

SDCC Network Operations Status Report (Sep 10, 2020)

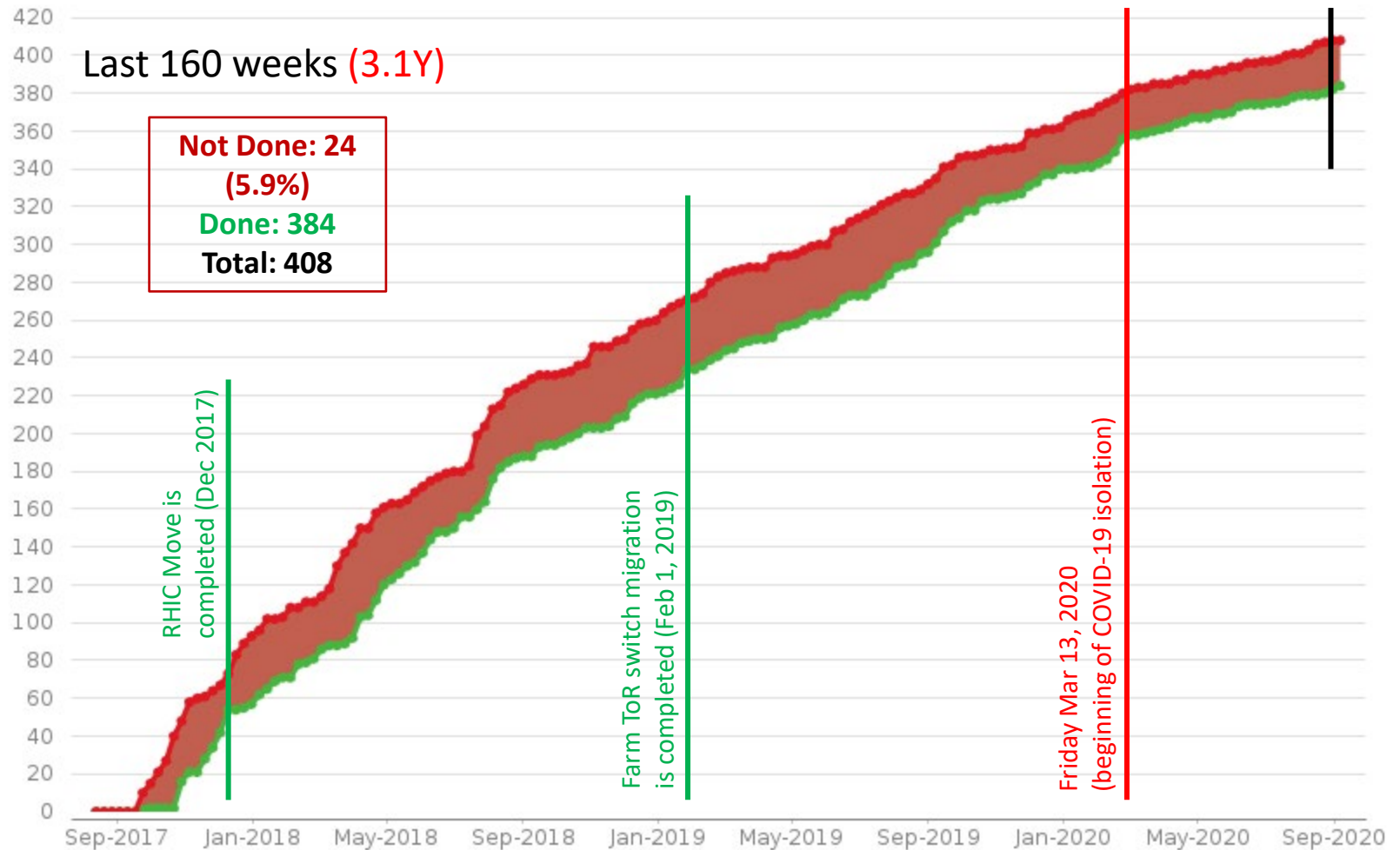
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Project: SDCC Network Operations & Interventions

Chart

This chart shows the number of issues **created** vs. the number of issues **resolved** in the last **1120** days.

