



Information Technology and Facilities Report

Richard Morgan
Vice President & CIO

ERCOT Board of Directors
October 19, 2010

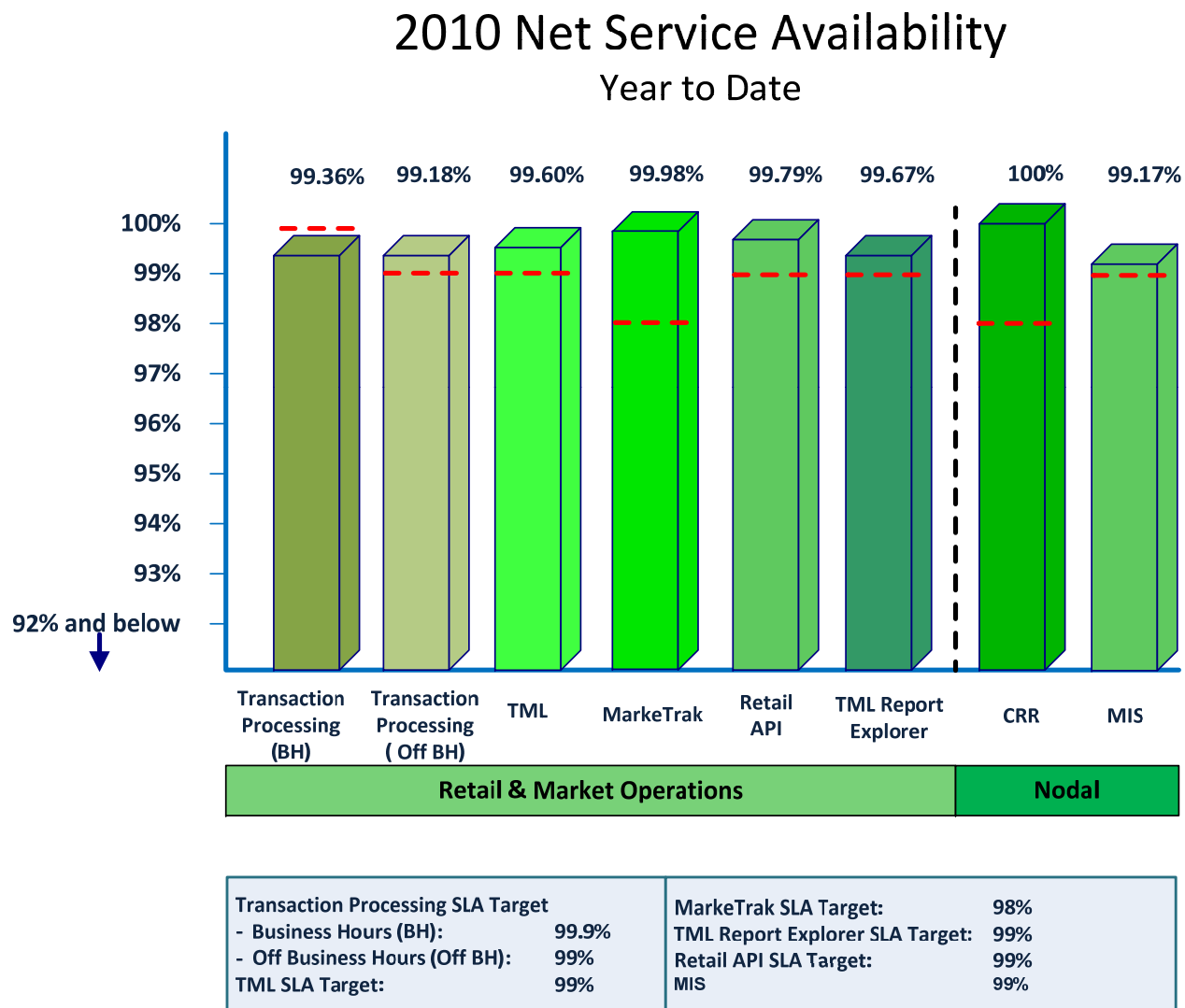
Highlights

- **Service Availability:**
 - SLA targets were not met for retail systems, attributable to a 12 hour emergency outage on 9/6 to resolve storage area network (SAN) issues
 - ERCOT declared an emergency outage over Labor Day weekend to correct the SAN issue, but the required market notice could not be given 10 days in advance to be counted as a planned outage
 - TML, Commercial API, and Retail (non-business hours) did not meet targets for the month
- **New Data center and Operations Control Room:**
 - Construction completed and permanent Certificates of Occupancy issued
 - Installation of the communications capabilities in progress for systems relocation in 2011
- **Hardware Failure on 9/4:**
 - ERCOT experienced a storage area network (SAN) hardware failure in the Taylor Datacenter
 - Required a site failover for Nodal systems to the Austin Datacenter on 9/5 and a 12 hour emergency outage on 9/6 for system repairs
 - Portions of ERCOT's data warehouse were unavailable during the outage
 - System transaction processing backlog caused delay from 2 hours to 3 days for data extracts and reports
 - Settlement Input Data, Market Shadow Price, Day-Ahead Report, Weekly Siebel Service Order, ESI ID Service History and Usage and Ancillary Service Bid Stack were affected

