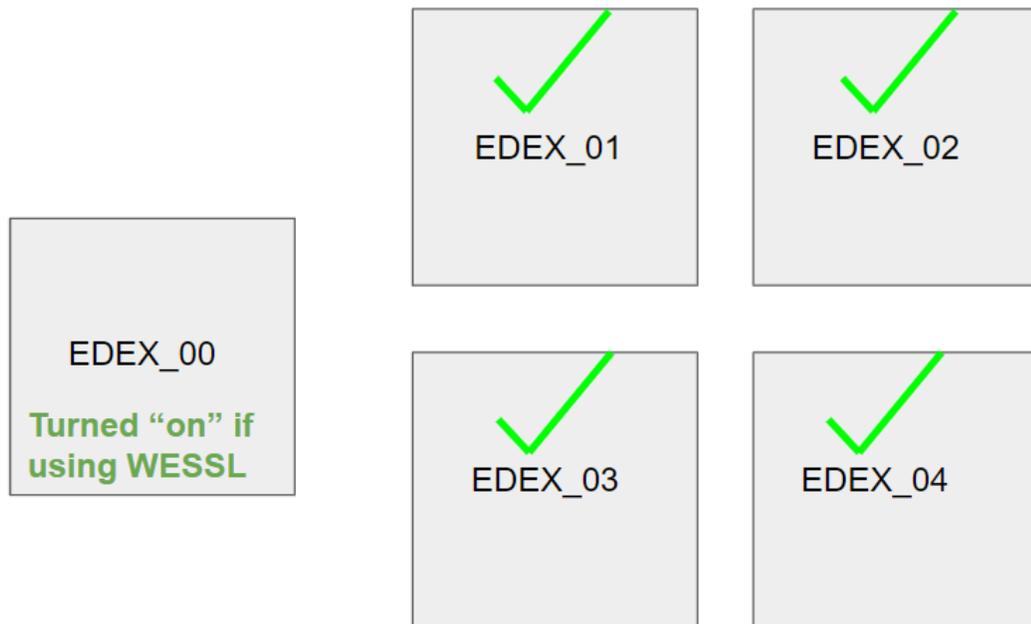
The WES-2 Bridge uses something called an 'EDEX instance' to host and display case data for users. There are a total of 5 EDEX instances on the WES, ranging from EDEX_00 all the way up to EDEX_04. Most of the EDEX's perform similar roles, though we will see there are some slight, important differences to be aware of.

The following are easy to follow instructions that will guide you how to set up the data in a simulation mode or a case review mode.

3a. Simulation Mode

Running a Simulation?

1. Verify EDEX_00 is on (running)
2. Verify EDEX_01, EDEX_02, EDEX_03, or EDEX_04 is on (running)
3. Verify a case is not already loaded into the EDEX of interest
4. Proceed to load case data into the EDEX of interest



If you want to run a simulation on the WES, there are four important steps you will need to consider.

First, EDEX_00 needs to be on (running) if your simulation has a WESSL script. Make sure you have the WES-2 Bridge GUI open. Look toward the bottom of the WES-2 Bridge GUI where all of the EDEX instances are listed (you should see five, ranging from EDEX_00 to EDEX_04). Under "Status," you will see the EDEX instances listed as active or inactive. Additionally, on the left side of the EDEX text, you will see small flags that may or may not have a color. The following colors indicate the EDEX's status:

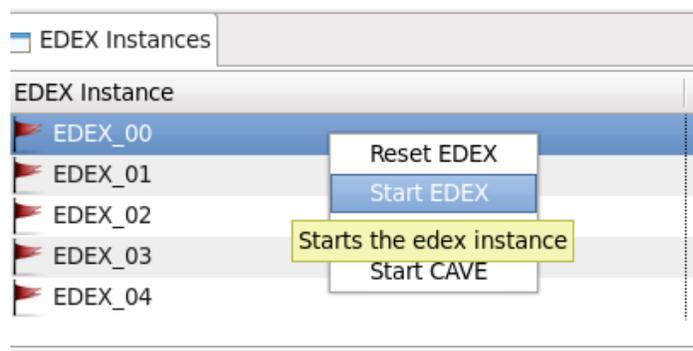
Red = EDEX is Inactive (off)

Yellow = EDEX is active (on) and contains a case

Green = EDEX is active (on) and is empty (does not contain a case)

EDEX Instance	Status
EDEX_00	Not Active
EDEX_01	Not Active
EDEX_02	Not Active
EDEX_03	Not Active
EDEX_04	Not Active

If an EDEX instance is on (running), it will be listed as active. If EDEX_00 is listed as active, then move onto the next paragraph. Otherwise, to start the EDEX, right click on it, and then select the option that says “Start.” This will begin the process of starting the EDEX, which will take 3-5 minutes to complete.