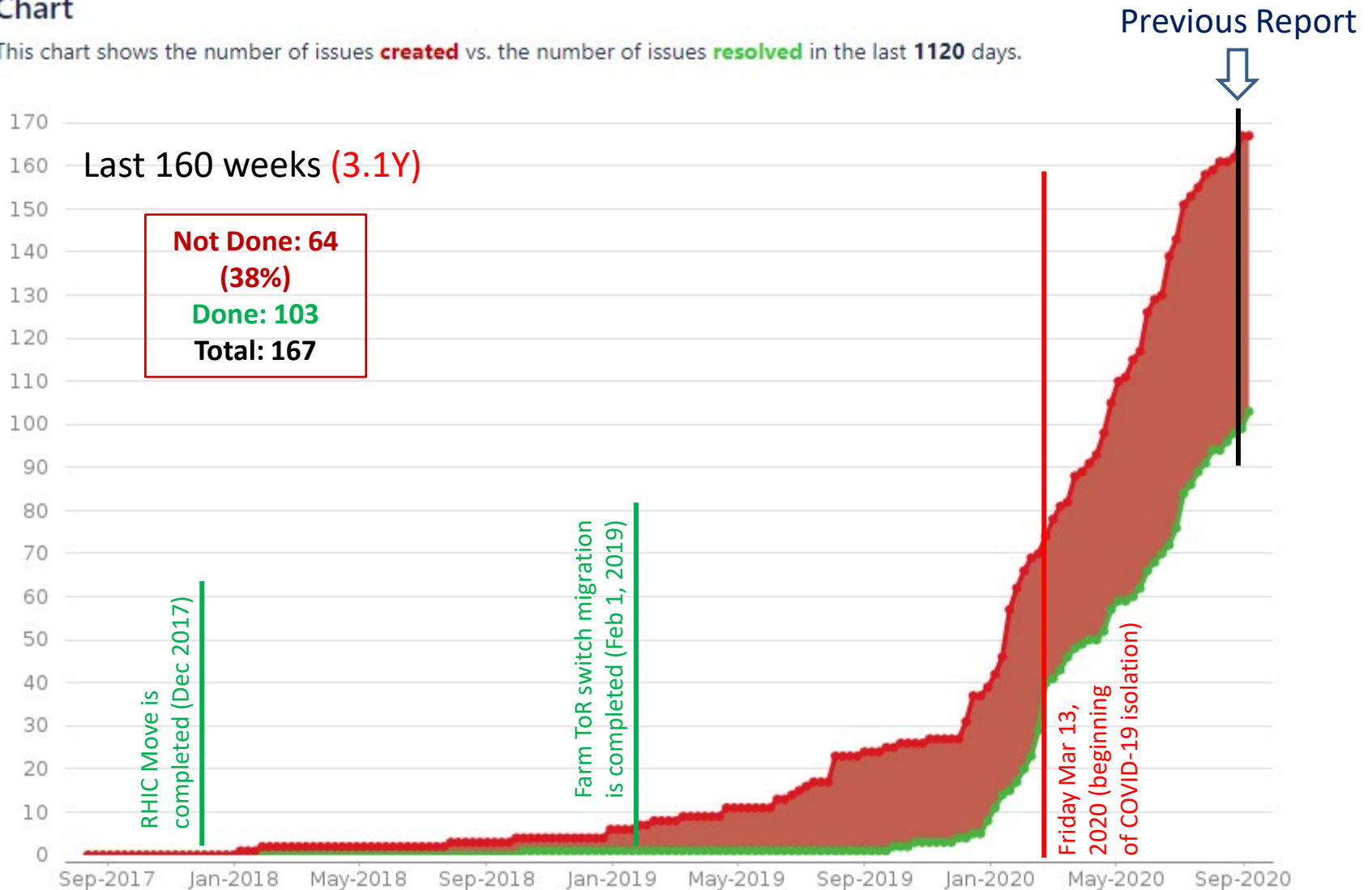
Previous Report



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 **1120** days.



Ongoing/Upcoming Interventions and Equipment Deployment/Retirement Operations

- OSG storage backend purchase (addition to Lustre installation in row 45S, 0.5 PB usable)
 - Purchase is in progress
- 3x new ELK cluster servers to be added to row 44S in CDCE
 - Delivered to CDCE, deployed in the racks 44-[3-5]
- The new dedicated 2-frame CSI tape library to be deployed in CDCE row 50N
 - Purchase is in progress, delivery expected in the first half of Sep 2020
 - Space arrangements are finished (the custom cut floor tile is yet to be provided)
 - Underfloor power receptacles are provided for the library and its possible future extension
 - Fiber and copper connectivity provisioning is scheduled with NETOPS and Telco
- New HPSS Core server pair
 - Delivered to CDCE (Full configuration of these servers requires participation of IBM personnel (expected to happen before the end of Sep 2020))
- New HPSS CSI dedicated mover + JBOD pair
 - Both server and the JBOD are installed in the rack
- NSLS II HPC cluster: 2 racks to be deployed in positions 33-[4, 5] in QCDOC
 - Purchase of the CPU racks and Arista ToR switch for those are in progress
 - Fiber connectivity provisioning is done up to the extent that can be addressed without having racks in place (to be finalized once the racks are in final position)

Ongoing/Upcoming Interventions and Equipment Deployment/Retirement Operations

- The first instalment of sPHENIX central storage (5.4 PB usable) is initiated
 - Driven by the sPHENIX MC campaign requirements for FY20-21
 - To be deployed in the rack 46-8 (the last available / powered up rack position where high capacity JBODs can be deployed in B515/CDCE, the subsequent DISK purchases are to be targeting B725 MDH for deployment, starting from FY21)
 - Purchase is in progress
 - Rack frame preparation is scheduled
- With the end of the RHIC run of FY20 approaching we expect to be able to proceed with migrating functionality of the RHIC movers from row 16 in BCF to the new RHIC mover equipment in row 44S in CDCE in early Oct 2020 (plans are to be finalized by the Storage/HPSS group)

Upcoming New B515 SciCore Cut-In Intervention

- A single working day interruption of internal SDCC SciZone connectivity to happen in late Nov – early Dec 2020 timeframe (in the gap between the RHIC runs of FY20 and FY21)
- Tuesday-Thursday periods on a week w/o official holidays is expected to be used
- 6:00-18:00 BNL LT (12h window) is needed (all contingency measures included)
- More details to be provided and the specific date is expected to be picked before the end of Sep 2020

Questions & Comments