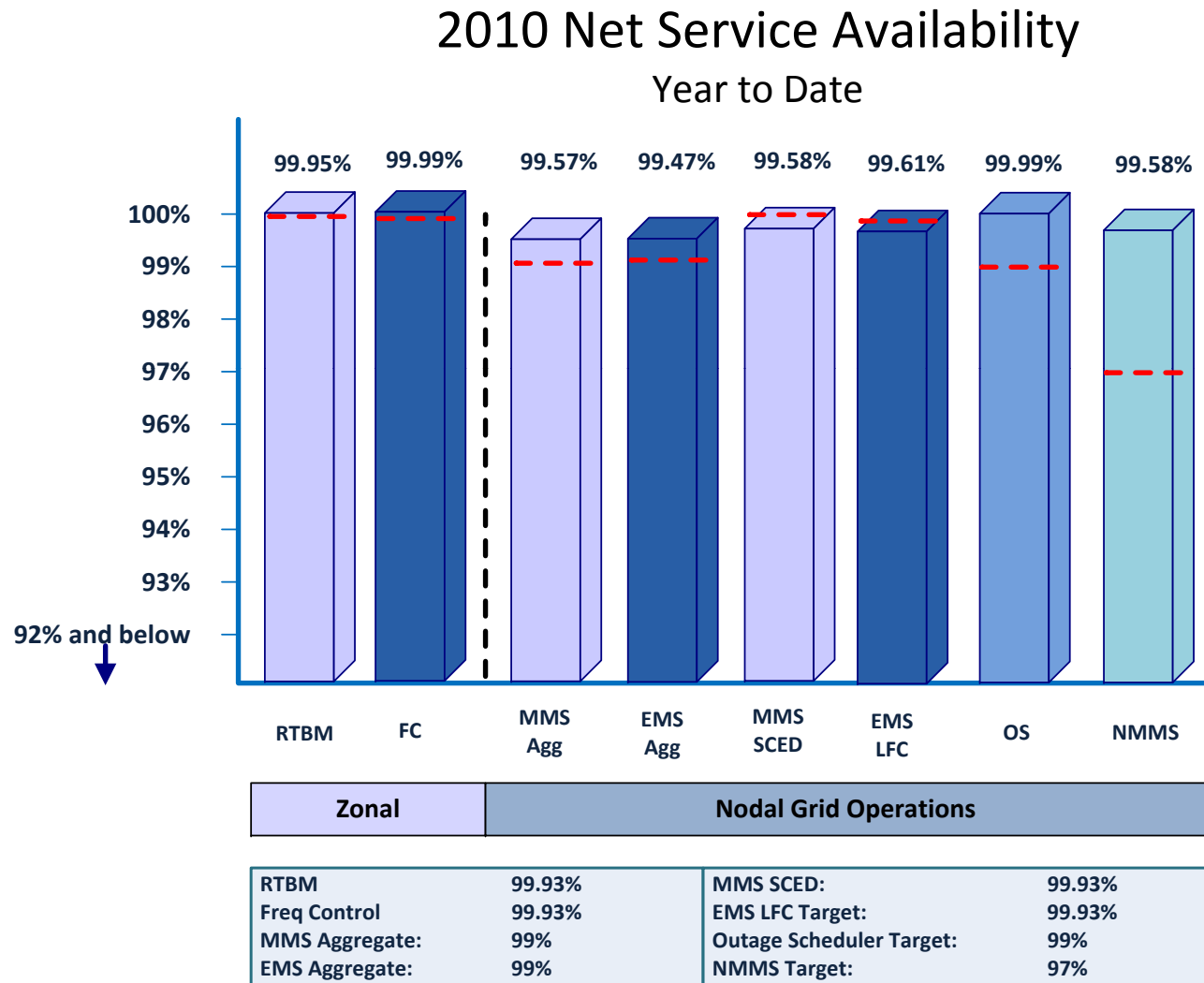
Highlights

- **Commercial API outage 9/19-9/20:**
 - An API component did not properly restart following maintenance activities, which resulted in a 20-hour outage of the Commercial API
 - The alerting mechanism was improperly restarted which extended the duration of the outage
 - Market participants could still download extracts via TML, and Retail API was not affected
 - Only market participants using the Commercial API were impacted
- **Retail processing outage on 9/22:**
 - 43 minute outage caused by an EDI processor engine failure that required an application restart

