

# Information Technology Service Availability Metrics

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ERCOT Board of Directors June 16, 2009

## Agenda and Commentary

### Retail and Wholesale Systems Performance

- Retail Transaction Processing, TML May performance was 100%
- MarkeTrak May performance was 99.65%. This was above the service level target of 98%
- Wholesale Batch, TML Report Explorer, Retail API May performance was 100%

#### Market and Grid Control Systems Performance

 Real Time Balancing Market (RTBM), Frequency Control (FC) – May performance levels were 99.966% and 99.982% respectively



# Agenda and Commentary (continued)

### Nodal Systems Performance

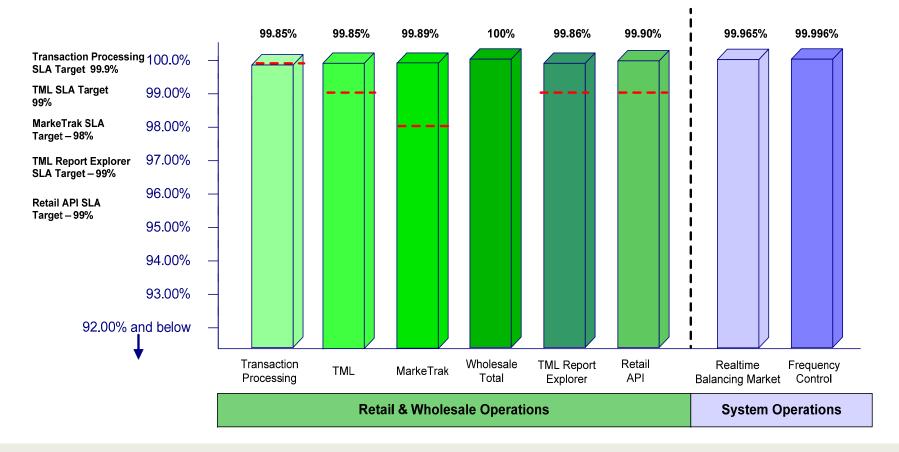
- H/W Infrastructure, Grid and Market system May performance levels exceeded service level targets
- MIS, Current Day Reports (CDR) and Financial Clearinghouse May performance levels exceeded service level targets



