

# SDCC Network Operations Status Report (July 2, 2020)

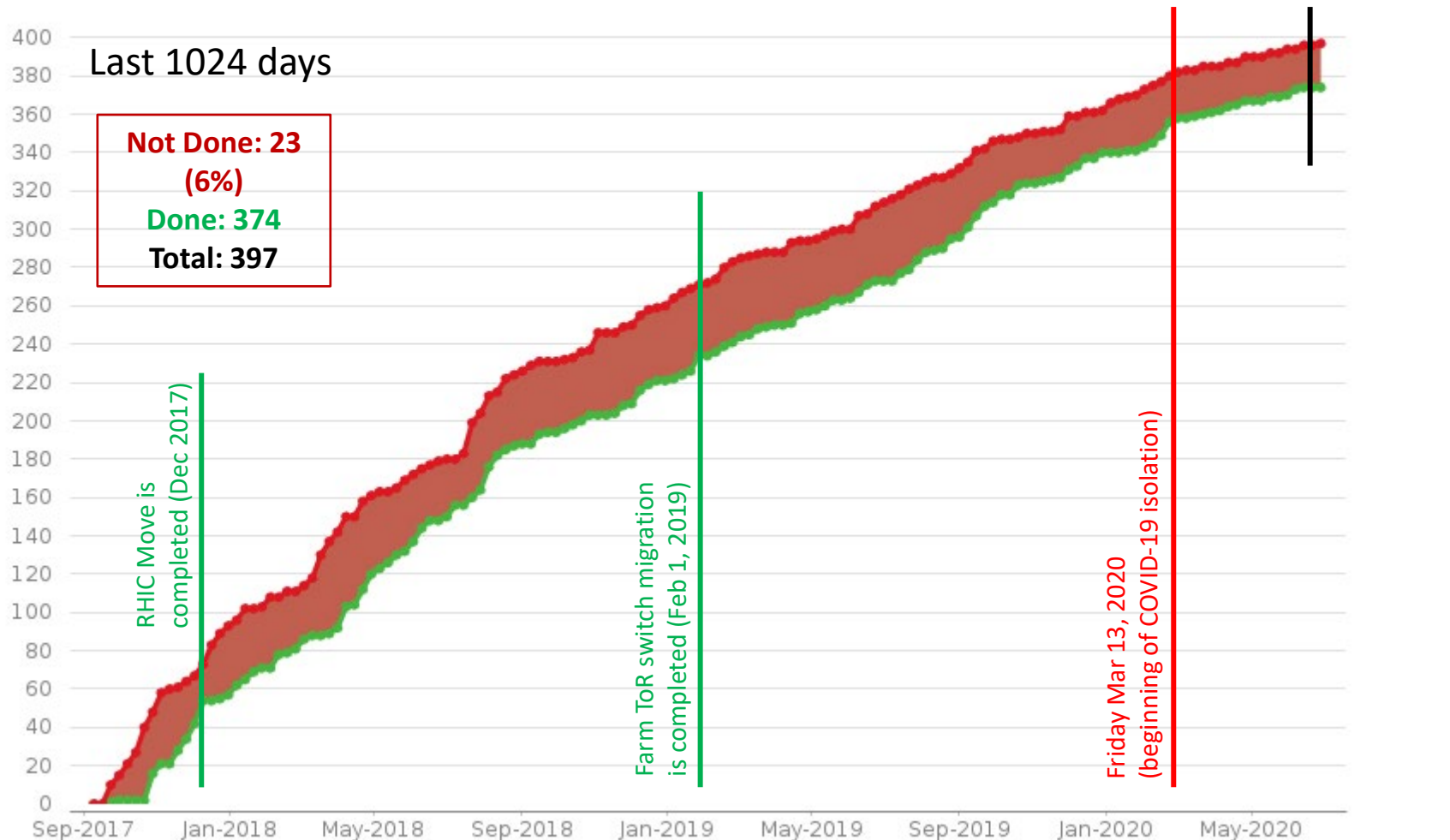
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## Project: SDCC Network Operations & Interventions

### Chart

This chart shows the number of issues **created** vs. the number of issues **resolved** in the last **1024** days.

