Data Centre Chart Analysis

June 2012

Monthly VDC Bandwidth Graphs – June 2012

Internet Bandwidth – VDC

LDBVDC1 - Internet - Traffic - Gi0/0

bits per second

10 M

5 M

0

Week 23   Week 24   Week 25   Week 26

From 2012/06/01 00:00:00 To 2012/06/30 23:59:59

RRDTOOL / TOBI OETIKER

|		Current:	Average:	Maximum:
■ Inbound	Current:	369.96k	Average: 3.59M	Maximum: 12.11M
■ Outbound	Current:	49.68k	Average: 369.08k	Maximum: 1.30M
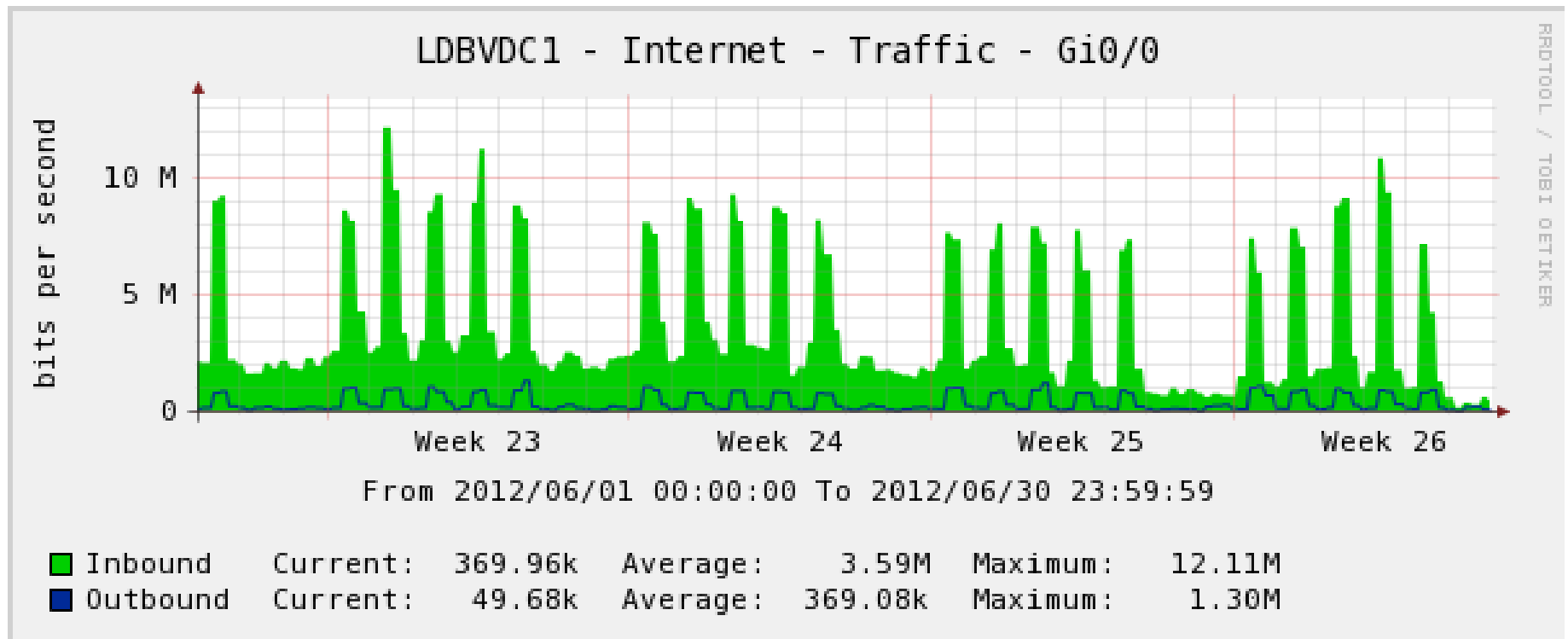
Summary: Graphical view of traffic going through Head Office to the Internet. The maximum traffic allowed is 20Mbs.

Observation: During HO core hours (8:00 to 4:30), Internet link is highly utilized and sustained at 45% of the available bandwidth. Occasionally the bandwidth has reached more than 10 MB/ second.

Recommendation: N/A

Monthly VDC Bandwidth Graphs – June 2012

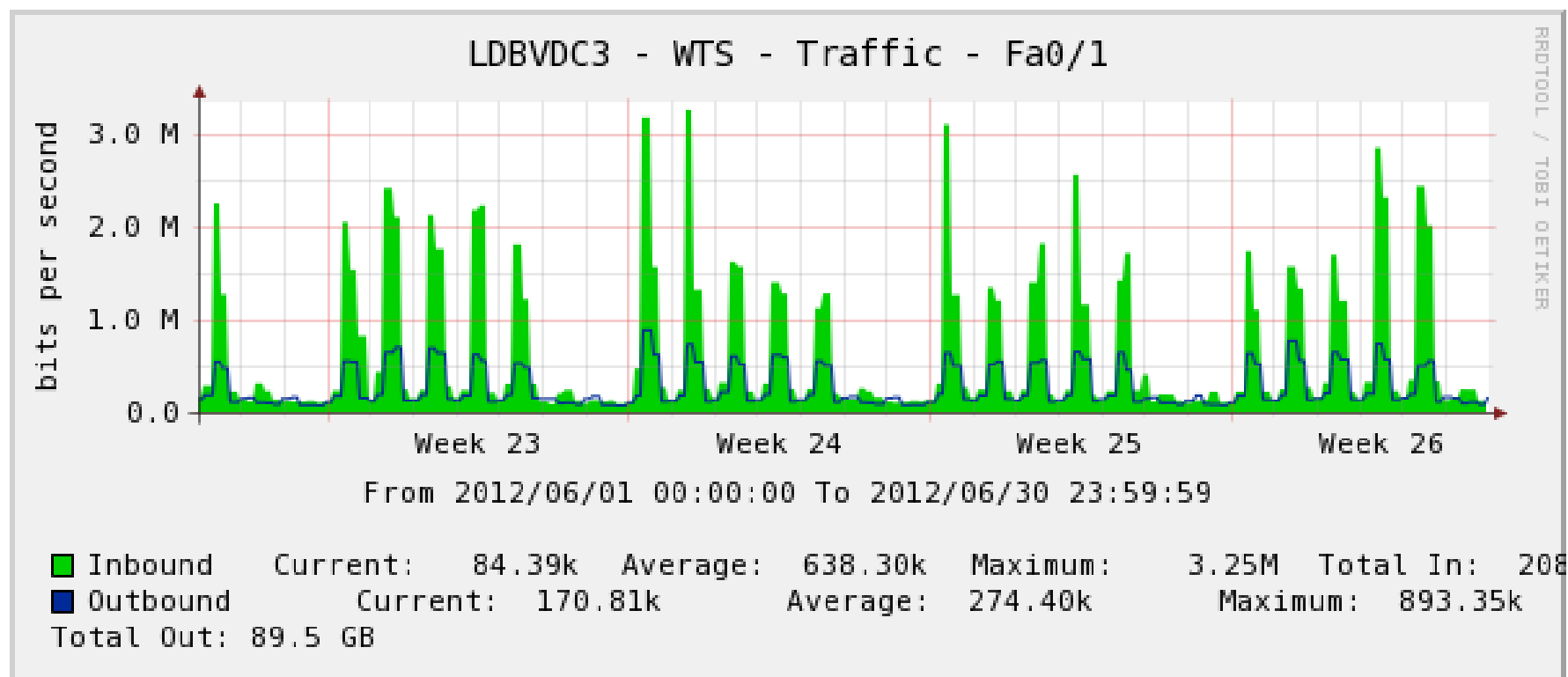## Bandwidth between HO and Stores
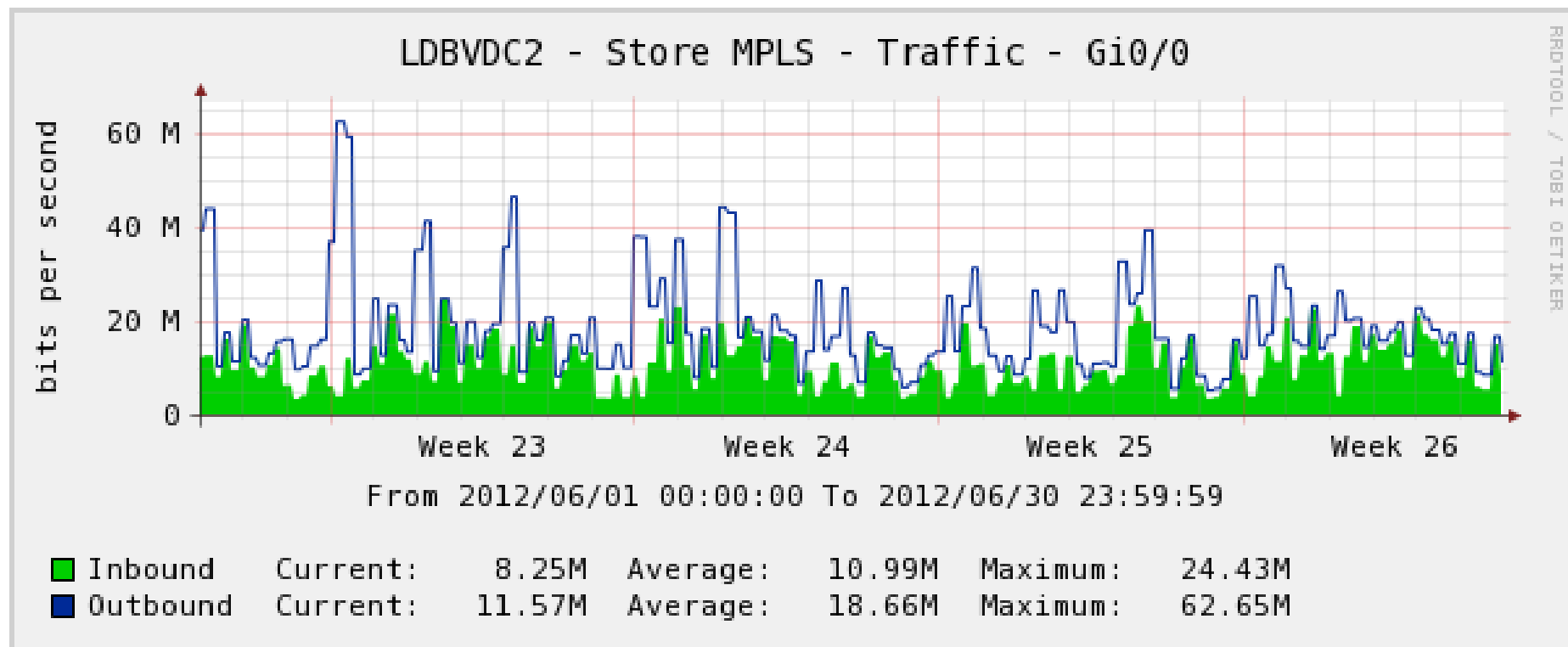
Summary: Graphical view of traffic going through Stores to Head Office via Internet.