2010 Net Service Availability (Retail and Market Ops)

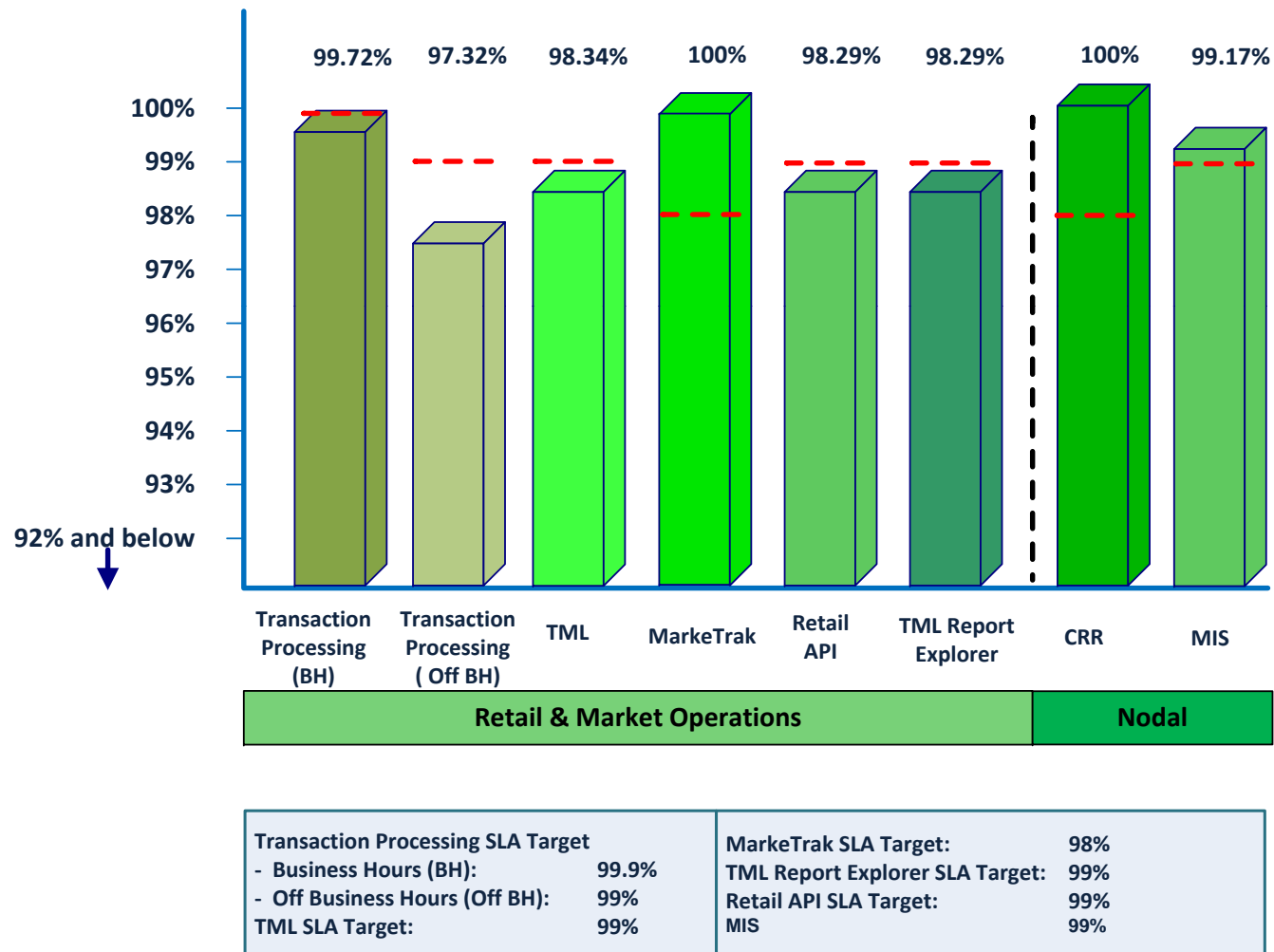


2010 Net Service Availability (Grid Ops)



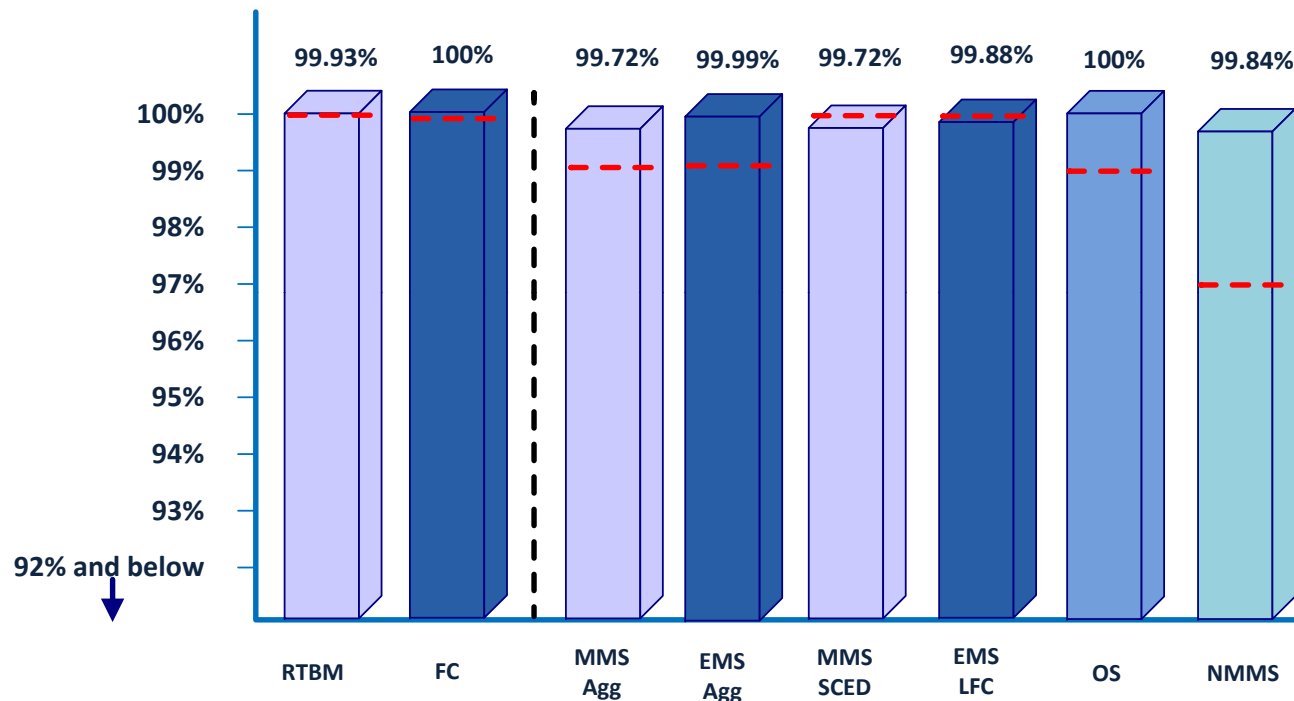
September 2010 Net Service Availability

September 2010 Net Service Availability



September 2010 Net Service Availability

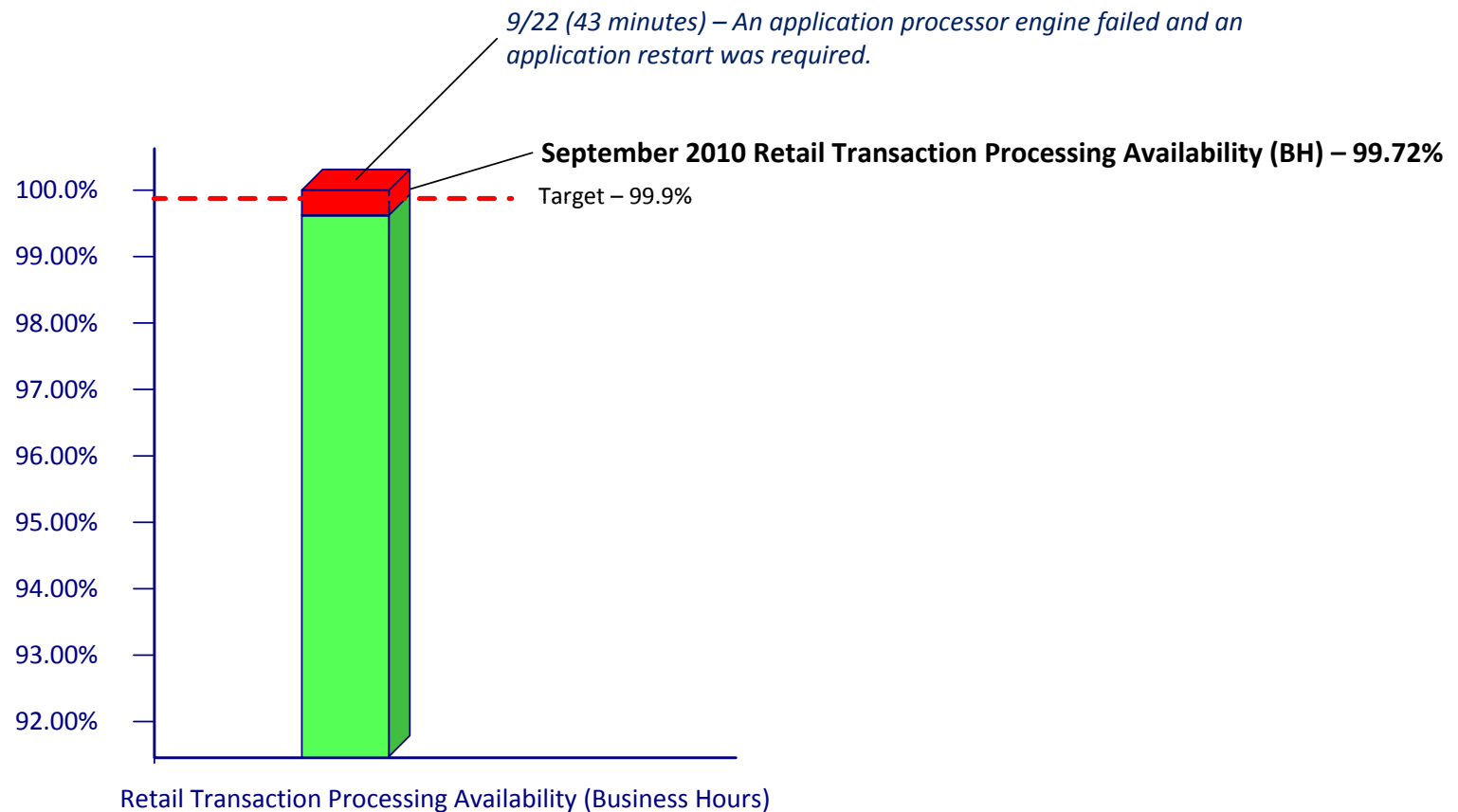
September 2010 Net Service Availability



Zonal		Nodal Grid Operations	
RTBM	99.93%	MMS SCED:	99.93%
Freq Control	99.93%	EMS LFC Target:	99.93%
MMS Aggregate:	99%	Outage Scheduler Target:	99%
EMS Aggregate:	99%	NMMS Target:	97%

