Data Centre Chart Analysis
for January 2012

Monthly VDC Bandwidth Graphs – January 2012

Internet Bandwidth – VDC

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                    LDBVDC1 - Internet - Traffic - Gi0/0
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Inbound   Current: 1.77M   Average: 3.19M   Maximum: 12.26M
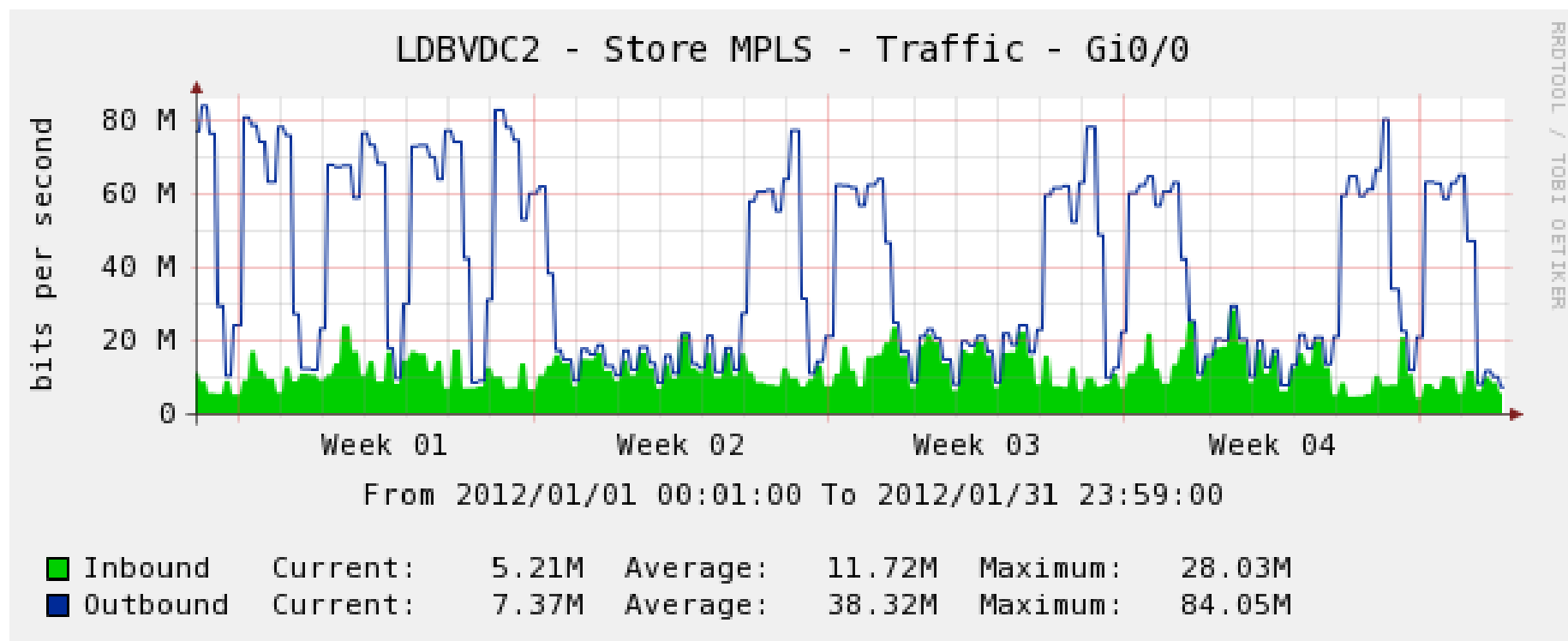Outbound   Current: 243.87k   Average: 381.39k   Maximum: 2.32M
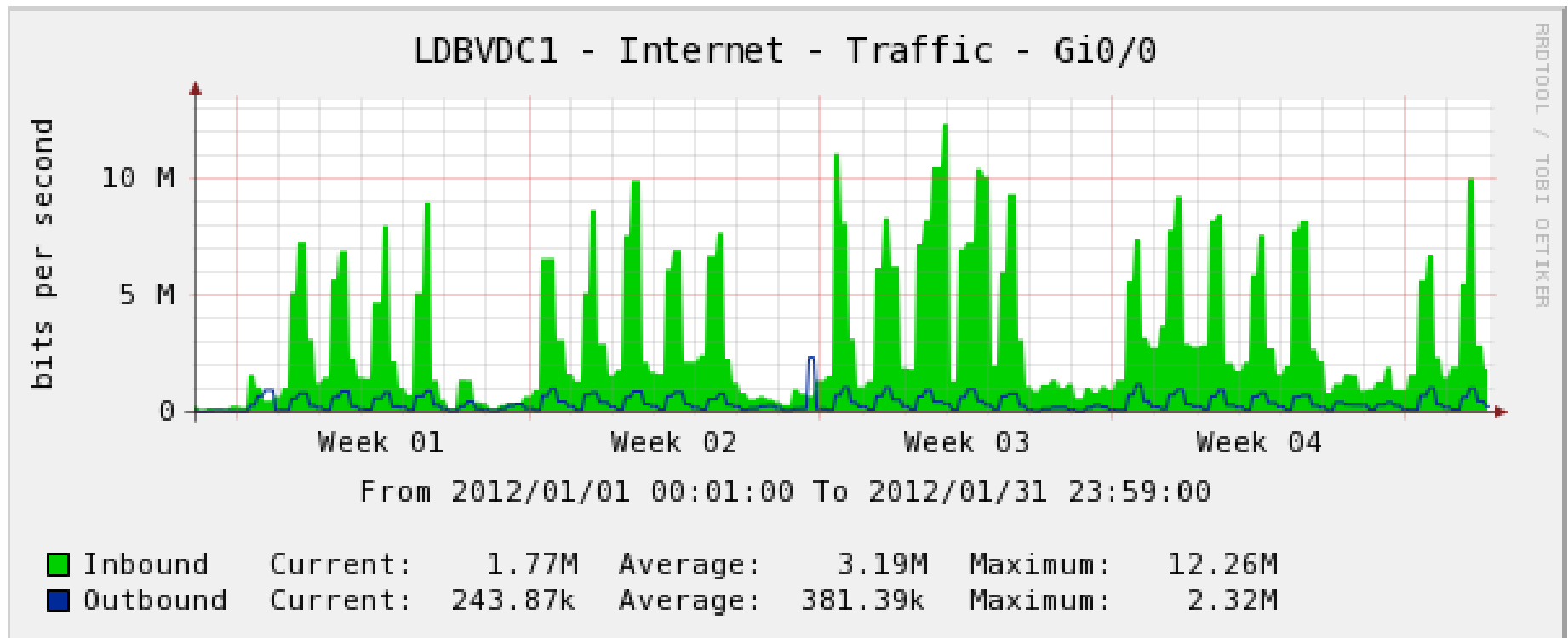
Summary: Graphical view of traffic going through Head Office to the Internet. The maximum traffic allowed is 10Mbs.

Observation: During HO core hours (8:00 to 4:30), Internet link is highly utilize and sustained at 60% of the available bandwidth. Occasionally have seen the bandwidth reach 8 MB/ second.

Recommendation: N/A

Monthly VDC Bandwidth Graphs – January 2012

Bandwidth between HO and Stores

LDBVDC2 - Store MPLS - Traffic - Gi0/0

bits per second

From 2012/01/01 00:01:00 To 2012/01/31 23:59:00

|						
▇ Inbound	Current:	5.21M	Average:	11.72M	Maximum:	28.03M
▇ Outbound	Current:	7.37M	Average:	38.32M	Maximum:	84.05M

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

Observation: The beginning of the month the graph shows high utilization because DB backup/restore (refresh) processes for FBIP and PCI projects. However outside of the DB backup/restore, store traffic e.g. ETN, store orders, patching is minimal.

