

Dispatch Tool and Automated Dispatch and Messaging System Architectural Upgrade Frequently Asked Questions:

1. Why is the AESO implementing an upgrade to the Dispatch Tool and the Automated Dispatch and Messaging System (ADaMS)?

These upgrades will improve the reliability, stability and sustainability of these systems, by strengthening the underlying technical architecture.

2. What is different between the new ADaMS (post June 1, 2010) and the previous ADaMS (prior to June 1, 2010)?

Prior to June 1, 2010, participants received individual dispatches for each service type. Post June 1, 2010, ADaMS dispatch instructions now support an inter-market solution that has merged all the individual dispatch and directive instructions into one dispatch/directive instruction.

3. Have there been any changes to the ADaMS security?

As of June 1, 2010 participants will be required to have a security certificate installed on their computer to access the new ADaMS. All requests for security certificates must come from the corporate contact as registered in the Energy Trading System (ETS). The participant's corporate contact has the responsibility to ensure the security certificate is installed on all systems within their organization that require access to the new ADaMS. We also recommend participants change their ADaMS account passwords on a regular basis.

4. Will the ADAMS URL change on June 1, 2010?

The URL will change from <https://adams.aeso.ca/dt/adams/main.do> to <https://adams-2010.aeso.ca> on June 1, 2010 at 12:25 PM MDT. Please note, that <https://adams.aeso.ca/dt/adams/main.do> will not be accessible after 12:00 PM on June 1, 2010.

Important: Participants must have the security certificate and the new URL to access the new ADaMS on June 1, 2010.

5. What system requirements do we need?

All participants eligible to receive energy market or ancillary service dispatches/directives must ensure their computer equipment provide minimum requirements to effectively handle ADaMS. The supported platform for the upgraded ADaMS will be Windows XP and Internet Explorer 6.

6. What time will the outage to ADaMS occur?

At 12:00 PM MDT on June 1, 2010, ADaMS will be disabled. Between 12:25 PM and 12:40 PM participants should begin to log into the new ADaMS URL. If participants are unable to access the new ADaMS, they should contact AESOfirstcall at ph: 1.888.588.2376 or send an email to info@aeso.ca.

7. Will I still be able to perform a restatement?

ETS will not transfer submission data (offer, restatement, and outage information) to DT during the implementation of the Dispatch Tool Architectural Upgrade (DTAU). Therefore, we recommend participants submit their offers for HE 13 and HE 14 with the expectation that they will not be able to change their offers for the duration of the outage. Participants that experience de-rates and forced outages that affect their offers for HE 13 and HE 14 should contact the SC immediately by phone. Once the System Controller has acknowledged the notification of the change, the participant should immediately follow up with a restatement in the ETS for audit and settlement purposes. During the outage, participants should continue to enter submission information¹ for all hours after HE 14.

8. Is there an updated ADaMS manual?

Log into the new ADaMS URL and select the Help tab.

9. What is Target (Low/High)?

Target (Low/High) provides guidance on the minimum and maximum MW level for an asset at the effective time of a dispatch. These values are a **guideline**, and compliance continues to be assessed separately for each dispatch and directive. Participants must ensure their response to an ancillary service directive continues to align with the Technical Requirements, such that the volumes directed on must be in addition to the **Real Power Output** of the generating unit at the time of the AS Directive.

10. I forgot to download my dispatch history prior to June 1, 2010, what are the steps to obtain the data?

The AESO has implemented a data request process using a data request form. For further information on the data request process and to obtain the data request form, visit the AESO website at www.aeso.ca and follow the path Market > Participant Information > Data Requests.

11. Will these upgrades impact our company's process of screen scraping?

Yes, the AESO will provide participants with an HTML document upon request. The HTML document is intended to provide enough information for participants to revise dependent processes within your organization. Please contact jonathan.taylor@aeso.ca if you wish to receive this document.

¹ Offers, restatements and outage information should be entered in accordance with the ISO rules and the FEOC Regulation.