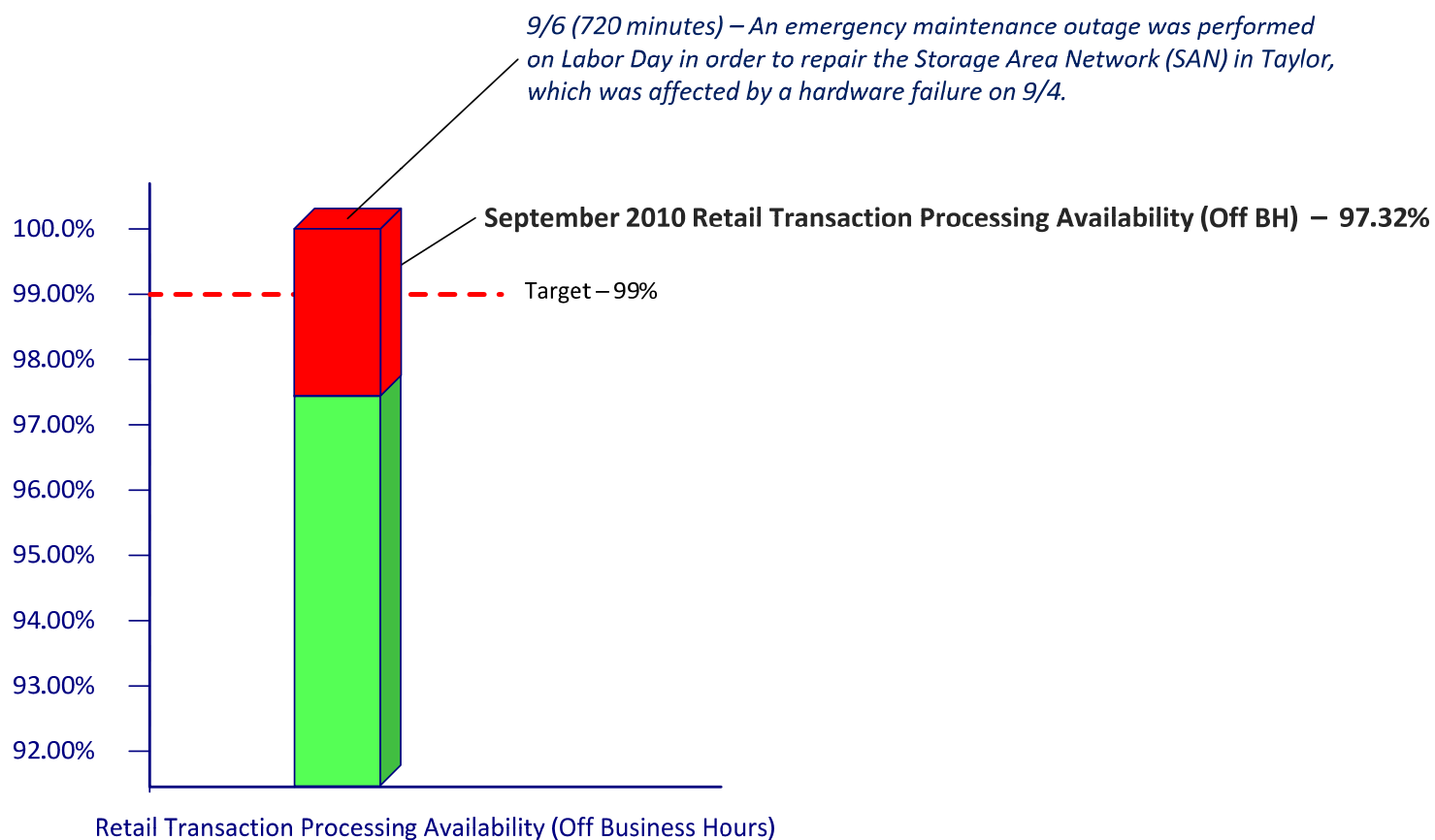
Retail Transaction Processing Availability Summary

September 2010 Retail Transaction Processing Availability Summary (Business Hours)



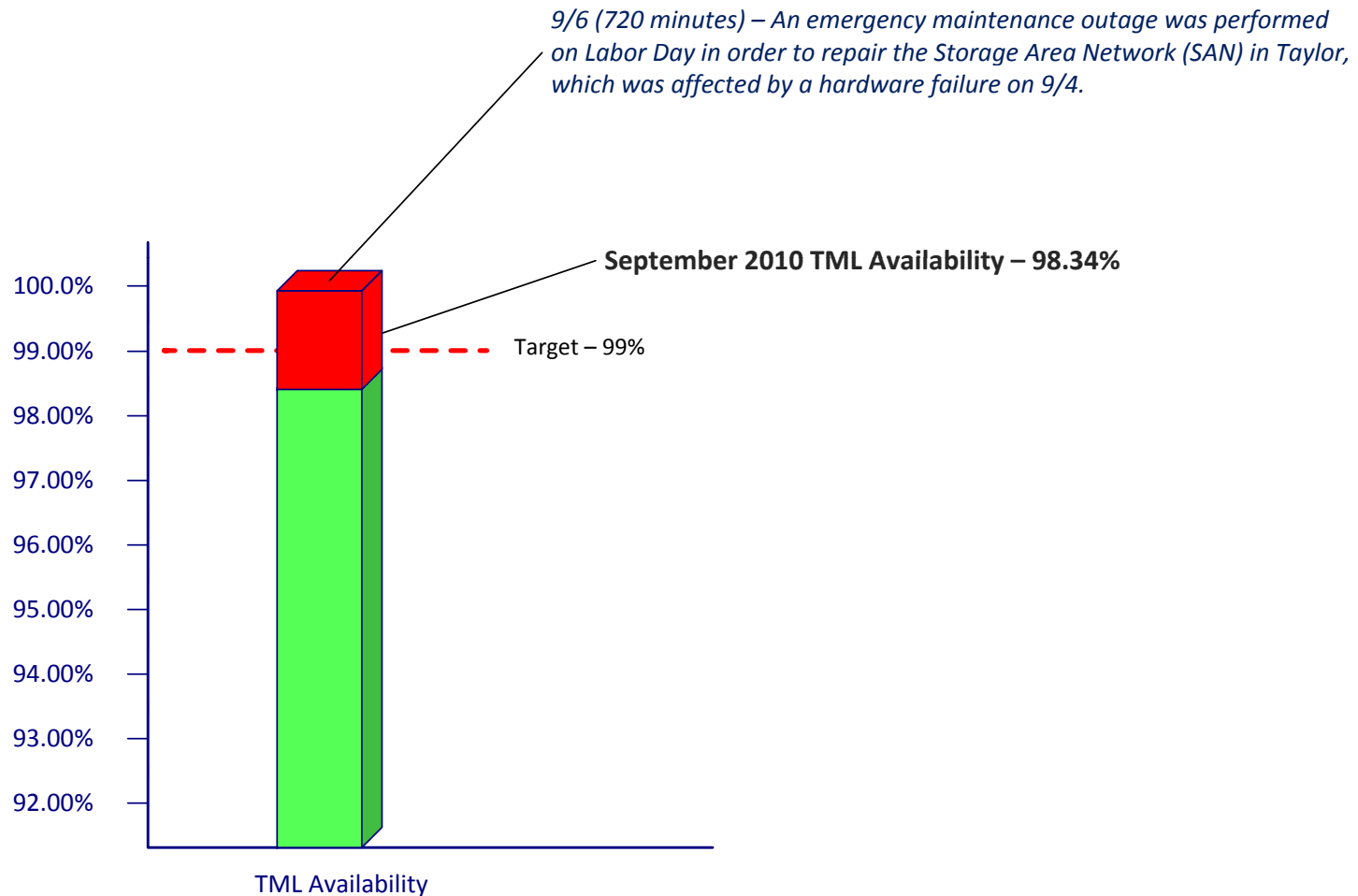
Retail Transaction Processing Availability Summary (cont'd.)