Recommendation: N/A

Monthly VDC Bandwidth Graphs – January 2012

Bandwidth used for Email, DNS and any Government websites
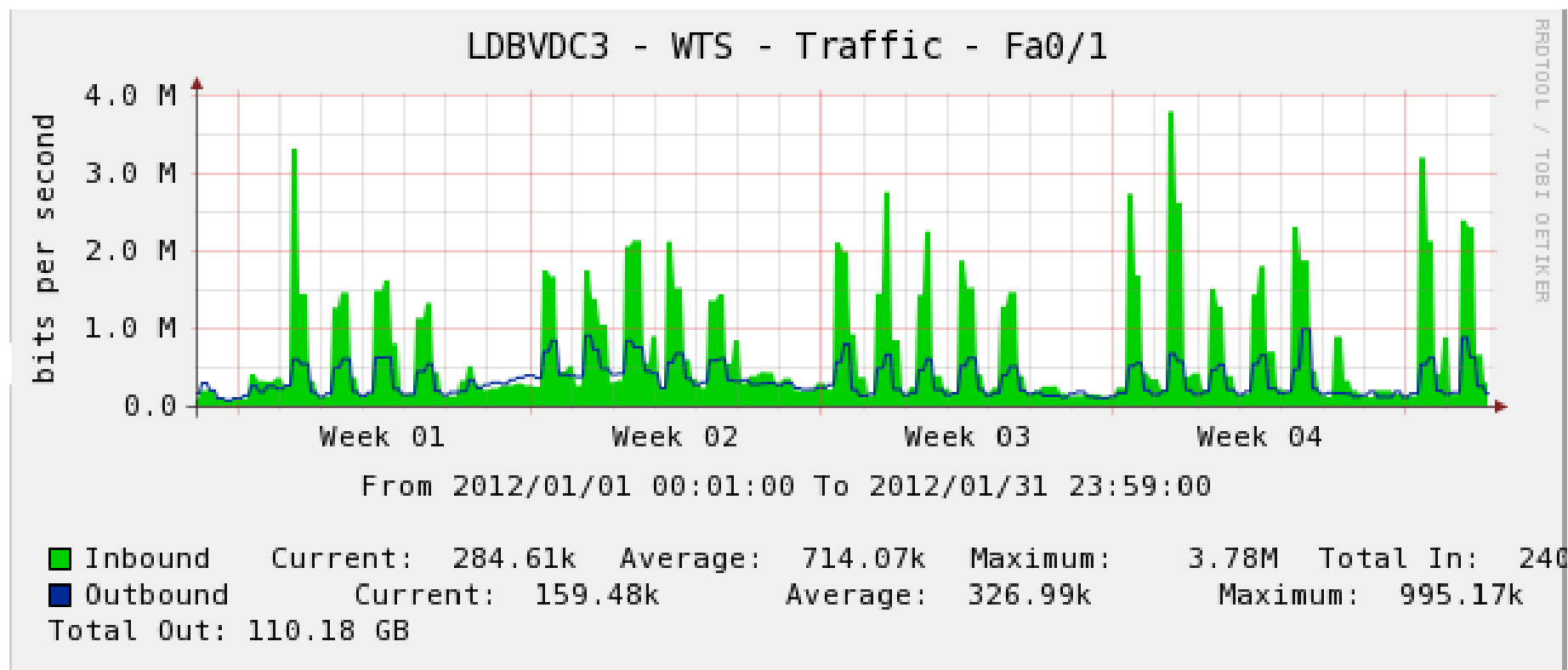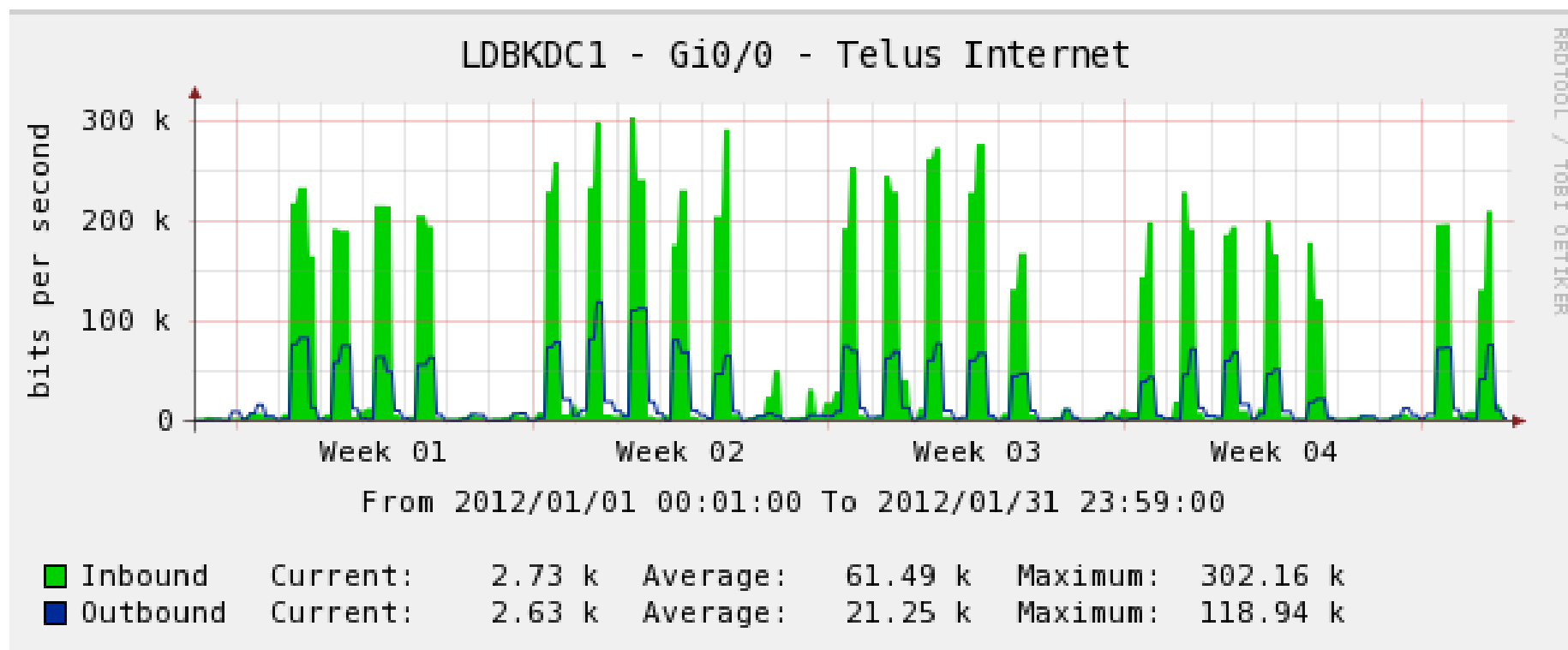

Summary: Graphical view of traffic going through WTS to Head Office via Internet.

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

Recommendation: N/A

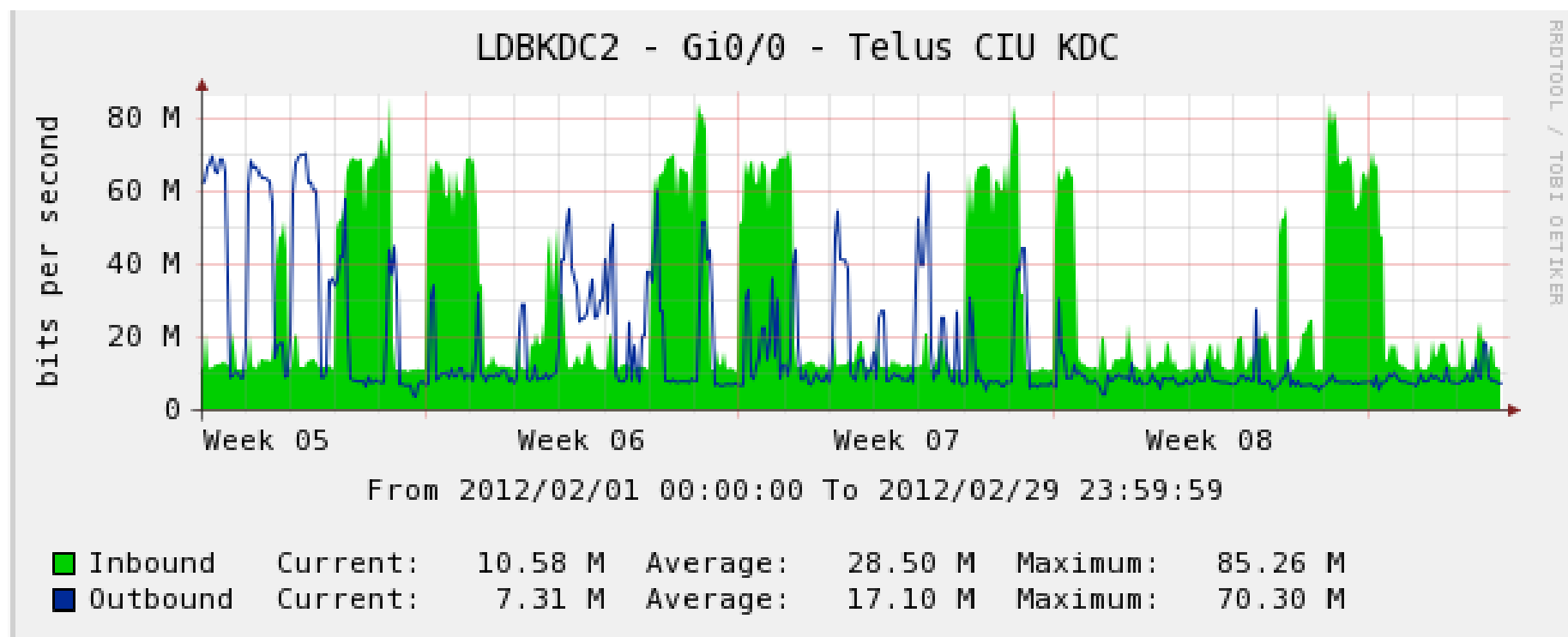# Monthly KDC Bandwidth Graphs – January 2012

Internet Bandwidth – KDC

LDBKDC1 - Gi0/0 - Telus Internet

Inbound	Current:	2.73 k	Average:	61.49 k	Maximum:	302.16 k
Outbound	Current:	2.63 k	Average:	21.25 k	Maximum:	118.94 k

