

# Information Technology Service Availability Metrics

Richard Morgan
Vice President & CIO

**ERCOT Board of Directors** 

**September 15, 2009** 

# **Agenda and Commentary**

#### Retail and Wholesale Systems Performance

- Retail Transaction Processing August performance was 98.68%. This was below the service level target of 99.9%
- TML August performance was 98.29%. This was below the service level target of 99%
- TML Report Explorer August performance was 99.20%. This was above the service level target of 99%
- Retail API August performance was 98%. This was below the service level target of 99%
- MarkeTrak, Wholesale Total August performance was 100%

#### Market and Grid Control Systems Performance

 Real Time Balancing Market (RTBM), Frequency Control (FC) – August performance levels were 99.899% and 99.854% respectively



# **Agenda and Commentary (continued)**

#### Nodal Systems Performance

- Grid Management systems August 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)**

#### **SLA Impacting Issues**

#### Retail Systems

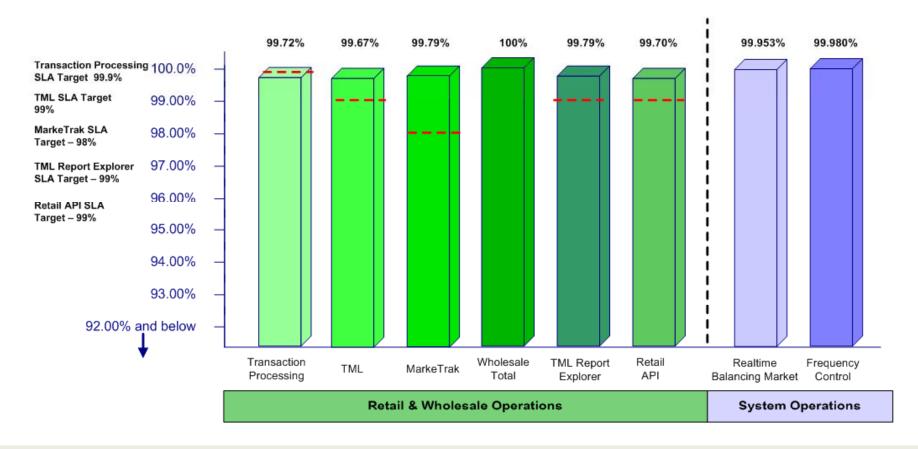
- 8/16/09 Infrastructure issue Server that hosted the databases became unresponsive resulting in outage. Root cause analysis is in progress. Server was shutdown and all systems were restarted to restore the service – 213 Minutes
- 8/10/09 Database issue Database performance degraded following an update of query optimization statistical model, resulting in connection timeout and / or slow response. Previous version of the model was restored to recover the performance. Subsequent models worked without issues 435 Minutes
- 8/9/09 Infrastructure issue A hardware failure caused by a configuration issue following a scheduled maintenance impacted the network, resulting in an unplanned outage. Configuration was updated to restore the service 271 Minutes
- 8/2/09 Planned maintenance outage overrun Due to a batch overrun prior to the start of a planned maintenance outage, the maintenance outage started late and resulted in an overrun of the prescribed window – 72 Minutes



