

SDCC Network Operations Status Report (Nov 5, 2020)

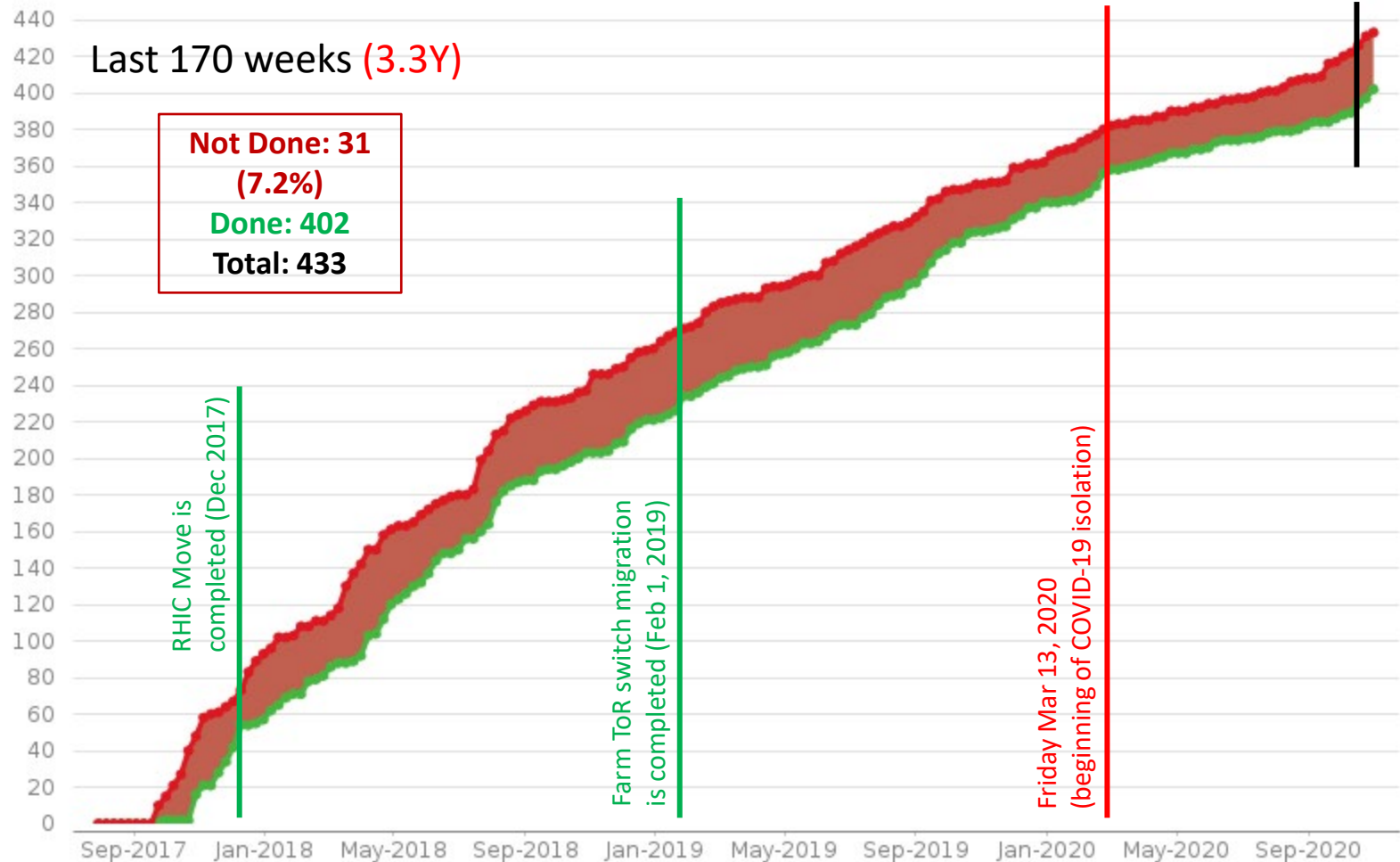
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Project: SDCC Network Operations & Interventions

Chart

This chart shows the number of issues **created** vs. the number of issues **resolved** in the last **1190** days.

