# **Monthly Metrics Review**

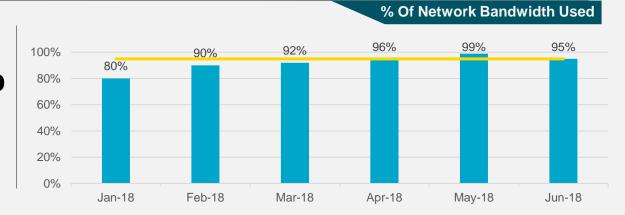
MONTH - YEAR

# **Monthly Metrics Overview**

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95.00%

June'18 % Of **Network Bandwidth** Used **Target (95%)** 



**Metrics** 

Metrics	May '18	Jun '18	Trend
Average Time to fix connectivity problems (mins) (Target: 50 mins)	60	80	150 100 50 0 Jan-18 Feb-18 Mar-18 Apr-18 May-18 Jun-18
Average international packet loss percentage (Target: 3%)	6%	6%	8% 6% 4% 2% 0% Jan-18 Feb-18 Mar-18 Apr-18 May-18 Jun-18
Average national packet loss percentage (Target: 2%)	2%	3%	5% 4% 3% 2% 1% 0% Jan-18 Feb-18 Mar-18 Apr-18 May-18 Jun-18

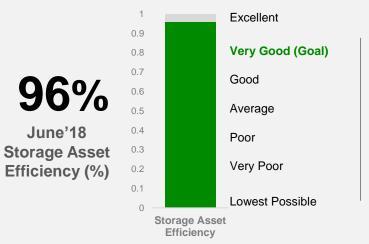
#### **TI&S Portfolio**

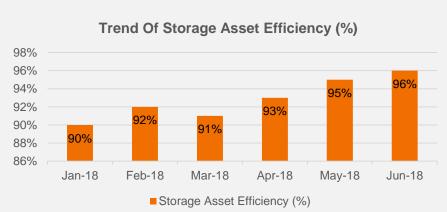
### Top Inflight Initiatives (by \$\*\*)

1	Product X	\$3.8 M	
2	Product Y	\$3.2 M	
3	Product Z	\$1.7 M	
4	Product A	\$1.7 M	
5	Product B	\$1.5 M	
6	Product C	\$900 K	
7	Product D	\$860 K	

- > A computer network is a data communications system which interconnects computer systems at various different sites. A network may be composed of any combination of LANs, or WANs.
- > % of network bandwidth used
- Gap between actual network usage and maximum capacity of the network.
- > Average Time to fix connectivity problems
  - Average time, in hours, in your corporation to fix network connectivity problems
- > Average international packet loss %
- Average international packet loss percentage.
- Average national packet loss %
- Average national packet loss percentage.







#### **Metrics**

KPI	May '18	Jun '18	Trend
Percentage of (assigned) disk space quota used	99%	98%	100% 90% 80% 70% Jan-18 Feb-18 Mar-18 Apr-18 May-18 Jun-18
# of FTE per size of storage under management	3.6	4.2	6 4 2 0 Jan-18 Feb-18 Mar-18 Apr-18 May-18 Jun-18

- > The process of storing information in a computer memory or on a magnetic tape or disk
- > % of (assigned) disk space quota used
  - Percentage of assigned disk space quota used relative to the total assigned disk space quota.
- > Storage Asset Efficiency %
- Storage asset efficiency percentage. Usage percentage of the current capabilities divided by a reference capability.
- > # of FTE per size of storage under management
- of Full time equivalent employees (FTE) per Gb or Tb of storage under management

## **Corporate average data efficiency (CADE)**



#### **CADE Index**

1-3 **Red** 4-7 Yellow

## Significant Data Center Projects/Initiatives



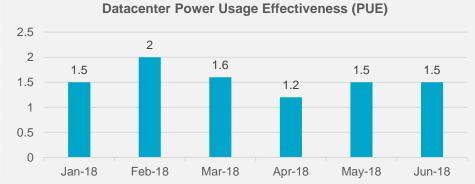
- DC1 capacity increase
- Addition of xyz service to DC2



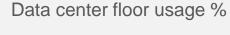
DC3 setup plan approved

## **Datacenter Power Usage Effectiveness (PUE)**

PUE	DCiE	Level of Efficiency
3.0	33%	Very Inefficient
2.5	40%	Inefficient
2.0	50%	Average
1.5	67%	Efficient
1.2	83%	Very Efficient