Observation: The inbound traffic, Store's to Head Office is minimal.

Recommendation: N/A

Monthly VDC Bandwidth Graphs – June 2012

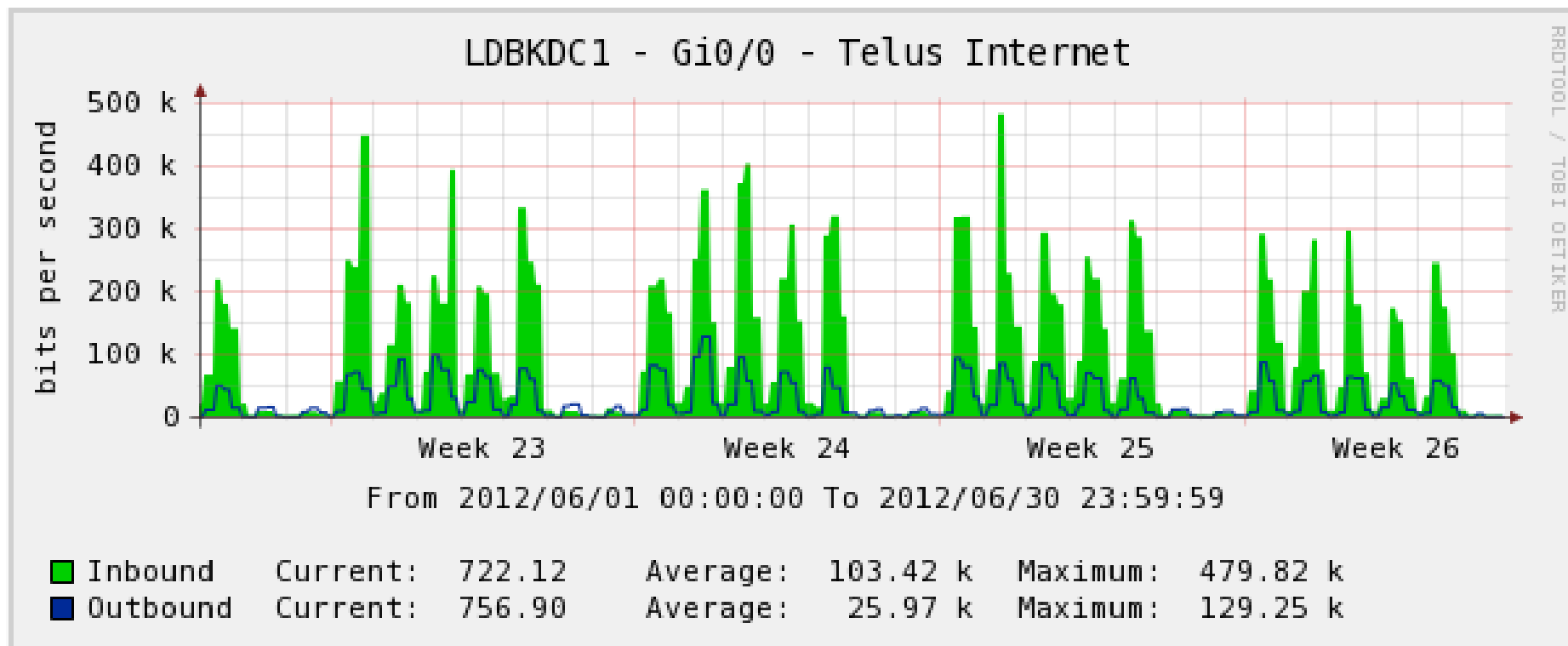## Bandwidth used for Email, DNS and any Government websites

Summary: Graphical view of traffic going through WTS to Head Office via Internet.

Observation: Network utilization of the service above is deemed working within normal parameters.

Recommendation: N/A

Monthly KDC Bandwidth Graphs – June 2012
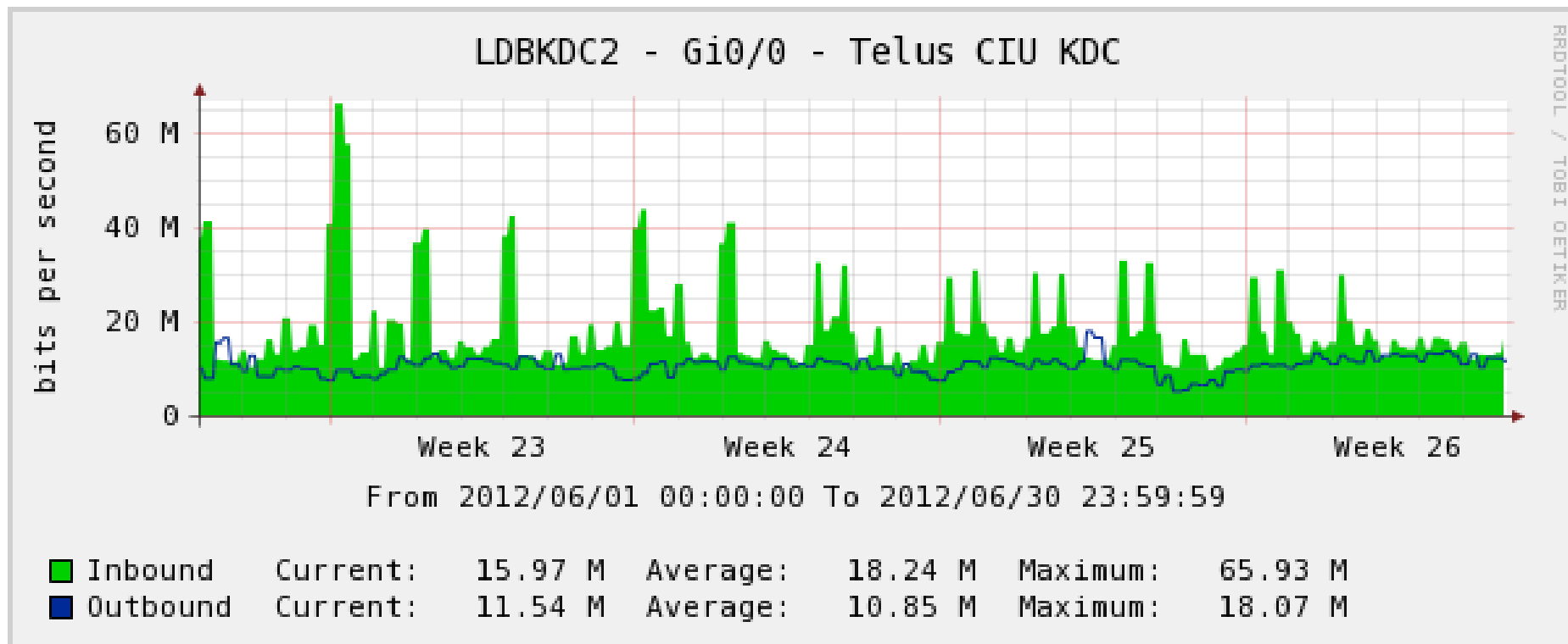
Internet Bandwidth – KDC

Summary: Graphical view of traffic going through KDC to the Internet.