From 2012/01/01 00:01:00 To 2012/01/31 23:59:00

RRDTOOL / TOBI OETIKER

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

Observation: Minimal use

Recommendation: N/A

Monthly KDC Bandwidth Graphs – January 2012
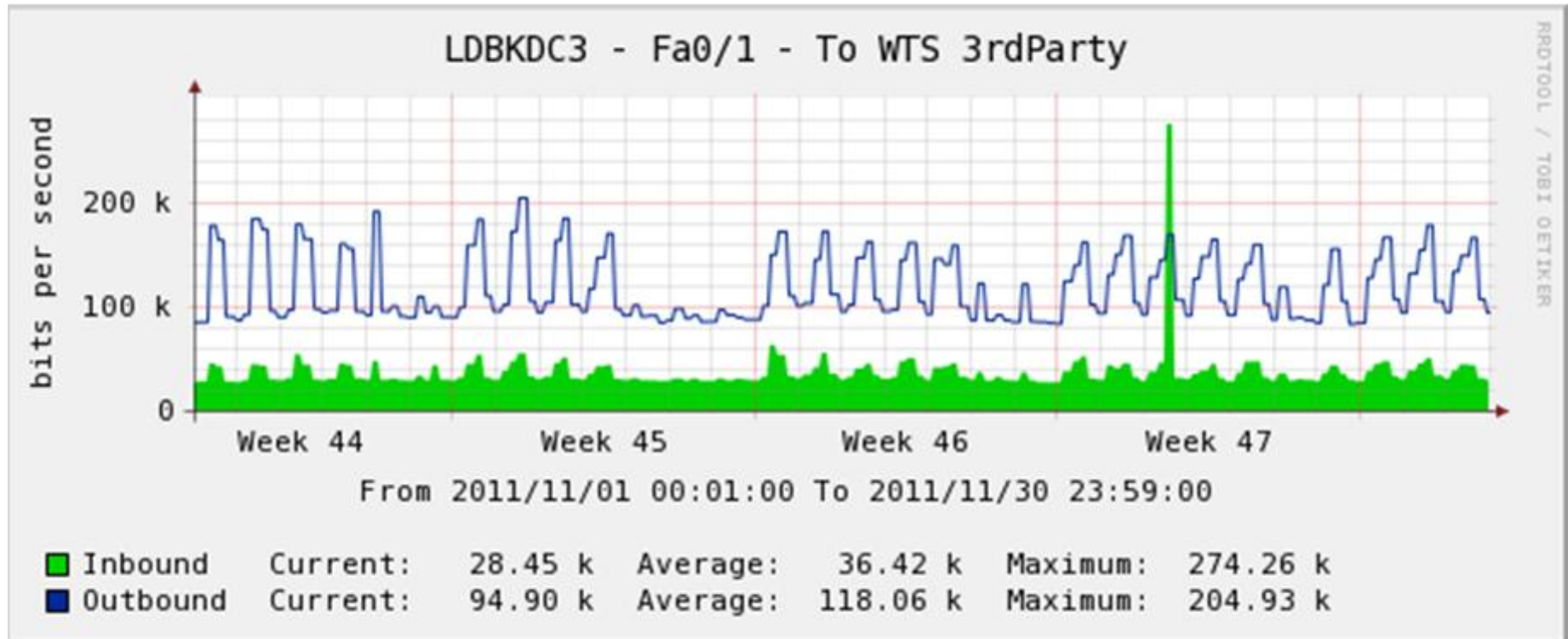
Bandwidth between KDC and Stores

LDBKDC2 - Gi0/0 - Telus CIU KDC

From 2012/02/01 00:00:00 To 2012/02/29 23:59:59

■ Inbound	Current:	10.58 M	Average:	28.50 M	Maximum:	85.26 M
■ Outbound	Current:	7.31 M	Average:	17.10 M	Maximum:	70.30 M

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

Observation: See above write-up for LDBVDC2.

Recommendation: N/A

Monthly KDC Bandwidth Graphs – January 2012

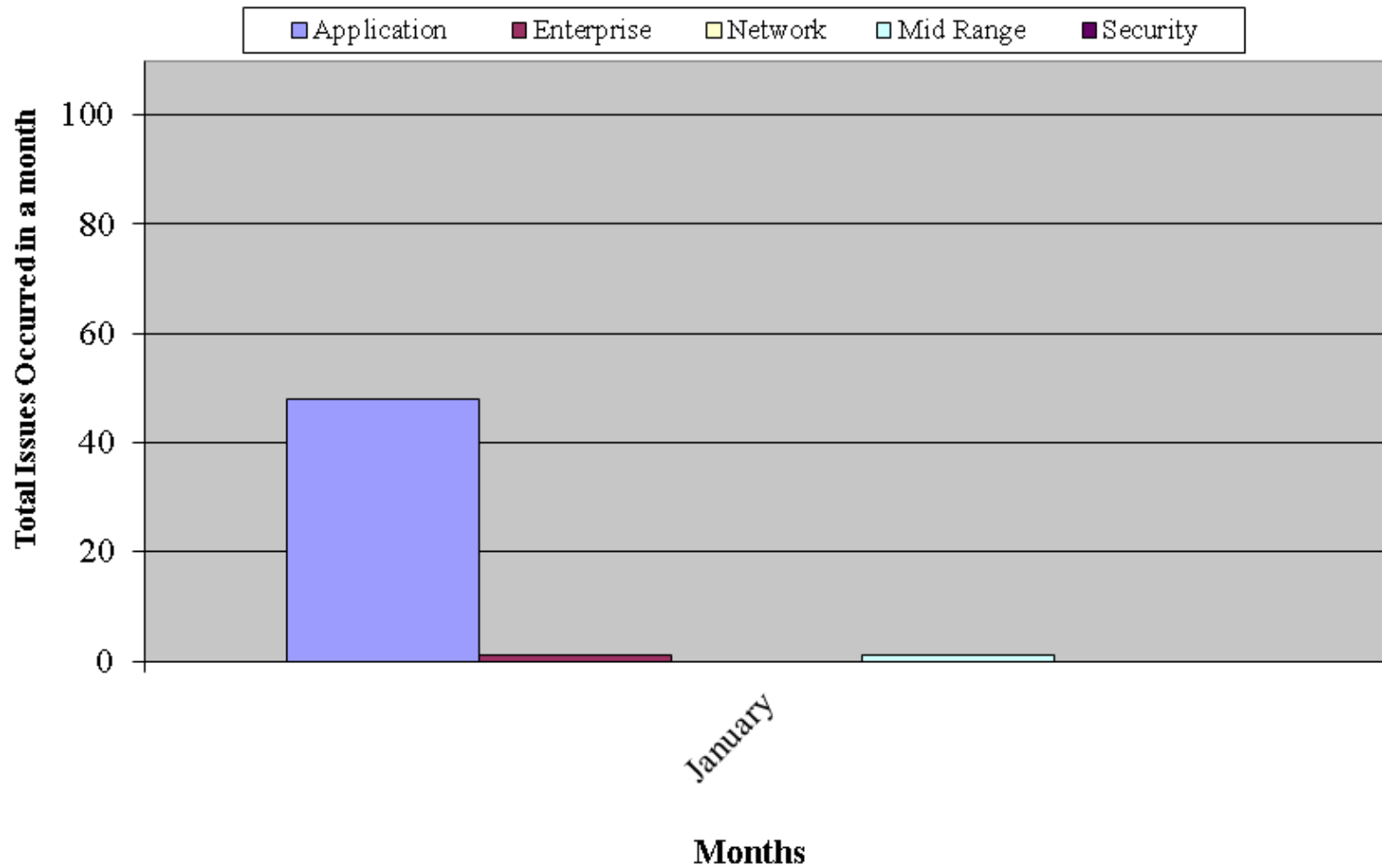# Bandwidth used for Email, DNS, and KDC via WTS

LDBKDC3 - Fa0/1 - To WTS 3rdParty

From 2011/11/01 00:01:00 To 2011/11/30 23:59:00

		Current:	Average:	Maximum:
■ Inbound	Current:	28.45 k	Average: 36.42 k	Maximum: 274.26 k
■ Outbound	Current:	94.90 k	Average: 118.06 k	Maximum: 204.93 k

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

Observation: Minimal use

Recommendation: N/A

Data Centre Production Issues 2012

Total Issues Occurred in a month

Legend: □ Application ■ Enterprise □ Network □ Mid Range ■ Security

100

80

60

40

20

0

January

Months

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

Observation: Majority are application issues of which 60% are Autosys jobs and 32% are run away process (see BMC tickets for more information) for the month of January.

