



OPTIONS PRICE REPORTING AUTHORITY  
Migration to OPRA Pillar Platform **MULTICAST OUTPUT** FAQs  
Version 1.1 – February 5, 2021  
(Updates *Italicized*)

The Options Price Reporting Authority (OPRA) system will be migrating to the new OPRA Pillar platform on **July 26, 2021**. Built using the architecture of the NYSE Pillar platform, the OPRA Pillar is distributed, scalable, resilient, and designed for low latency (e.g., under 20 microseconds at the median).

### **Migration Schedule**

#### **1. What is the migration schedule for OPRA Pillar?**

- The initial OPRA Pillar notification and migration schedule was generated on December 16, 2020. It is posted at [www.opraplan.com/Pillar](http://www.opraplan.com/Pillar). The migration schedule is below.

### **Testing Dates:**

- **Certification (Cert) System Functional Testing:**
  - Begins: Tuesday, February 22, 2021
  - Ends: Friday, July 9, 2021
  
- **Industry Functional Testing:**
  - Saturday, March 27, 2021
  - Saturday, April 10, 2021
  - Saturday, April 24, 2021
  
- **Parallel Production Testing** (from the Primary Data Center unless otherwise specified):
  - Begins: Monday, April 26, 2021
  - Ends: Friday, July 23, 2021
    - Monday, May 24, 2021 - Friday, May 28, 2021 (from the DR Data Center Week #1)
    - Monday, June 14, 2021 - Friday, June 18, 2021 (from the DR Data Center Week #2)
  
- **Industry Non-Functional Testing:**
  - Saturday, May 8, 2021
  - Saturday, May 22, 2021
  - Saturday, June 5, 2021
  - Saturday, June 12, 2021
  - Saturday, June 26, 2021
  
- **Production Final Software Test:**
  - Saturday, July 10, 2021
  
- **Production Confidence Test:**
  - Saturday, July 24, 2021



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- **Activation Date:**
  - **Monday, July 26, 2021**

### **Specifications and Documentation**

- 1. Where can I find documentation related to the OPRA Pillar migration?**
  - Documentation related to the OPRA Pillar migration can be found at [www.opraplan.com/pillar](http://www.opraplan.com/pillar).
- 2. Are there any differences between legacy OPRA and OPRA Pillar?**
  - *Yes, there are some functional differences between legacy OPRA and OPRA Pillar. These differences are detailed in the 'OPRA SIP Current vs. Pillar Output Differences' and 'OPRA SIP Current vs. Pillar Retransmission Differences' documents located in the 'Resources' section at [www.opraplan.com/pillar](http://www.opraplan.com/pillar).*

### **Testing**

- 1. What will the three scheduled industry functional tests consist of?**
  - The three industry functional tests will consist of all OPRA Participants generating trade and quote data simulating a trading day.
- 2. What will the five scheduled industry non-functional tests consist of?**
  - The five industry non-functional tests will consist of failure/recovery testing, failover to backup data center testing, and fallback to legacy OPRA testing.
- 3. What is the purpose of the Production Final software test?**
  - The purpose of the production final software test is to provide OPRA Participants and Subscribers a final test opportunity with the software that will be frozen and which will go live on July 26, 2021.
- 4. What is the purpose of the Production Confidence test?**
  - The purpose of the production confidence test is to provide OPRA Participants and Subscribers a final verification opportunity with the software which will go live on July 26, 2021.

### **Parallel Production Period**

- 1. Will OPRA Pillar have new Source IP and Multicast addresses?**
  - Yes, OPRA Pillar will be generating trade and quote data with new Source IP and Multicast addresses. These new addresses can be found in Appendix D in the Common IP Multicast Distribution Network Specification, Revision 1.48, at [www.opraplan.com/Pillar](http://www.opraplan.com/Pillar).



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2. ***The National Market Systems Common IP Multicast Distribution Network Recipient Interface Specification, Appendix D, lists 96 multicast lines for regular market open hours. Will OPRA Pillar disseminate over 96 multicast lines?***
  - *OPRA Pillar will disseminate Participant data for the currently used multicast lines. Additional multicast addresses for lines 49-96 have been provided in the specification for possible future expansion.*
  - *During the parallel period and after the migration, Category H, Type N, Line Integrity messages will be generated over the remaining lines.*
3. ***Will all OPRA Multicast lines operate in parallel, or only a subset of lines?***
  - *Only a subset of the 48 lines will operate in parallel until July 23, 2021: Regular Hours Multicast Lines 1, 2, 3, and 4, and Extended Hours Multicast Lines 97, 98, 99, and 100.*
4. ***What will the increase in bandwidth be during the parallel period?***
  - *It's expected that the bandwidth increase during the parallel period will be 2.5Gb for Multicast Lines 1, 2, 3, and 4 on one data stream.*
5. ***What will be the multicast line symbol distribution during the parallel period and when OPRA Pillar goes live on July 26, 2021?***
  - *The symbol distribution currently in effect with legacy OPRA will remain the same for OPRA Pillar, to facilitate parallel testing and fallback.*

## **Fallback**

1. **How long is the fallback period?**
  - OPRA Pillar will go live on Monday, July 26, 2021. The fallback period will be two weeks, ending at close of business, Friday, August 6, 2021.
2. **Are OPRA Subscribers expected to support both legacy OPRA and OPRA Pillar feeds during the fallback period?**
  - Yes. It is a requirement that OPRA Subscribers support both legacy OPRA and OPRA Pillar feeds during the fallback period in the event a fallback is required
3. **Will OPRA Subscribers be notified of a fallback?**
  - *Yes, but only after the event. If a system issue occurs necessitating a fallback, OPRA Pillar data will terminate over the new multicast addresses, and will resume over the legacy multicast addresses. After a fallback, a OPRA notification will be published stating that OPRA Pillar has fallen back to legacy OPRA. Only OPRA Subscribers who have subscribed at [www.opraplan.com](http://www.opraplan.com) to receive OPRA Notifications and Alerts will receive OPRA announcements. If you are not subscribed, please subscribe to OPRA announcements and alerts at [www.opraplan.com](http://www.opraplan.com).*



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- *Legacy OPRA will publish multiple (3) Reset Sequence Number - Category H, Type K, messages (exact numbers to be published at a later date) prior to Participant data publication.*

**4. Will Retransmissions be available from OPRA Pillar after a fallback?**

- *After a fallback, OPRA Pillar retransmissions will NOT be available. If retransmissions are required, Subscribers must request retransmissions from legacy OPRA beginning from Start-of-Day, since both systems are independent.*