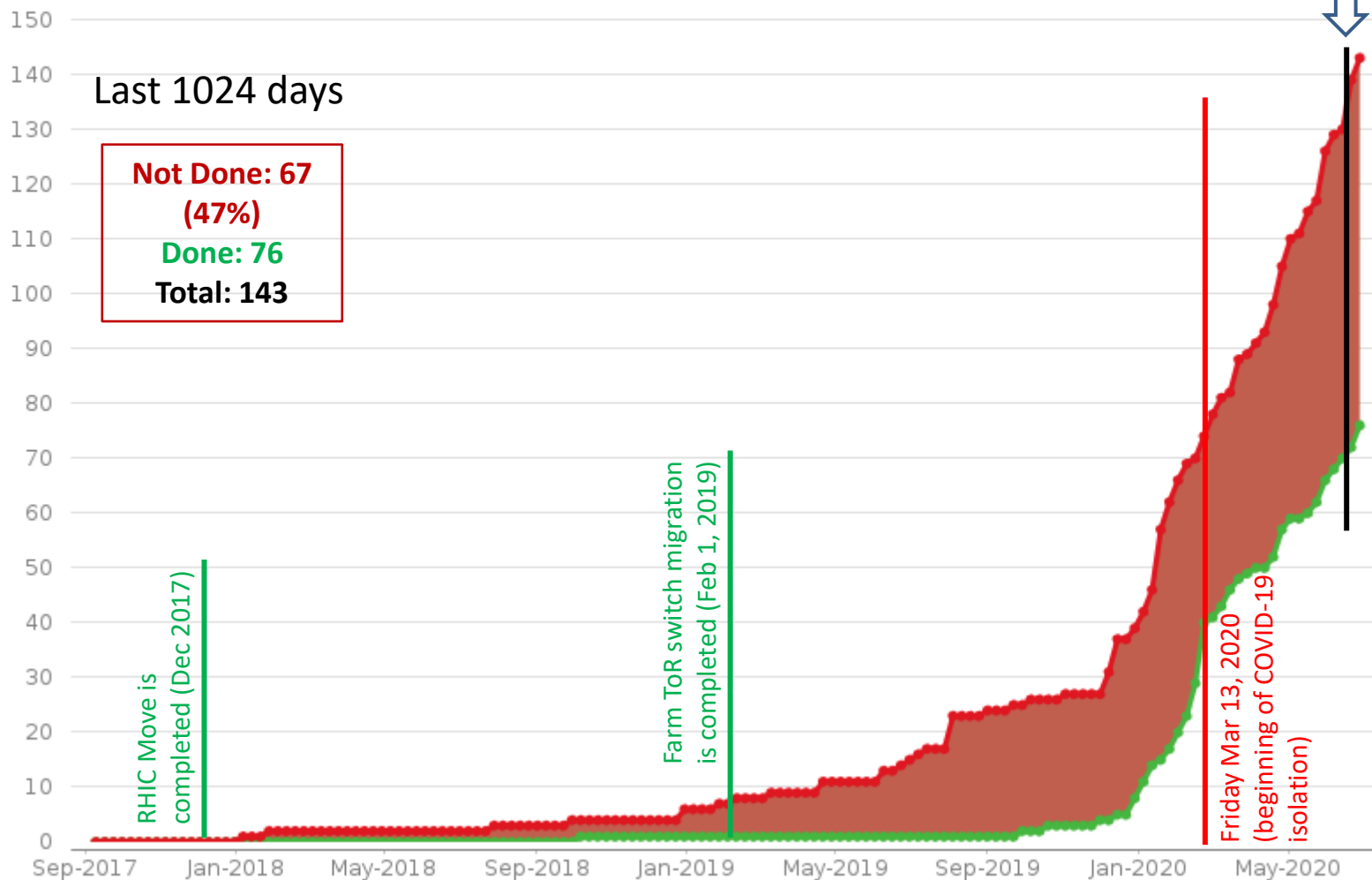


## Project: SDCC Datacenter B515/B725 Transition (CY20-23)

### Chart

This chart shows the number of issues **created** vs. the number of issues **resolved** in the last **1024** days.