Recommendation: N/A

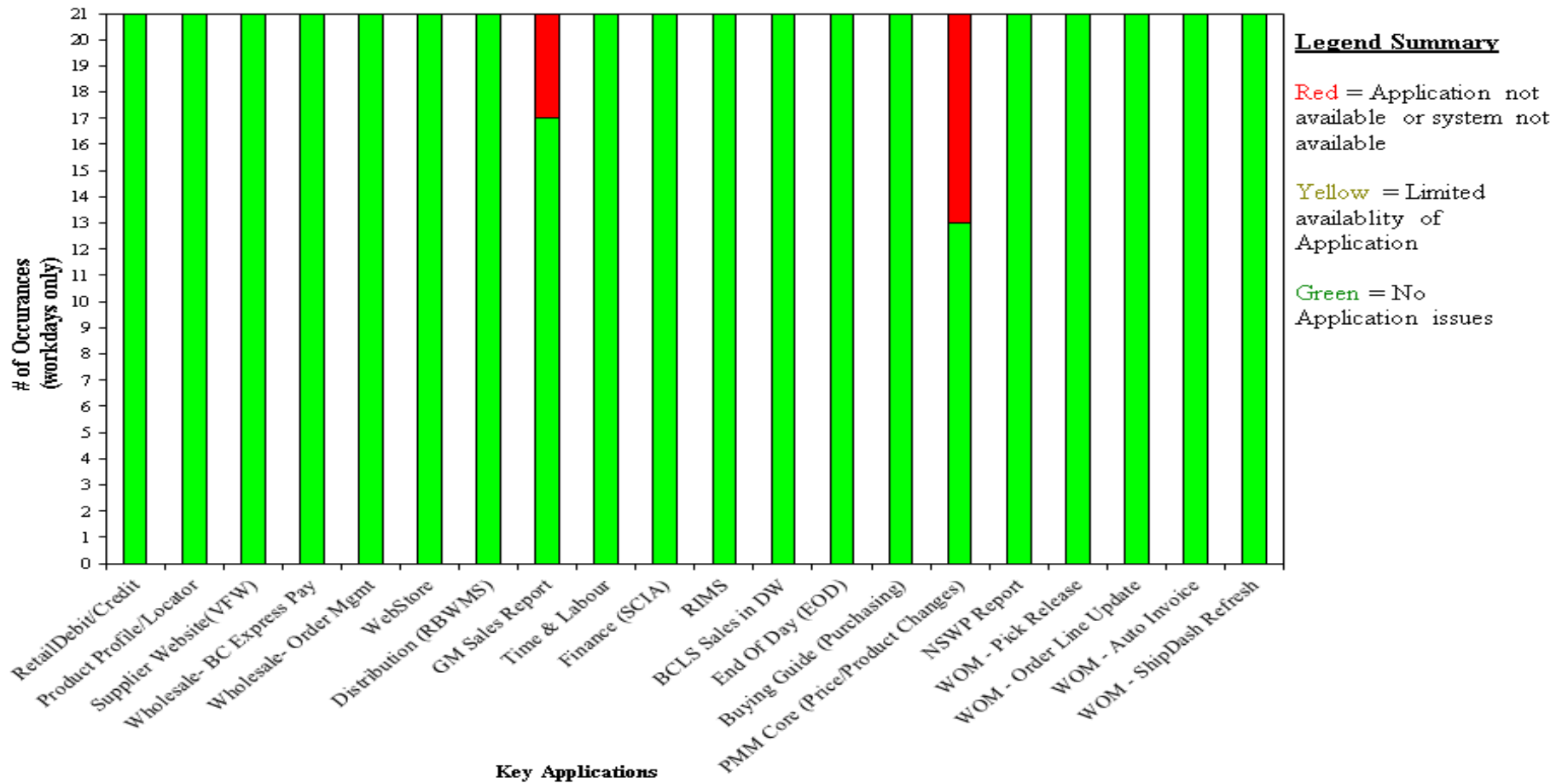# Sales – Finance Data Availability – January 2012
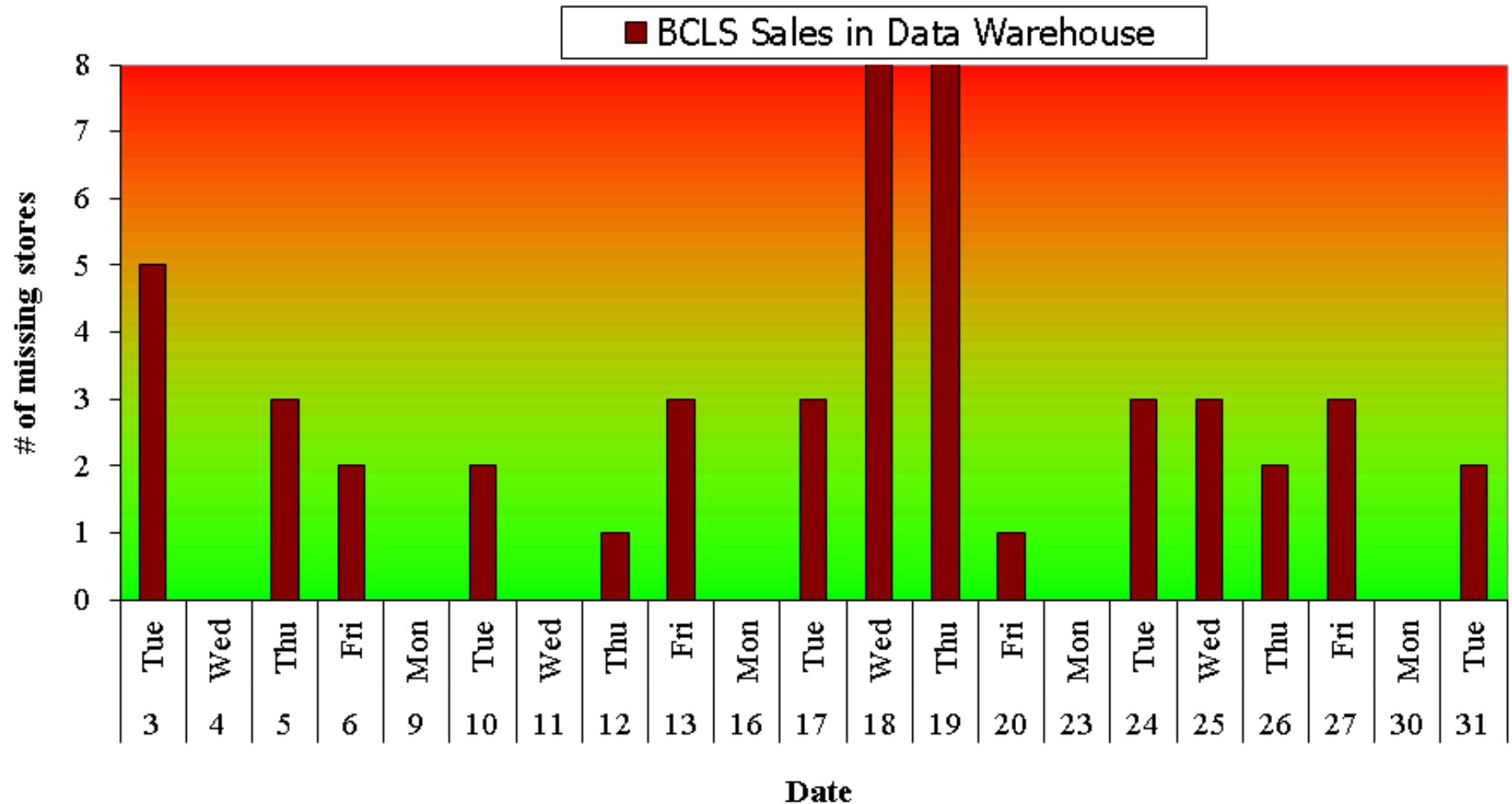
Summary: Graphical view of transmitted BCLS Stores Financial Sales Data to Head Office in Data Warehouse.

Observation: January was a month where Data Warehouse had Sales data failed twice relating to Sales Reporting issues in Data Warehouse. Refer to BMC # 462652 for details.

Recommendation: N/A

Daily Availability of Business Application – January 2012

Legend Summary

Red = Application not available or system not available

Yellow = Limited availablity of Application

Green = No Application issues

Y-axis: # of Occurances (workdays only)

X-axis: Key Applications

X-axis labels: RetailDebit/Credit, Product Profile/Locator, Supplier Website(VFW), Wholesale- BC Express Pay, Wholesale- Order Mgmt, WebStore, Distribution (RBWMS), GM Sales Report, Time & Labour, Finance (SCIA), RIMS, BCLS Sales in DW, End Of Day (EOD), Buying Guide (Purchasing), PMM Core (Price/Product Changes), NSWP Report, WOM - Pick Release, WOM - Order Line Update, WOM - Auto Invoice, WOM - ShipDash Refresh

Summary: High level graphical view of Business Applications availability.

Observation: GM Sales Report down twice (BMC # 462652) and PMM Core had issue with a SKU 621102 - See BMC # 461079 for details.