#### 2009 Net Service Availability

# 2009 Net Service Availability

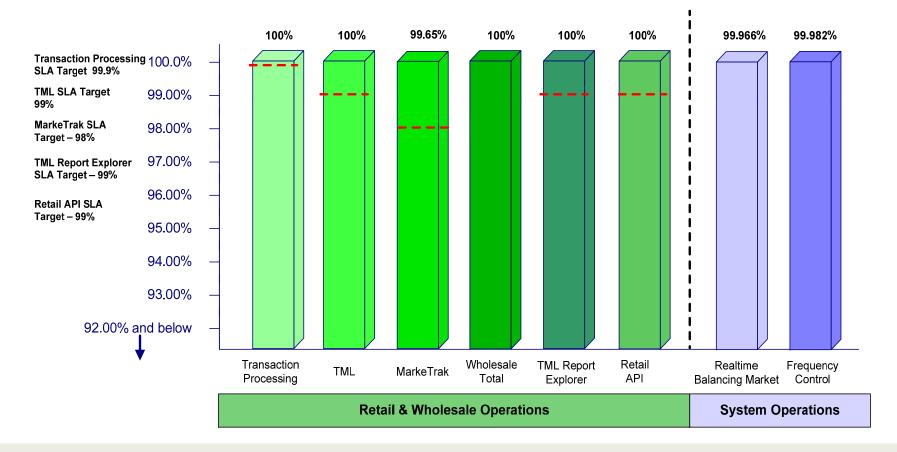
Through May 31<sup>st</sup>, 2009



June 16, 2009

FRC

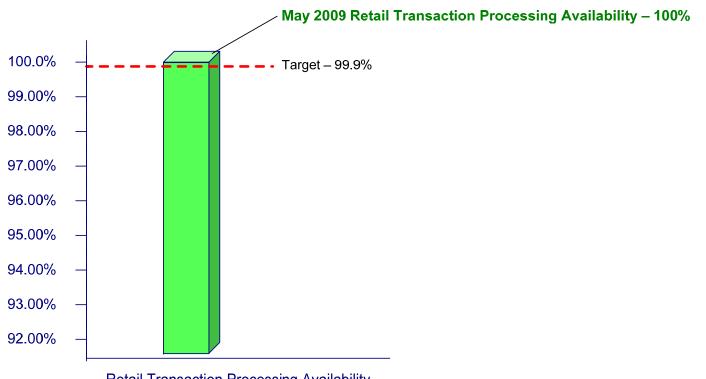
# May 2009 Net Service Availability



June 16, 2009

## **Retail Transaction Processing Availability Summary**

# May 2009 Retail Transaction Processing Availability Summary

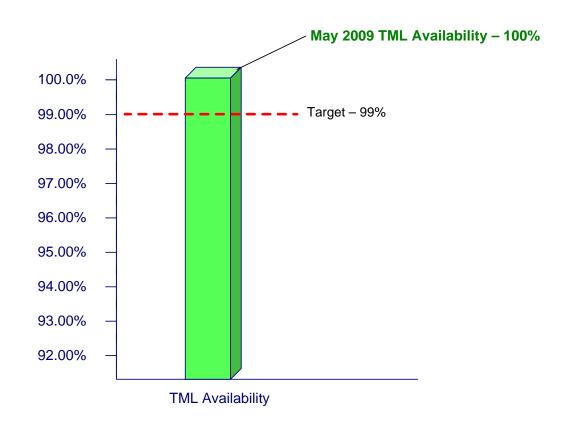


Retail Transaction Processing Availability



## TML Availability Summary

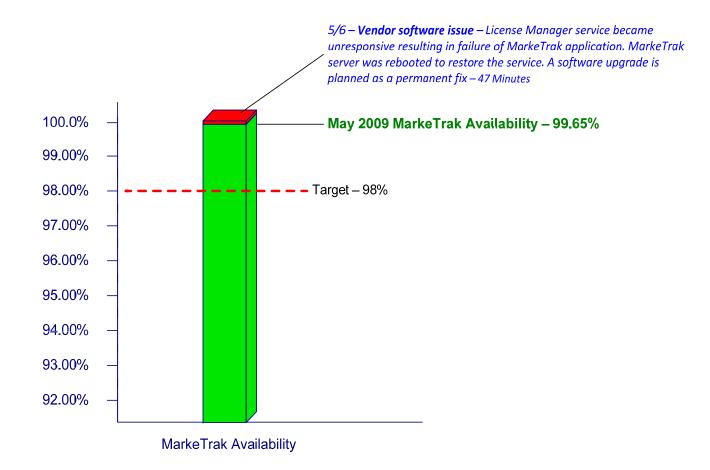
May 2009 TML Availability Summary





## MarkeTrak Availability Summary

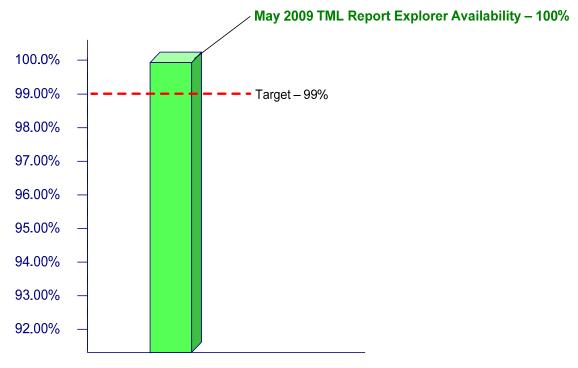
## May 2009 MarkeTrak Availability Summary