12. The Current time is 15:22. Asset TST1 is currently providing 250 MW of Energy, 25 MW of DDS, and 75 MW of Spinning Reserve. If TST1 receives a dispatch to 0 MW, and provide 50 MW of Regulating Reserve what will my dispatches look like?

All service type changes are indicated with bolded text and highlighted backgrounds.

The screenshot shows the ADAMS Participant View interface. At the top, there are navigation buttons for 'Participant View', 'Refresh', 'Submit', and 'Logout'. Below this, there are checkboxes for 'CC Audible', 'Silence', 'DVN Variance Audible', and 'DVN Ramp Audible'. The main section is titled 'ADAMS' and contains a table with the following data:

| Accept | Reject | Ack | Dispatch Effective | | Asset | AC | Energy | DDS | SR | | SUP | | TMR | RR | Target | | Notes | Instruction Time | Dispatch | | Directive | |
|-----------------------|-----------------------|-----------------------|--------------------|-------|-------|------|--------|-----|----------|-----------|----------|-----------|-----|----|--------|------|-------|------------------|----------|-----|-----------|-----|
| | | | Date | Time | | | | | Dispatch | Directive | Dispatch | Directive | | | Low | High | | | ON | OFF | ON | OFF |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 09/22 | 15:35 | TST1 | 1000 | 275 | 0 | 75 | 0 | 0 | 0 | 0 | 50 | 275 | 325 | | 09/22 15:35 | E,RR | DDS | | |

Below the table, there is a 'Current Message' section and a 'Dispatch History' section. The 'Dispatch History' table shows the following data:

| Status | Dispatch Effective | Date | Time | Asset | AC | Energy | DDS | SR | SUP | TMR | RR | Target | Notes | Instruction Time | Dispatch | Directive |
|--------|--------------------|-------|------|-------|-----|--------|-----|----|-----|-----|----|--------|-------|------------------|----------|-----------|
| Manual | 09/22 | 15:22 | TST1 | 1000 | 250 | 25 | 75 | 0 | 0 | 0 | 0 | 250 | 250 | 09/22 15:22 | E, SR | |
| Manual | 09/22 | 15:10 | TST1 | 1000 | 325 | 25 | 0 | 0 | 0 | 0 | 0 | 325 | 325 | 09/22 15:10 | E, DDS | |
| Manual | 09/22 | 15:05 | TST1 | 1000 | 350 | 0 | 0 | 0 | 0 | 0 | 0 | 350 | 350 | 09/22 15:05 | E | |

Note: Compliance is assessed separately for each dispatch and directive according to the relevant ISO rules and pertinent Technical Requirements.

13. Will my Dispatch Variance Notification change (DVN)?

As a result of the changes to the Dispatch Tool and ADaMS, there will also be changes to the DVN functionality. Market participants who wish to continue receiving DVN messages through ADaMS will be required to re-register for this functionality. Those market participants who are currently registered to receive DVN messages and who do NOT re-register, will stop receiving DVN messages effective June 1, 2010.

To locate the DVN registration form visit the AESO website at www.aeso.ca and follow the path: Compliance > ISO Rules > Dispatch Variance Notification (DVN).

14. If I accept a real time dispatch for a different service type than my future dispatch, what is my dispatch level in the future?

In the event that a real time dispatch is accepted for a different service type than a future dispatch, then the future dispatch instruction will be updated to reflect the appropriate service level. Participants will be notified when a future dispatch record has been updated.

Example:

- At 14:20, Asset TST1 accepted a future dispatch for Energy to 47 MW and Spinning Reserve Dispatch to 15 MW. The dispatch effective time is 15:00.
- At 14:22, Asset TST1 receives a dispatch for Regulating Reserve to 15 MW.