Recommendation: N/A

Autosys Jobs failed per day – January 2012
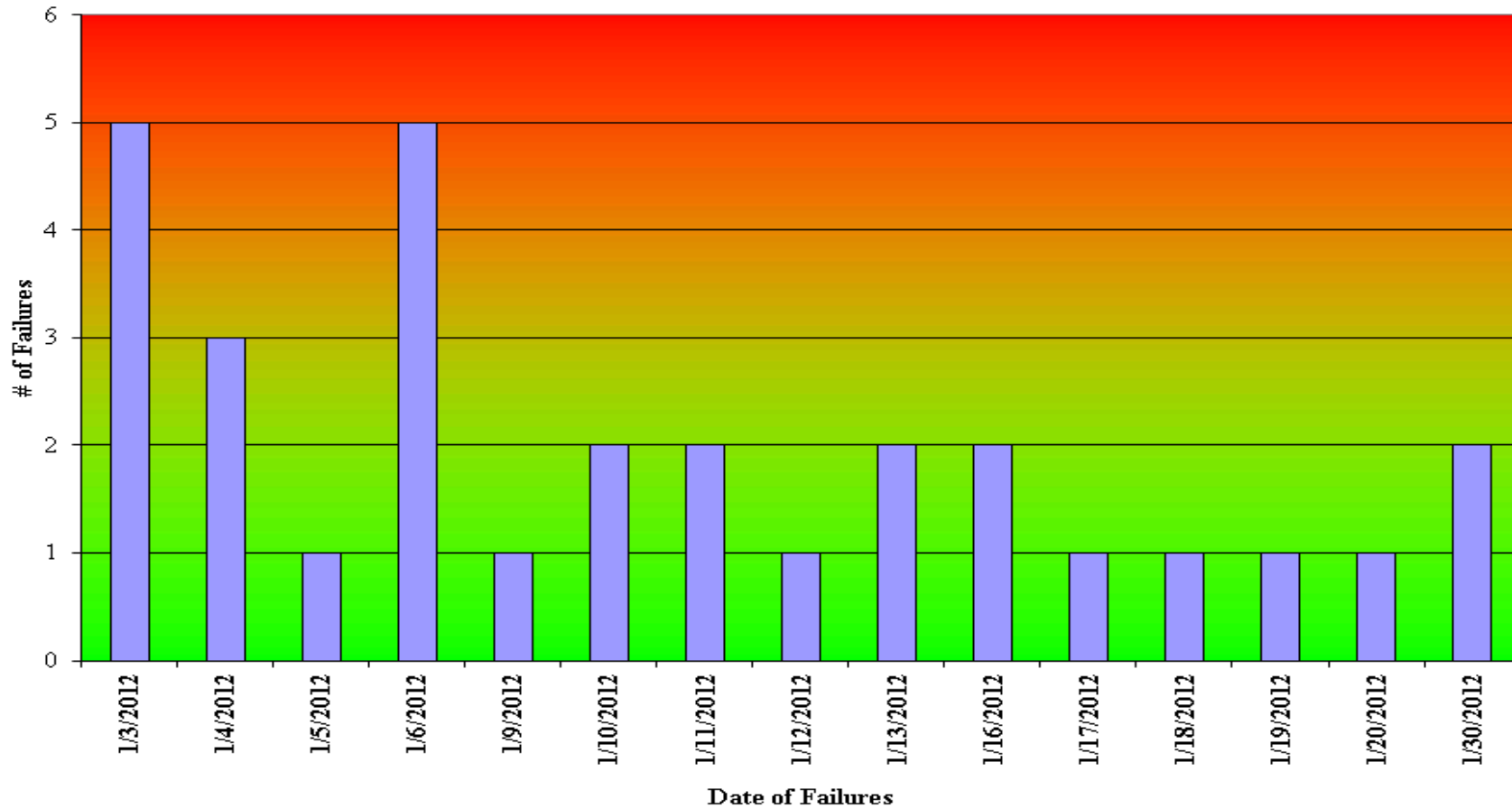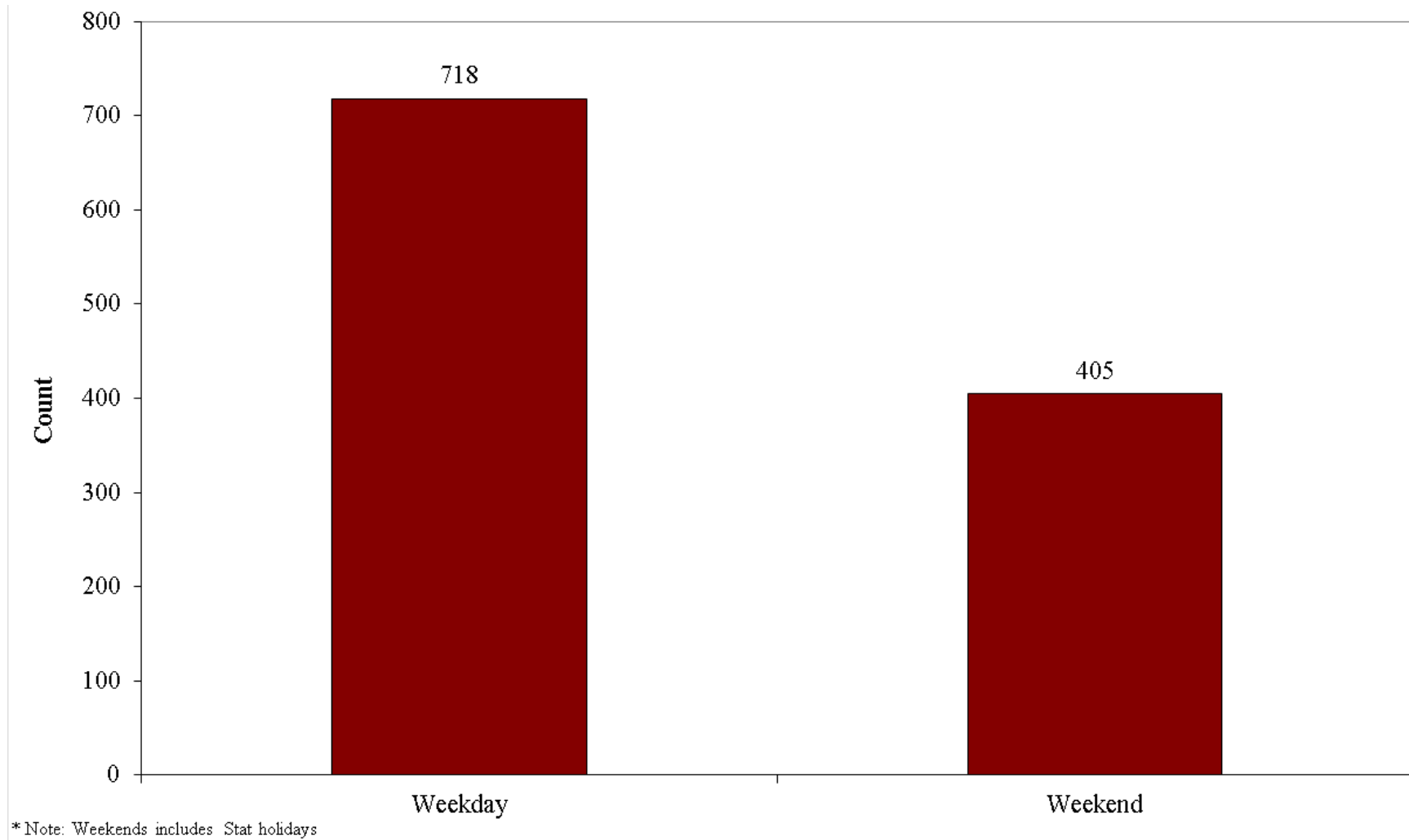

Summary: High level graphical view of Production Autosys Job failures for the month of January 2012.

Observation: No major issues occurred in the month of January. Just a few various Data Warehouse and SCIA jobs failed on 3rd and 6th of January.

Recommendation: N/A

# Remote Access on Weekday vs. Weekend – January 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 in preparation of FBIP implementation.