Observation: Minimal use

Recommendation: N/A

Monthly KDC Bandwidth Graphs – June 2012

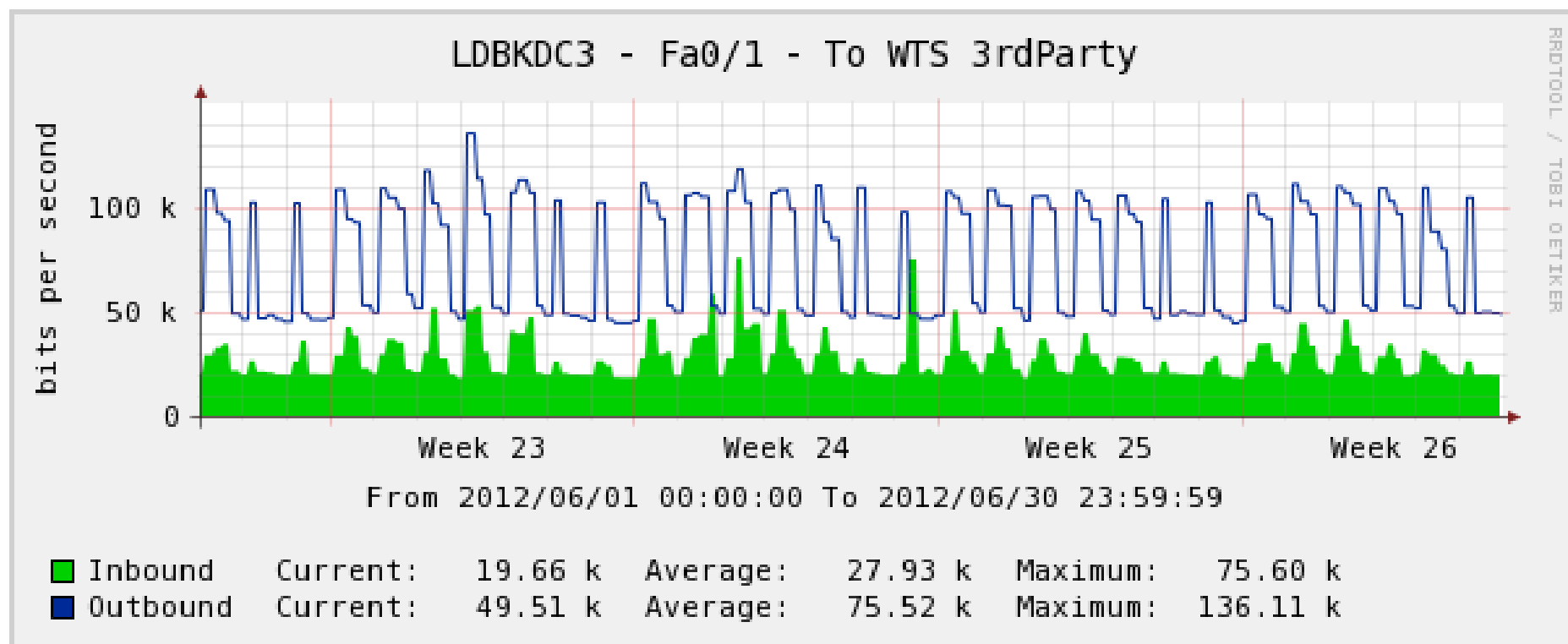## Bandwidth between KDC and Stores

Summary: Graphical view of traffic going through Stores to KDC via Internet.

Observation: High Peak of traffic at the beginning of the month but this is not due to any significant issue.

Recommendation: N/A

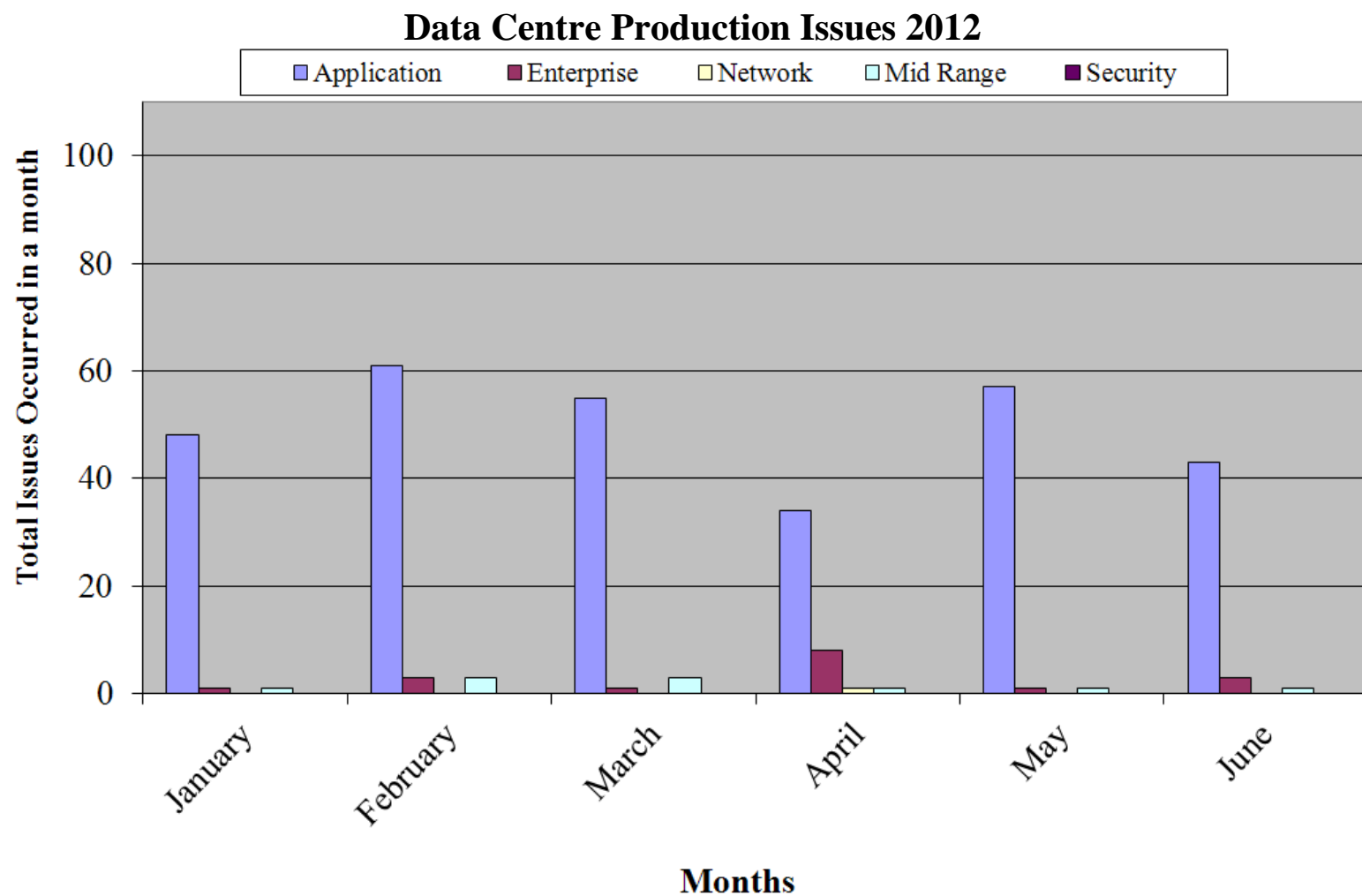# Monthly KDC Bandwidth Graphs – June 2012

Bandwidth used for Email, DNS, and KDC via WTS

Summary: Graphical view of traffic going through KDC to WTS via Internet.

Observation: Minimal use

Recommendation: N/A

Data Centre Production Issues 2012

Summary: High level graphical view of monthly production issues from January 2012 to June 2012. Input comes from Operations daily status report.

Observation: Majority are application issues of which 46% are Autosys jobs and 37% are run away process (see BMC tickets for more information) for the month of June.