September 2010 Retail Transaction Processing Availability Summary (Off Business Hours)



TML Availability Summary

September 2010 TML Availability Summary



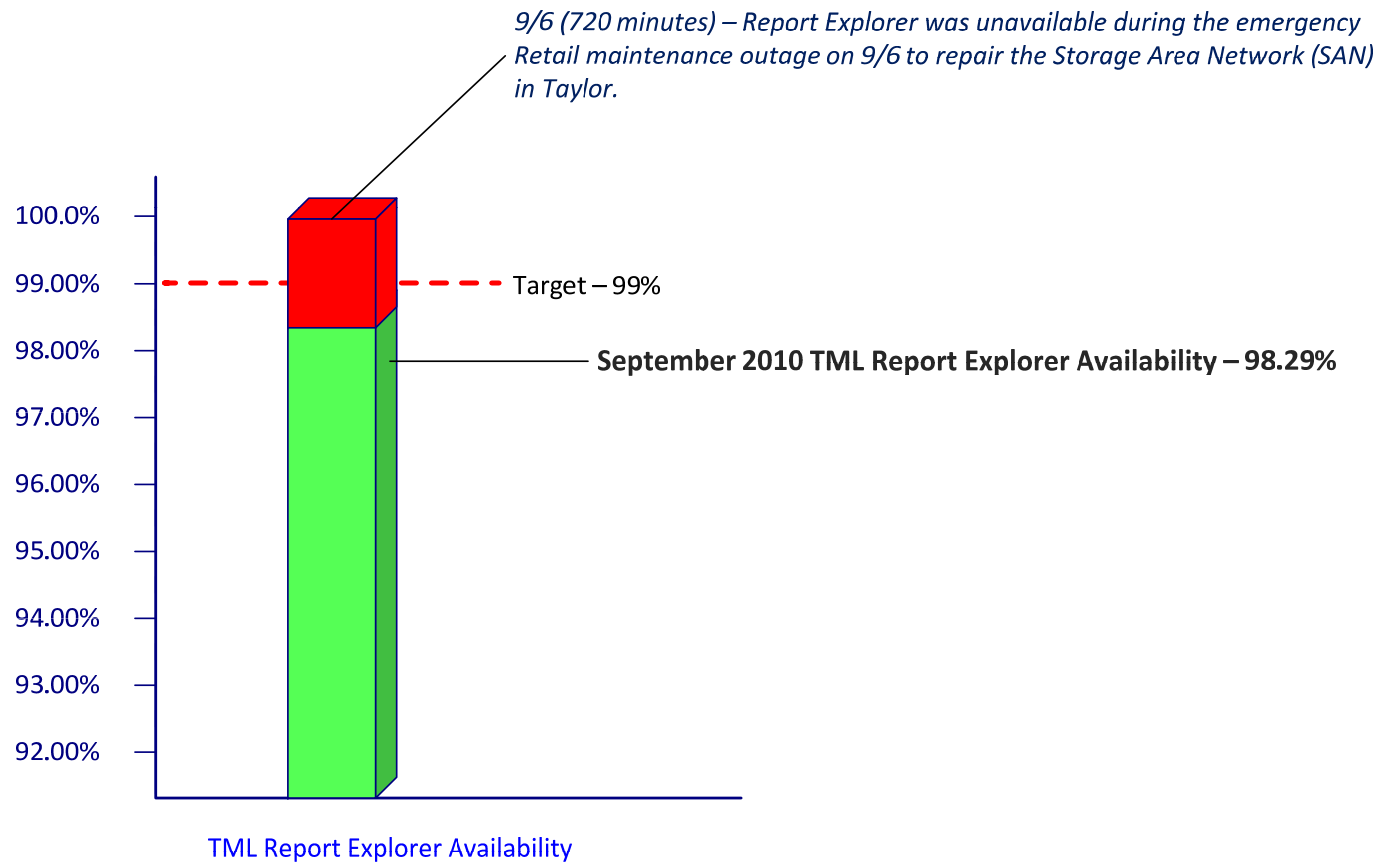
MarkeTrak Availability Summary

September 2010 MarkeTrak Availability Summary



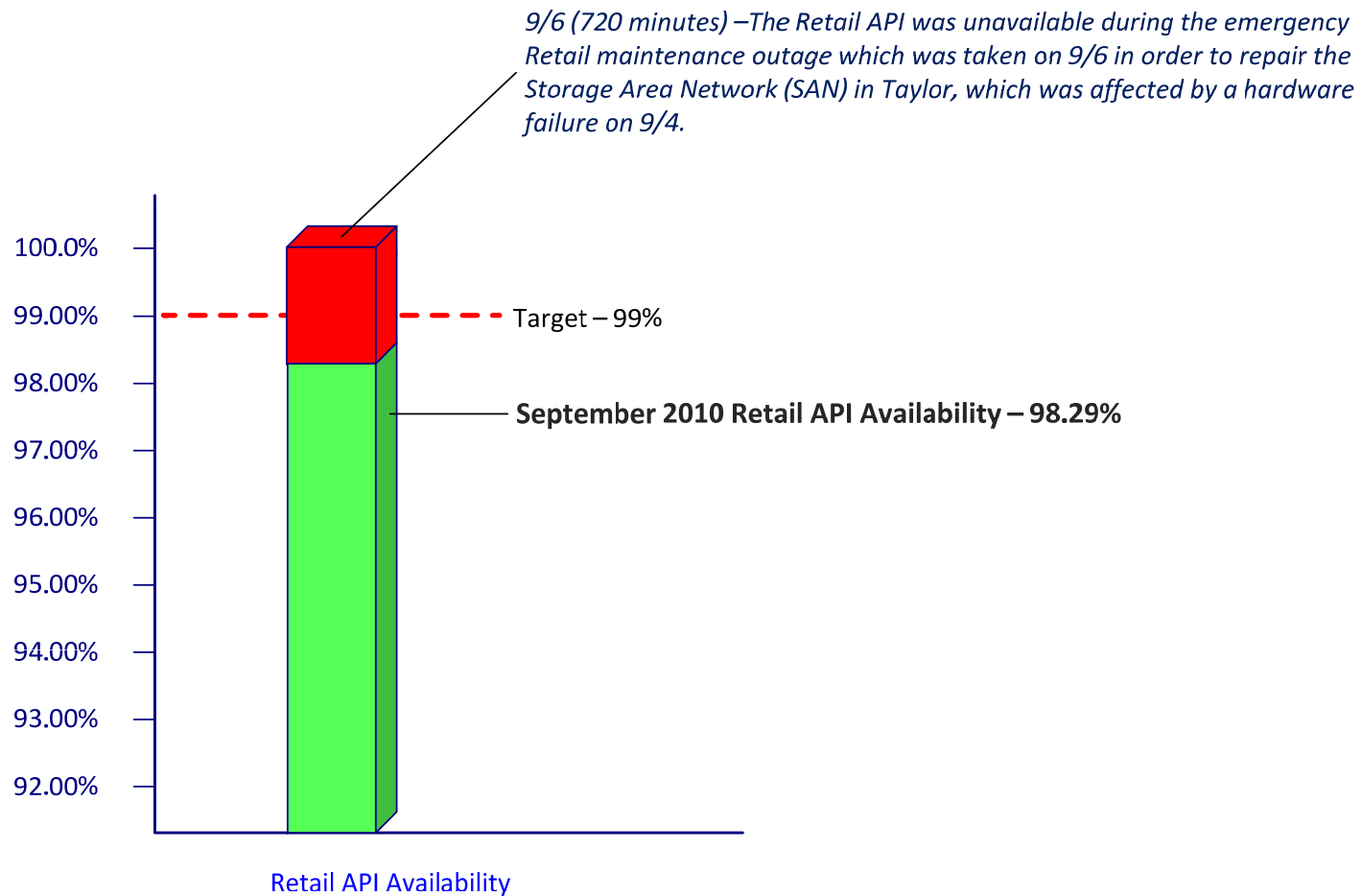
TML Report Explorer Availability Summary