Recommendation: N/A

Remote Access by Hour of Day – January 2012

Login by Connectra
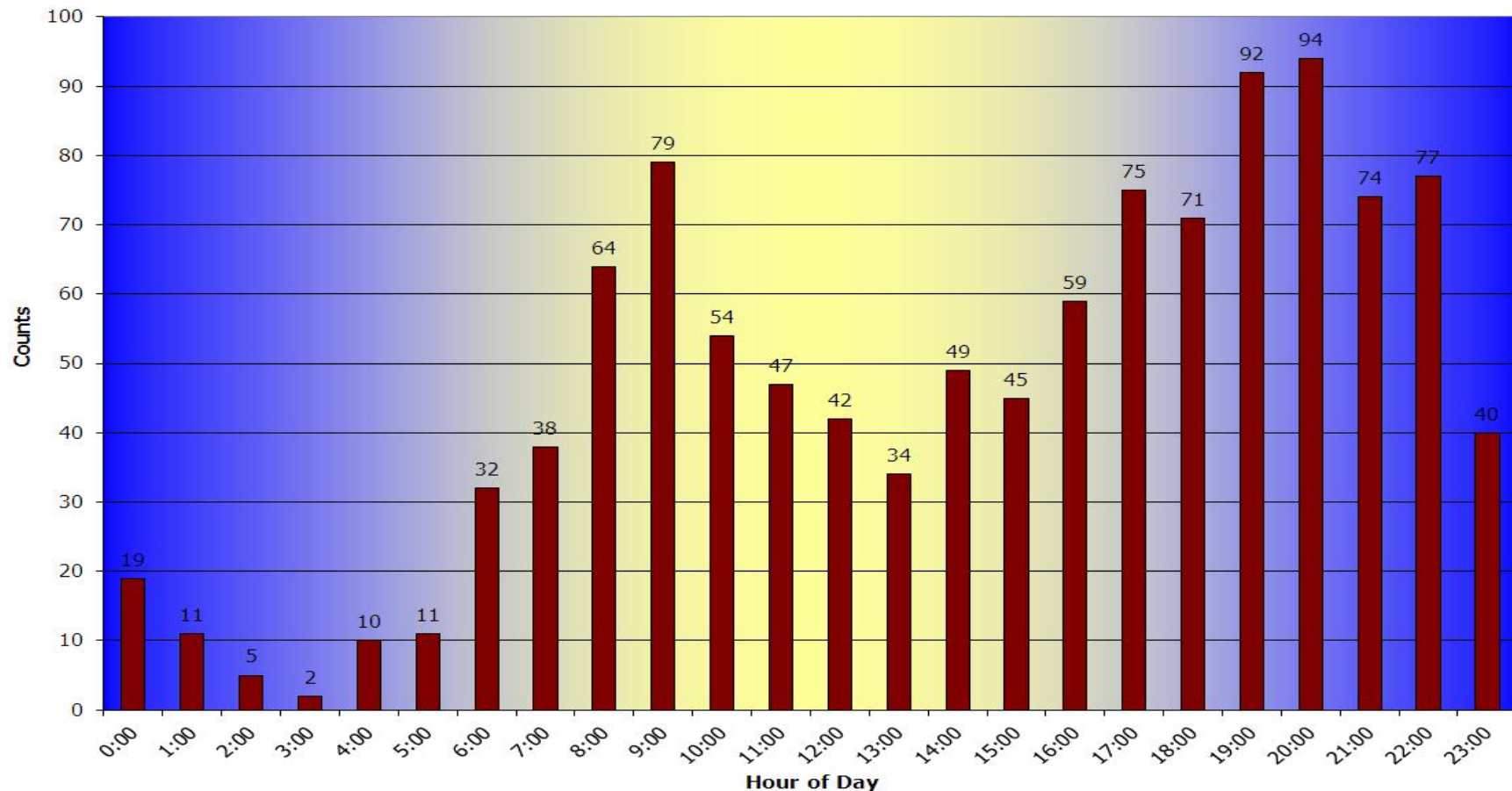
Summary: High level graphical view of Users remotely accessing Head Office resources shown in hours of the day for the month of January 2012.
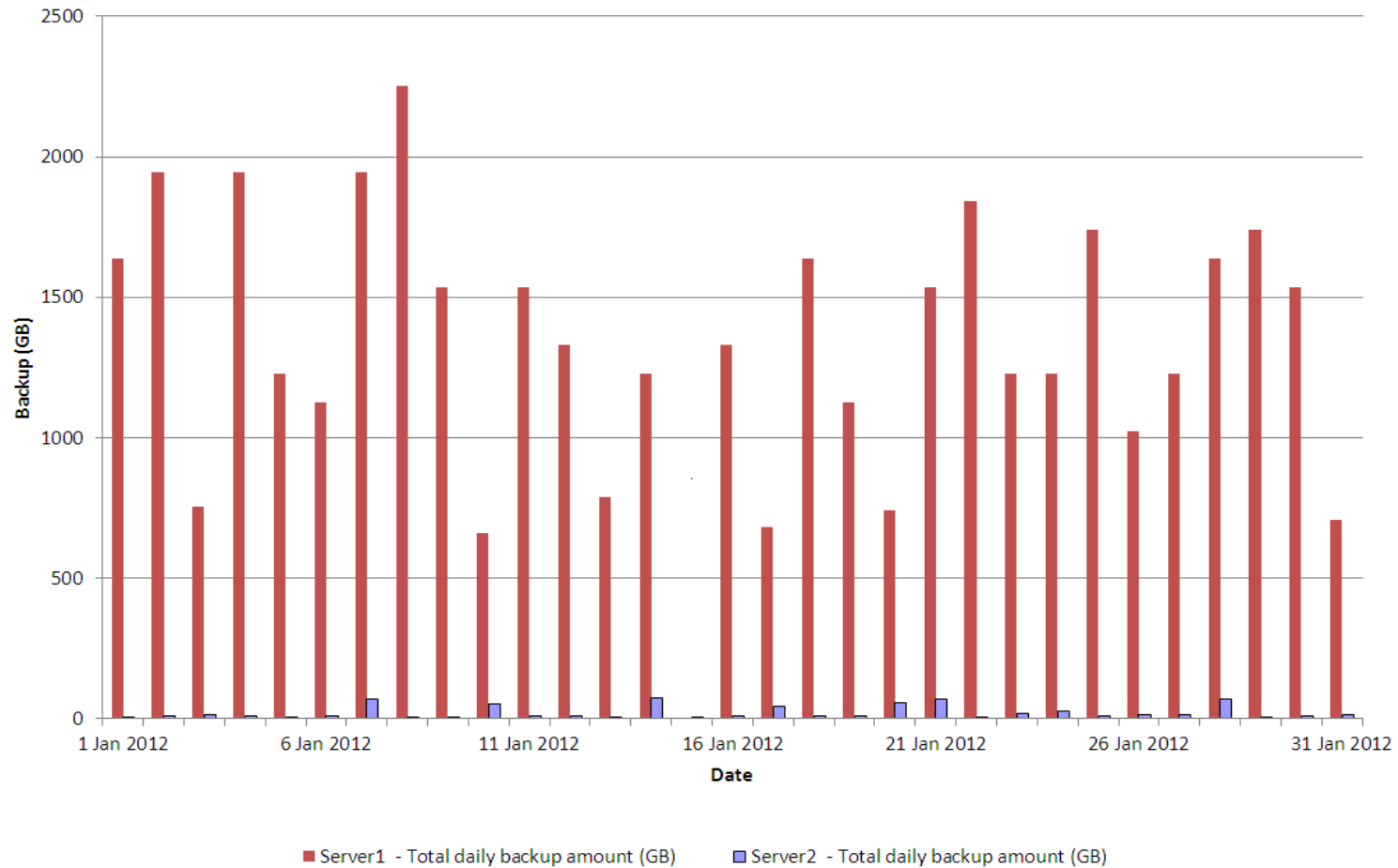
Observation: More people accessing Head Office resources in the morning (between 8am – 11am) and again in the afternoon thru to the late evening (2pm – 10pm). *** Note: Currently capacity for concurrent users is 50.

Recommendation: N/A

Total Daily Backup Amount (GB) – January 2012

Legend: ■ 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 January.
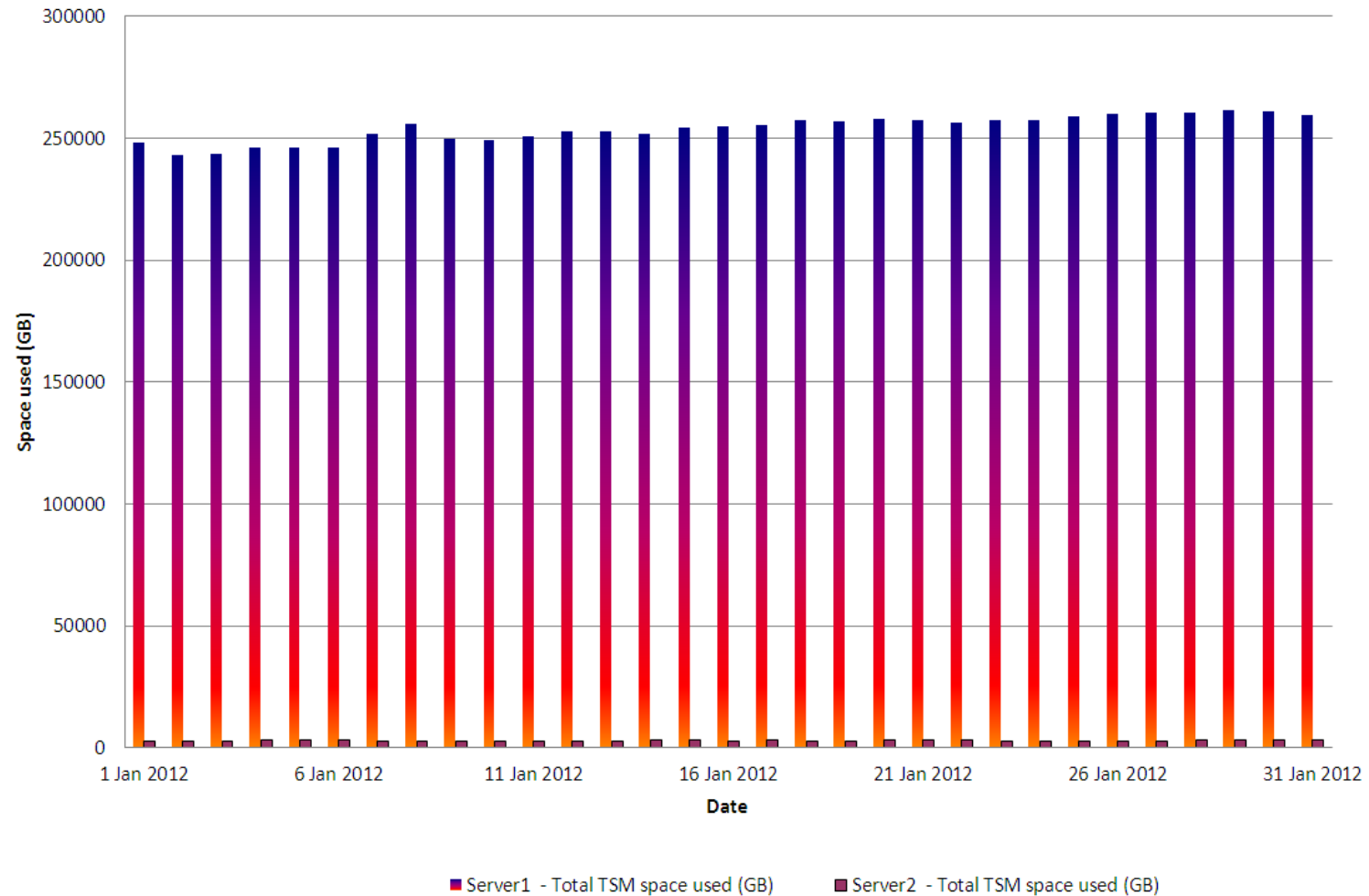
Observation: January 5th − 2.2TB of SAN storage data was backed up on TSM. 1.5TB of SAN storage as transitional data constantly increases/decreases as data is migrated to tape.