Participant View

Refresh Submit CC Audible Silence DVN Variance Audible DVN Ramp Audible

ADAMS Hide

| Accept | Reject | Ack | Dispatch Effective | | Asset | AC | Energy | DDS | SR | | SUP | | TMR | RR | Target | | Notes | Instruction Time | Dispatch | | Directive | |
|-----------------------|-----------------------|-----------------------|--------------------|-------|-------|-----|--------|-----|----------|-----------|----------|-----------|-----|----|--------|------|-------|------------------|----------|-----|-----------|-----|
| | | | Date | Time | | | | | Dispatch | Directive | Dispatch | Directive | | | Low | High | | | ON | OFF | ON | OFF |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 04/28 | 14:22 | TST1 | 350 | 15 | 0 | 0 | 0 | 5 | 0 | 0 | 15 | 15 | 30 | | 04/28 14:22 | RR | | | |

Current Message

| Ack | Message Type | Date | Time | Message | Time of Instruction |
|-----------------------|--------------|------------|-------|--|---------------------|
| <input type="radio"/> | Message | 2010/04/28 | 14:23 | TST1 Instruction for Dispatch Effective Time 15:00 has been updated.RR Level changed from 8MW to 15MW due to real time dispatch. Please refer to Dispatch History for the updated dispatch levels. | 04/28 14:20 |

Dispatch History - Last 50 Dispatches Current MW level View Historical dispatches 7 Download Historical dispatches Enter start-time

| Status | Dispatch Effective | | Asset | AC | Energy | DDS | SR | | SUP | | TMR | RR | Target | | Notes | Instruction Time | Dispatch | | Directive | | |
|----------|--------------------|-------|-------|-----|--------|-----|----------|-----------|----------|-----------|-----|----|--------|------|-------|------------------|----------|-----|-----------|-----|--|
| | Date | Time | | | | | Dispatch | Directive | Dispatch | Directive | | | Low | High | | | ON | OFF | ON | OFF | |
| Accepted | 04/28 | 15:00 | TST1 | 350 | 47 | 0 | 15 | 0 | 5 | 0 | 0 | 8 | 47 | 55 | | 04/28 14:20 | E,SR | | | | |

- Once the 14:22 dispatch is accepted, the future dispatch will be updated to reflect the change. A message will be sent to the participant, indicating that the dispatch has been updated.

Current Message

| Ack | Message Type | Date | Time | Message | Time of Instruction |
|-----------------------|--------------|------------|-------|--|---------------------|
| <input type="radio"/> | Message | 2010/04/28 | 14:23 | TST1 Instruction for Dispatch Effective Time 15:00 has been updated.RR Level changed from 8MW to 15MW due to real time dispatch. Please refer to Dispatch History for the updated dispatch levels. | 04/28 14:20 |

Dispatch History - Last 50 Dispatches Current MW level View Historical dispatches 7 Download Historical di

| Status | Dispatch Effective | | Asset | AC | Energy | DDS | SR | | SUP | | TMR | RR | Target | | Notes | Instruction Time |
|----------|--------------------|-------|-------|----|--------|-----|----------|-----------|----------|-----------|-----|----|--------|------|-------|------------------|
| | Date | Time | | | | | Dispatch | Directive | Dispatch | Directive | | | Low | High | | |
| Accepted | 04/28 | 15:00 | TST1 | 0 | 47 | 0 | 15 | 0 | 5 | 0 | 0 | 15 | 47 | 62 | | 04/28 14:20 |
| Accepted | 04/28 | 14:22 | TST1 | 0 | 15 | 0 | 0 | 0 | 5 | 0 | 0 | 15 | 15 | 30 | | 04/28 14:22 |

15. Where can I get updated information on the Dispatch Tool and ADaMS Architectural Upgrade?

To ensure participants are able to retrieve the latest information and updates, we have created a designated location on our website for all historical and current information regarding the Dispatch Tool and ADaMS Architectural Upgrade. To view this area, visit the AESO website at www.aeso.ca and follow the path Market > Dispatch Tool and ADaMS Architectural Upgrade.