Recommendation: N/A
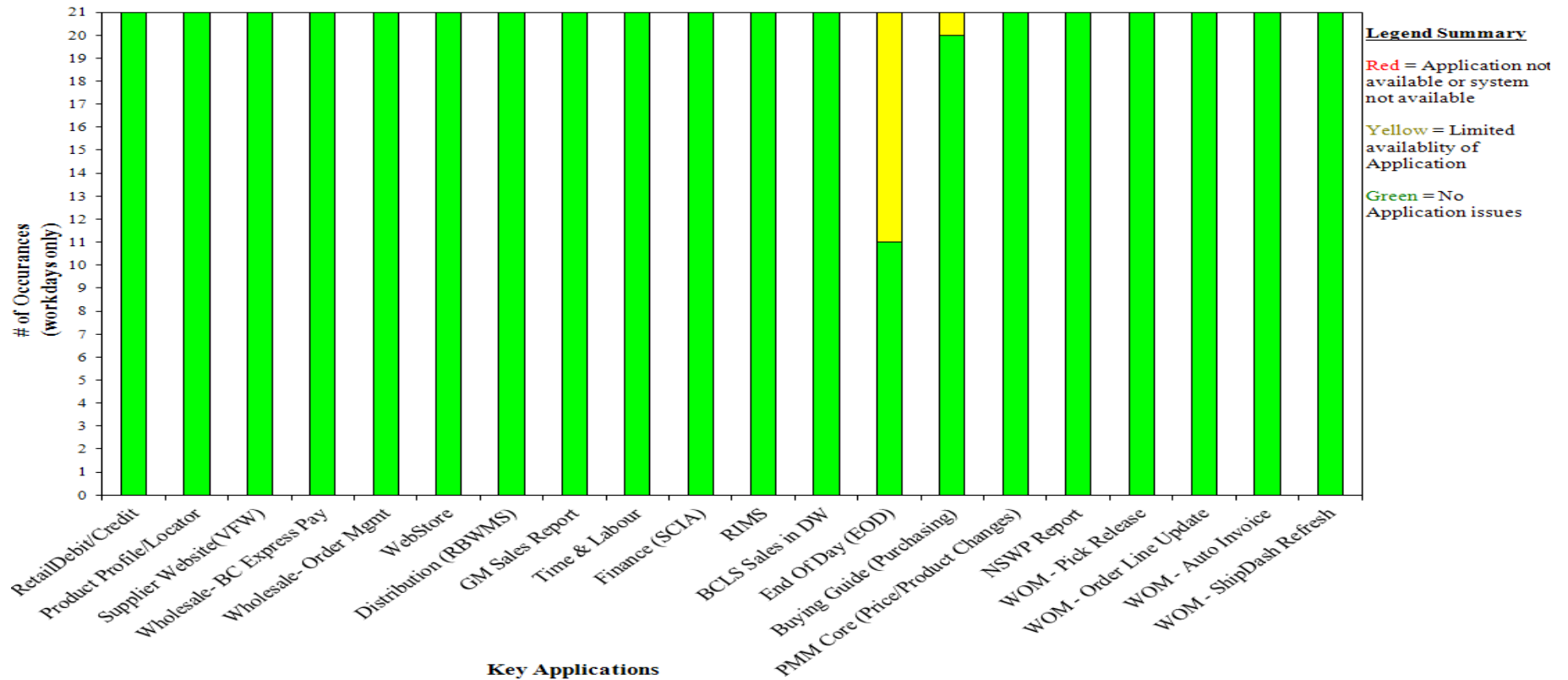
Sales – Finance Data Availability - June 2012
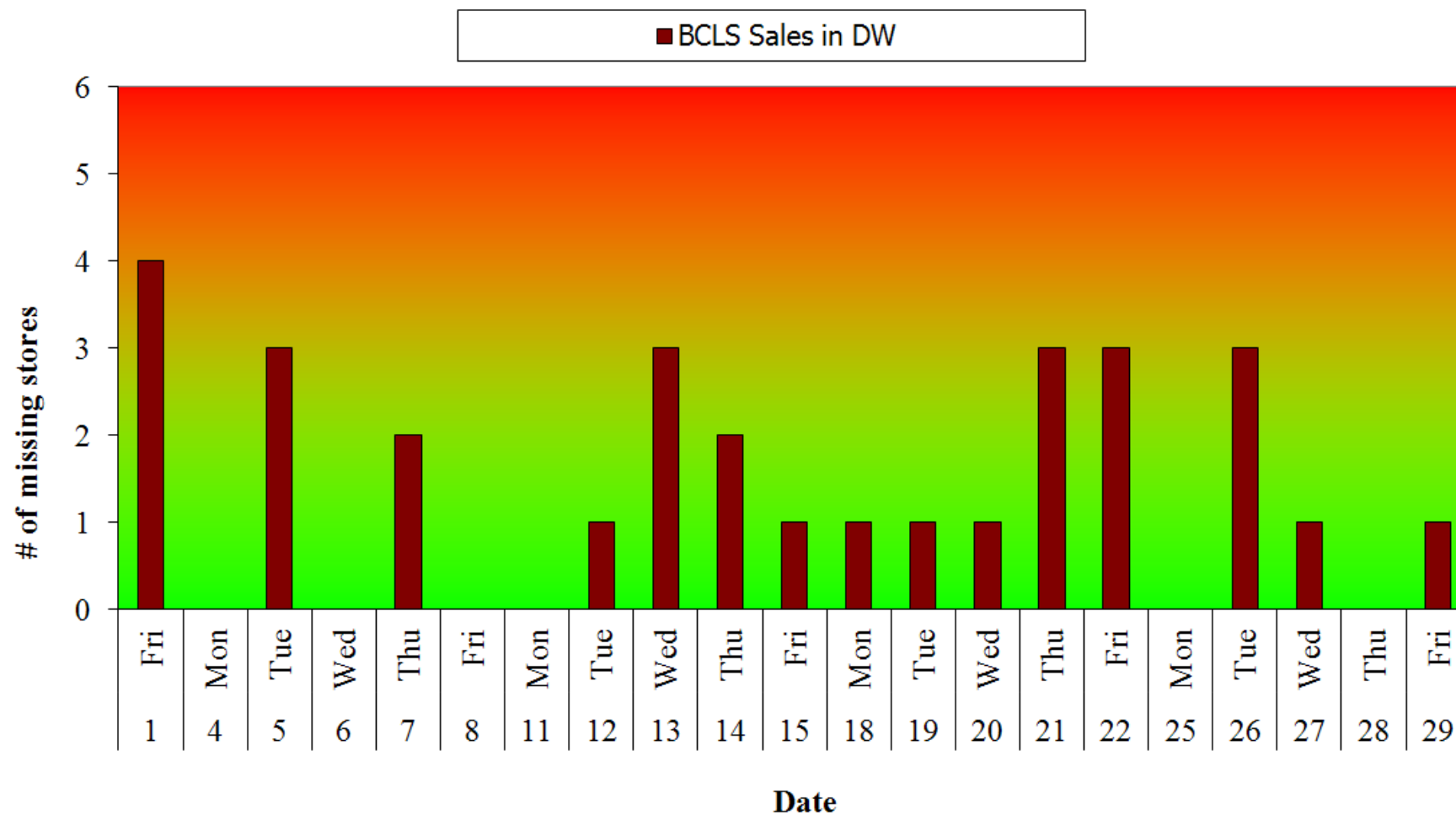
Summary:	Graphical view of transmitted BCLS Stores Financial Sales Data to Head Office in Data Warehouse.
Observation:	June was a month where Data Warehouse had no major issues relating to Sales Reporting
Recommendation:	N/A

Daily Availability of Business Application – June 2012

Legend Summary

Red = Application not available or system not available

Yellow = Limited availablity of Application
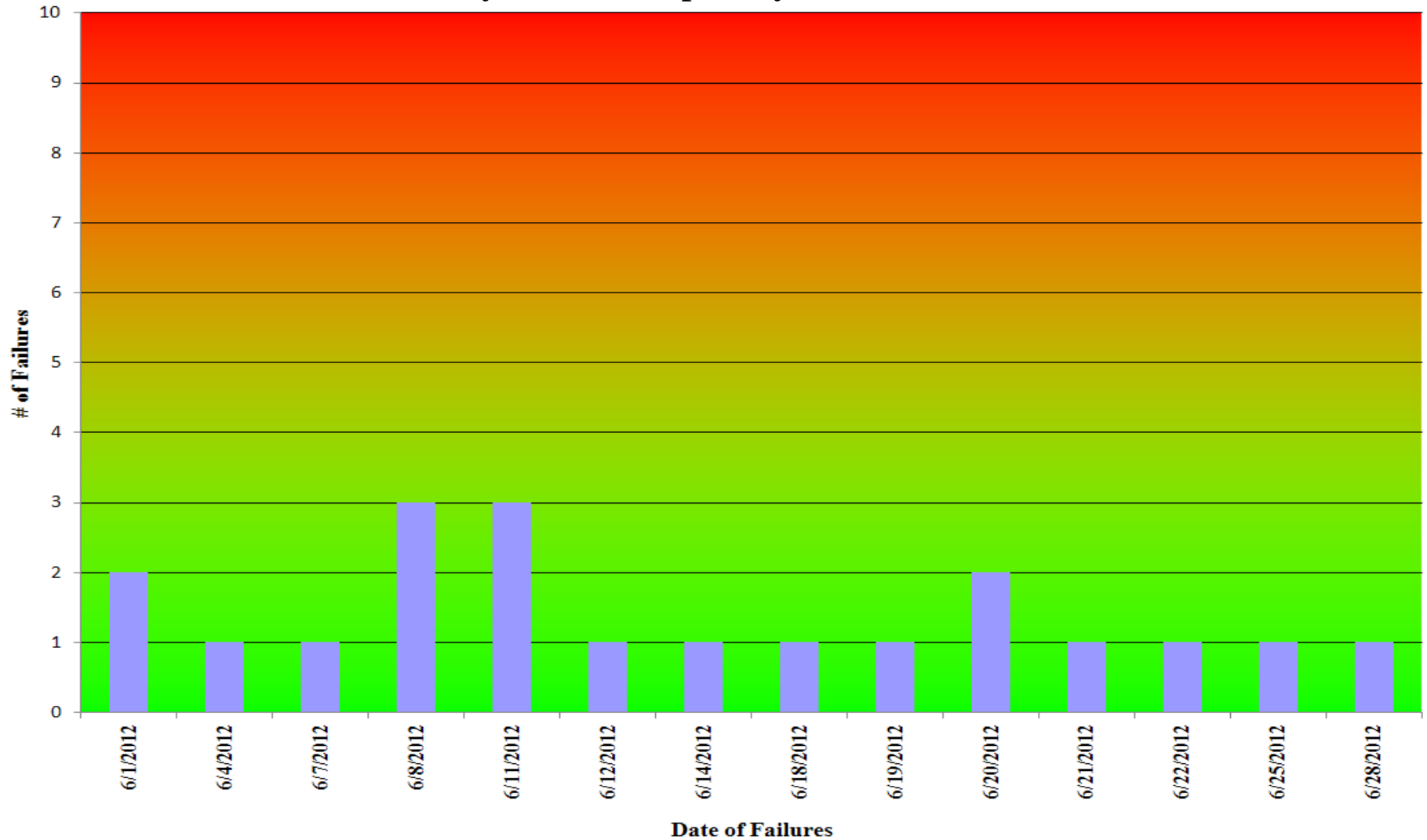
Green = No Application issues

Summary: High level graphical view of Business Applications availability.

Observation: Buying guide had minor issue, refer to BMC # 486777 and EOD is yellow because job completed successfully with runtime going beyond the normal threshold.