Recommendation: N/A

Total TSM Space Used (GB) – January 2012

Summary: High level graphical view of data stored on TSM per day for the month of January.
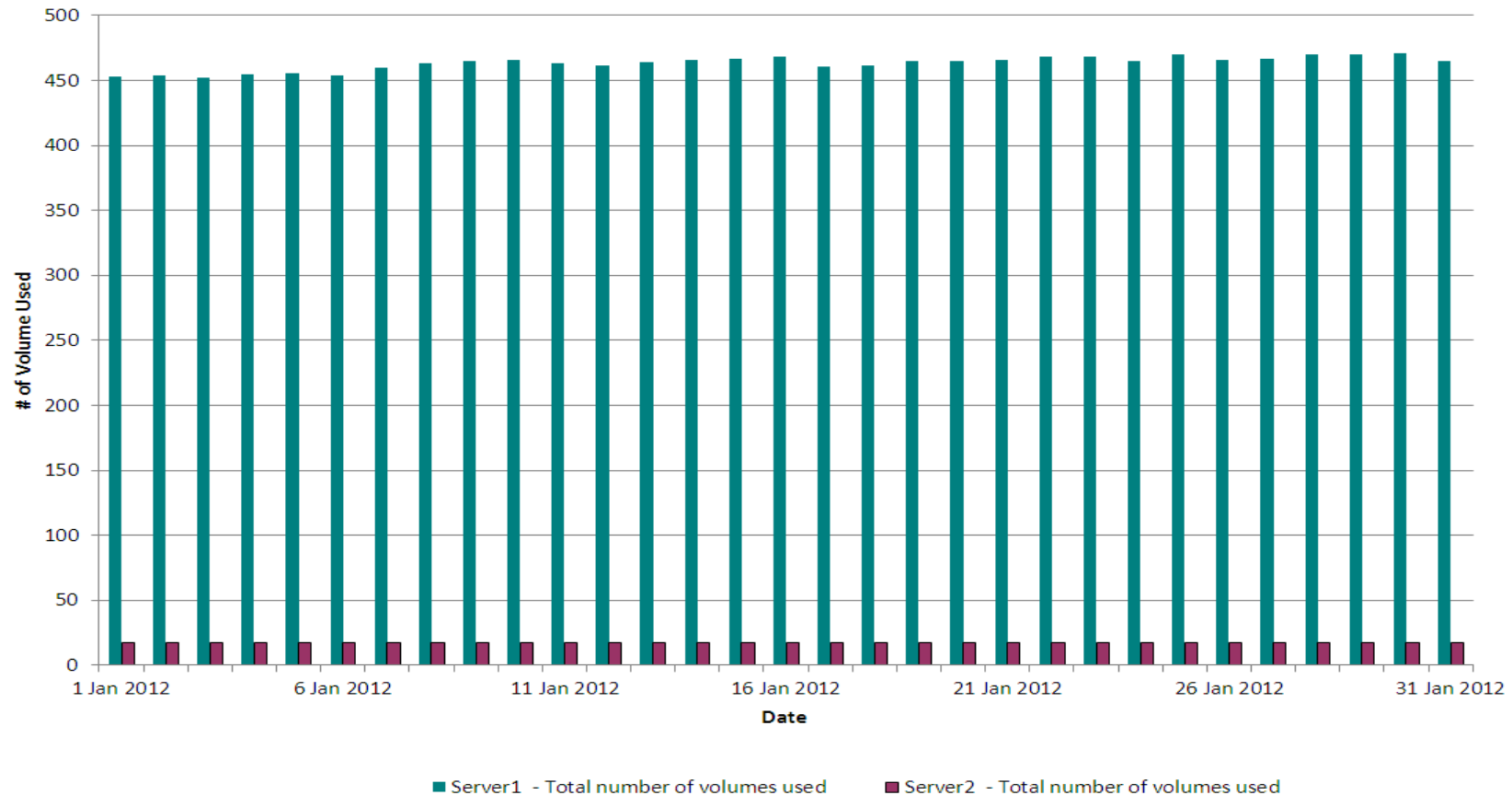
Observation: Space used is relatively the same however as data of Oracle database has grown so is space required to be backed up.

Recommendation: Not applicable

Total Number of Volumes Used – January 2012

Server1 - Total number of volumes used ■   Server2 - Total number of volumes used ■

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

Observation: Currently there is 456 tape volumes used by TSM to backup data which includes combination of LTO3 and LTO4. This includes tapes stored offsite. 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 – October 2011
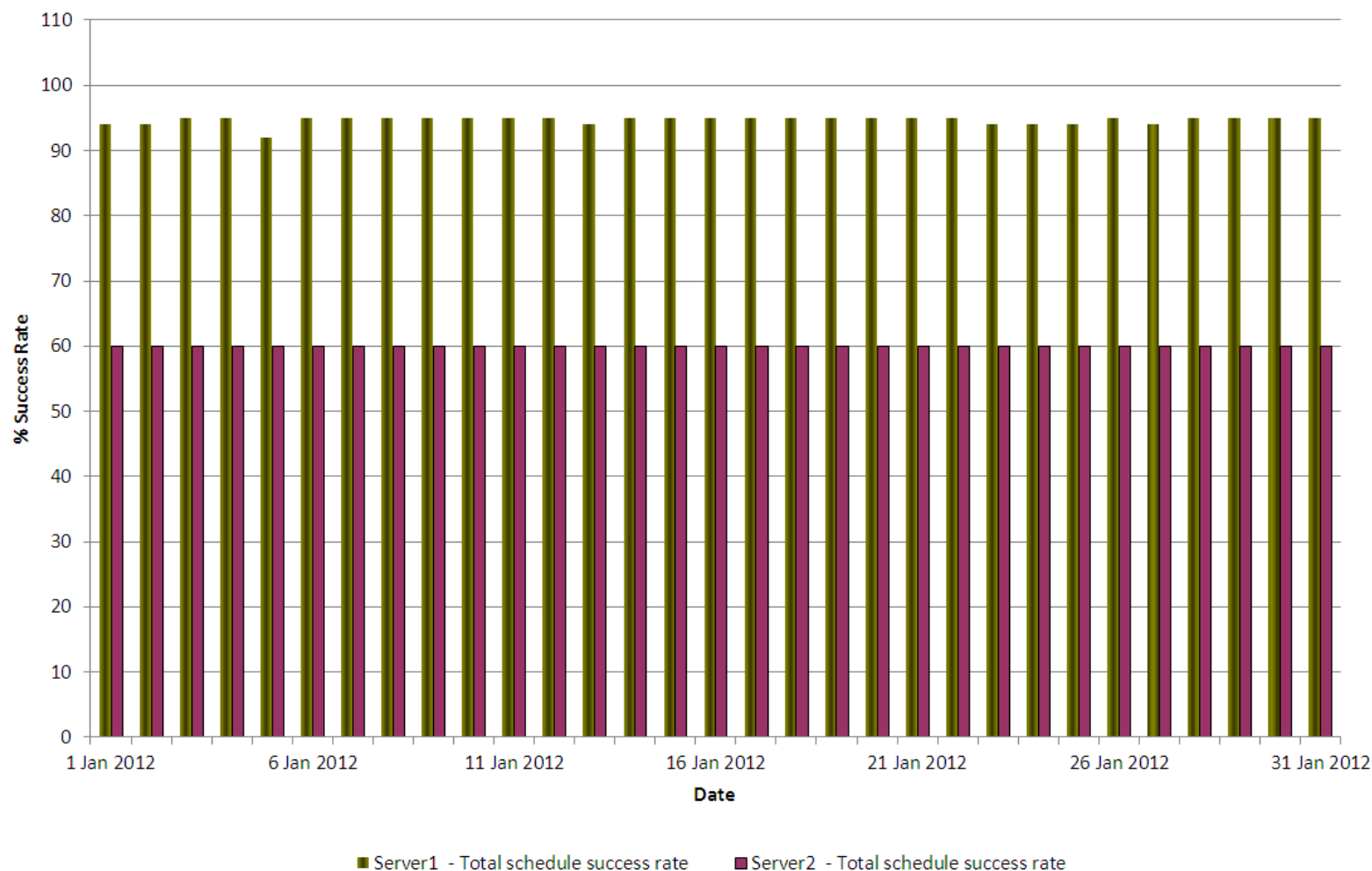
Legend: ■ Server1 - Total schedule success rate ■ Server2 - Total schedule success rate

