

# **Information Technology Service Availability Metrics**

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**ERCOT Board of Directors** 

October 20, 2009

# Agenda and Commentary

#### Retail and Wholesale Systems Performance

- Retail Transaction Processing September performance was 98.98%. This
  was below the service level target of 99.9%
- TML September performance was 99.92%. This was above the service level target of 99%
- MarkeTrak September performance was 99.75%. This was above the service level target of 98%
- TML Report Explorer September performance was 99.05%. This was above the service level target of 99%
- Retail API September performance was 99.74%. This was above the service level target of 99%
- Wholesale Total September performance was 100%

# Market and Grid Control Systems Performance

Real Time Balancing Market (RTBM), Frequency Control (FC) – September performance levels were 100%



# **Agenda and Commentary (continued)**

## Nodal Systems Performance

- Grid Management systems September performance levels exceeded service level targets
- Market Management and other select systems These were taken offline as notified to the Market via Market Notice, dated July 16, 2009. Nodal Market Notices are also posted at: <a href="http://nodal.ercot.com/readiness/notices/index.html">http://nodal.ercot.com/readiness/notices/index.html</a>



# **Agenda and Commentary (continued)**

#### Retail Transaction Processing issues

## **SLA Impacting**

– 9/27/09: NAESB application received processing errors from a service provider following a planned Retail systems upgrade, resulting in an outage that impacted transaction processing for 372 Minutes. The NAESB application was rolled back to the previous version to restore the service. The upgrade of this application will be rescheduled following a more thorough test with the market

#### **Other**

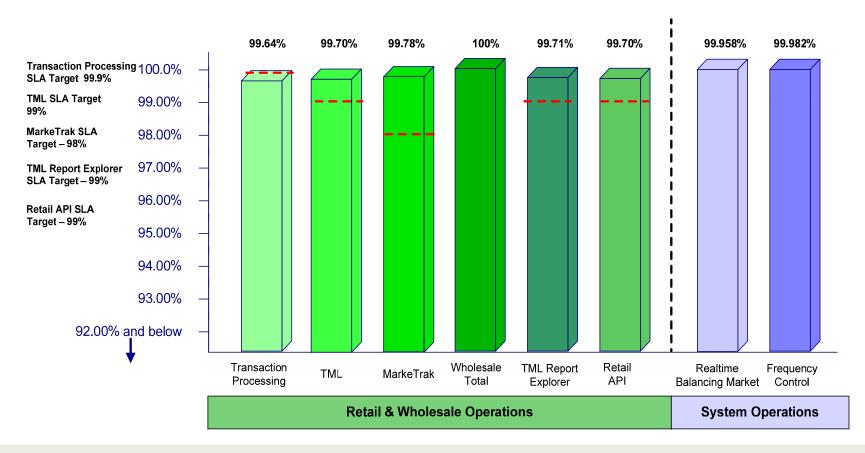
- 9/28/09: Retail Transaction Processing performed in degraded mode for 660 minutes due to a database tuning issue. The issue was resolved by modifying a database parameter and recovering the performance. Backlogged transactions in the queue were processed within 1.5 hours of resolution. (Market Notice indicated an 8 hours backlog process time; however, later analysis showed that the backlog cleared within 1.5 hours)
- 9/29/09 to 10/01/09: Additional tuning efforts resulted in subsequent performance issues, which were corrected



# 2009 Net Service Availability

## 2009 Net Service Availability

Through September 30<sup>th</sup>, 2009





# September 2009 Net Service Availability

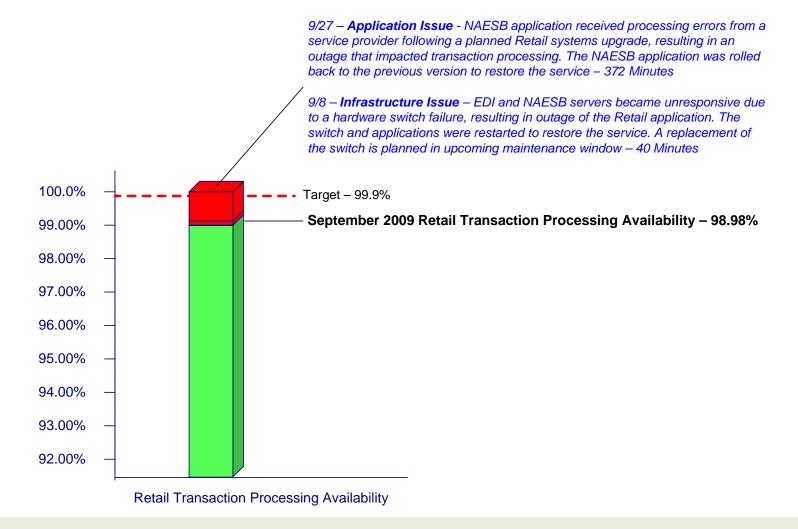
# September 2009 Net Service Availability