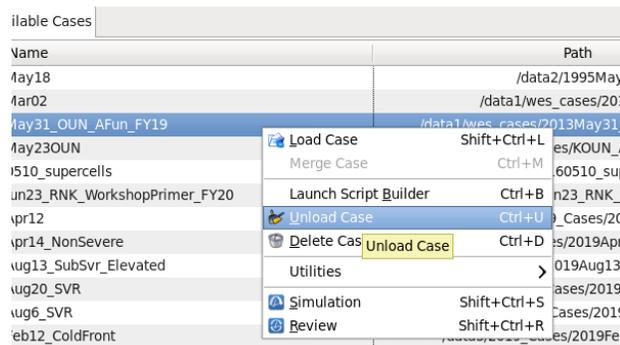
The second step is to verify that EDEX_01, EDEX_02, EDEX_03, or EDEX_04 is on (running). You can verify this in the same way you did for EDEX_00 (in the paragraph above). Please note that you only need one of them on (running) for these instructions, though you are more than welcome to have multiple EDEX instances on (running) with other case data.

The third step is to verify that there is no case data loaded into the EDEX instance that you want to use for your case of interest. Within the WES-2 Bridge GUI, you can quickly scan through the list of cases that are being displayed, and see if any of them show a status of “Loaded” and to which EDEX instance they have been loaded into.

Status	EDEX Instances
Not loaded	
Not loaded	
Loaded	EDEX_02
Not loaded	

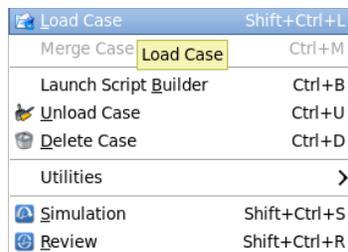
If the EDEX instance you want to use does not have any case data loaded into it, proceed to the next paragraph. If the EDEX instance you want to use has a case loaded to it, you will need to unload the case that it has. To do this, right click on the case, and click “Unload Case.”

Depending on how much data is loaded into the EDEX instance, this could take a minute or tens of minutes.

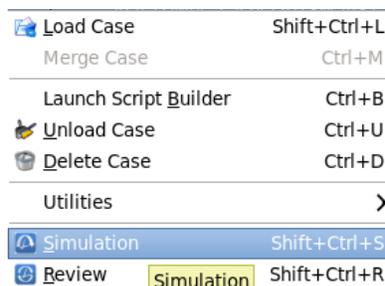


The fourth step is to load your case data into the EDEX. To do this, right click on your case of interest, and click “Load Case.” This will load the case into an EDEX instance that is on and not hosting any cases. One exception to this is EDEX_01. To get a case on this particular EDEX, you would right-click on your case of interest, and then click the “Simulation” option.

Larger cases with big datasets will take longer to load vs smaller datasets, but if this process takes an extremely long amount of time (over an hour) to complete, contact Dale Morris at WDTD (dale.morris@noaa.gov).



Once you have completed the four steps, the only thing left to do is launch your simulation! Right click on your case of interest and click on “Simulation” to prep your case for simulation mode. Note, if you followed the steps above for putting a case on EDEX_01, this has already been completed.



A window within the WES-2 Bridge GUI will appear with all of the details regarding your simulation. If you have created a macro for the case, or if it comes with a macro, click the Load Macro button in the GUI to have the case settings configured for you automatically. Otherwise, tweak those settings to your liking, and then click the “Simulate” button to begin the simulation! Note your simulation case data will look different than the example below.

2015May23OUN

Simulation

2015May23OUN
AWOC Severe Case

Case Information
Name, location, and description of the case

Case Location: /data1/wes_cases/KOUN_AWOCSevere

Case Name: 2015May23OUN

Case Description: AWOC Severe Case

Is Remote

Host - JMS port: localhost

Case Creation Information

Load Data Time Range
The start and end dates of the loaded data must be within the case start and end dates.

Case Start Date: 2015-05-23 18:00

Start Date: 2015-05-23 18:00 Set Date

Case End Date: 2015-05-24 03:00

End Date: 2015-05-24 03:00 Set Date

Simulation Data Time Range
The start and end dates of the simulation must be within the start and end dates of the loaded data.

Start Date: 2015-05-23 18:00 Set Date

End Date: 2015-05-24 03:00 Set Date

WESSL Script: --Select a WESSL Script--

Remove warnings for the WFO

WFO (1)

OUN - Case

Data Types (39)

AIREP
Acars
Acarsounding
Airmet
BUFR MOS (LAMP)
BUFR Soundings
BinLightning
Bufrrhdw
Bufmthdw
Bufmrcwf
Bufsigwx

Simulation Options
Leave input data directory blank to use the defaulted case processed data directory.

Input Data Directory: Browse...

Output Data Directory: /data1/wesSimData/2015May23OUN_202010040214 Browse...

A couple of things to note about simulations...

1. To issue warnings, a text workstation will need to be opened (This can be found under CAVE -> New -> Text Workstation)
2. To launch an additional CAVE, right click on the EDEX your simulation is loaded into, and click "Start CAVE."

3b. Case Review Mode

Want to view case data in a non-simulation mode?