Recommendation: N/A

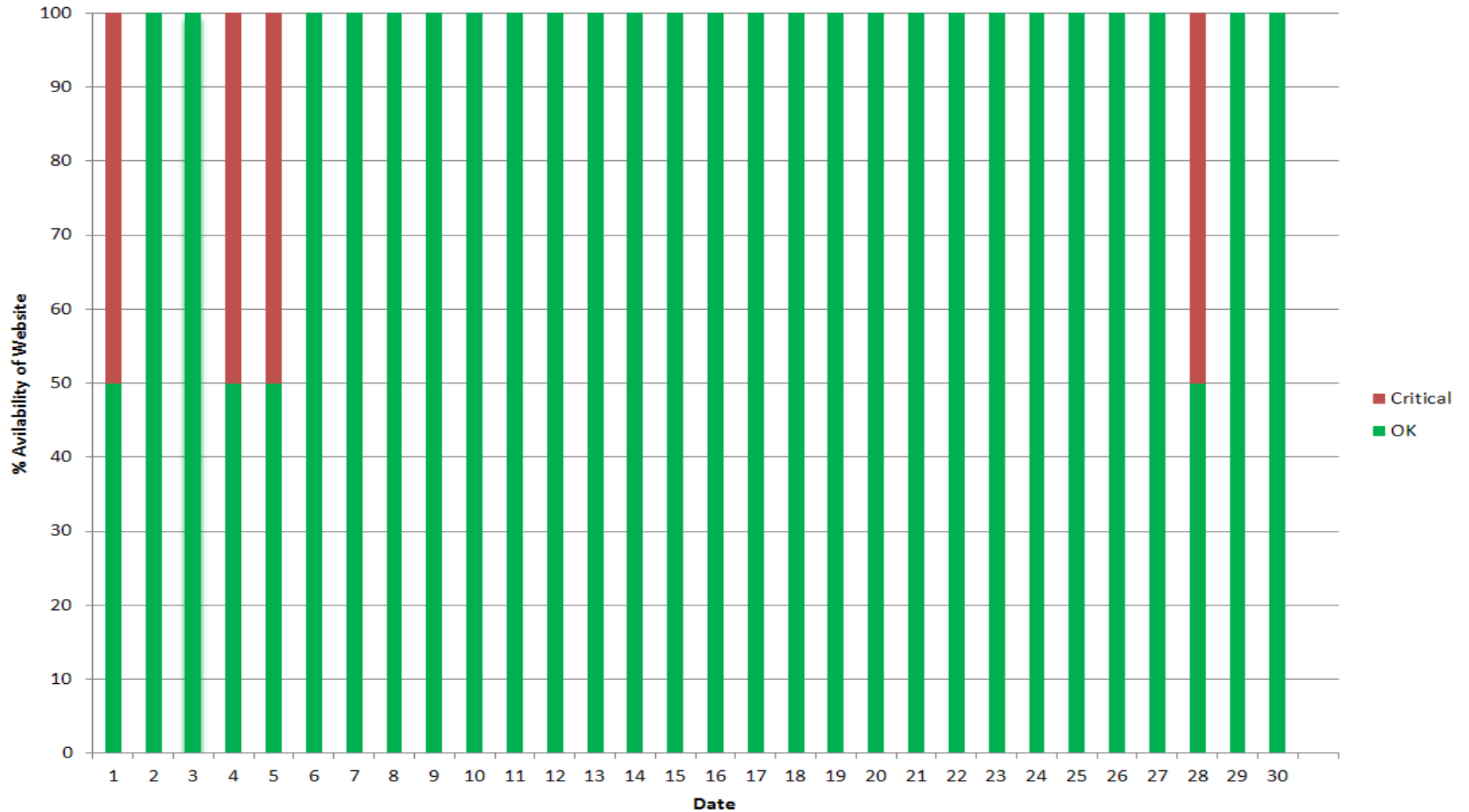# Autosys Jobs failed per day – June 2012

Summary: High level graphical view of Production Autosys Job failures for the month of June 2012.

Observation: There was no <u>major</u> Autosys job failure or outage that occurred in a single day for the month of June.

Recommendation: N/A

WebStore Availability – June 2012

Summary: High level graphical view of Webstore's Availability through Orion access for the month of June 2012.

Observation: Webstore was down four times for the month of June. Please refer to BMC # 484620, 484797, 485116 and 489424 for details. The last incident (489424) was caused by the reverse proxy in Calgary this effected the Siteminder Federation

Recommendation: N/A

Remote Access on Weekday vs. Weekend – June 2012
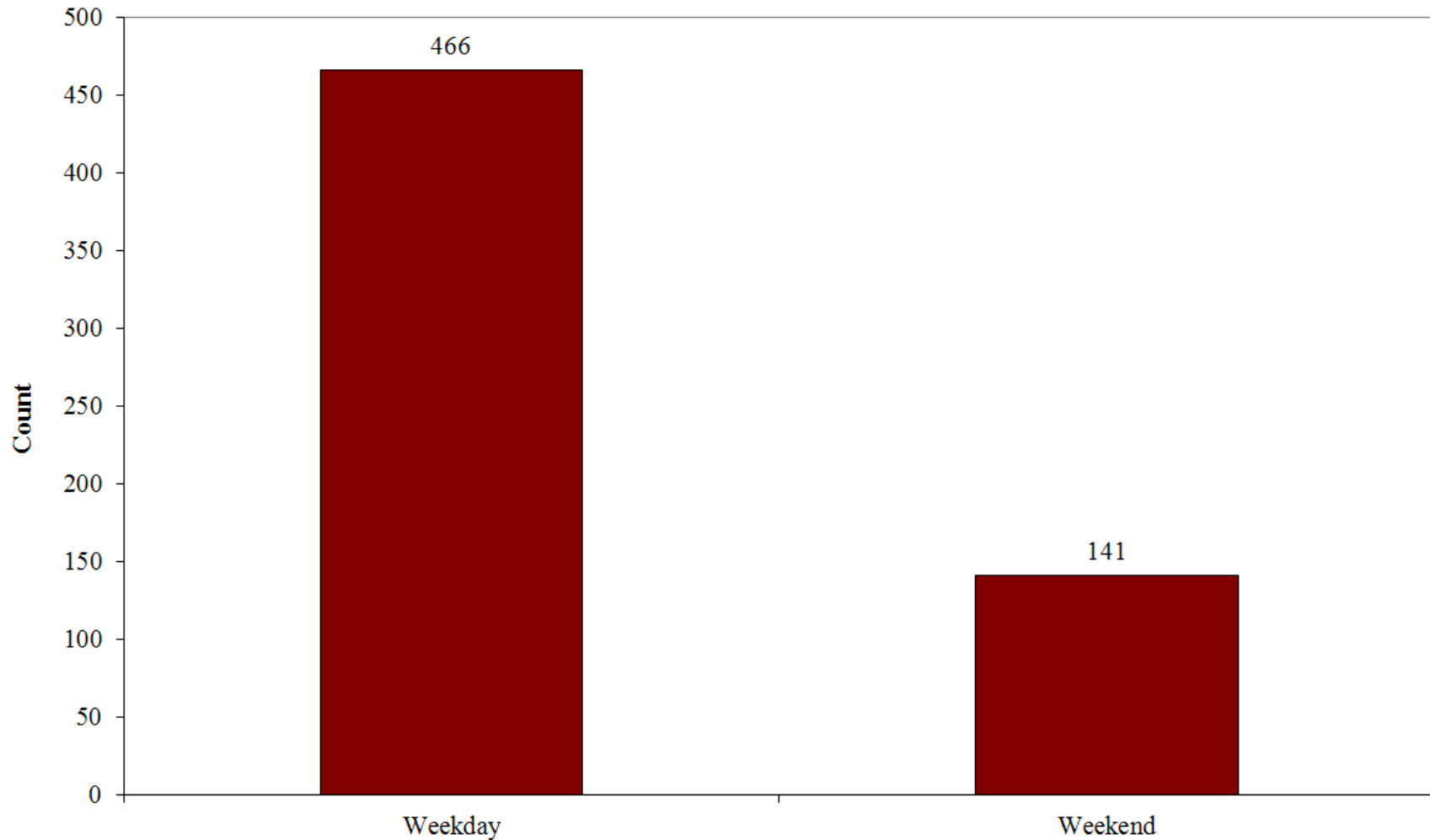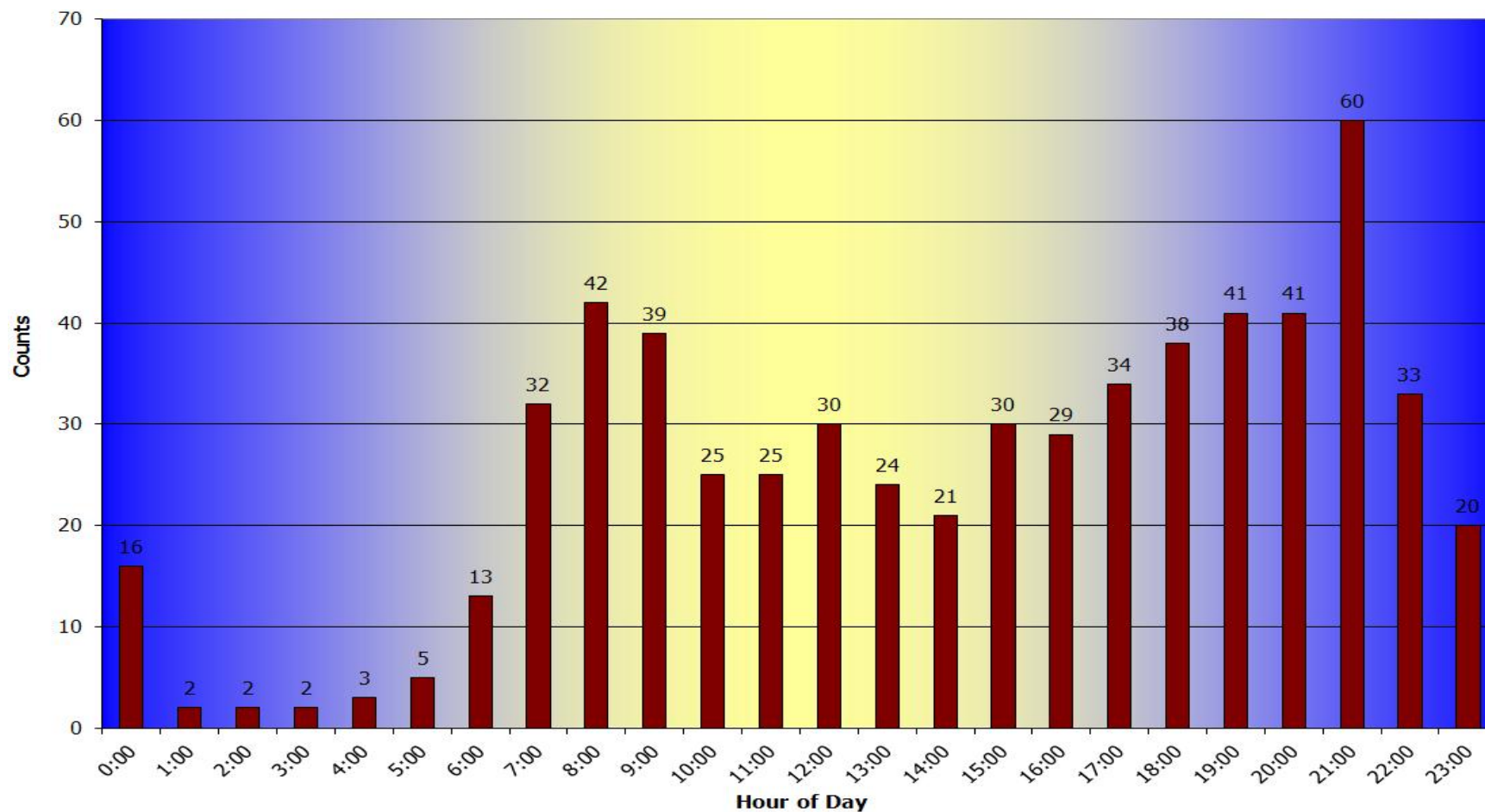

* Note: Weekends includes Stat holidays

Summary: High level weekday and weekend graphical view of Users remotely accessing Head Office resources.

Observation: More people accessing Head Office resources during the Weekday versus Weekend in the month of June.

Recommendation: N/A

# Remote Access by Hour of Day – June 2012

Login by Connectra

Summary: High level graphical view of Users remotely accessing Head Office resources shown in hours of the day for the month of June 2012.

Observation: More people accessing Head Office resources in the late evening (5pm – 11pm) versus in the morning (between 7am – 9am). *** Note: Currently capacity for concurrent users is 50.

Recommendation: N/A

Total Daily Backup Amount (GB) – June 2012

Server1 - Total daily backup amount (GB)   Server2 - Total daily backup amount (GB)
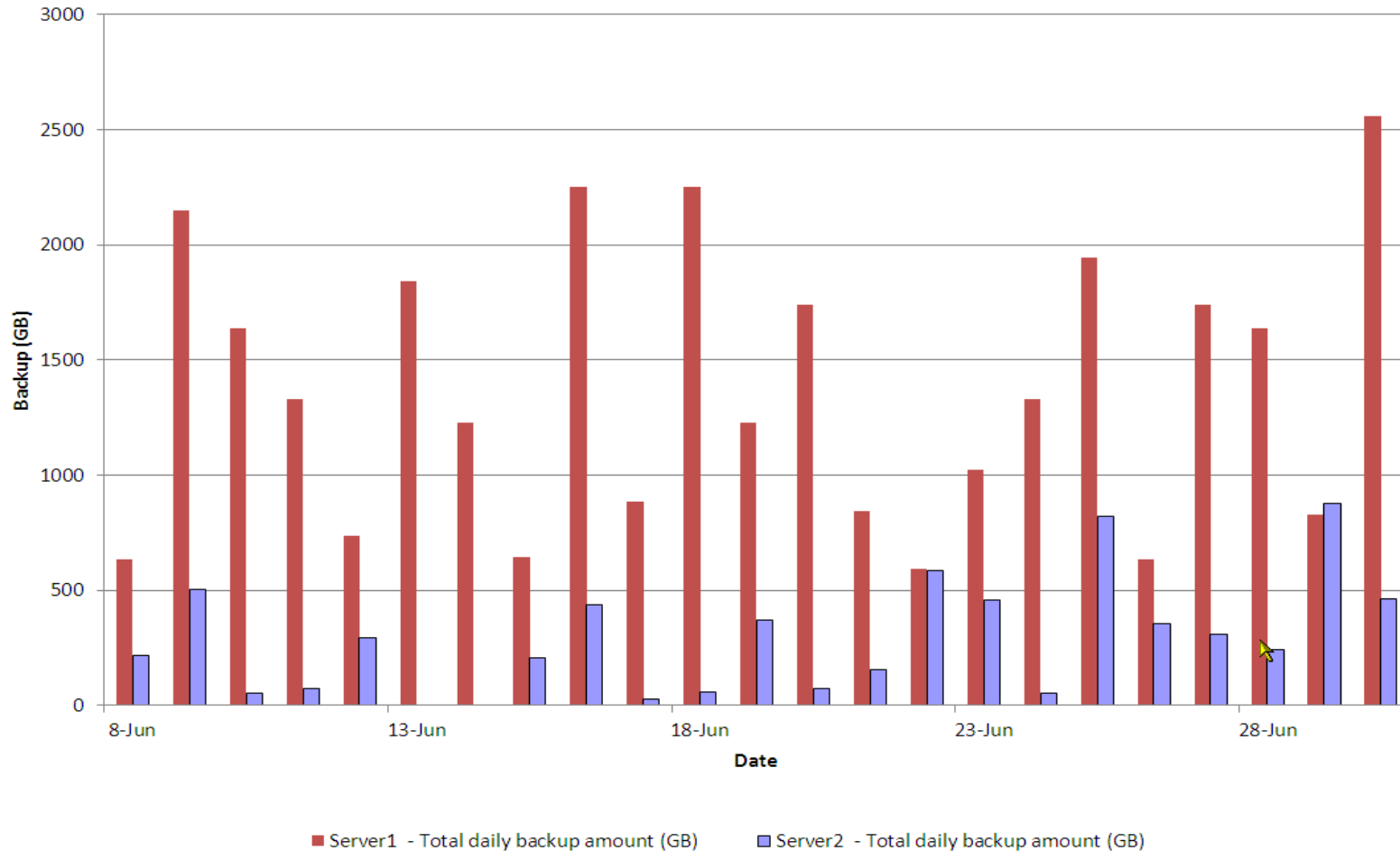
Summary: High level graphical view graphical view of TSM Daily Backup for the month of June.

Observation: June 20th – over 2.5TB of SAN storage data was backed up on TSM. 1.5TB of SAN storage as transitional data constantly increases/decreases as data is migrated to tape.