### Data Center Floor Usage (%) Over Time

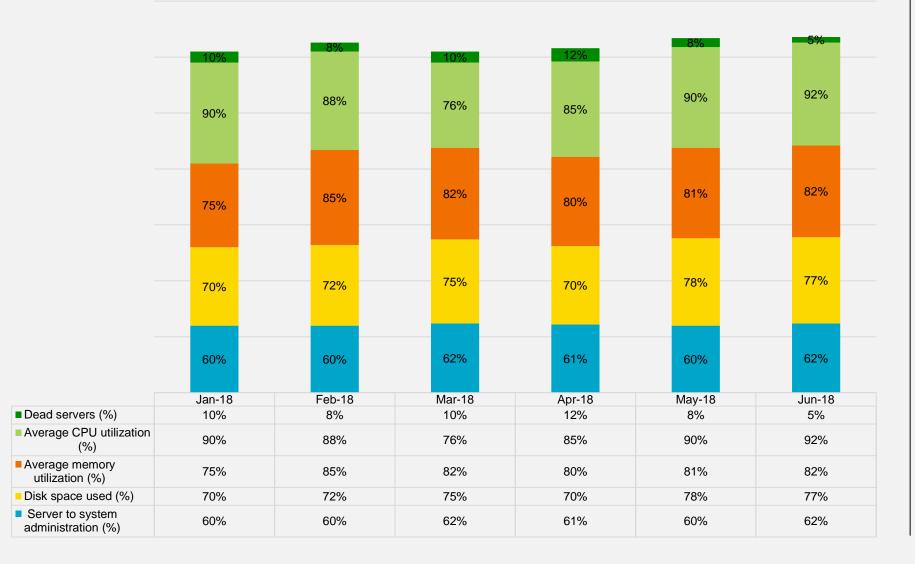




- > A facility used for housing a large amount of computer and communications equipment maintained by an organization for the purpose of handling the data necessary for its operations.
- Corporate average data efficiency (CADE)
  - Corporate average data efficiency (CADE) measures data center efficiency across the corporate footprint.
- > Data center floor usage %
- Data center floor space utilization percentage.
- > Average data center rack utilization
- Percentage of rack space in use.
- > Datacenter power usage effectiveness (PUE)
- PUE is calculated by dividing the total power usage of a data center by the power usage of IT equipment (computer, storage, and network equipment as well as switches, monitors, and workstations to control the data center).

# **System Metrics**

### **Multiple Systems Summary/Metircs**



## **Summary / Actions**

#### > % of "dead" servers

• Percentage of "dead" servers i.e. servers that are not used based on for example hardly any CPU utilization.

#### ➤ Server to System Administration Ratio

Server to System Administration Ratio

#### > % of disk space used

Percentage of disk space used.

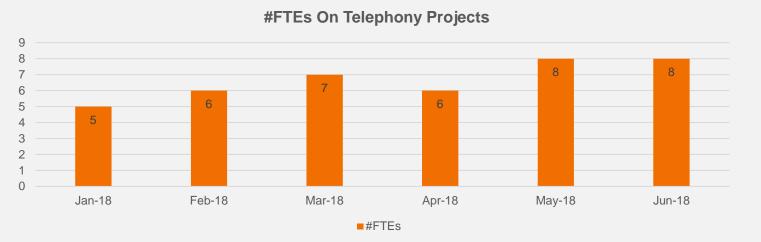
#### > Average % of memory utilization

 Average percentage of utilization of memory capacity of system within measurement period.

#### > Average % of CPU utilization

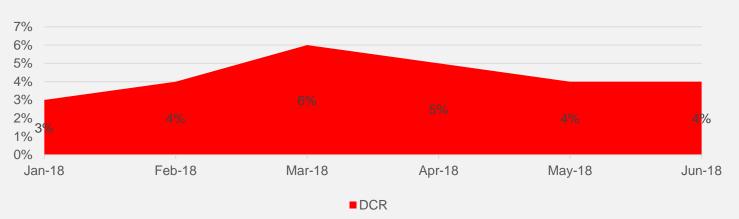
 Average percentage of utilization of CPU of system during the measurement period.

## **Total FTEs On Telephony Projects**



**Dropped % Telephone Calls (DCR)** 

# **Dropped % Telephone Calls (DCR)**



# **Mean Opinion Score (MOS)**



## **Summary / Actions**

## ➤ Mean Opinion Score (MOS)

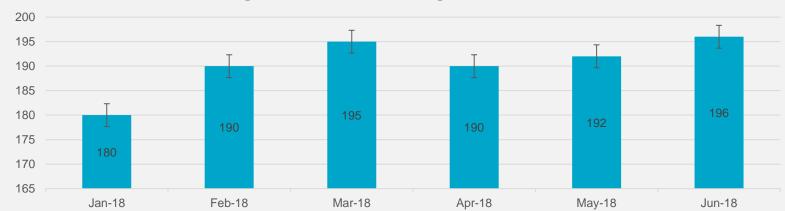
• In multimedia (audio, voice telephony, or video) especially when codecs are used to compress the bandwidth requirement (for example, of a digitized voice connection from the standard 64 kilobit/second PCM modulation), the Mean Opinion Score (MOS) provides a numerical indication of the perceived quality of received media after compression and/or transmission. The MOS is expressed as a single number in the range 1 to 5, where 1 is lowest perceived quality, and 5 is the highest perceived quality. (MOS tests for voice are specified by ITU-T recommendation P.800)

#### > % of dropped telephone calls (DCR)

· Percentage of telephone calls that were not regularly ended due to technical failure, relative to all telephone calls within the measurement period.

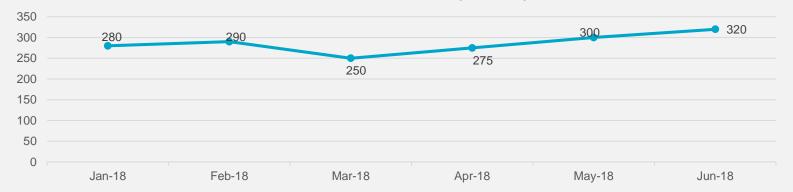
# Virtual images per administrator

# **Average Number Of Virtual Images Per Administrator**



## **Mean Time To Provision**

## **Mean Time To Provision (minutes)**



- > In computing, virtualization is a broad term that refers to the abstraction of computer resources. Virtualization hides the physical characteristics of computing resources from their users, be they applications, or end users.
- > Average number of virtual images per administrator
  - Average number of virtual images per administrator. According to IDC, the average VM to administrator ratio, or average number of virtual images per administrator, is 200.
- > Mean time to provision
- The average time that it takes to add additional services (e.g. storage) to an environment after the new additional service is requested

# **Appendix For More Data Insights**