September 2010 TML Report Explorer Availability Summary



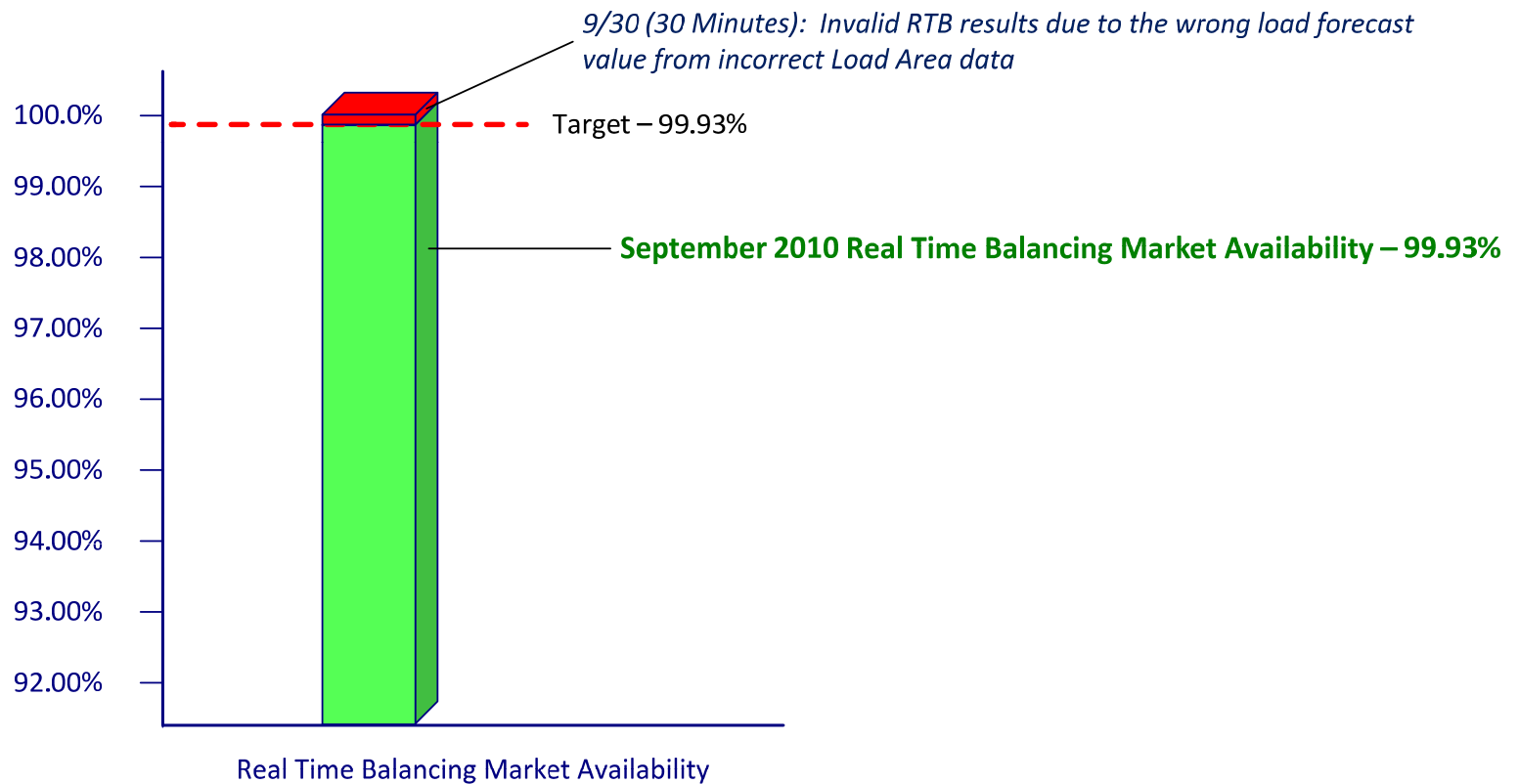
Retail API Availability Summary

September 2010 Retail API Availability Summary



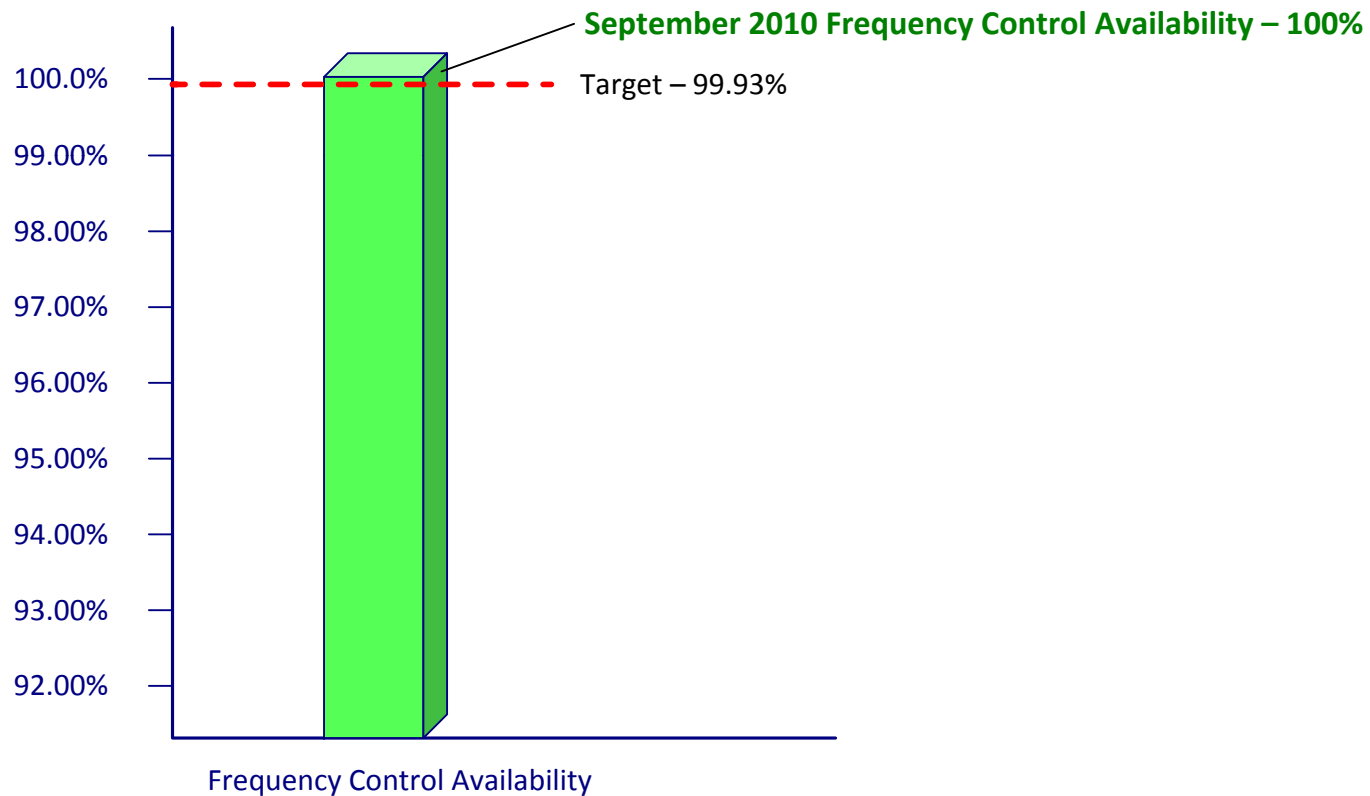
Real Time Balancing Market Availability Summary