# **Retail Transaction Processing Availability Summary**

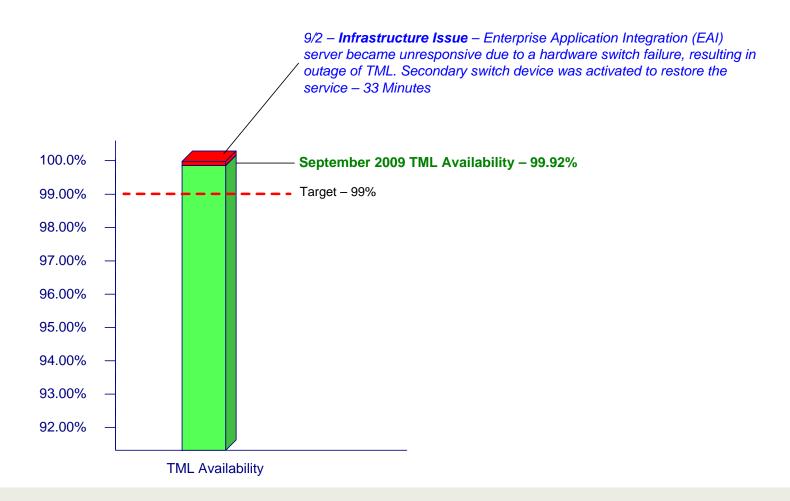
#### September 2009 Retail Transaction Processing Availability Summary





# **TML Availability Summary**

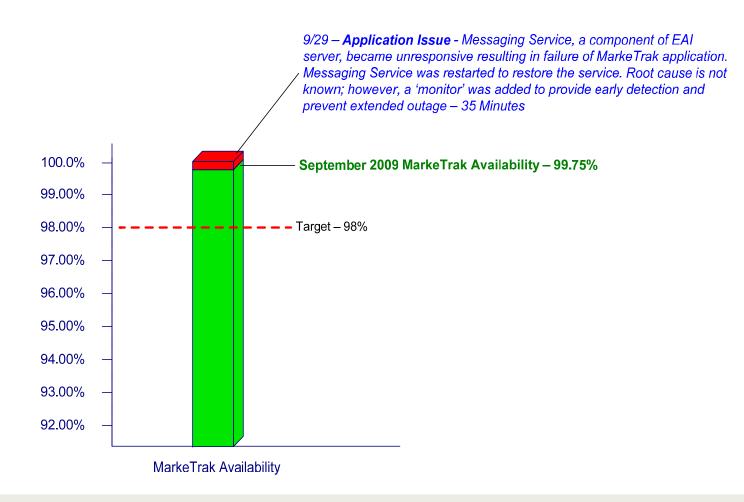
# September 2009 TML Availability Summary





# MarkeTrak Availability Summary

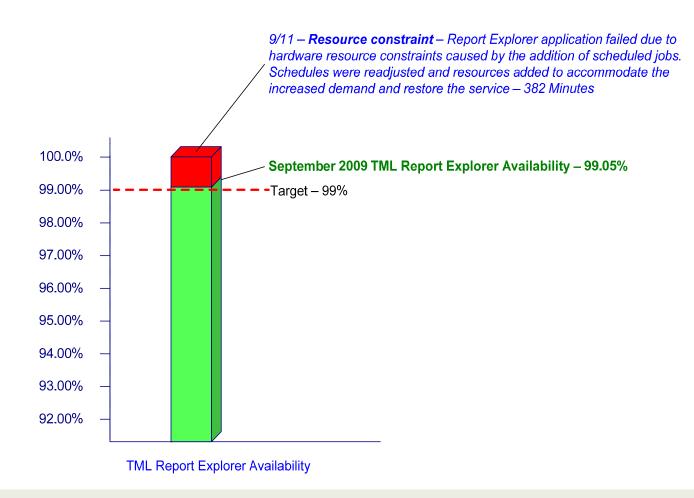
# September 2009 MarkeTrak Availability Summary