Previous Report

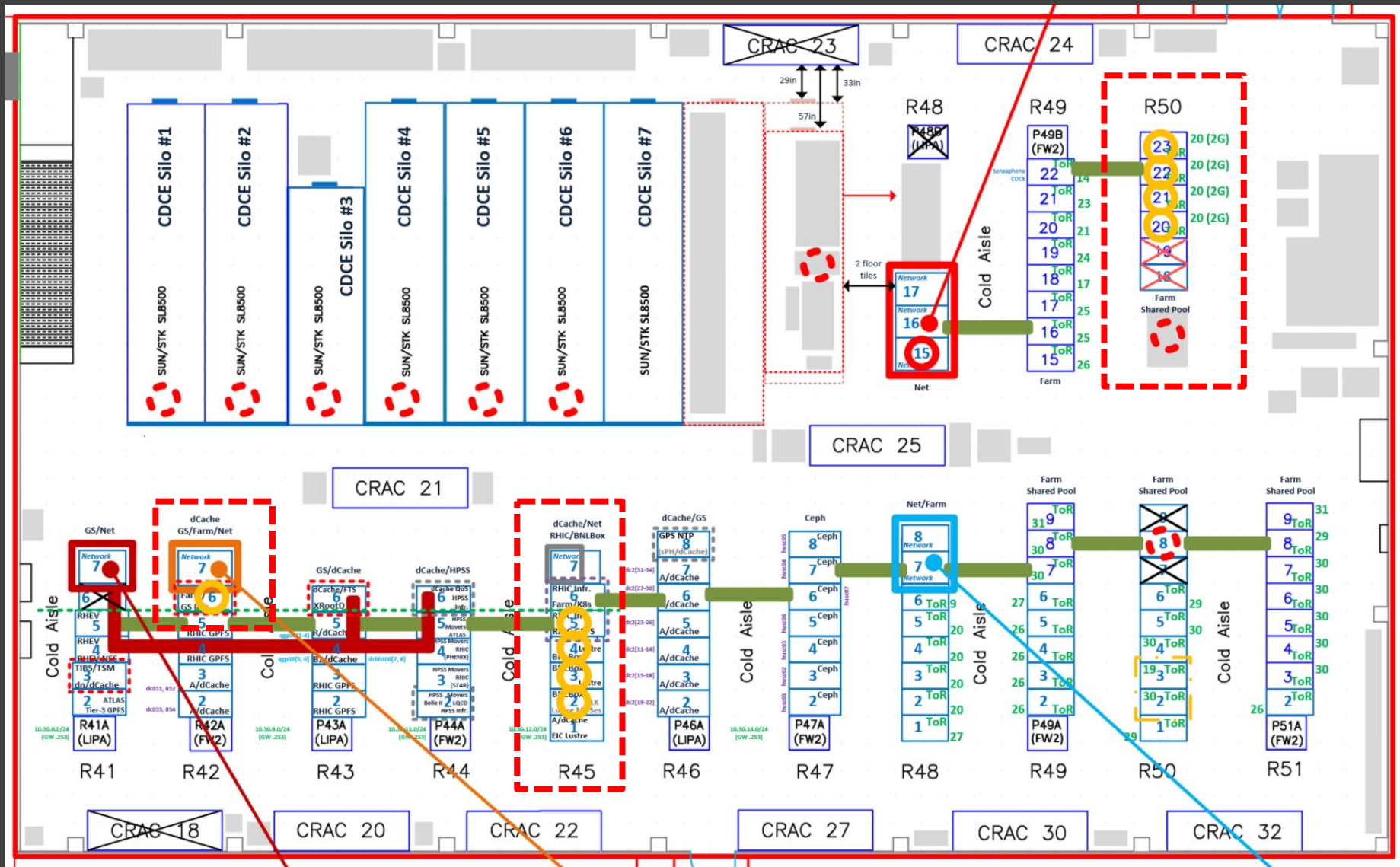


# Ongoing/Upcoming Interventions and Equipment Deployment/Retirement Operations

- GP Lustre MDSes (GS Group) – destination: rack 45-2 in CDCE
  - GP Lustre MDS servers are on the way (ETA: 2<sup>nd</sup> week of July)
- The combined FY20 RHIC & ATLAS CPU procurement (Farm/Fabric Group)
  - The retirement of the legacy CPU racks in row 50N is needed in order to make space and power available for 4 new CPU racks in positions 50-[20-23] in CDCE
  - Sanitization process is completed by the Farm/Fabric group
  - Patch panels and BoR switches are removed, migration of CDCE Sensaphone to row 49N completed, un-cabling completed, racks are rolled out into row 48N to give way for the installation of the new CPU racks and deploying network equipment in them (ETA: next week)
- Two 14 TB HDD JBOD based storage purchases are now in the procurement pipeline
  - EIC Lustre storage (GS Group; 2x JBOD + headnode pairs) and tape drives (Storage/HPSS Group)
  - Additional ATLAS dCache Storage (Storage/HPSS Group; 2x JBOD + headnode pairs)
  - Network uplinks are provisioned, rack frame 45-1 is adjusted and ready to receive the equipment (ETA: 2<sup>nd</sup> week of July)

# Ongoing/Upcoming Interventions and Equipment Deployment/Retirement Operations

- New monitoring systems are expected to be purchased/deployed before the end of FY20
  - Set of 4x 1U central Graphite servers (Farm/Fabric Group), destination: rack 42-6 – additional patch panel ports are provisioned to rack 42-6, ports are allocated
  - Dockerhub server pair (Farm/Fabric Group), destination: rack 45-5 – purchase is in progress
  - ELK real hardware cluster (GS Group), destination: racks 45-[2-4] – purchase is in progress
- New CSI equipment that is getting purchased/deployed in FY20 as well
  - DDN AI400 storage unit was deployed in B725/area 1-181 attached directly to DGX-2 unit with the isolated 4X EDR IB Fabric
  - CFN 4DSTEM project network equipment (400G channel between B735 - B515 - B725/area 1-181) – purchase is in progress with the aim to deliver 200 Gbps of unidirectional bandwidth in that path by the end of Sep 2020, and 400 Gbps – by the end of Nov 2020, once the new B515 SciCore is in place and fully functional
  - New modular CSI tape library (2 frames in the initial configuration) to be installed in an unoccupied part of row 50N in 2020Q3-4; the library is to come with the dedicated HPSS mover to be installed in rack 44-2 in CDCE – purchase is in progress



# Questions & Comments