September 2010 Real Time Balancing Market Availability Summary



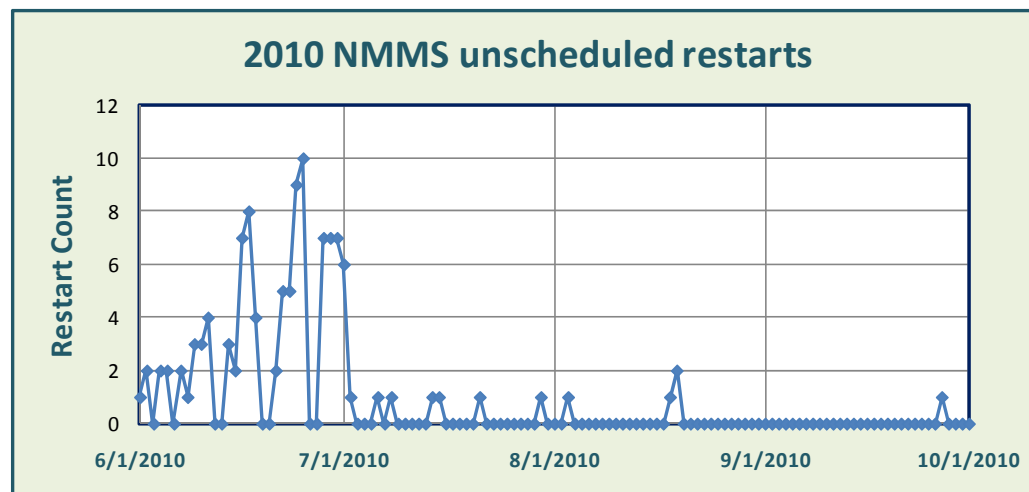
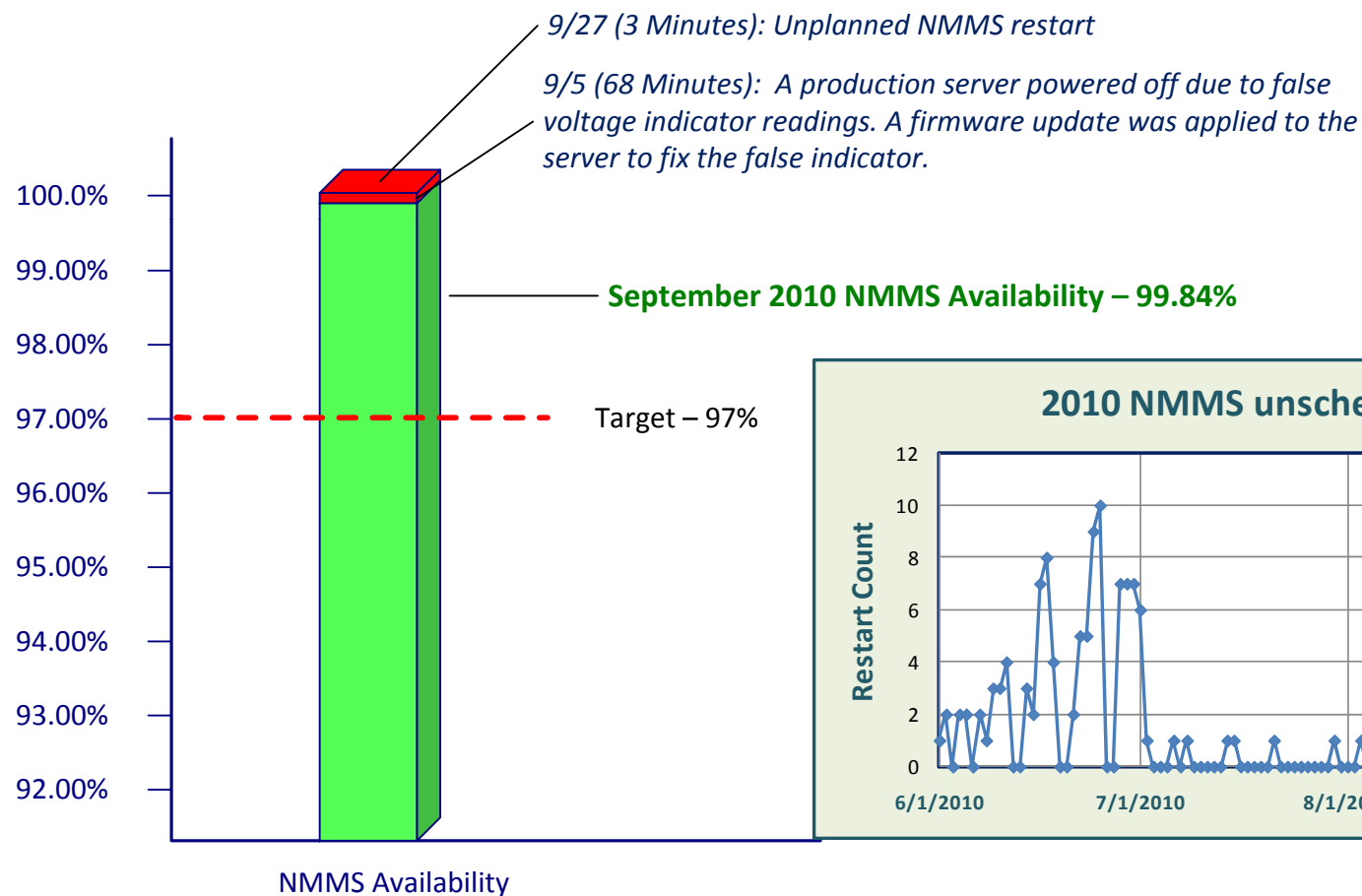
Frequency Control Availability Summary