# 2009 Net Service Availability

#### 2009 Net Service Availability

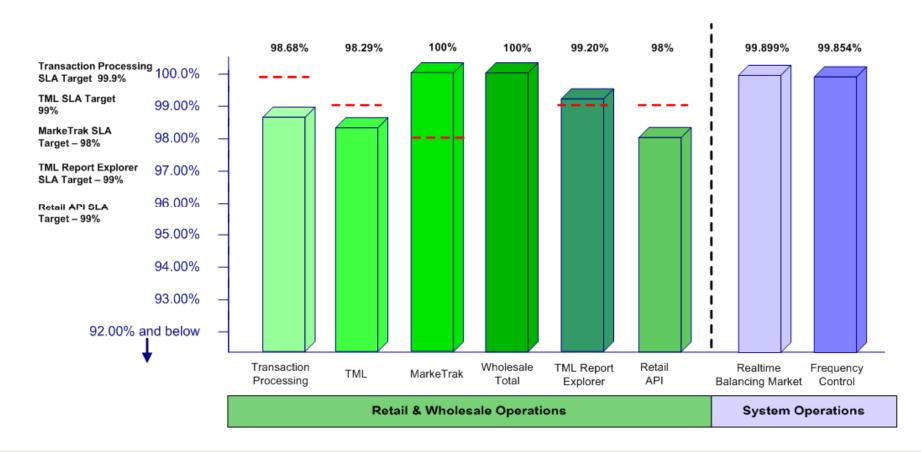
Through August 31st 2009





# **August 2009 Net Service Availability**

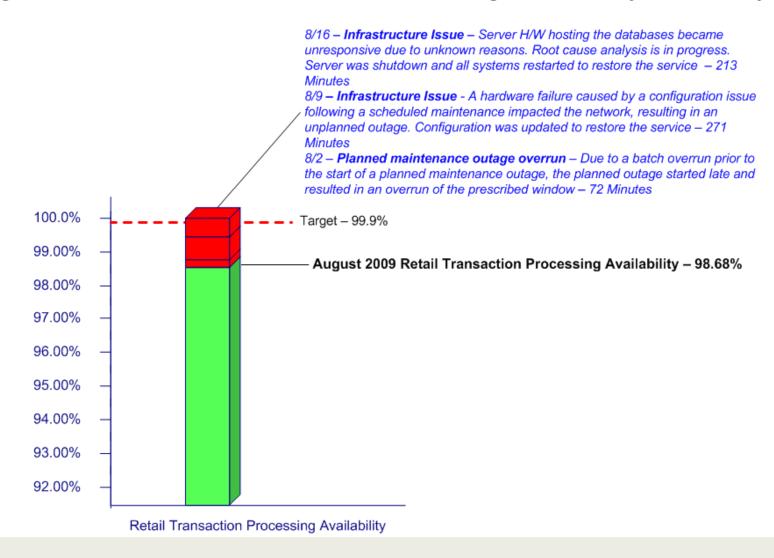
# August 2009 Net Service Availability





# **Retail Transaction Processing Availability Summary**

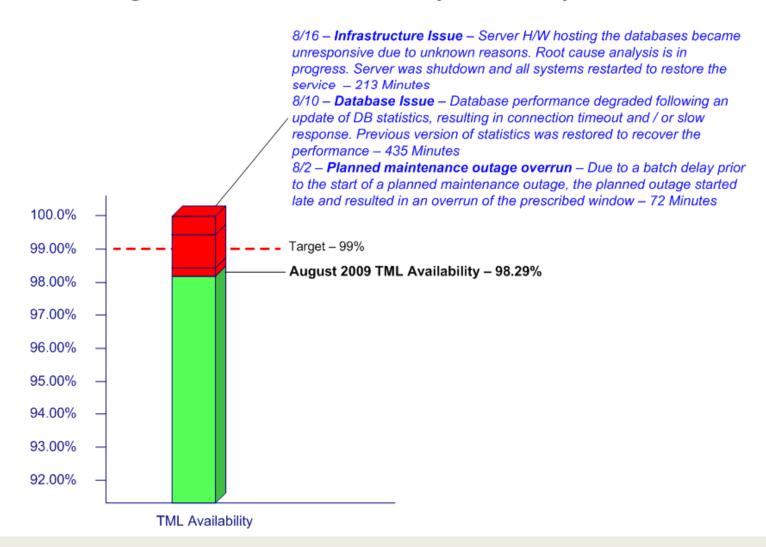
#### August 2009 Retail Transaction Processing Availability Summary





# **TML Availability Summary**

#### August 2009 TML Availability Summary





# MarkeTrak Availability Summary

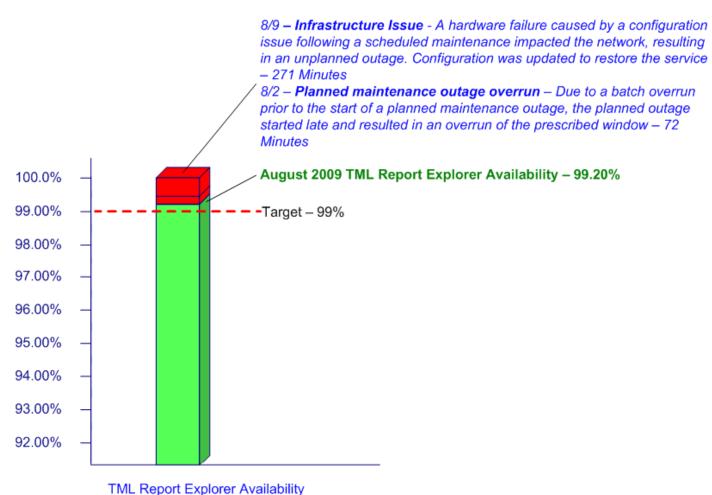
# August 2009 MarkeTrak Availability Summary