Previous Report

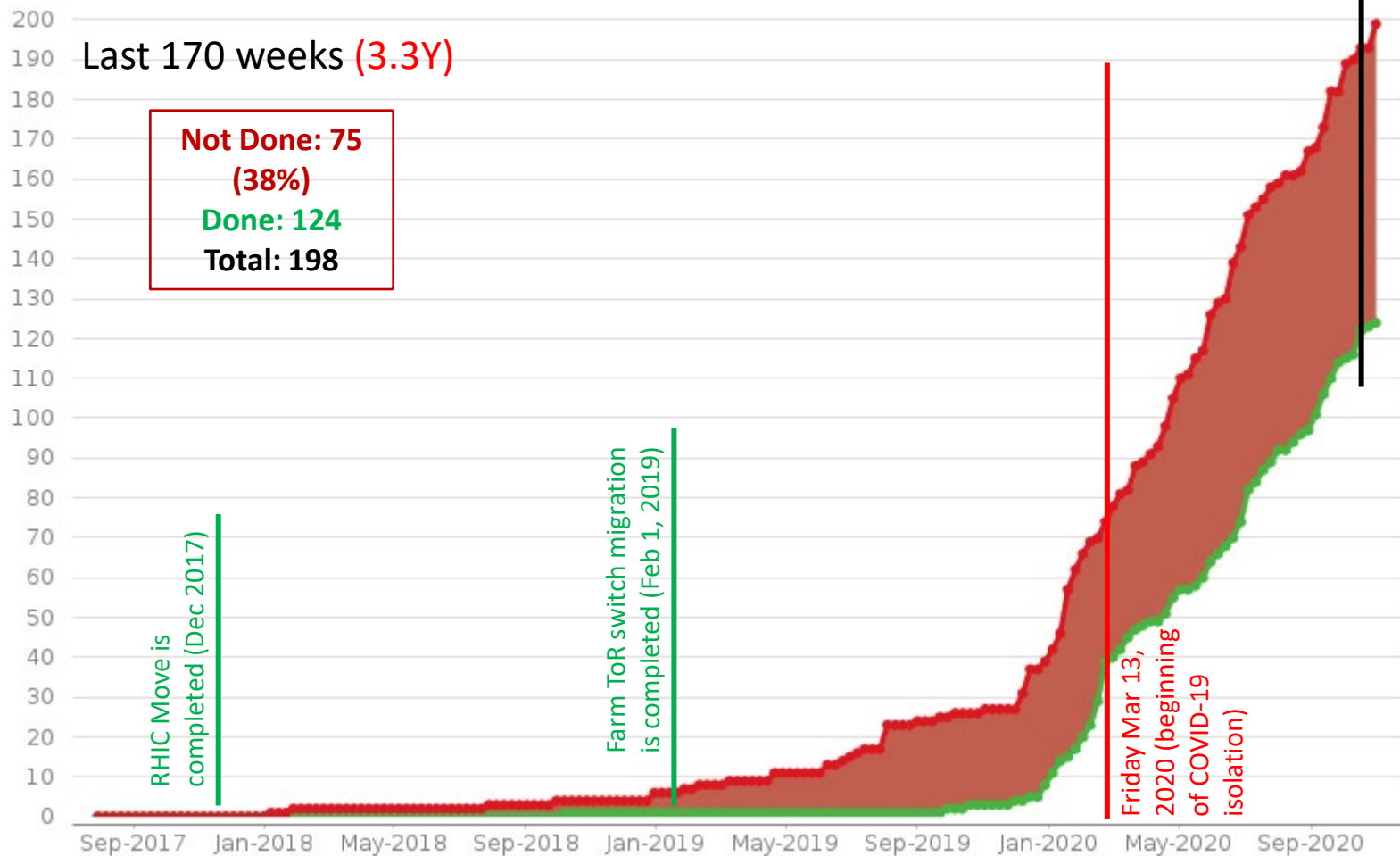


Project: SDCC Datacenter B515/B725 Transition (CY20-23)

Chart

This chart shows the number of issues **created** vs. the number of issues **resolved** in the last **1190** days.

Previous Report



Ongoing/Upcoming Interventions and Equipment Deployment/Retirement Operations

- OSG storage backend purchase (addition to Lustre installation in row 45S, 0.5 PB usable)
 - Both headnode and JBOD are delivered to CDCE and installed in the rack
 - Provisioning of the network uplink for the headnode and stashcache RHEV VM are in progress
- 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)
 - Arista switch for rack 33-4 is received
- NSLS II Lustre addition: 2 racks to be deployed in positions 33-[2, 3] in QCDOC
 - Purchase of the servers storage backend, all materials received, fiber termination is in progress
 - Rack frames are deployed and powered up, ready for equipment deployment
- NSLS II infrastructure addition: MongoDB and Kafka servers to be deployed in position 33-6 in QCDOC using the existing rack and CDU set
 - Purchase of fiber materials and transceivers associated is in progress
 - All new NSLS II systems are expected to enter production only after the Dec 1, 2020 intervention
- The first instalment of sPHENIX central storage (5.4 PB usable) is initiated
 - