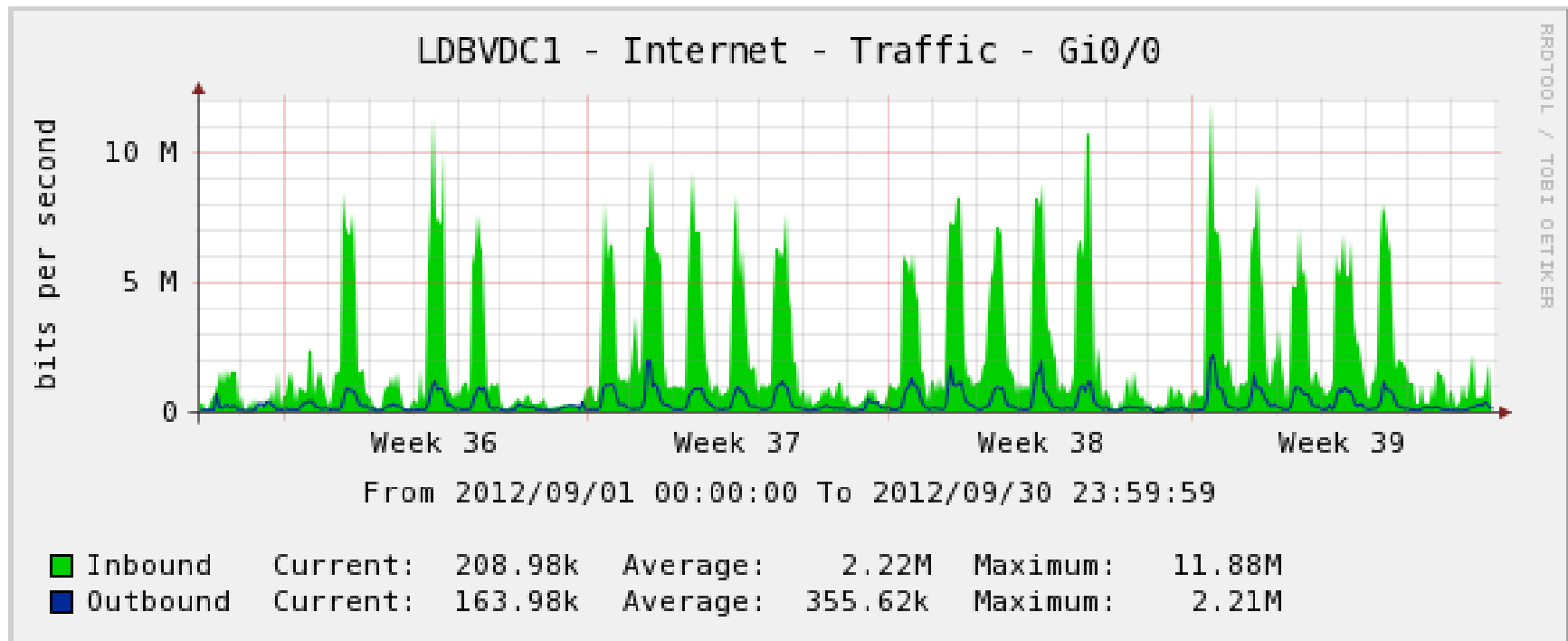


# Data Center Chart Analysis

September 2012

## Monthly VDC Bandwidth Graphs – September 2012

### Internet Bandwidth – VDC



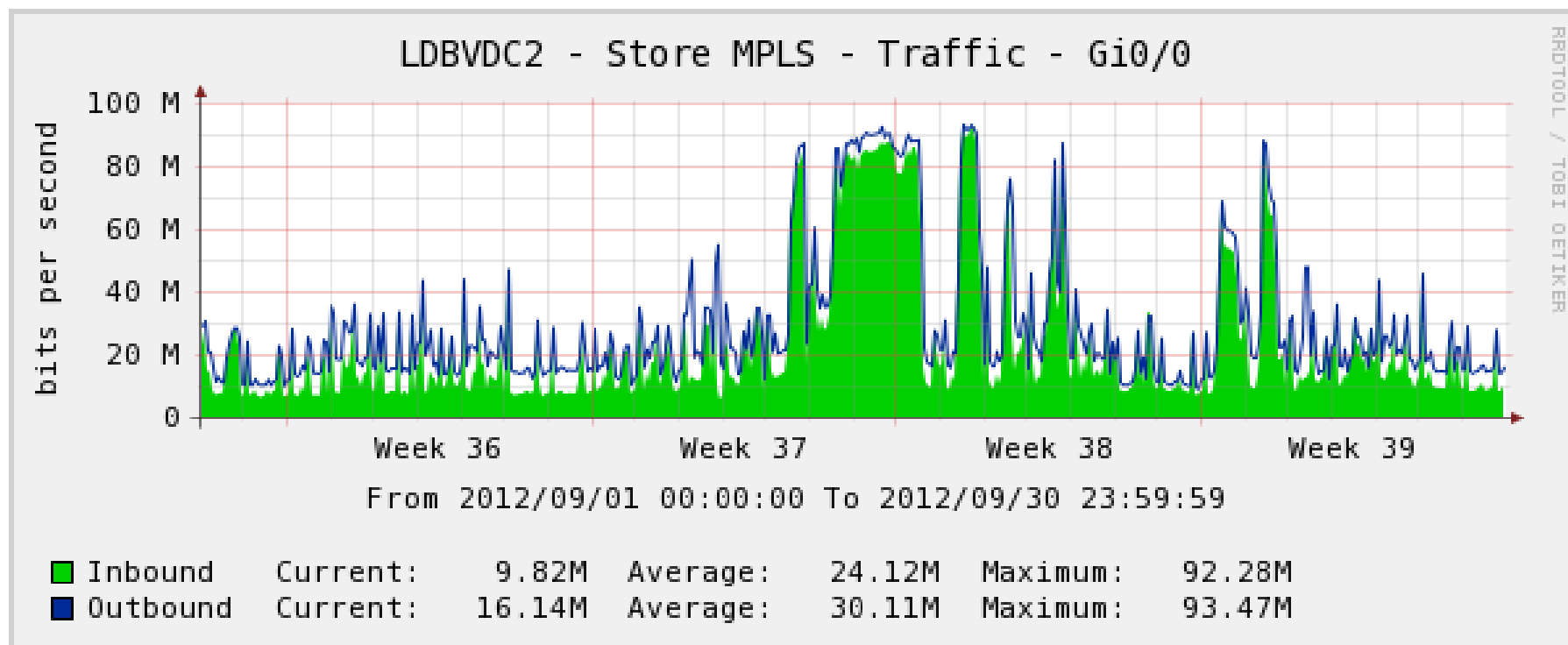
**Summary:** Graphical view of traffic going through Head Office to the Internet. The maximum traffic allowed is 20Mbs.

**Observation:** During HO core hours (8:00 to 4:30), Internet link was not as active due to people being on vacation. However it was sustained at 45% of the available bandwidth. Only once the bandwidth has reached more than 10 MB/second.

**Recommendation:** Not applicable

## Monthly VDC Bandwidth Graphs – September 2012

### Bandwidth between HO and Stores



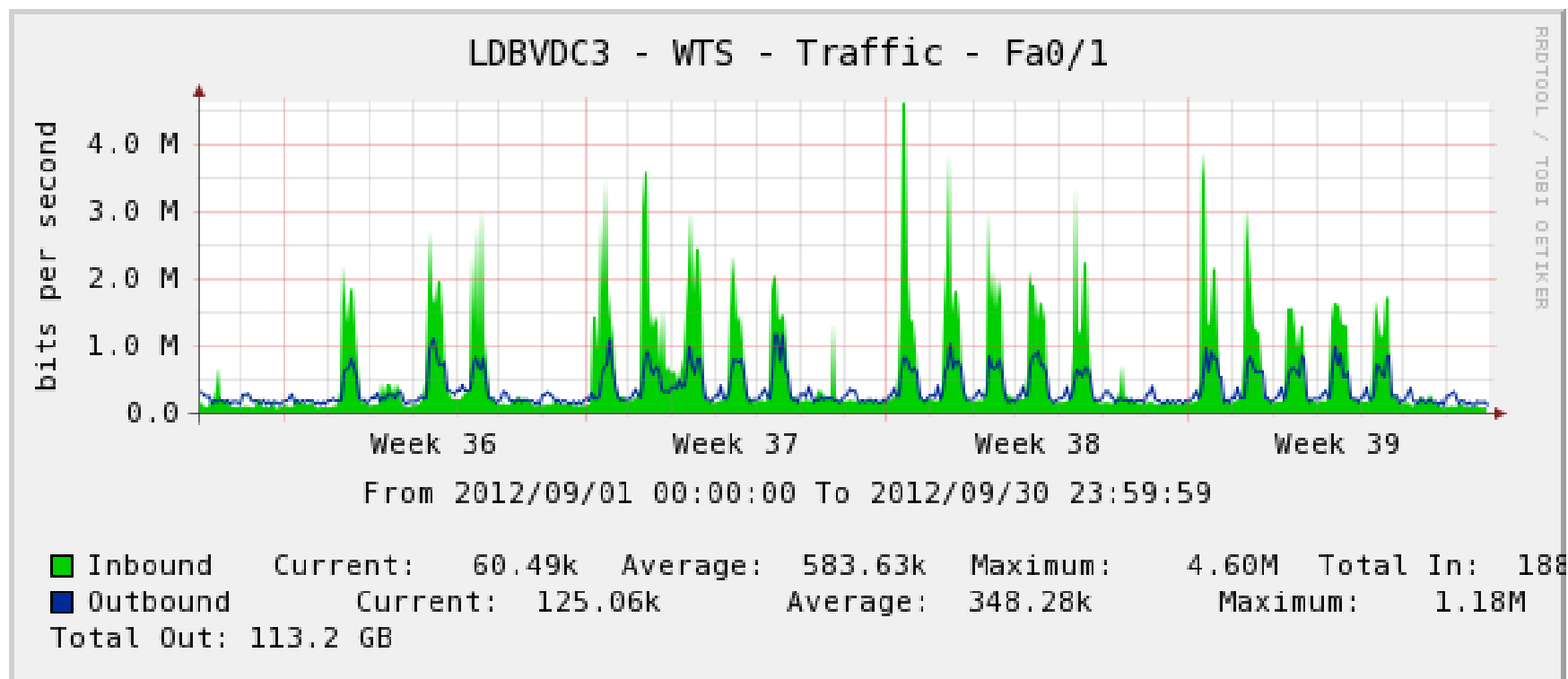
**Summary:** Graphical view of traffic going through Stores to Head Office via Internet.

**Observation:** Solid green of inbound traffic means stores were busy sending orders and sales data back HO but otherwise no significant problems occurred during the month.

**Recommendation:** Not applicable

## Monthly VDC Bandwidth Graphs – September 2012

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



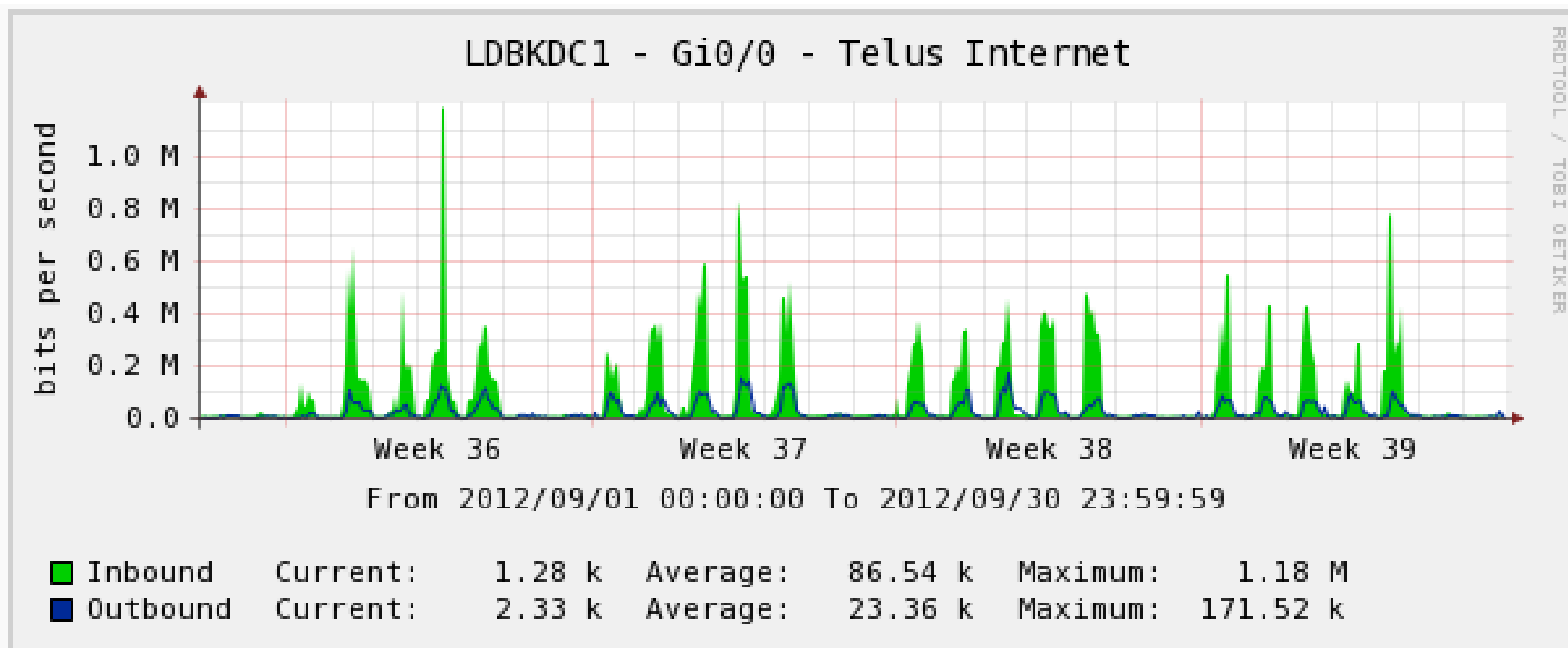
**Summary:** Graphical view of traffic going through WTS to Head Office via Internet.

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

**Recommendation:** Not applicable

## Monthly KDC Bandwidth Graphs – September 2012

### Internet Bandwidth – KDC



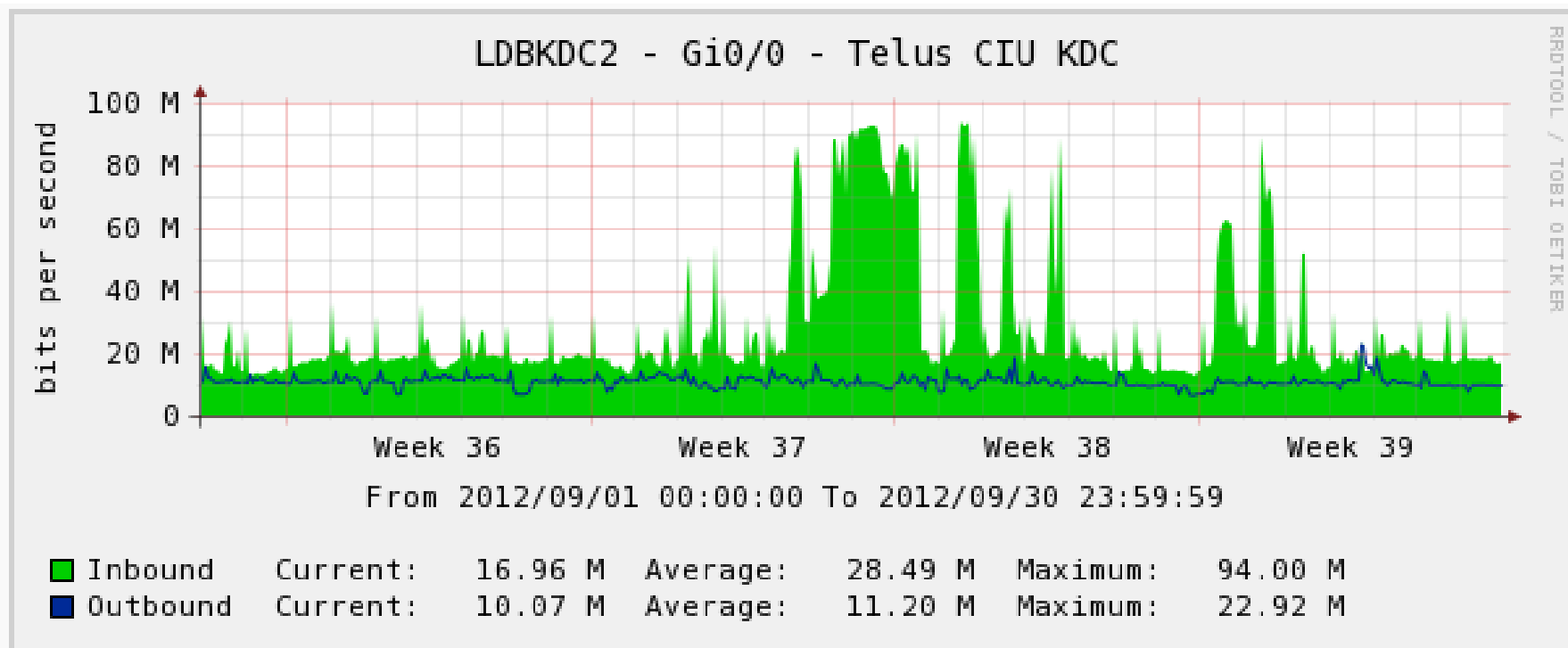
**Summary:** Graphical view of traffic going through KDC to the Internet.

**Observation:** Minimal use

**Recommendation:** Not applicable

## Monthly KDC Bandwidth Graphs – September 2012

### Bandwidth between KDC and Stores



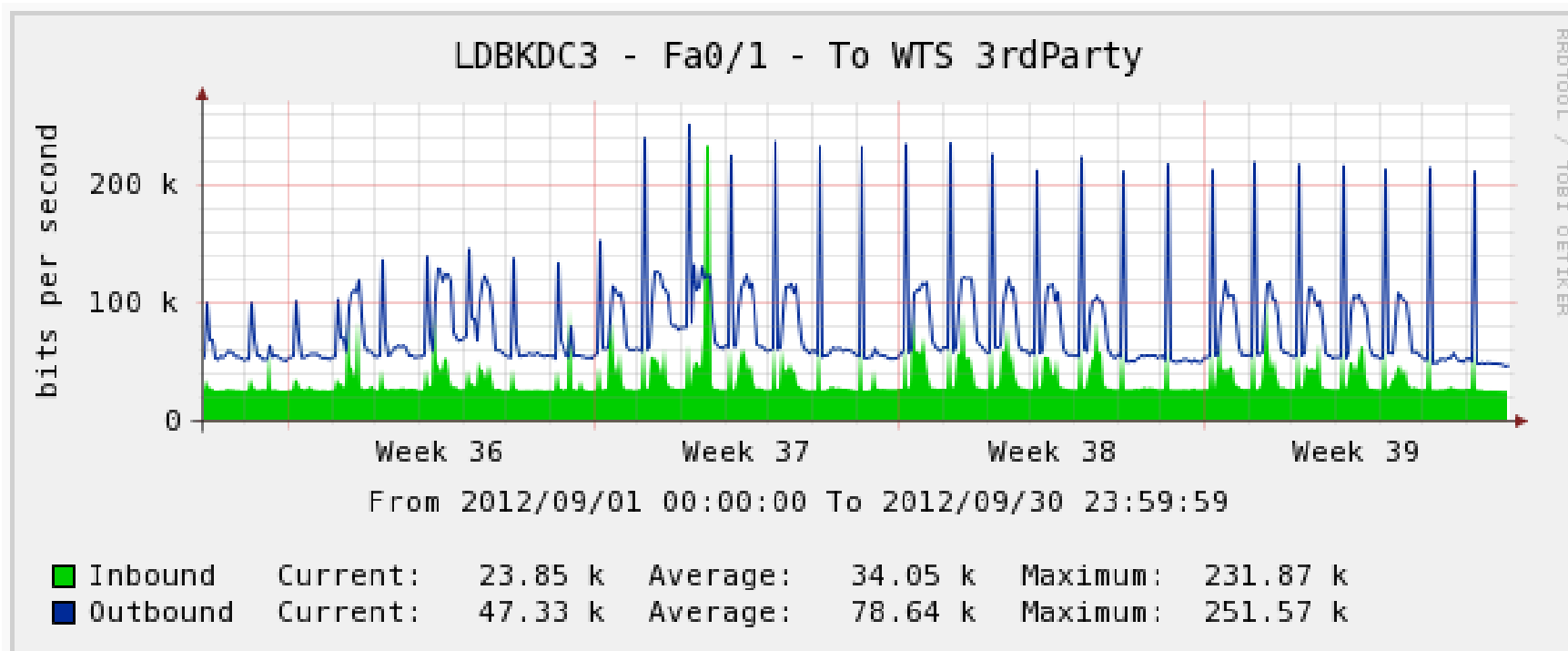
**Summary:** Graphical view of traffic going through Stores to KDC via Internet.

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

**Recommendation:** Not applicable

## Monthly KDC Bandwidth Graphs – September 2012

### Bandwidth used for Email, DNS, and KDC via WTS

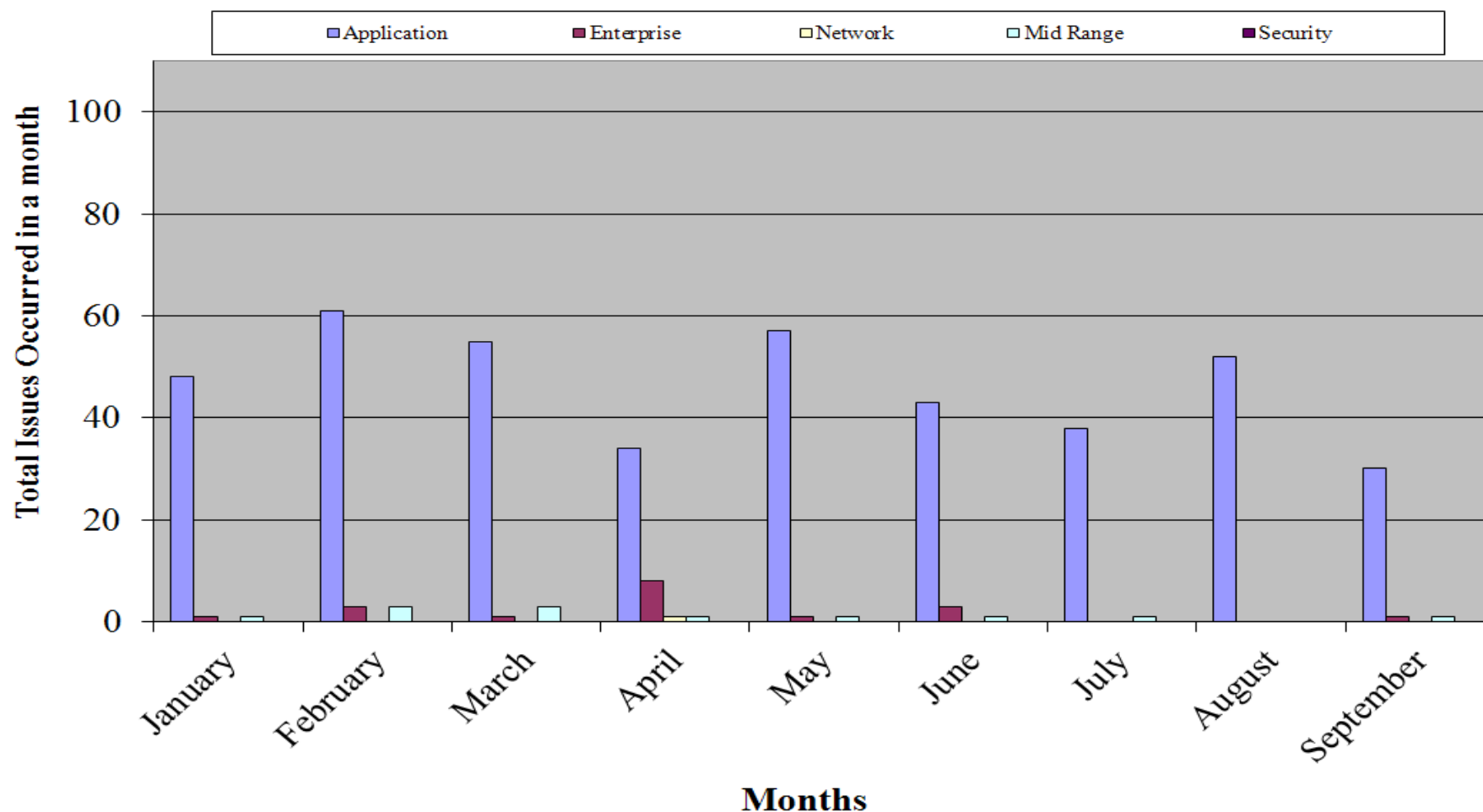


**Summary:** Graphical view of traffic going through KDC to WTS via Internet.

**Observation:** Minimal use

**Recommendation:** Not applicable

## Data Centre Production Issues 2012



**Summary:**

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

**Observation:**

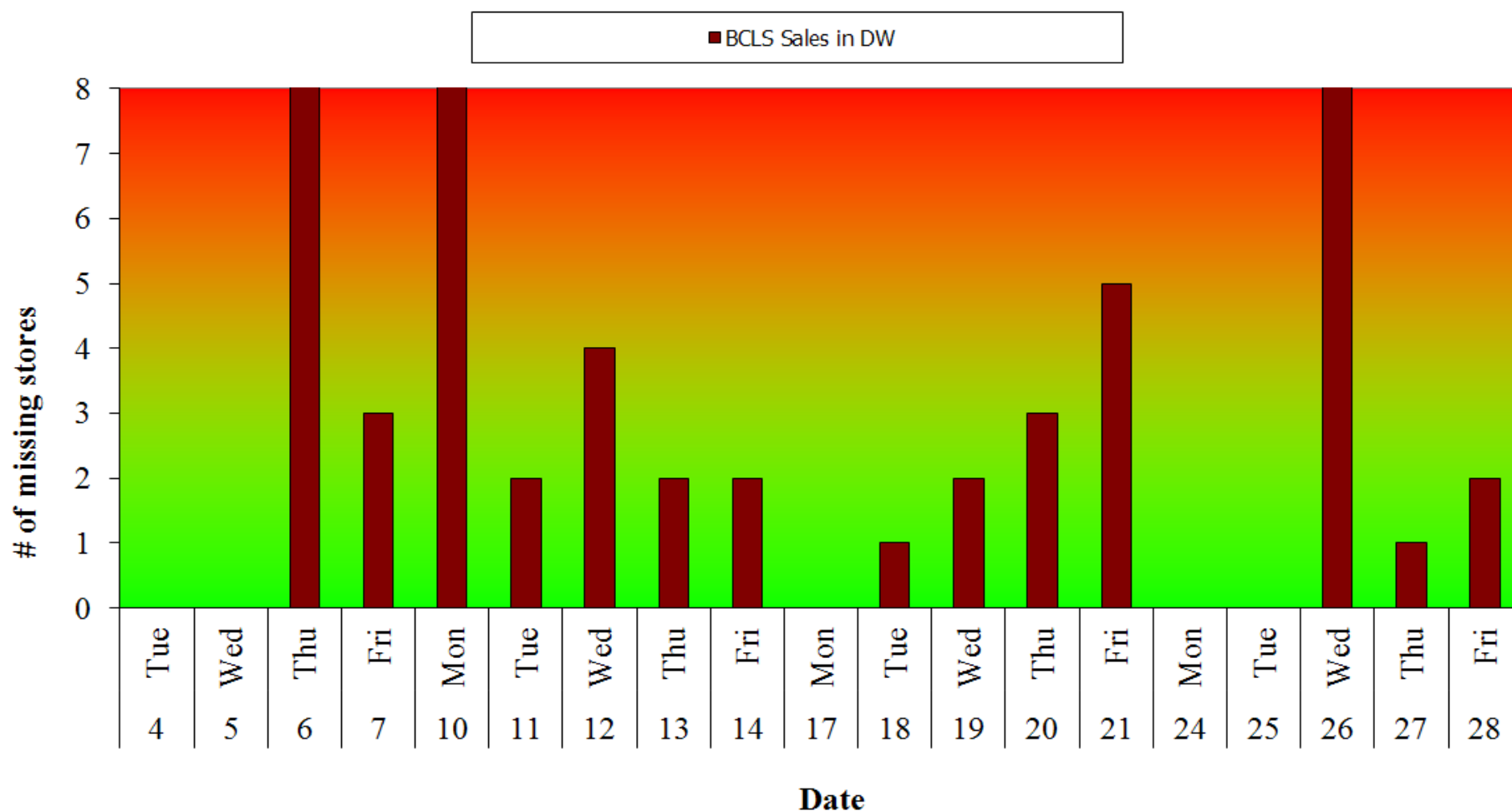
Majority are application issues of which 44% are Autosys jobs and 22% are run away process (see BMC tickets for more information) for the month of September.

**Recommendation:**

Not applicable



## Sales – Finance Data Availability - September 2012



### Summary:

Graphical view of transmitted BCLS Stores Financial Sales Data to Head Office in Data Warehouse.

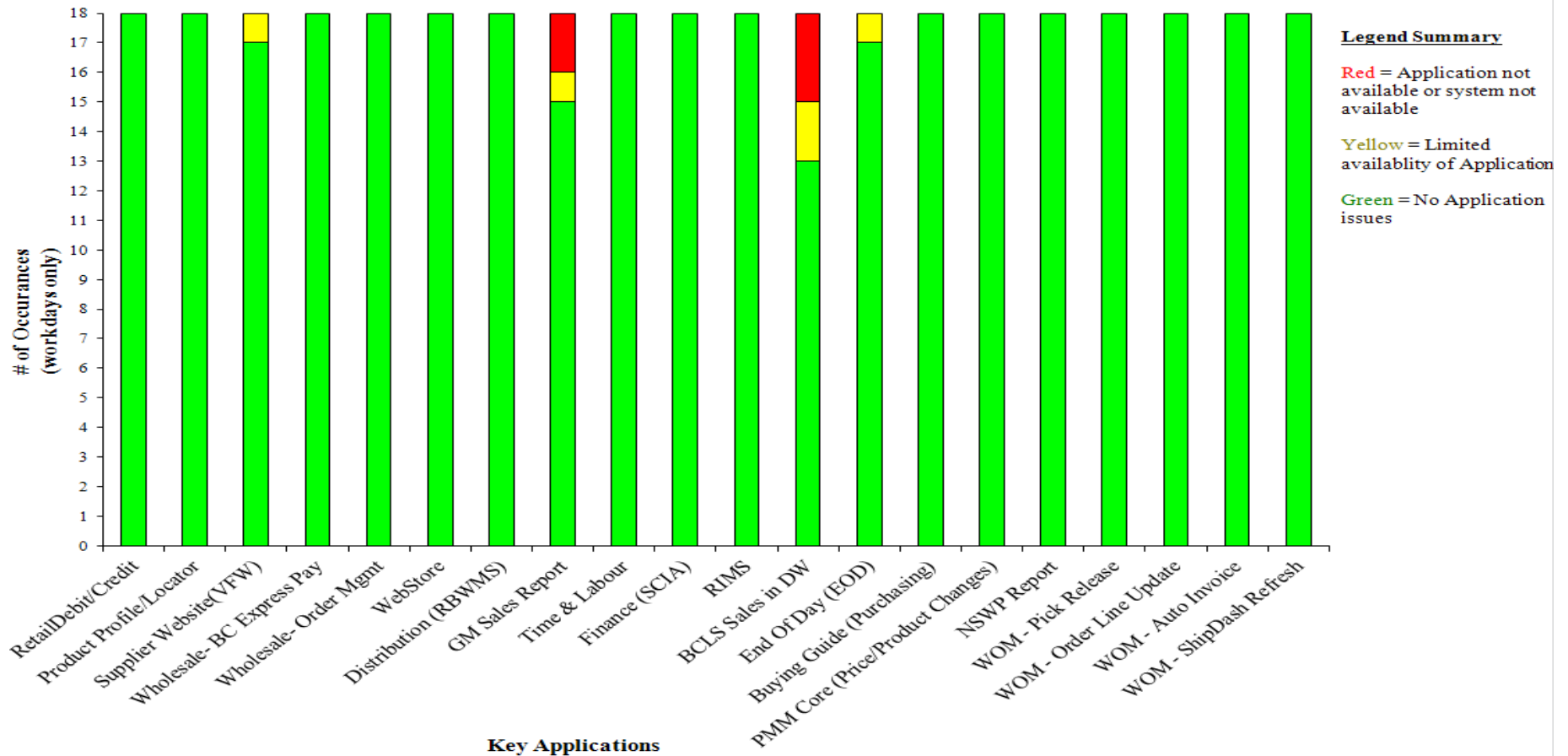
### Observation:

On September 6<sup>th</sup> and 26<sup>th</sup> there was Autosys job issues, please refer to BMC # 501701, 504511, 504513, 504514 and 504515 for details. On September 10<sup>th</sup> there was a Cognos issue, please refer to BMC # 501874 for details.

### Recommendation:

Not applicable

## Daily Availability of Business Application – September 2012

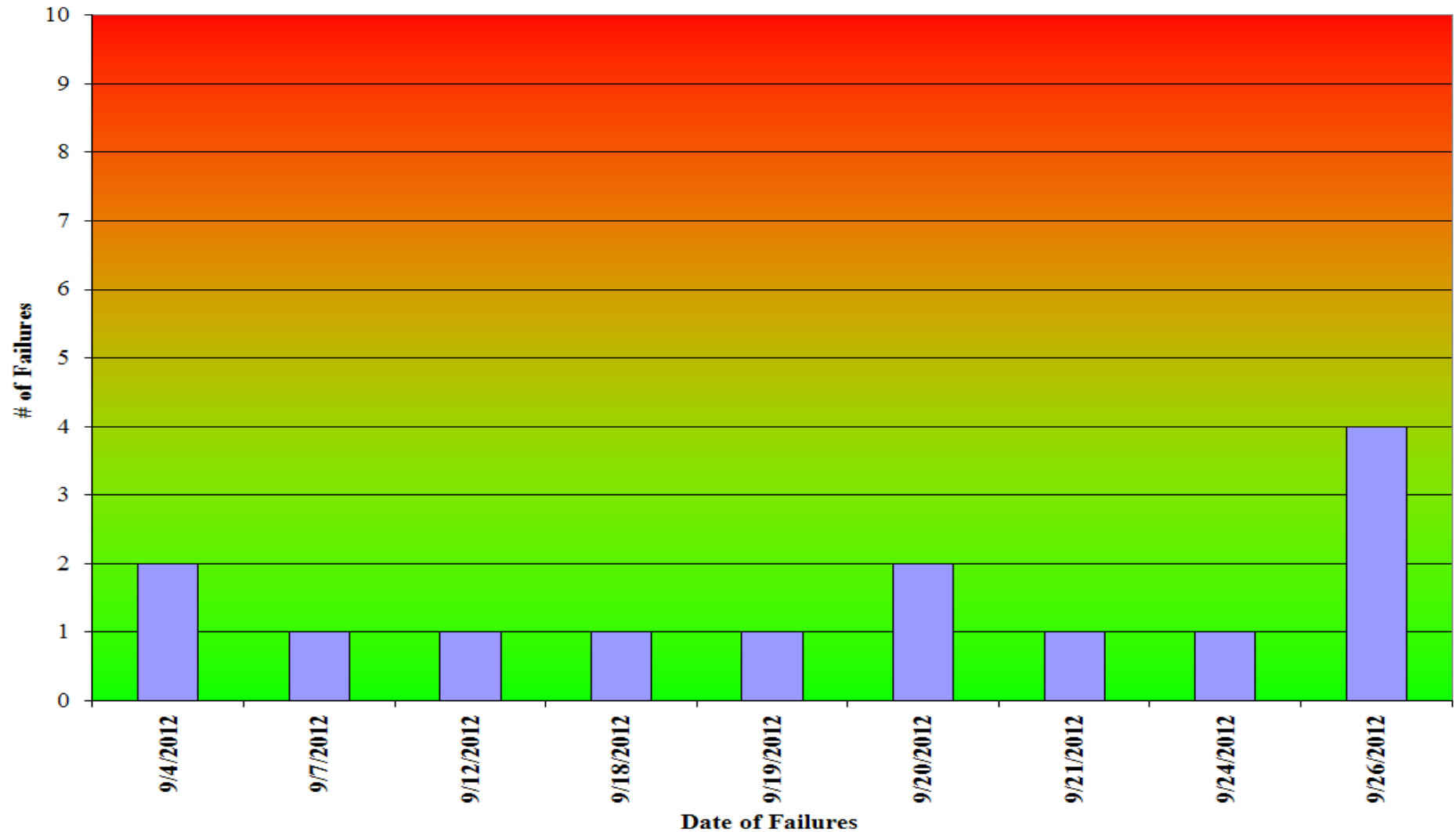


**Summary:** High level graphical view of Business Applications availability.

**Observation:** In September there were issues with BCLS Sales in DW and GM Sales Report. Please refer to BMC # 501701, 504511, 504513, 504514, 504515, and 501874 for further details.

**Recommendation:** Not applicable

### Autosys Jobs failed per day – September 2012

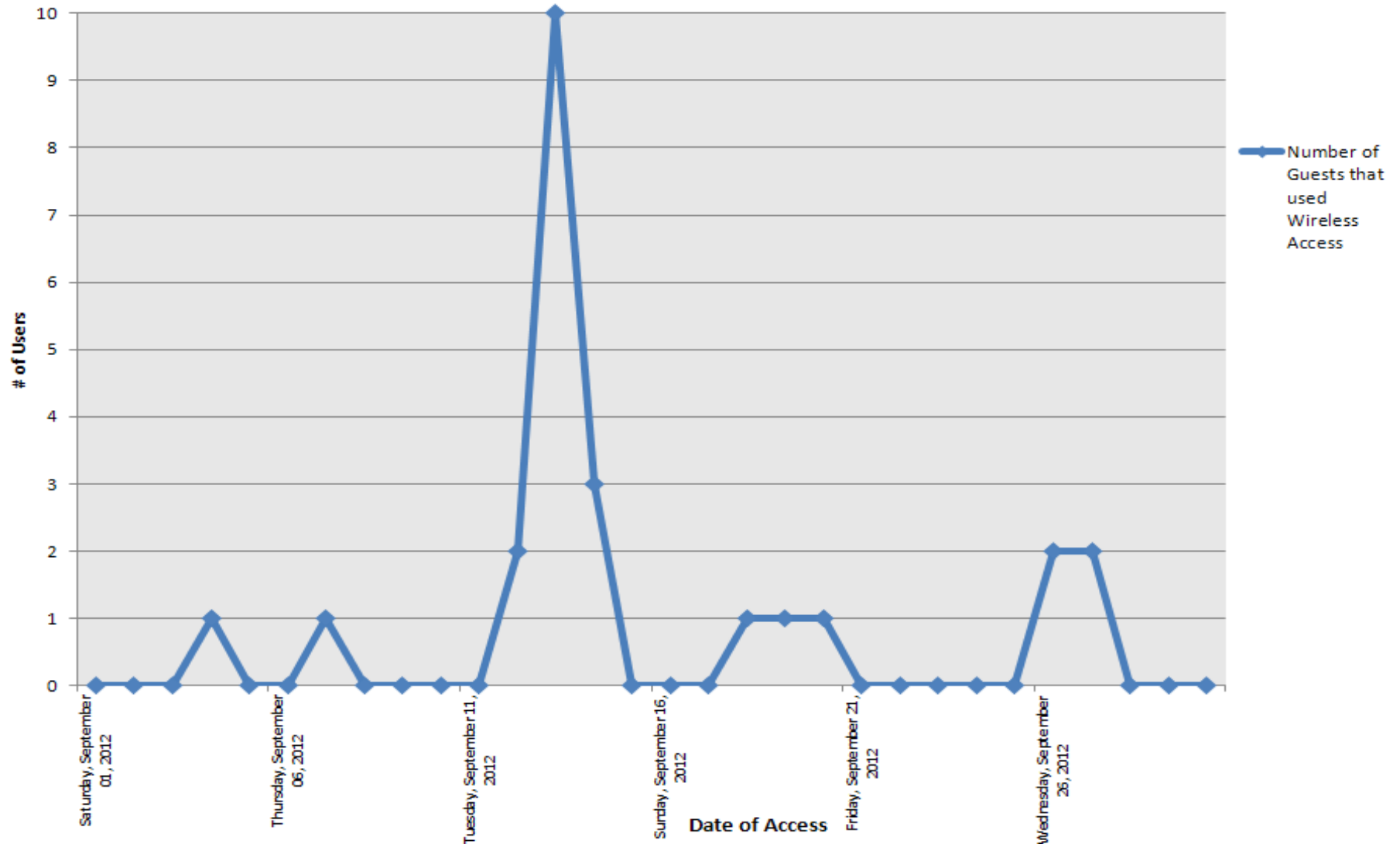


**Summary:** High level graphical view of Production Autosys Job failures for the month of September 2012.

**Observation:** There were no significant issues in the month of September in terms of Autosys job failures.

**Recommendation:** Not applicable

## Guest Wireless Network Usage – September 2012

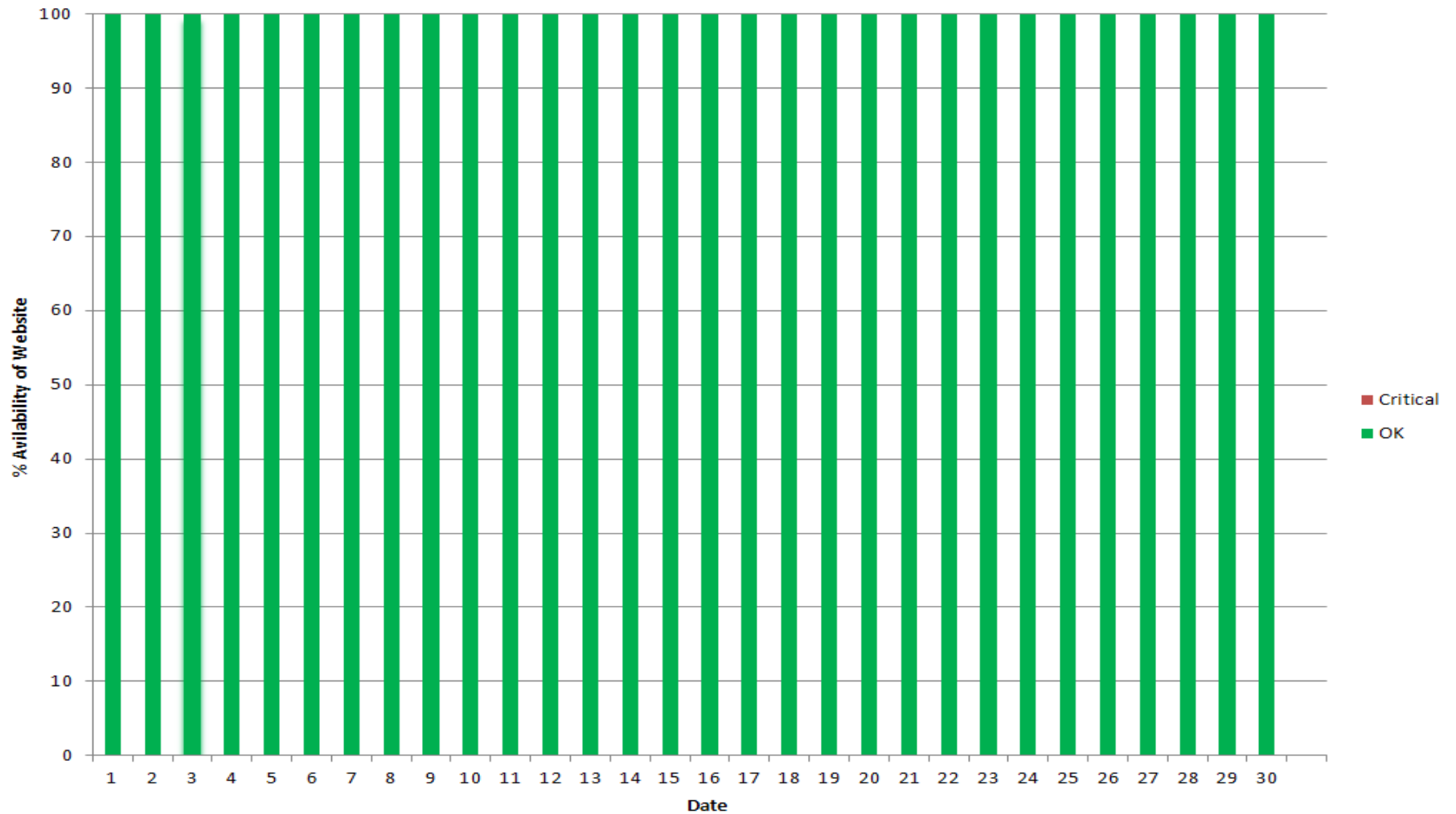


**Summary:** High level graphical view of guest users using the Wireless Network for the month of September 2012.

**Observation:** This was the first month of starting this new service to user for wireless access.

**Recommendation:** Not applicable

## WebStore Availability – September 2012

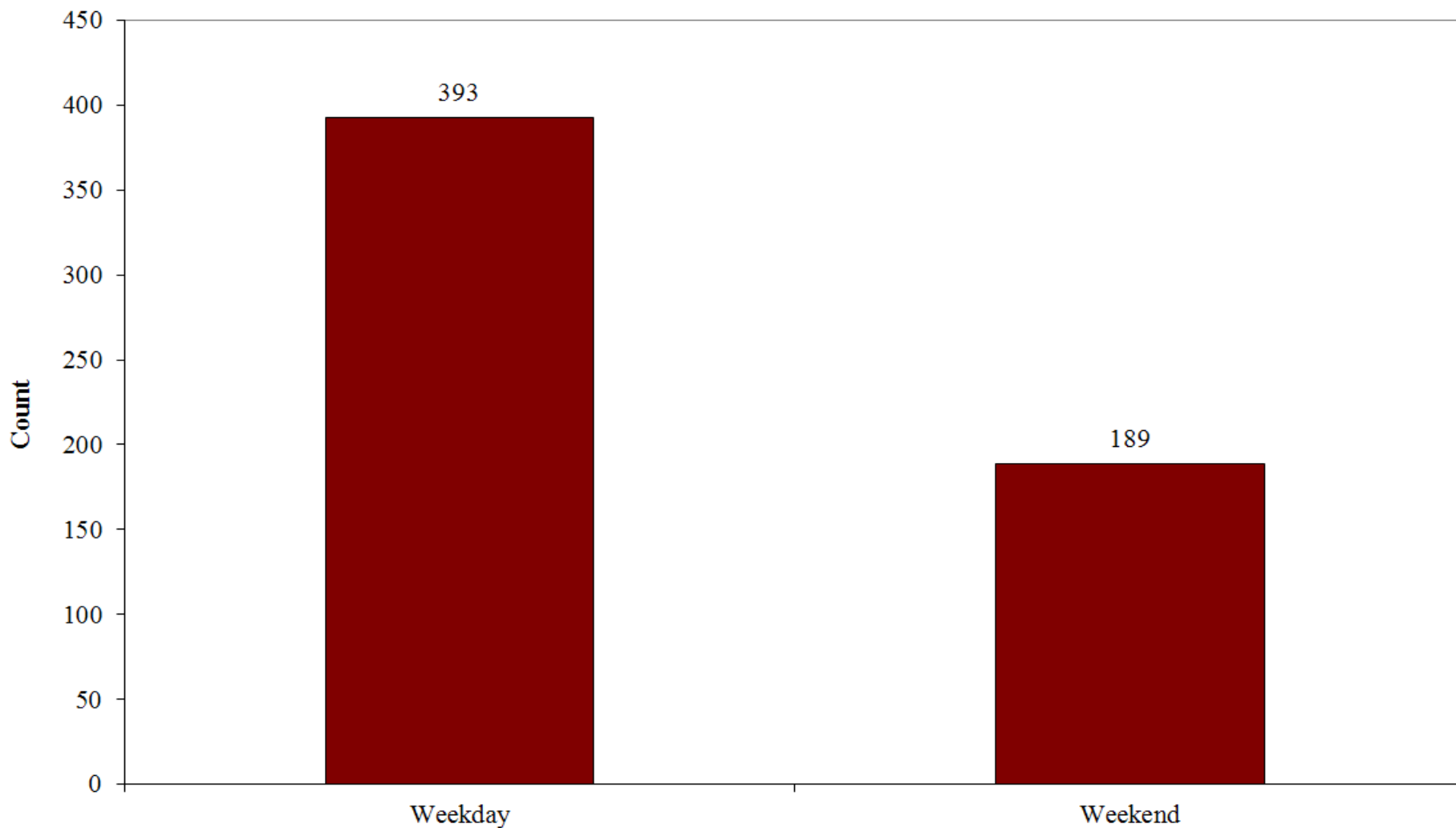


**Summary:** High level graphical view of Webstore’s Availability through Orion access for the month of September 2012.

**Observation:** There were no issues in the month of September in terms of Webstore

**Recommendation:** Not applicable

## Remote Access on Weekday vs. Weekend – September 2012



\* Note: Weekends includes Stat holidays

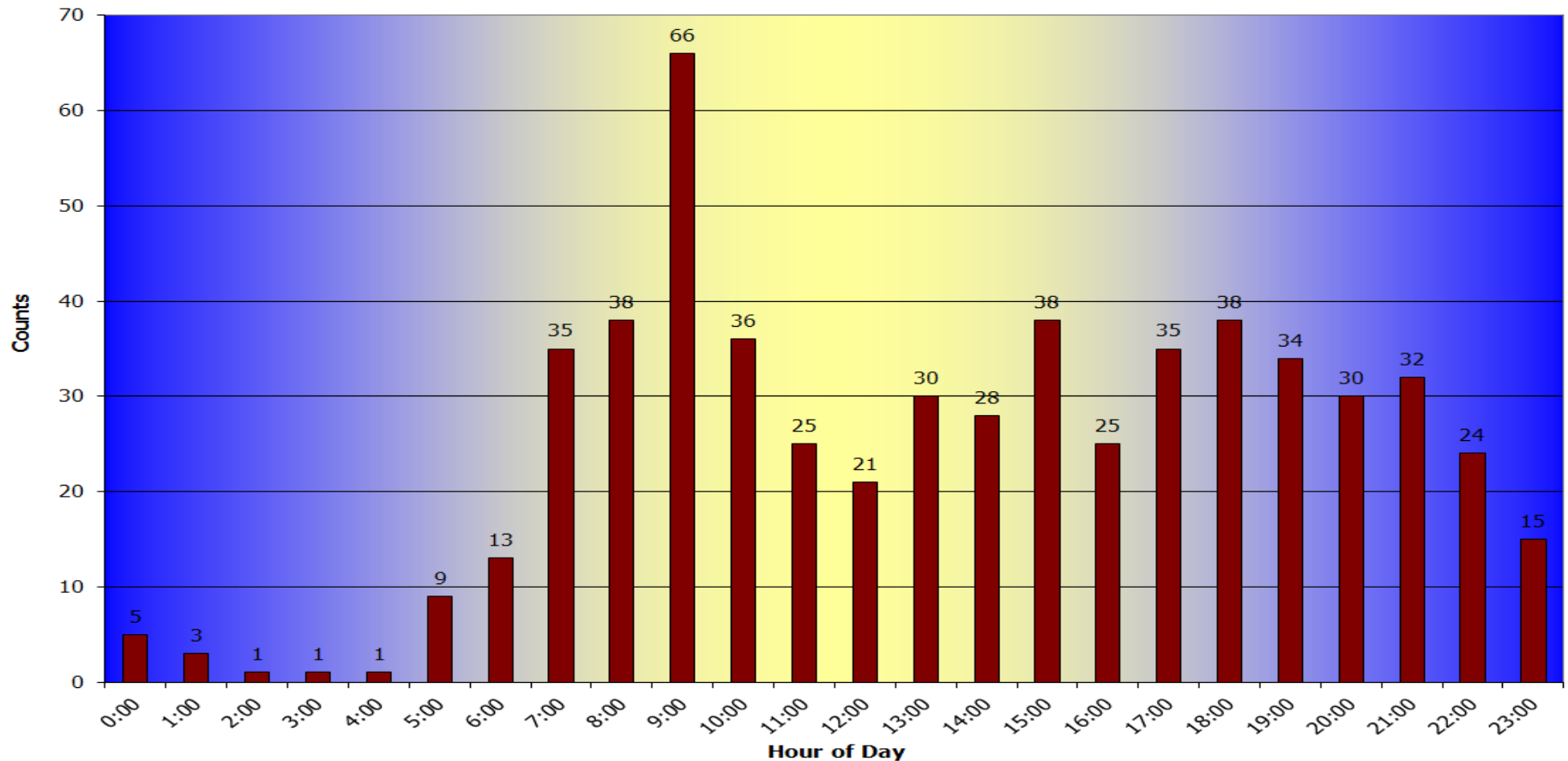
**Summary:** High level weekday and weekend graphical view of Users remotely accessing Head Office resources.

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

**Recommendation:** Not applicable

## Remote Access by Hour of Day – September 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 September 2012.

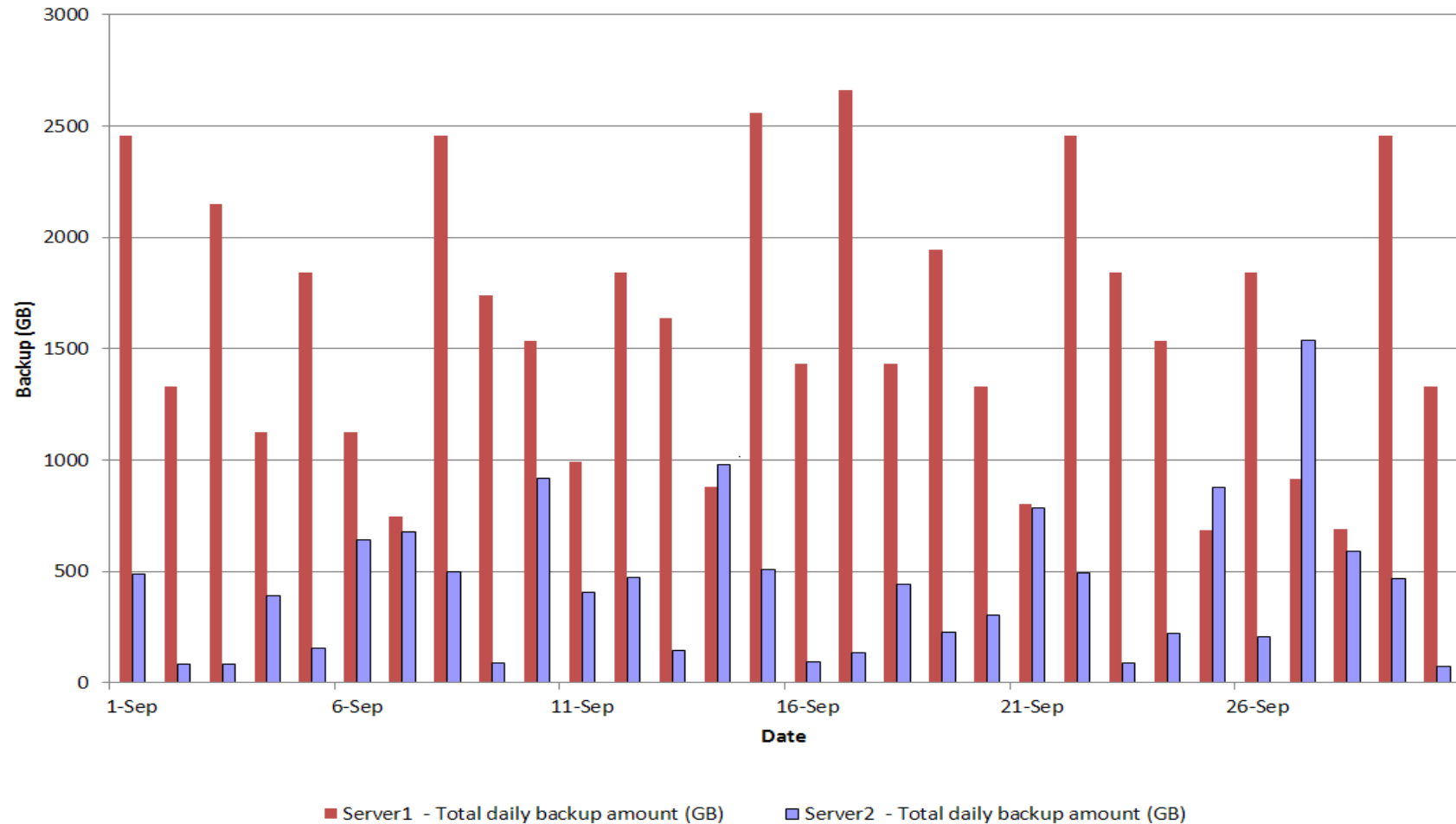
**Observation:**

More people accessing Head Office resources in the late evening (3pm – 10pm) versus in the morning (between 7am – 11am). \*\*\* Note: Currently capacity for concurrent users is 50.

**Recommendation:**

Not applicable

## Total Daily Backup Amount (GB) – September 2012



### **Summary:**

High level graphical view graphical view of TSM Daily Backup for the month of September.

### **Observation:**

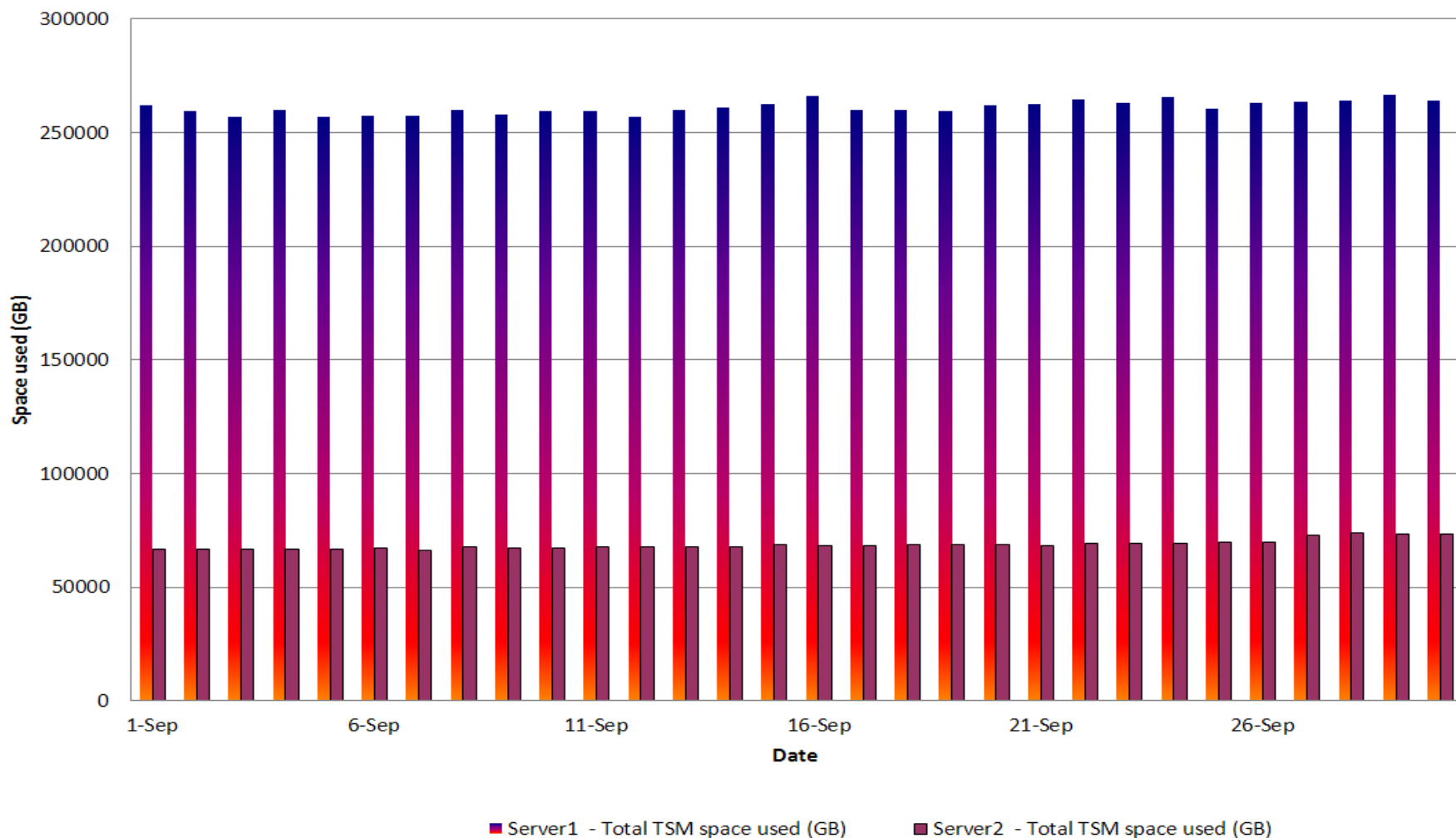
September 17th – over 2.6TB of SAN storage data was backed up on TSM. 1.5TB of SAN storage as transitional data constantly increases/decreases as data is migrated to tape.

### **Recommendation:**

Not applicable



## Total TSM Space Used (GB) – September 2012



### Summary:

High level graphical view of data stored on TSM per day for the month of September.

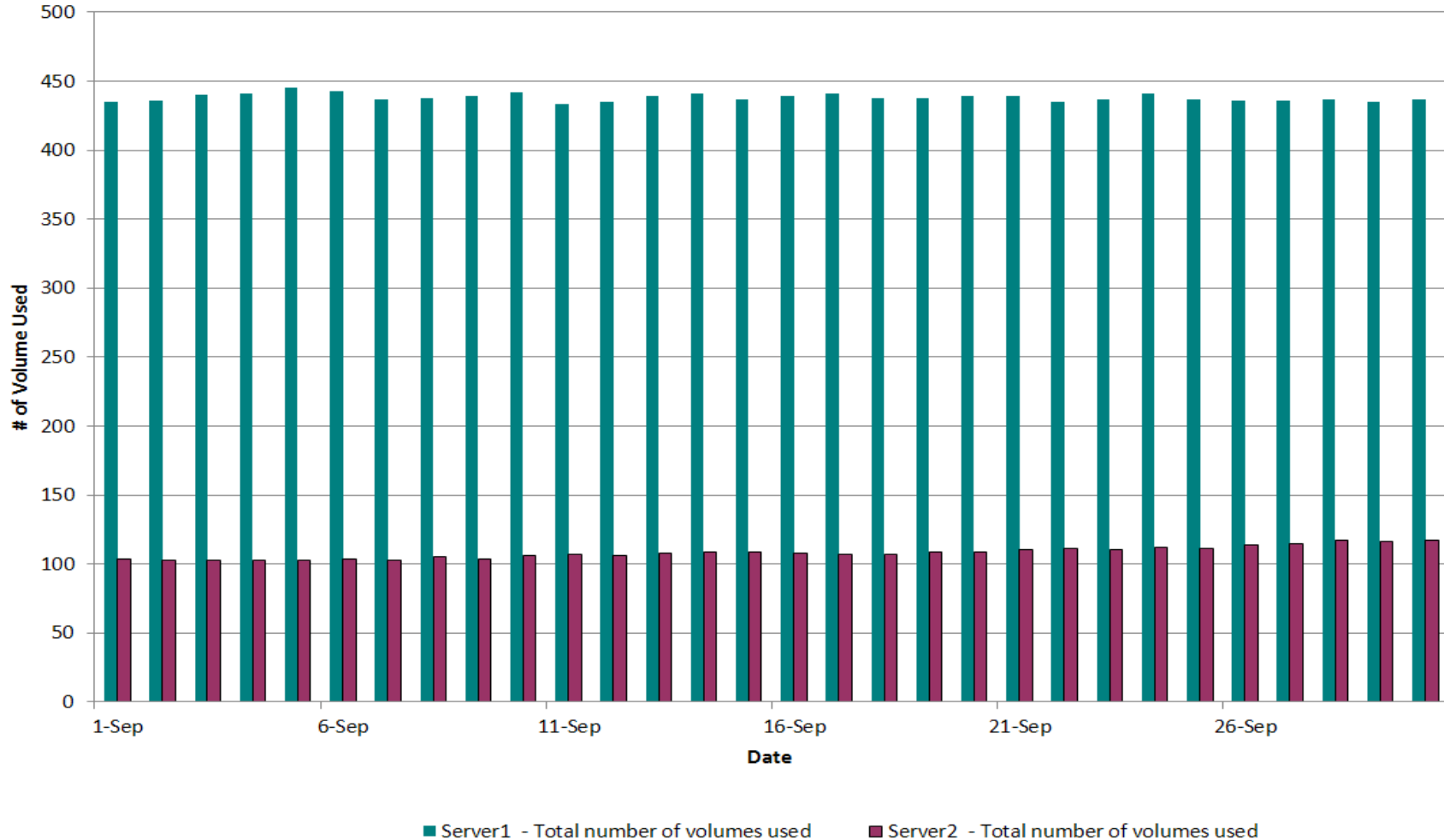
### Observation:

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 – September 2012



### **Summary:**

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

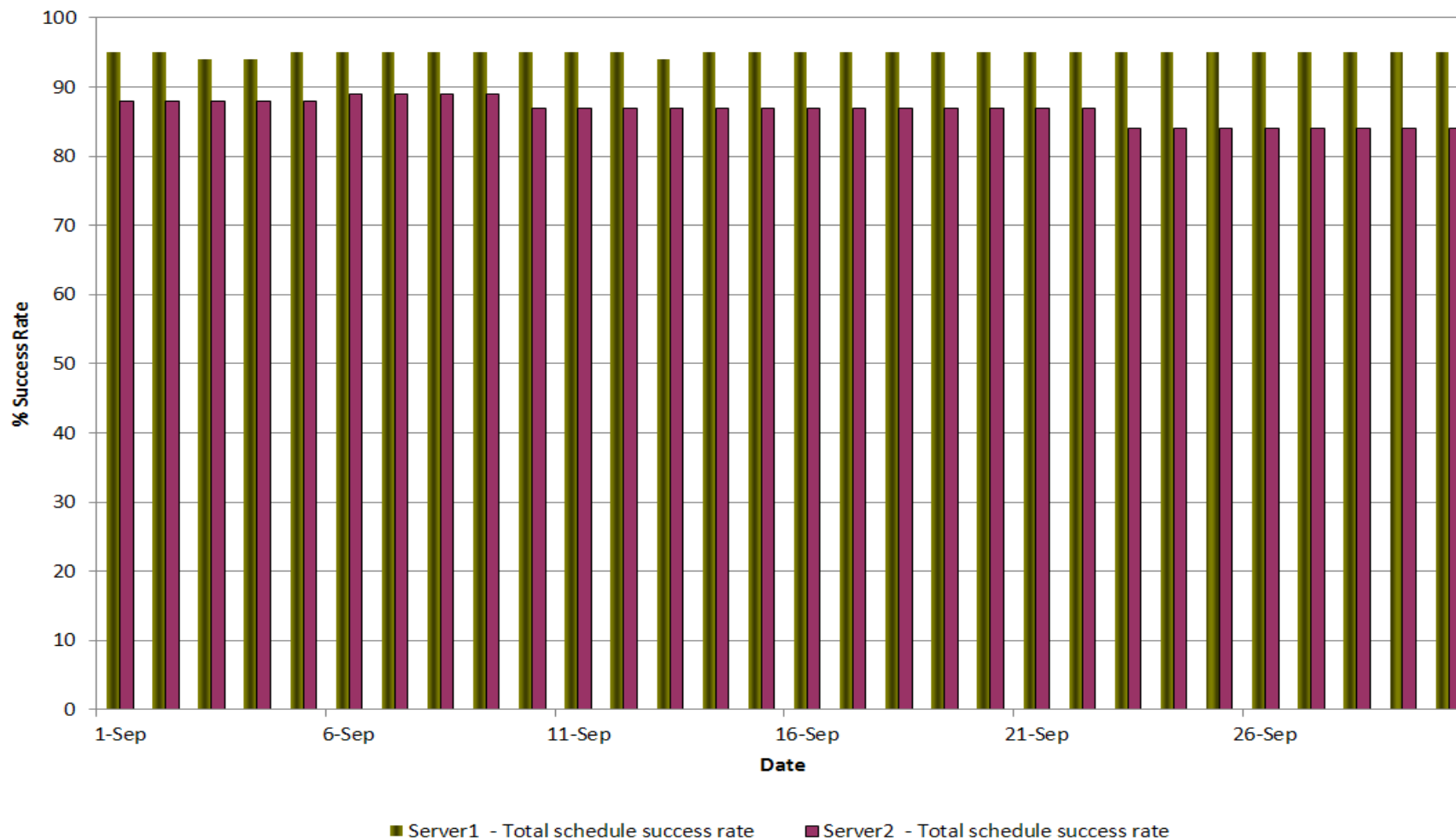
### **Observation:**

Each LTO4 tape holds 1.5TB. The library has 253 tape slots and 220 of them are in use. Vault capacity is infinite as we continue to order tapes as required.

### **Recommendation:**

Not applicable

## Total Schedule Success Rate – September 2012



### **Summary:**

High level graphical view of TSM being successful in completing the backups on a daily basis for the month of September.

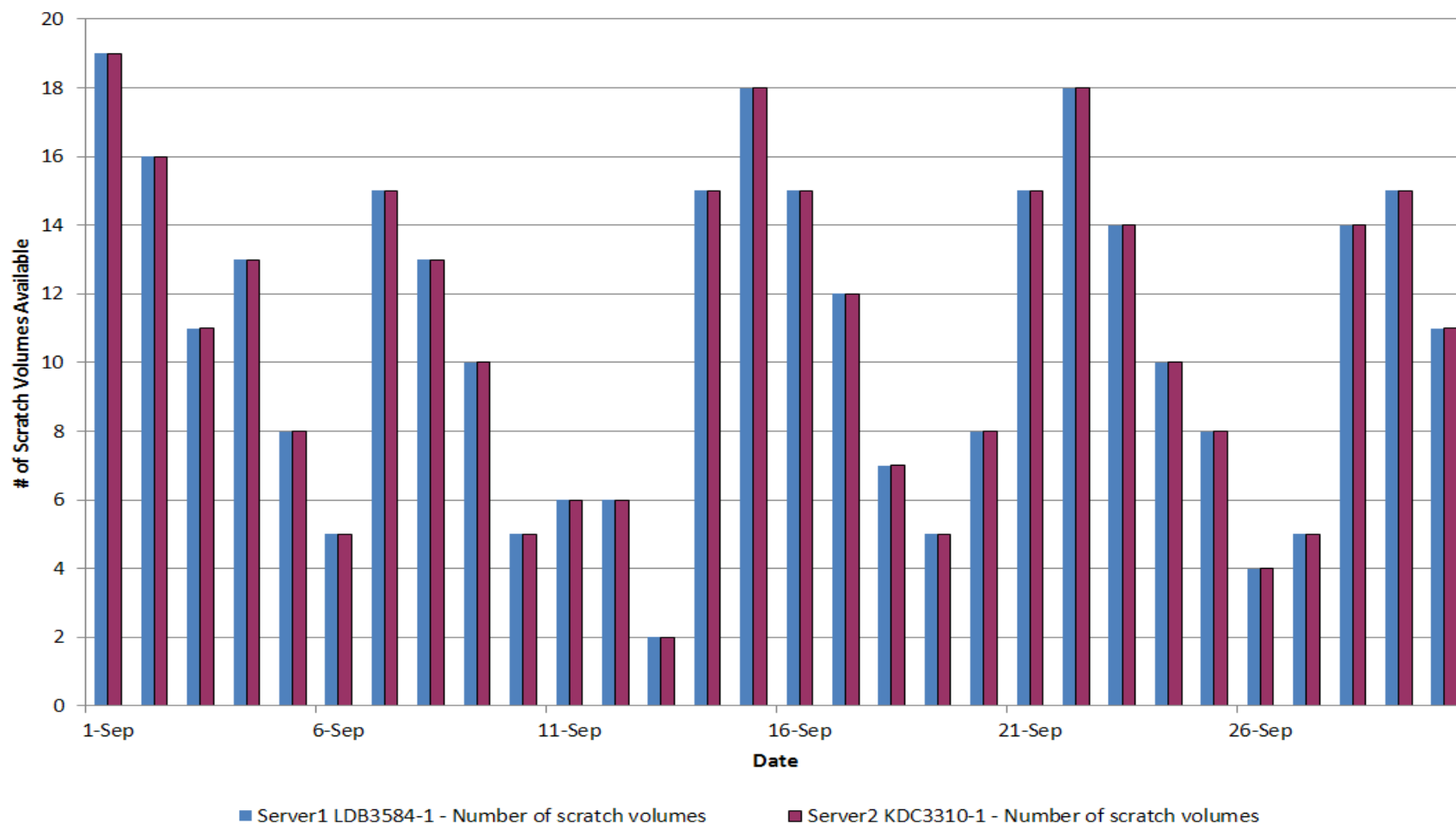
### **Observation:**

Continuing to work on the known client failures that are having problems.

### **Recommendation:**

Not applicable

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



### **Summary:**

High level graphical view of TSM being successful in completing the backups on a daily basis for the month of September.

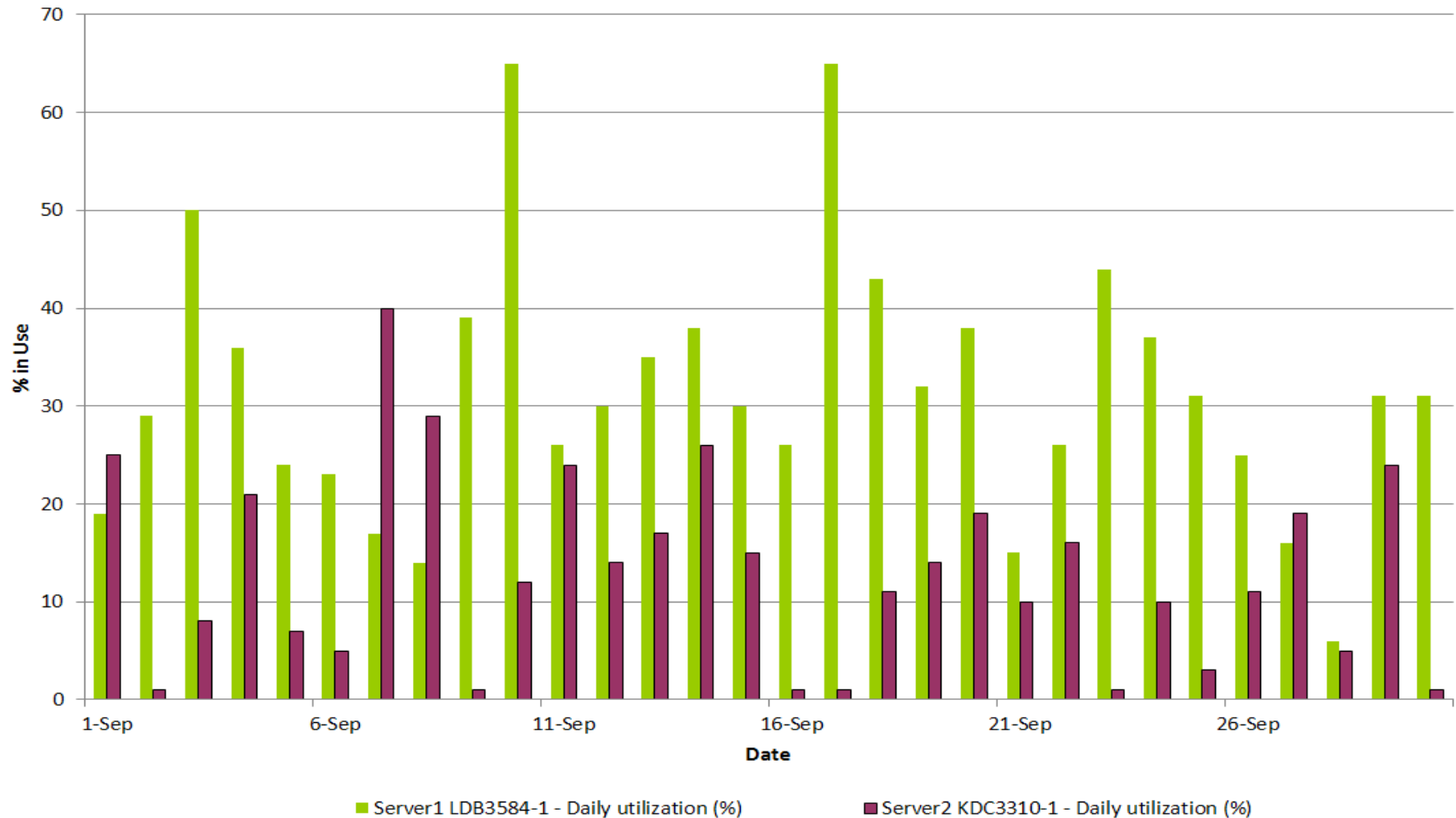
### **Observation:**

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 (%) – September 2012



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

**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 Center Chart Analysis

September 2012