### TML Report Explorer Availability Summary

## May 2009 TML Report Explorer Availability Summary

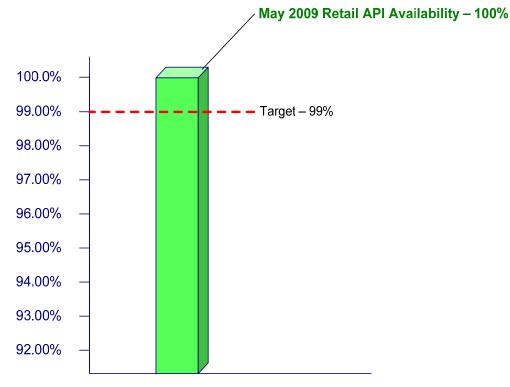


TML Report Explorer Availability



### **Retail API Availability Summary**

May 2009 Retail API Availability Summary

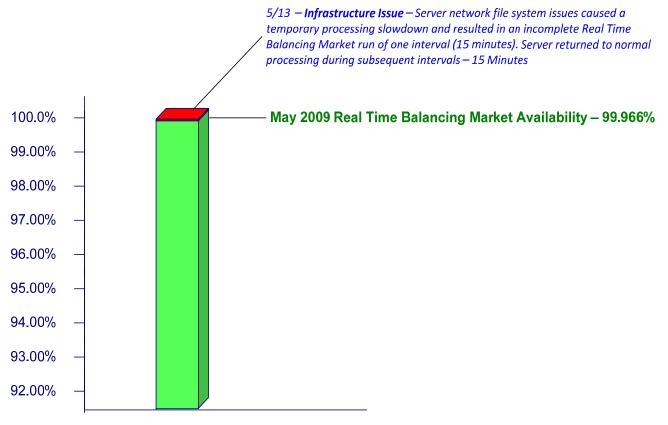


Retail API Availability



## **Real Time Balancing Market Availability Summary**

May 2009 Real Time Balancing Market Availability Summary

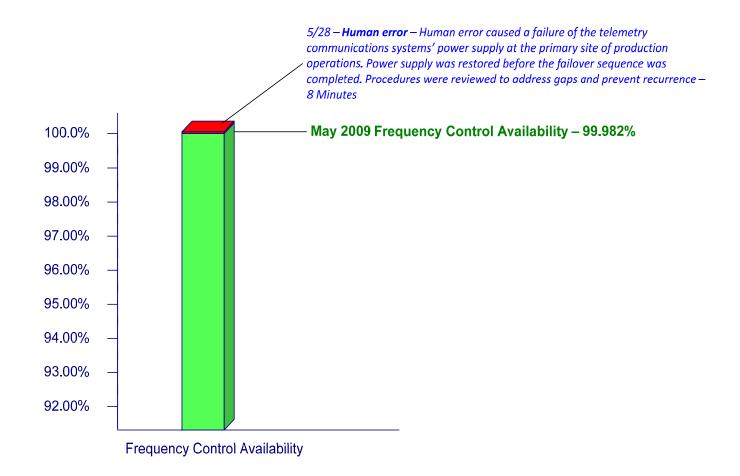


Real Time Balancing Market Availability



## Frequency Control Availability Summary

# May 2009 Frequency Control Availability Summary





# Metrics Guide - Nodal Early Delivery Systems

#### • EDS Hardware Infrastructure

- Measure of the availability of the systems that compose the "Early Delivery Systems" where Nodal applications are deployed
- 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

#### • Aggregate Market Management System (MMS)

 Measure of the availability of the software to economically deploy generation and manage day ahead, real time and ancillary services markets. 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)



# Metrics Guide - Nodal Early Delivery Systems (Contd.)

#### • Congestion Revenue Rights (CRR)

- Measure of the availability of software to manage the financial instruments that help Market Participants hedge against losses due to transmission constraints.
- Aggregate Market Information System (MIS)
  - Measure of the availability of software that provides web-based interfaces for Market Participants to interact with ERCOT markets. Calculated as average of deployed & monitored user-interface components availability