# TML Report Explorer Availability Summary

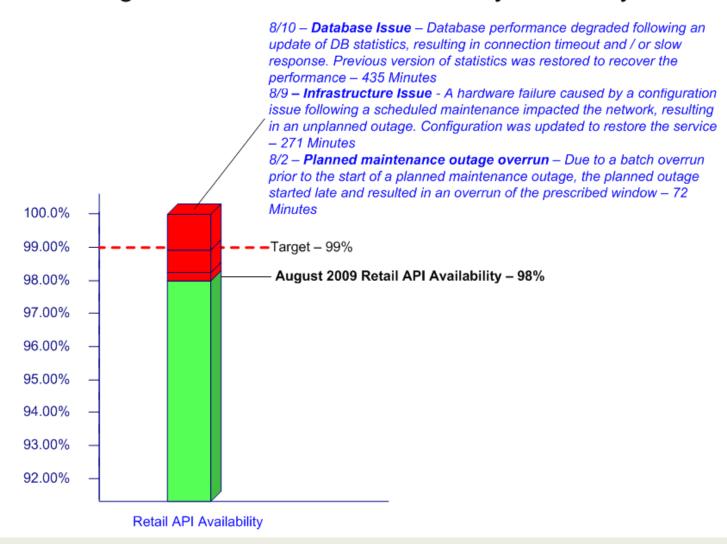
# August 2009 TML Report Explorer Availability Summary





## **Retail API Availability Summary**

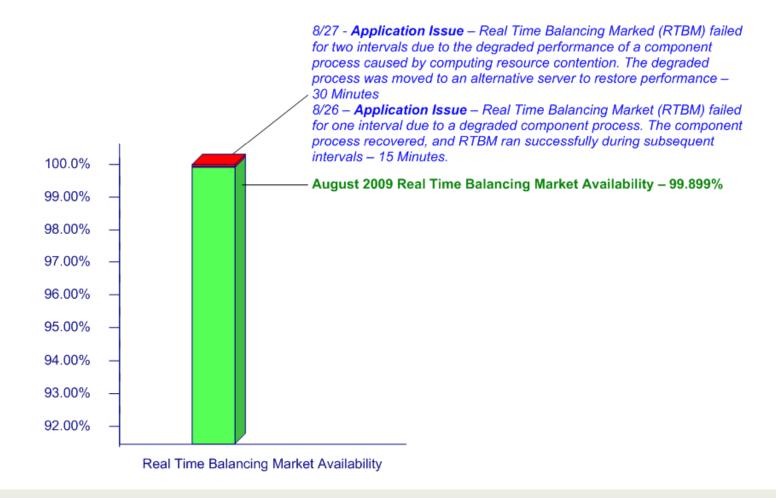
#### August 2009 Retail API Availability Summary





# Real Time Balancing Market Availability Summary

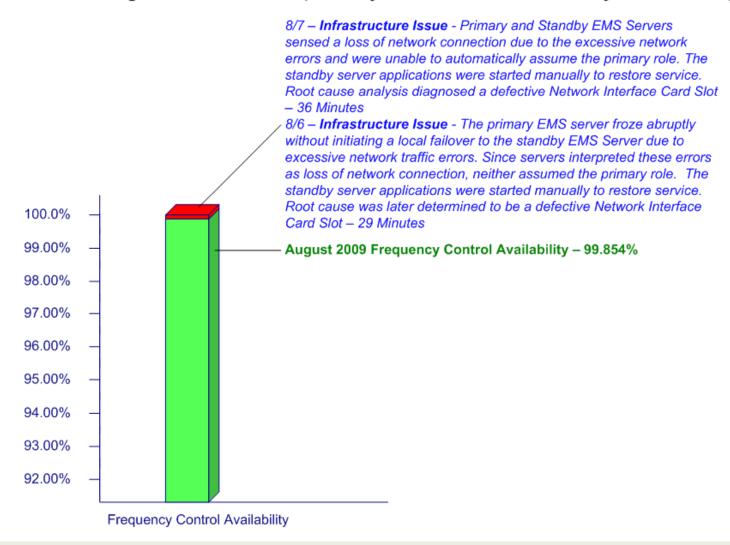
# August 2009 Real Time Balancing Market Availability Summary





## Frequency Control Availability Summary

#### August 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 - August 2009 Net Availability