Summary: High level graphical view of TSM being successful in completing the backups on a daily basis for the month of Janurary.
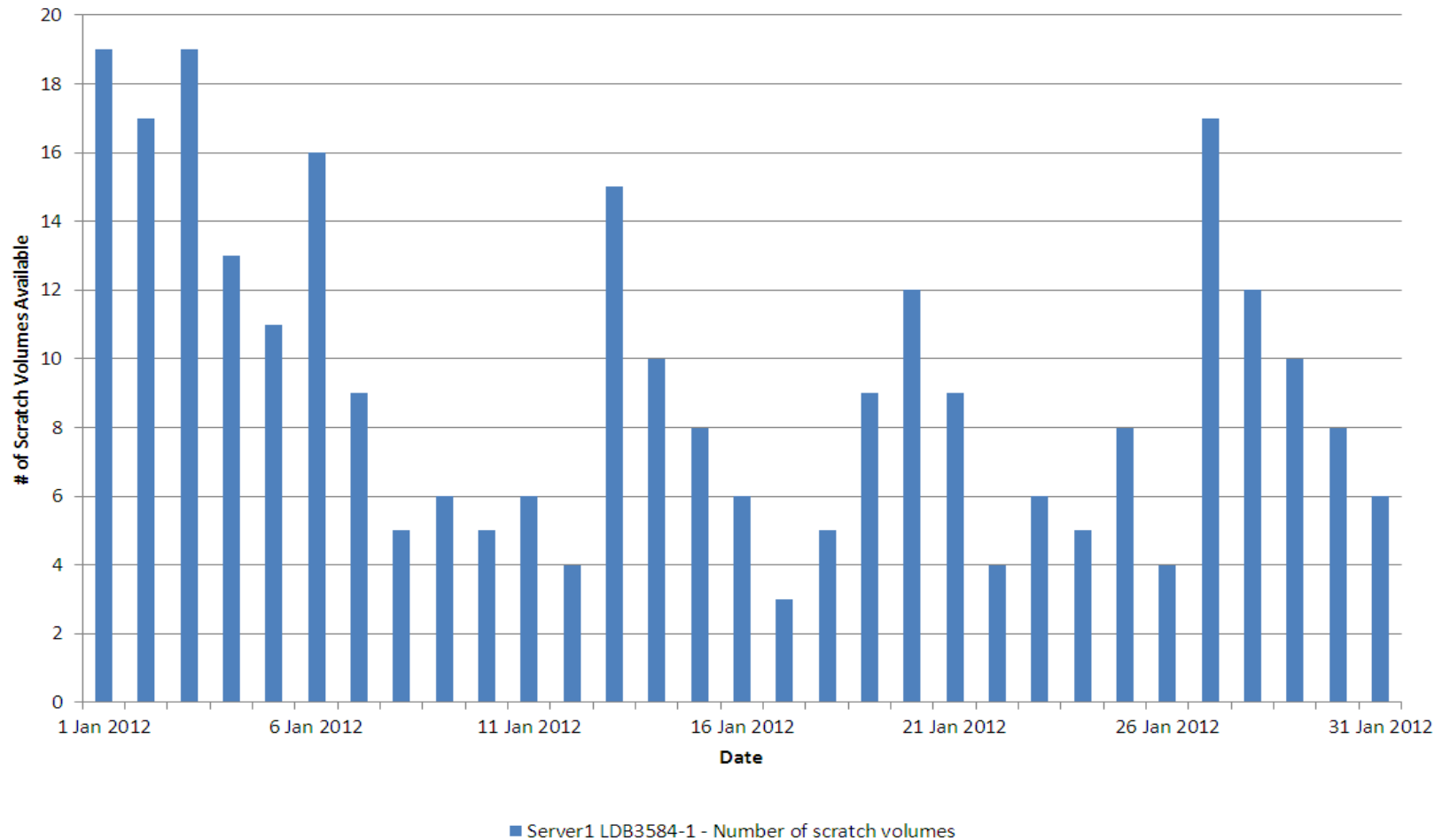
Observation: Current known client failures are servers LDBPD01, LDBPD02, KDCTDFS01 and KDCTDFS01 are having problems.

Recommendation: Not applicable

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

Server1 LDB3584-1 - 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 January.

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). January 1 and 3rd – 19 scratch volumes were available due to the long weekend.

Recommendation: Not applicable

Daily TSM Utilization (%) – January 2012

Server1 LDB3584-1 - Daily utilization (%)
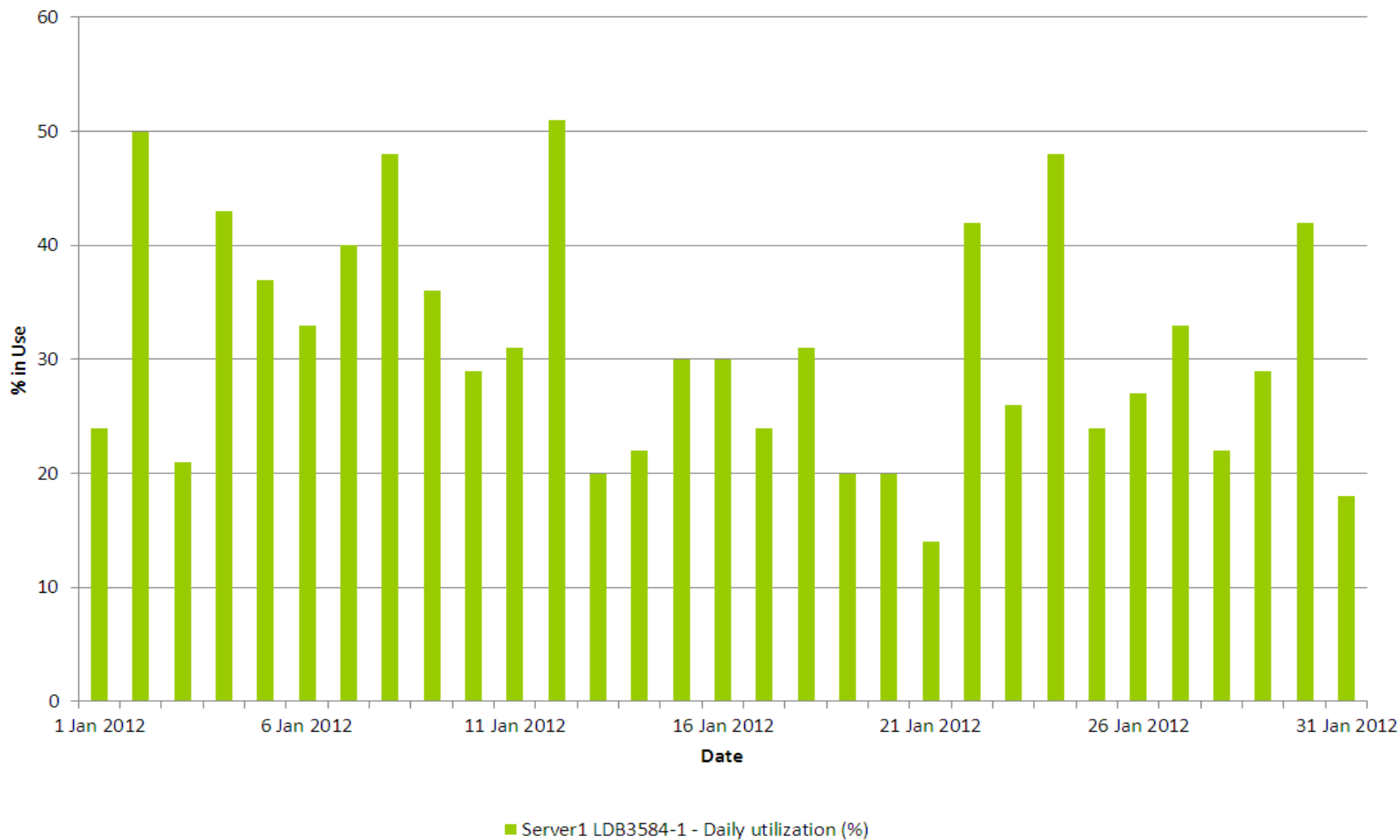
Summary: High level graphical view of TSM Tapes being mounted each day for the month of January.

Observation: TSM is highly utilized on the weekends

Recommendation: N/A

End of Data Centre Chart Analysis
for January 2012