- 1. Verify EDEX_01, EDEX_02, EDEX_03, or EDEX_04 is on (running)**
- 2. Verify a case is not already loaded into the EDEX of interest**
- 3. Proceed to load case data into the EDEX of interest**



If you want to view case data on the WES in a non-simulation mode (i.e., no running clock), there are three important steps you will need to consider.

First, EDEX_01, EDEX_02, EDEX_03, or EDEX_04 need to be on (running). Make sure you have the WES-2 Bridge GUI open. Look toward the bottom of the WES-2 Bridge GUI where all of the EDEX instances are listed (you should see five, ranging from EDEX_00 to EDEX_04). Under “Status,” you will see the EDEX instances listed as active or inactive. Additionally, on the left side of the EDEX text, you will see small flags that may or may not have a color. The following colors indicate the EDEX’s status:

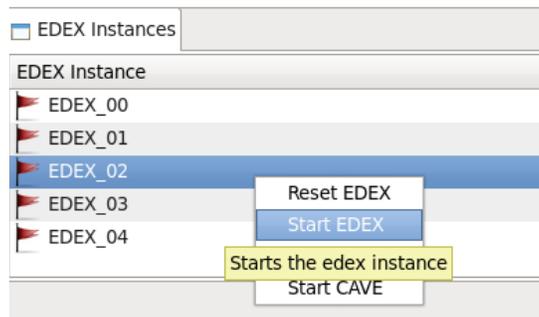
Red = EDEX is Inactive (off)

Yellow = EDEX is active (on) and contains a case

Green = EDEX is active (on) and is empty (does not contain a case)

EDEX Instance	Status
EDEX_00	Not Active
EDEX_01	Not Active
EDEX_02	Not Active
EDEX_03	Not Active
EDEX_04	Not Active

If an EDEX instance is on (running), it will be listed as active. If EDEX_01, EDEX_02, EDEX_03, or EDEX_04 are listed as active, then move onto the next paragraph. Otherwise, to start an EDEX, right click on it, and then select the option that says “Start.” This will begin the process of starting the EDEX, which will take 3-5 minutes to complete.



The second step is to verify that there is no case data loaded into the EDEX instance that you want to use for your case of interest. Within the WES-2 Bridge GUI, you can quickly scan through the list of cases that are being displayed, and see if any of them show a status of “Loaded” and to which EDEX instance they have been loaded into.

Status	EDEX Instances
Not loaded	
Not loaded	
Loaded	EDEX_02
Not loaded	

If the EDEX instance you want to use does not have any case data loaded into it, proceed to the next paragraph. If the EDEX instance you want to use has a case loaded to it, you will need to unload the case that it has. To do this, right click on the case, and click “Unload Case.” Depending on how much data is loaded into the EDEX instance, this could take a minute or tens of minutes.

Name	Path
4ay18	/data2/1995May
4ar02	/data1/wes_cases/2013
4ay31_OUN_AFun_FY19	/data1/wes_cases/2013May31
4ay23OUN	es/KOUN_
510_supercells	60510_suj
un23_RNK_WorkshopPrimer_FY20	n23_RNK_
4pr12	_Cases/20
4pr14_NonSevere	es/2019Apr
4ug13_SubSvr_Elevated	019Aug13
4ug20_SVR	ases/2019
4ug6_SVR	ases/2019
4eb12_ColdFront	es/2019Fel

- Load Case Shift+Ctrl+L
- Merge Case Ctrl+M
- Launch Script Builder Ctrl+B
- Unload Case Ctrl+U
- Delete Case Ctrl+D
- Utilities >
- Simulation Shift+Ctrl+S
- Review Shift+Ctrl+R

The third step is to load your case data into the EDEX. To do this, right click on your case of interest, and click “Load Case.” This will load the case into an EDEX instance that is on and not hosting any cases. One exception to this is EDEX_01. To get a case on this particular EDEX, you would right-click on your case of interest, and then click the “Case Review” option.

Larger cases with big datasets will take longer to load vs smaller datasets, but If this process takes an extremely long amount of time (over an hour) to complete, contact Dale Morris at WDTD (dale.morris@noaa.gov).

- Load Case Shift+Ctrl+L
- Merge Case **Load Case** Ctrl+M
- Launch Script Builder Ctrl+B
- Unload Case Ctrl+U
- Delete Case Ctrl+D
- Utilities >
- Simulation Shift+Ctrl+S
- Review Shift+Ctrl+R

Once you have completed these three steps, you are ready to begin viewing your case data! Right click on your case of interest and click “Review.” Note, if you followed the steps above for putting a case on EDEX_01, this has already been completed.

- Load Case Shift+Ctrl+L
- Merge Case Ctrl+M
- Launch Script Builder Ctrl+B
- Unload Case Ctrl+U
- Delete Case Ctrl+D
- Utilities >
- Simulation Shift+Ctrl+S
- Review** Shift+Ctrl+R

A small GUI will pop up. Hit the “Finish” button in the bottom right corner of the GUI. After several seconds, a CAVE window should appear. Adjust the CAVE clock as needed and load in the data you’d like to view!