# **TML Report Explorer Availability Summary**

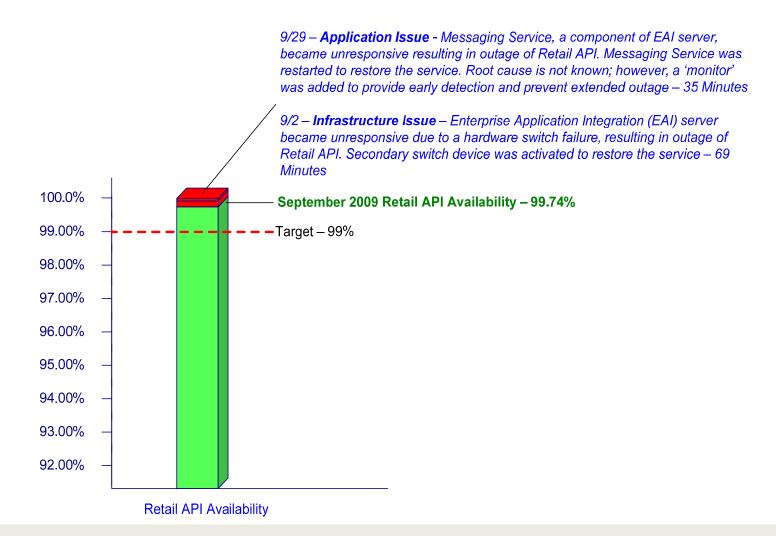
# September 2009 TML Report Explorer Availability Summary





# **Retail API Availability Summary**

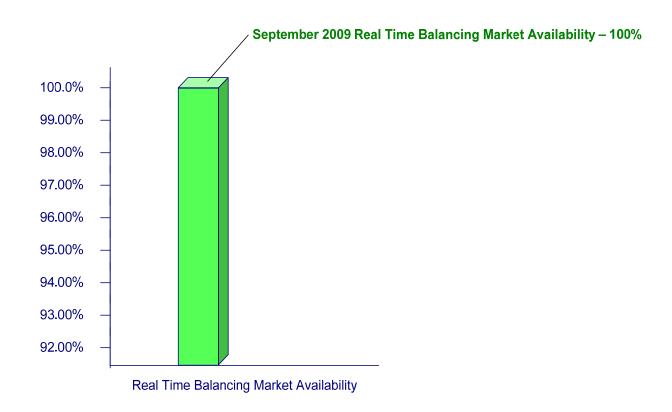
## September 2009 Retail API Availability Summary





# Real Time Balancing Market Availability Summary

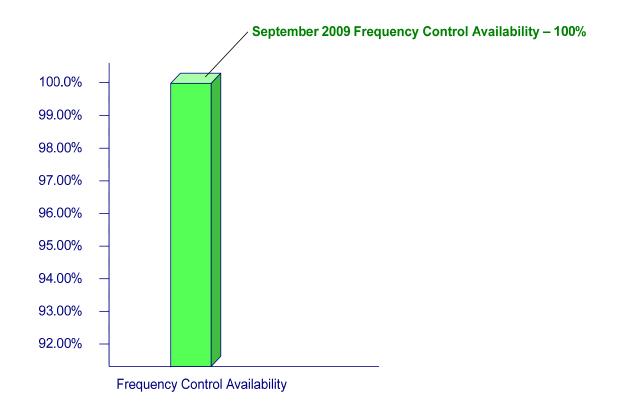
# September 2009 Real Time Balancing Market Availability Summary





# **Frequency Control Availability Summary**

# September 2009 Frequency Control Availability Summary





# **Metrics Guide - Nodal Early Delivery Systems**

#### Aggregate Energy Management System (EMS)

 Measure of the availability of software that provides real time grid control capability. Calculated as average of deployed & monitored components availability

#### Outage Scheduler

 Measure of the availability of the software to manage the submission, modification, deletion of schedules for various types of transmission and generation systems' outages

#### Network Model Management System (NMMS)

Measure of the availability of the software to manage the ERCOT network model.
 Calculated as availability of model management core engine (IMM)



# Nodal EDS Environment - September 2009 Net Availability