#### • Current Day Reports (CDR)

 Measure of the availability of the software that allows Market Participants query and download reports related to grid and market operations in near real time

#### • Settlements & Billing (S&B)

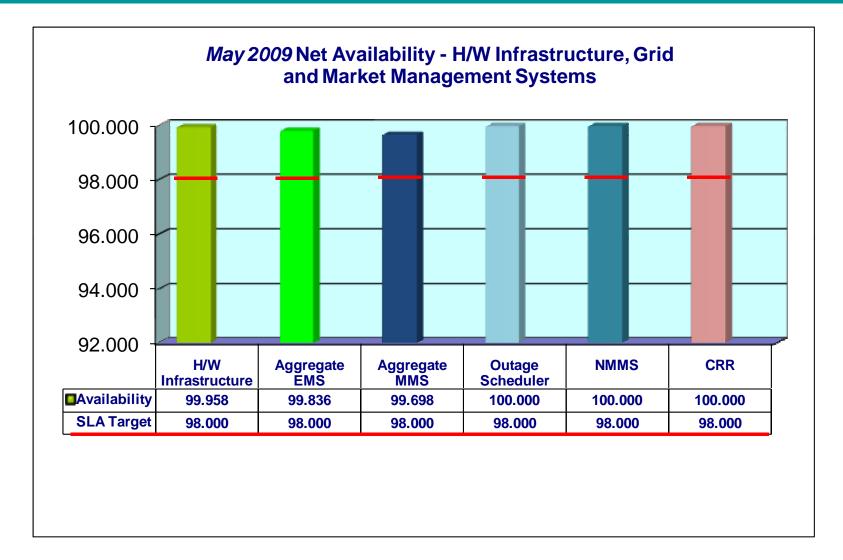
 Measure of the availability of the software to financially settle Market Participant transactions and generate statements and invoices

#### • Credit Monitoring and Management (CMM)

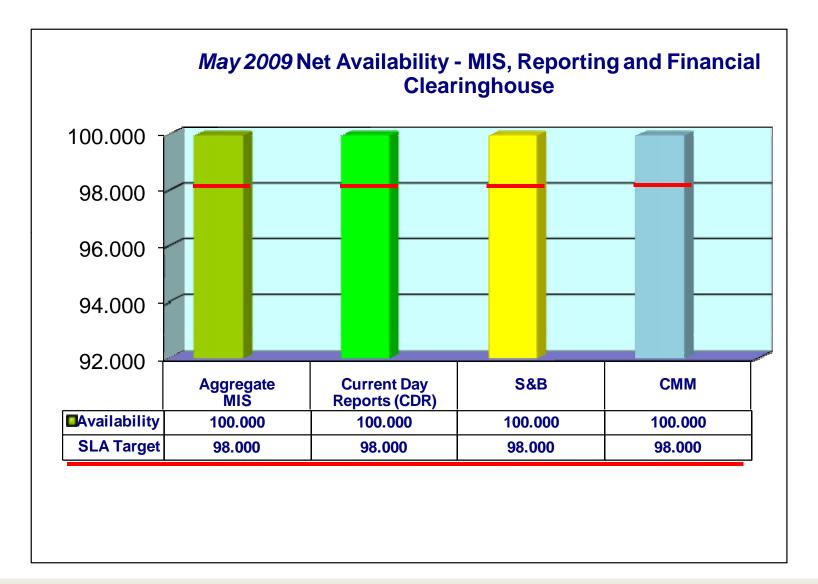
 Measure of the availability of the software to determine credit exposure of Market Participants to the ERCOT markets and continually monitor their ability to meet the credit standards



### Nodal EDS Environment – May 2009 Net Availability



#### Nodal EDS Environment - May 2009 Net Availability (Contd.)



**ERCOT** June 16, 2009