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1. **What is the CRR Market User Interface (MUI) Upgrade?**

The CRR MUI Upgrade is an enhancement to ERCOT’s Congestion Revenue Right (CRR) application, which is used by both CRR Account Holders and Counter-Parties to view and submit CRR market data. The CRR MUI Upgrade will improve the ability of ERCOT to support and maintain the CRR application and its related components.

1. **Why was the CRR MUI upgraded?**

The CRR MUI was upgraded for a number of reasons:

1. To position ERCOT’s CRR system to be maintained on a standard software support contract.
2. To permit enhanced market functions in the future.
3. To allow market participants to take advantage of the newest internet browser features.
4. To remove Java applets and the Java Runtime Environment (JRE) requirement.
5. To improve overall user experience and to simplify tasks.
6. To enhance ERCOT’s overall security posture.
7. To update the bilateral market interface, including an upload facility for multiple bilateral trades per System Change Request (SCR) 777.
8. To remove all references to flowgate rights per Nodal Protocol Revision Request (NPRR) 648.
9. **When was the CRR MUI upgraded?**
10. The CRR MUI was upgraded on November 19, 2018.
11. **Did the CRR MUI Upgrade have an impact on auction results or credit requirements?**

No, the upgrade only changed the user interface. There are no changes to the auction optimization engine, and the credit requirements to participate in an auction remain the same. The upgrade only changed the interface for CRR Account Holders and Counter-Parties to view and submit market data.

1. **Do I need to qualify on the upgraded CRR MUI?**

Yes. All new users of the CRR system will need to qualify on the upgraded CRR system if they plan to participate in any future auctions. ERCOT will no longer qualify users on the previous MUI.

1. **How do I qualify on the upgraded CRR MUI?**

Users who wish to qualify on the upgraded CRR MUI will need to access the CRR MUI in the Market Operations Test Environment (MOTE) by going to the following link: <https://testmis.ercot.com/>. Users will then complete a series of qualification steps similar to the steps taken to qualify on the previous CRR system. The CRR MUI Qualification Process and Scorecard zip file is posted on the CRR webpage (<http://www.ercot.com/mktinfo/crr>).

1. **How do I get a digital certificate to access the Market Operations Test Environment (MOTE)?**

Your current MOTE digital certificate is also valid for the upgraded CRR MUI in MOTE. If you do not have a valid digital certificate, your User Security Administrator (USA) can request a digital certificate via email to [mpimdigitalcertadmin@ercot.com](mailto:mpimdigitalcertadmin@ercot.com).

1. **How long does it take to complete the qualification?**

Once you have a valid MOTE digital certificate, the test itself can be completed in less than half an hour. But, keep in mind that there are tasks to be completed by both the CRR Account Holder and its Counter-Party, so the test will need to be coordinated between both. After the qualification test is completed, the scorecard is sent to ERCOT to verify and to communicate whether the test was passed or failed. ERCOT will provide details on any task(s) that need to be repeated in order to complete the test. ERCOT may need a couple of business days to determine scorecard results, based on how many are in the queue.

1. **Where can I find training materials on the CRR MUI?**

Training materials are posted under CRR MUI on the CRR webpage (<http://www.ercot.com/mktinfo/crr>). Training materials include a detailed user guide and interface specifications, a qualification process document and scorecard, and sample upload files. There is also a web-based training course, titled CRR Market User Interface, available on the ERCOT Learning Management System (LMS).

1. **What are the notable differences in the download files in the upgraded CRR MUI?**

Below is a description of some of the differences in the results files, as well as some of the other download files, that address questions that have been received. More details on file structures and formats can be found in the CRR MUI Interface Specifications document.

Structural differences:

* The downloads are now zip files. Multiple files can be selected and downloaded into a single zip file.
* New download files (.xml, .csv) have been added for Common Market Electrically Similar Settlement Points (ESSPs).
* Columns for Flowgates have been removed from all download files.
  + Existing CRRs (private and common)
  + Baseload (auction and allocation)
  + Market Results (auction and allocation)
  + Bids and Offers (auction)
* Category removed from all files as part of the Flowgate removal (all CRRs are Point-to-Point).
  + Existing CRRs (private and common)
  + Baseload (auction and allocation)
  + Market Results (auction and allocation)
  + Bids and Offers (auction)
* Time of Use (TOU) column removed from Common Sources and Sinks network model files.
* Flowgate Shadow Price files removed.
* Flowgate Device Flows files removed.

Formatting differences:

* The data in column “CalendarPeriod” in Sources and Sinks Shadow Prices, and in the Binding Constraints files, has an under bar in MMM\_YYYY (used to be a space. E.g., “APR 2027” now shows as “APR\_2027.”
* Some of the headers changed for the .csv files but not the .xml files.
  + ShadowPrice to ShadowPricePerMWH in both the allocation and auction files
  + BidPrice to BidPricePerMWH in the auction files
* The column name “Bid Type” for a buy or sell replaced “Class” in the header for the Market Results files (private and common).
* The column name “Bid Type” for a buy or sell replaced “Type” in the header for the Common Bids and Offers file.

1. **Who can I contact with any questions about the CRR MUI?**

For any questions, please contact the CRR team at [ercotcrr@ercot.com](mailto:ercotcrr@ercot.com) or your ERCOT Account Manager.