Recommendation: Not applicable

Total TSM Space Used (GB) – June 2012
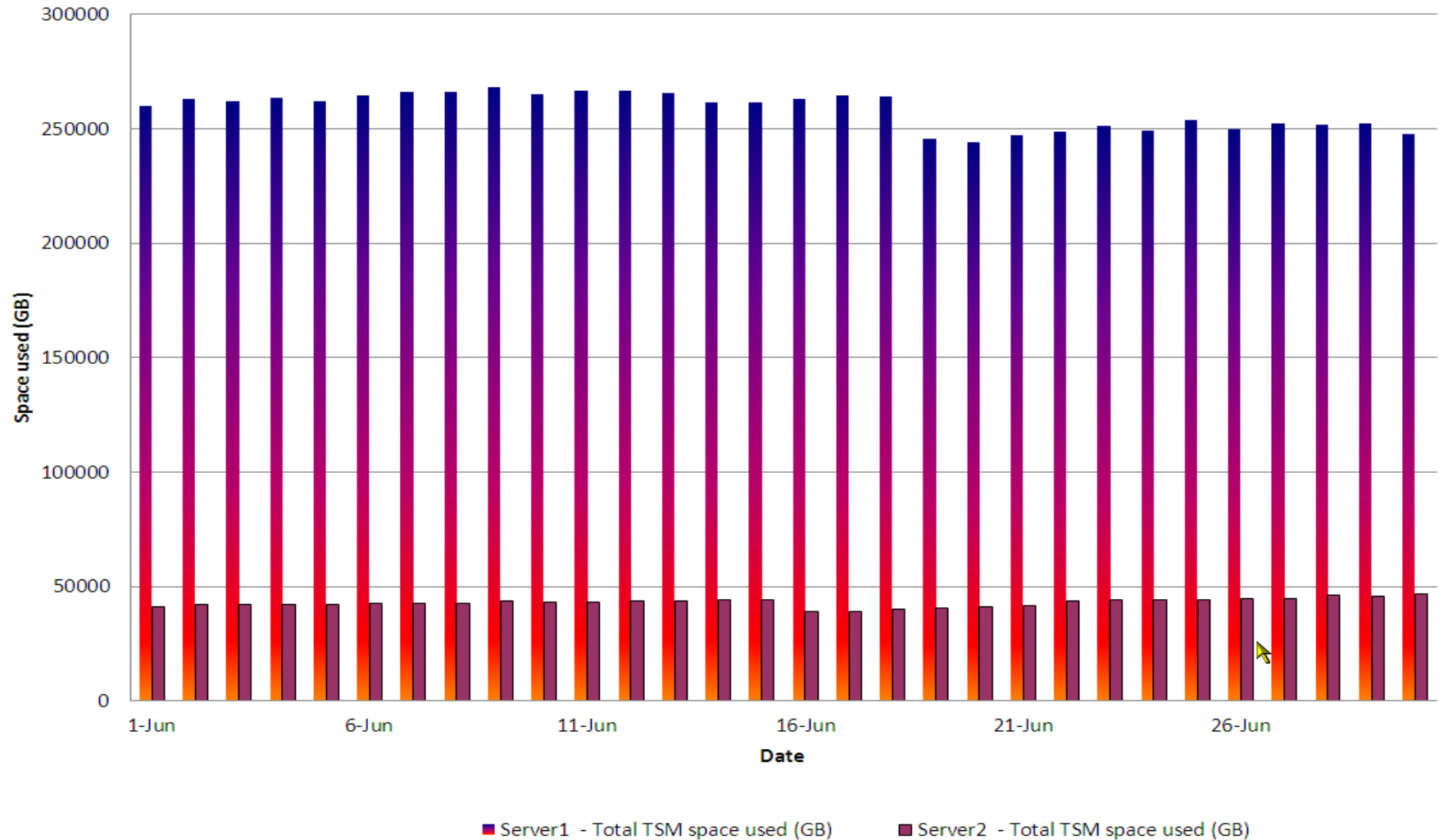
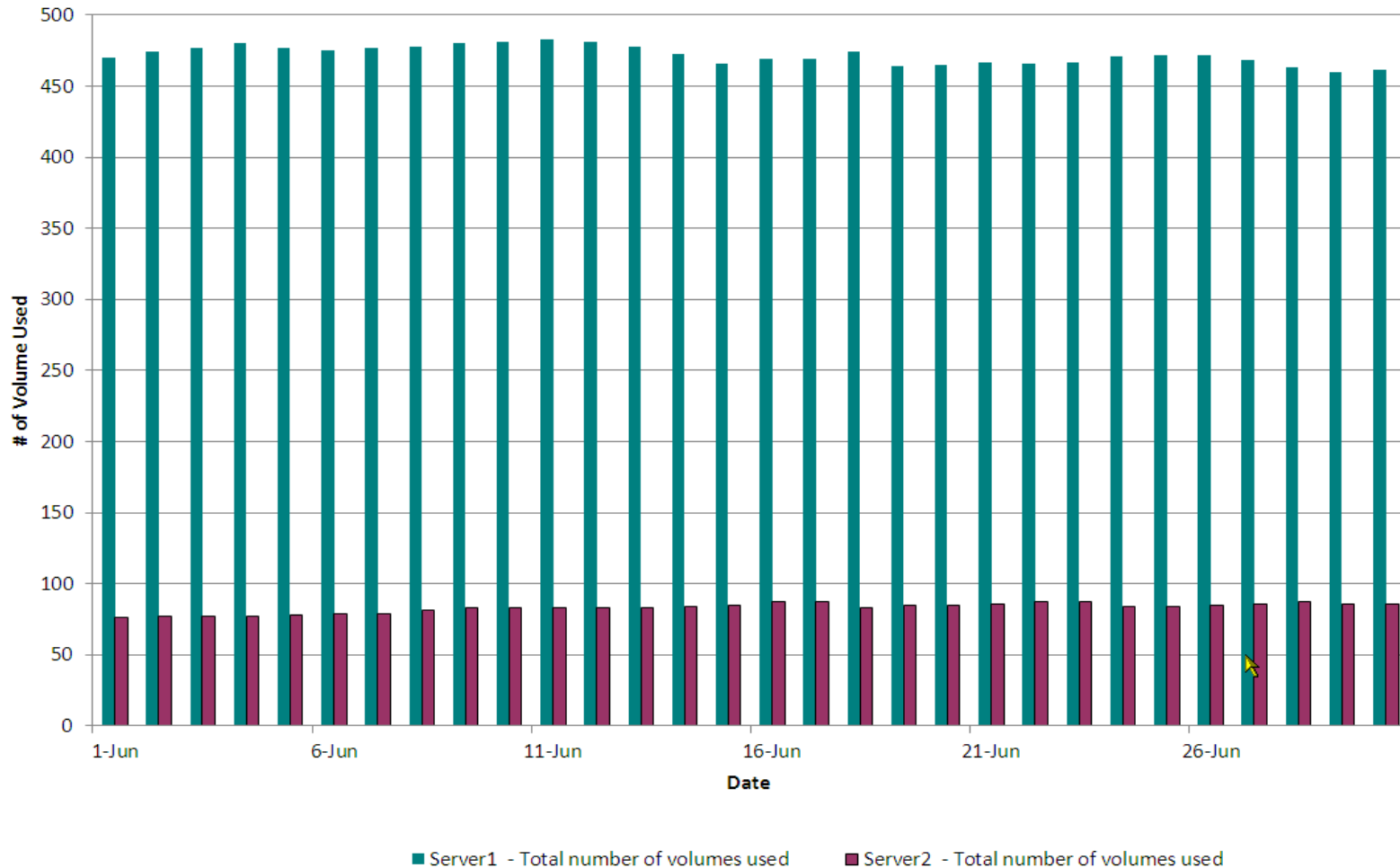**Summary:** High level graphical view of data stored on TSM per day for the month of June.

Observation: Space used is relatively the same however as data of Oracle database has grown so is space required to be backed up.

Recommendation: Not applicable

Total Number of Volumes Used – June 2012

Summary: High level graphical view of TSM using the number of volumes in a day for the month of June.

Observation: Each LTO4 tape holds 1.5TB. The library has 253 tape slots and 218 of them are in use. Vault capacity is infinite as we continue to order tapes as required.