September 2010 Frequency Control Availability Summary

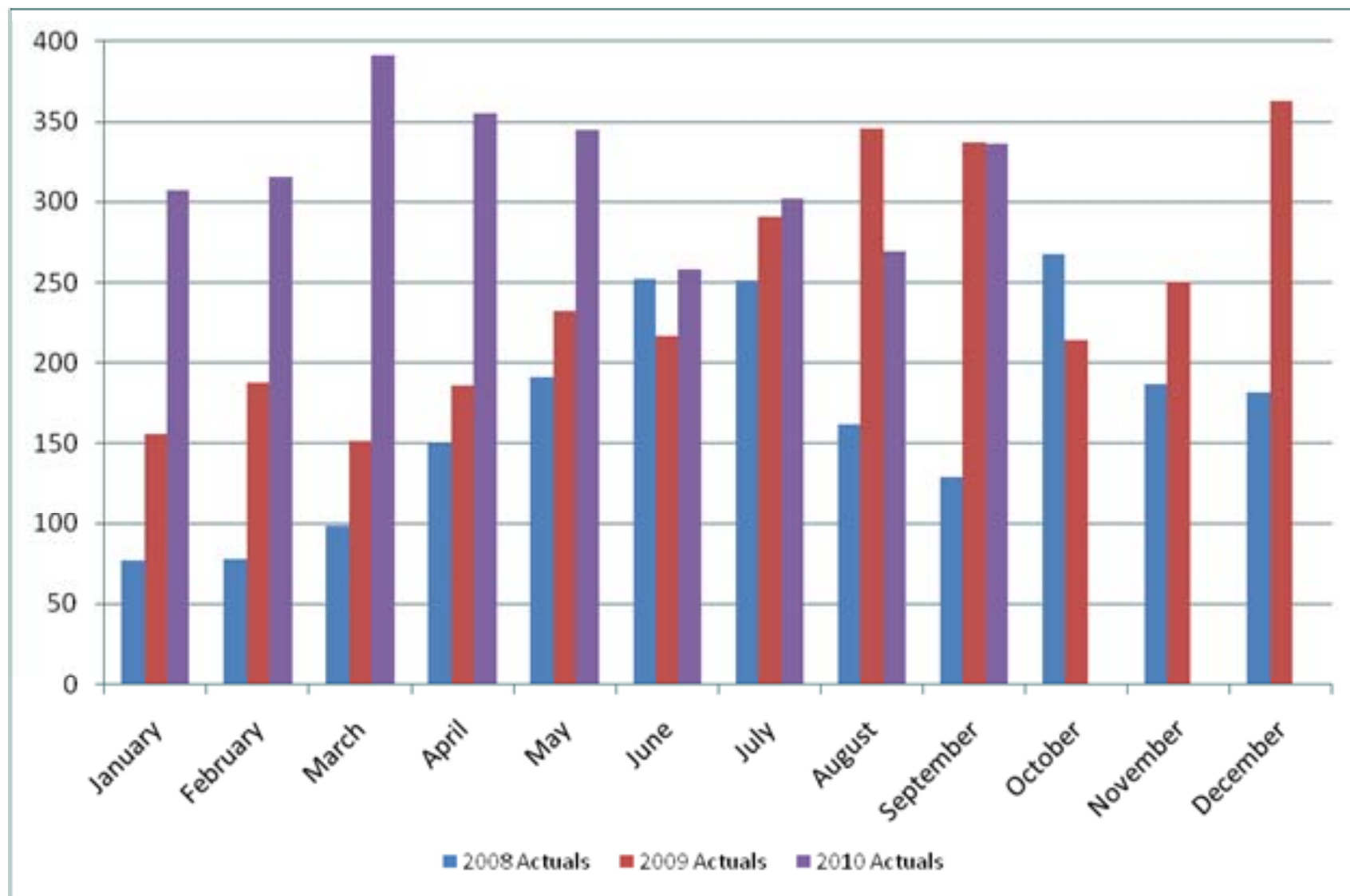


Network Model Management System

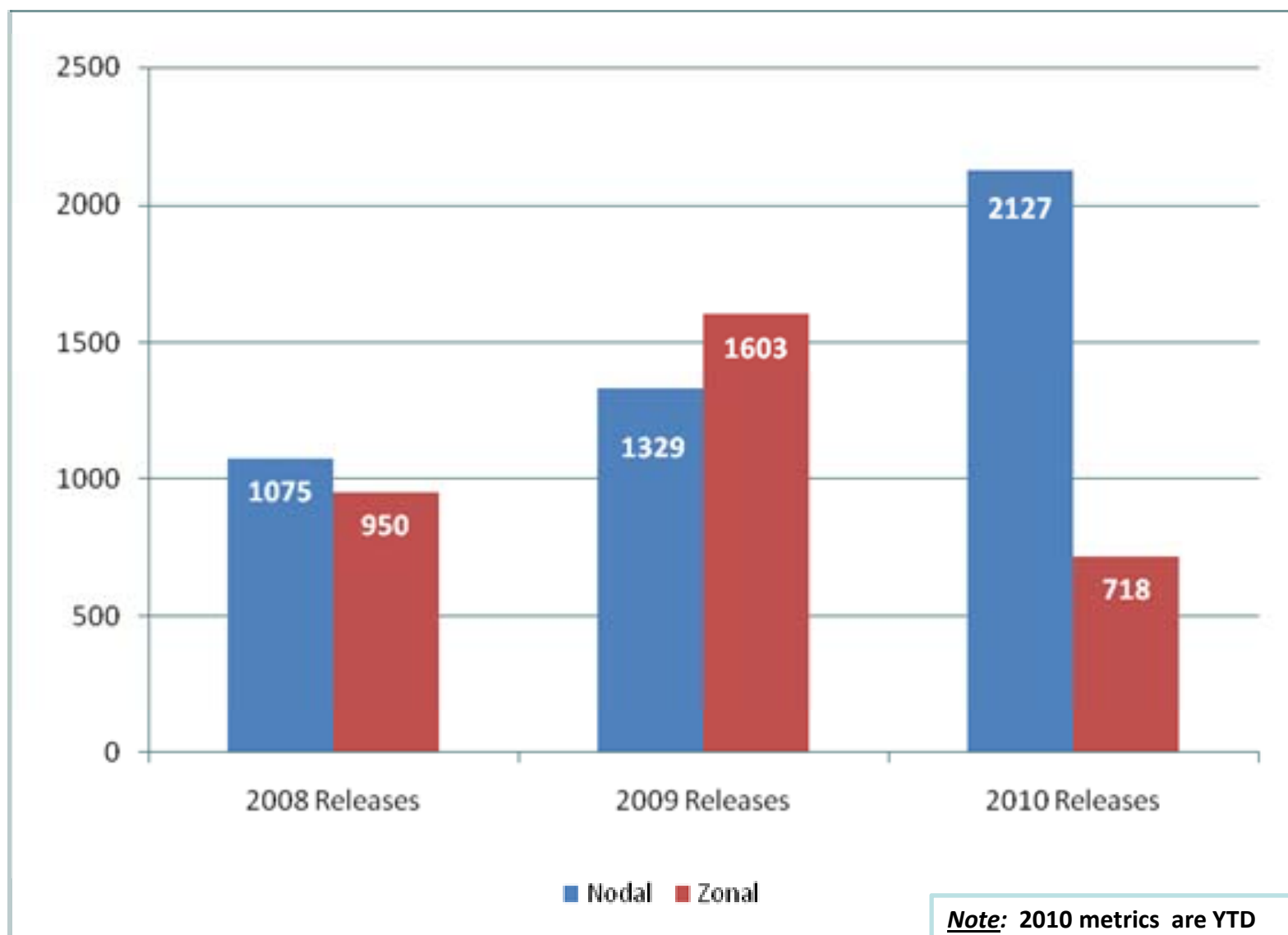
September 2010 Network Model Management System (NMMS) Availability Summary



Release Management Metrics (3-Year Releases by Month)



Release Management Metrics (Nodal vs. Zonal Releases)



ERCOT Public Website Metrics (September 2010)

Name↑	Reports	Status	Visits	Avg. Time on Site	Bounce Rate	Completed Goals	Visits % Change
http://faq.ercot.com UA-460876-6							
☆ faq.ercot.com	View report	✓	1,483	00:02:19	46.53%	0	↑ 1.58%
http://nodal.ercot.com UA-460876-5							
☆ nodal.ercot.com	View report	✓	14,115	00:03:17	38.96%	0	↑ 20.65%
http://planning.ercot.com UA-460876-7							
☆ planning.ercot.com	View report	✓	2,241	00:04:12	20.93%	0	↑ 6.21%
http://search.ercot.com UA-460876-8							
☆ search.ercot.com	View report	✓	5,802	00:03:00	50.55%	0	↑ 7.90%
http://www.ercot.com UA-460876-2							
☆ www.ercot.com	View report	✓	103,946	00:02:25	57.81%	1	↑ 3.22%

Legend

Bounce Rate: % of single page visits; **Completed Goals:** Measure of specific predefined actions completed by visitors;
% Change: % change in visits relative to previous month