Recommendation: Not applicable

Total Schedule Success Rate – June 2012
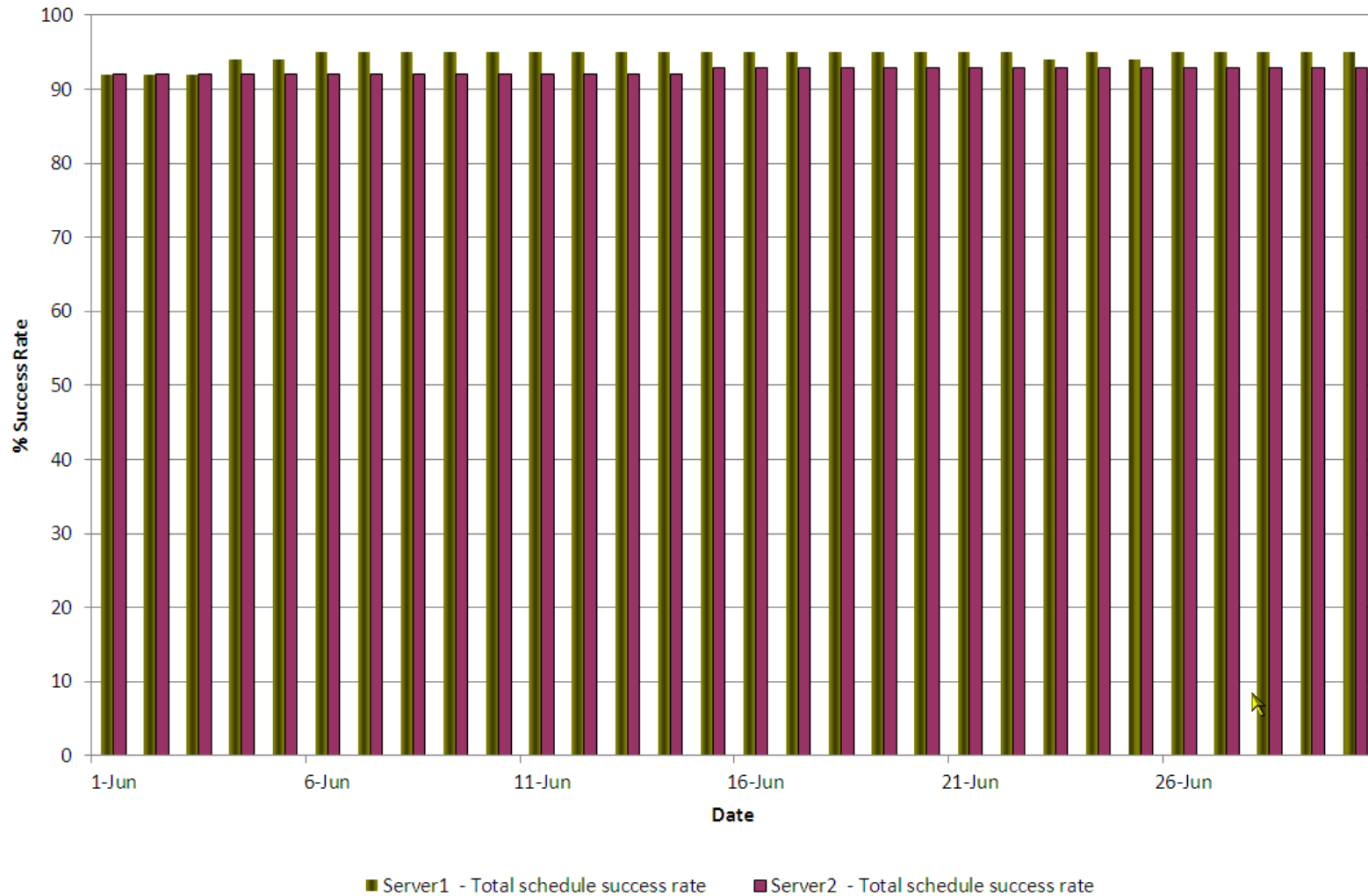
Summary: High level graphical view of TSM being successful in completing the backups on a daily basis for the month of June.
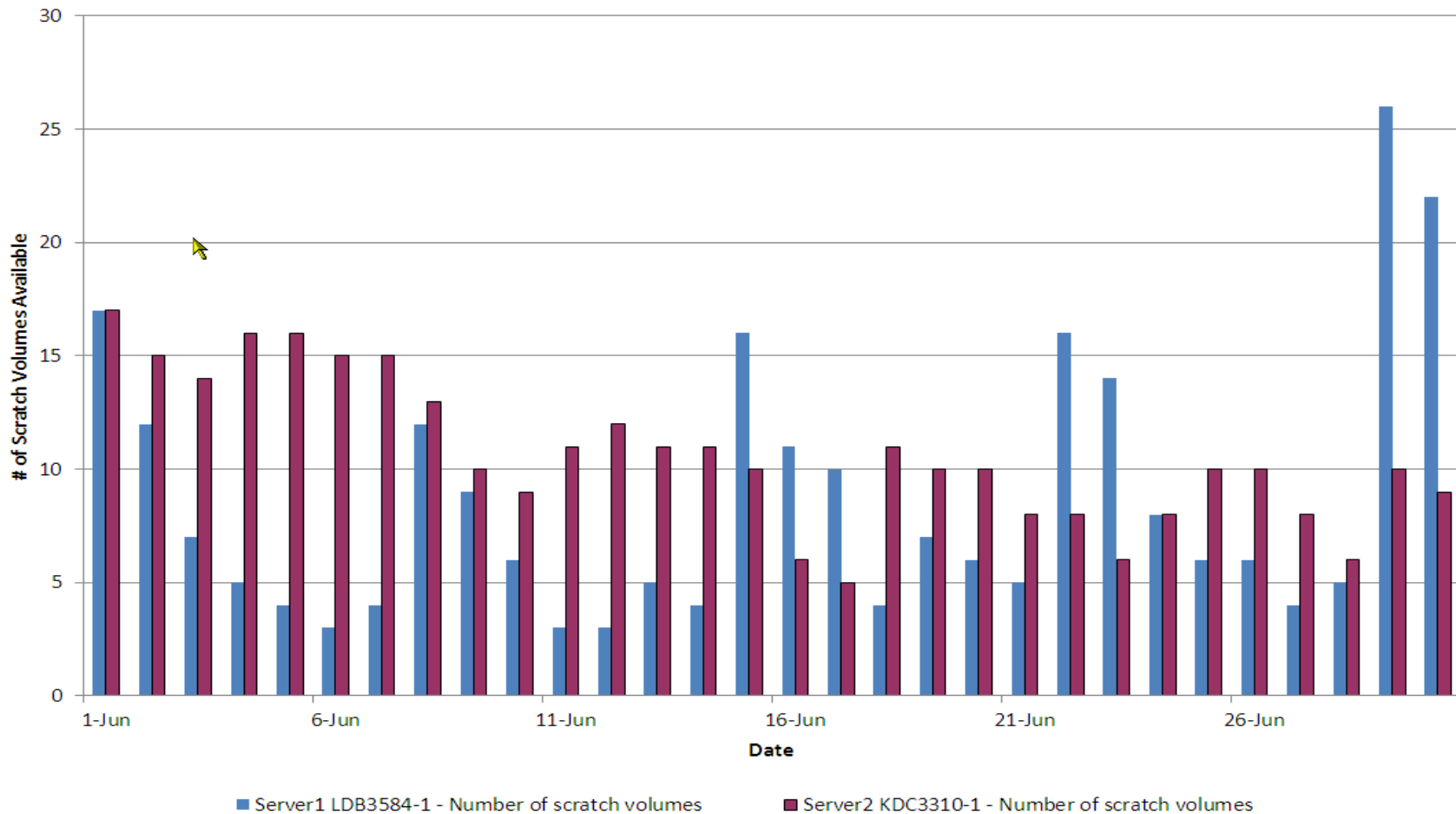
Observation: Continuing to work on the known client failures that are having problems.

Recommendation: Not applicable

Number of Total Scratch Volumes (available for use) – June 2012

Legend: ■ Server1 LDB3584-1 - Number of scratch volumes   ■ Server2 KDC3310-1 - Number of scratch volumes

Summary: High level graphical view of TSM being successful in completing the backups on a daily basis for the month of May.
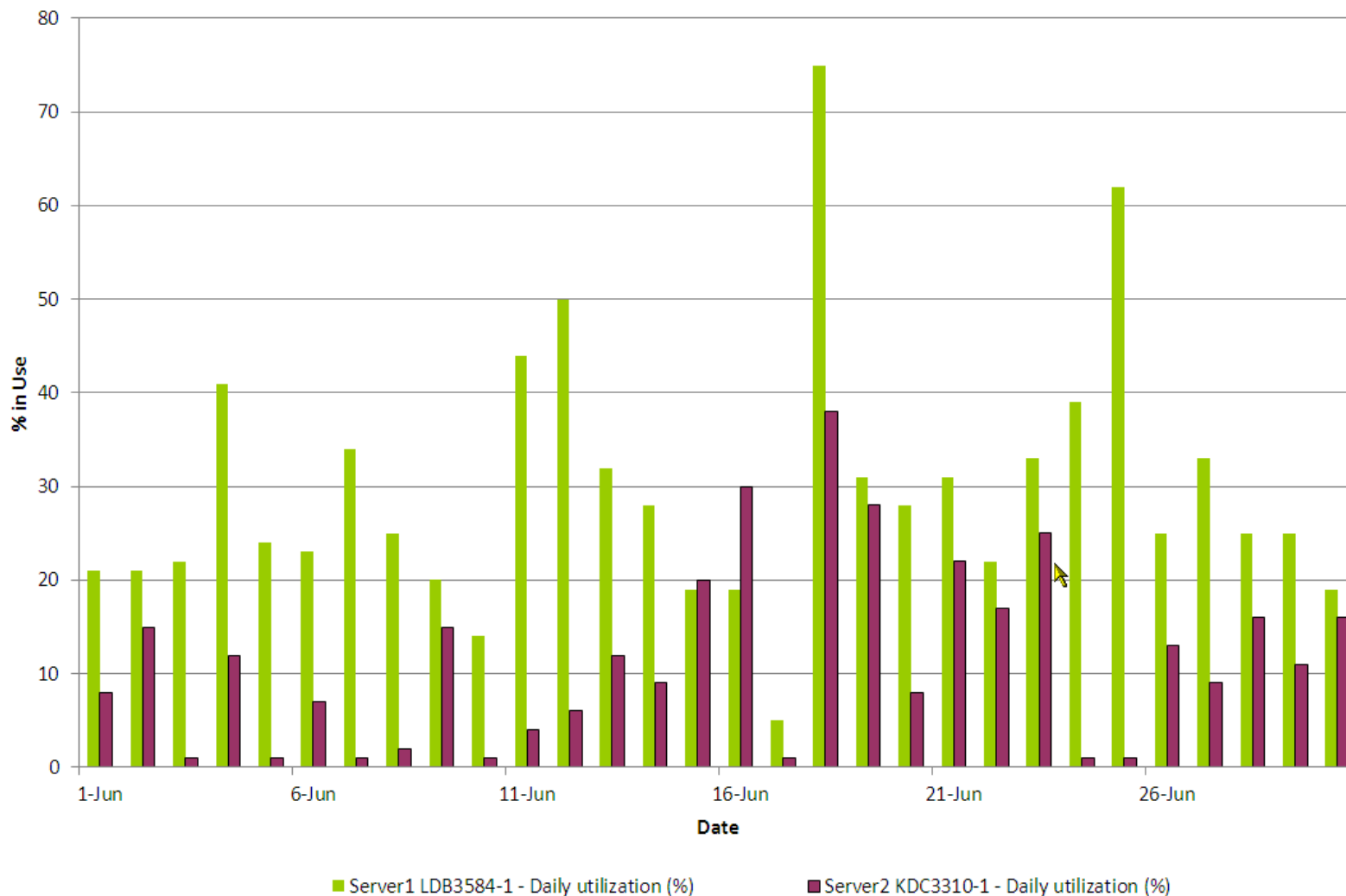
Observation: Each Weekend number of scratched tapes becomes available due to data being deleted by DBA's, data expiring or utilizing new tapes. (Note: data deleted by DBA's for Oracle databases backups on regular basis which are older than 40 days or expires).

Recommendation: Not applicable

Daily TSM Utilization (%) – June 2012

Summary: High level graphical view of TSM Tapes being mounted each day for the month of June.

Observation: TSM is highly utilized on the weekends. TSM for VDC is more utilized for daily backups versus TSM for KDC.

Recommendation: Not applicable

End of Data Centre Chart Analysis

June 2012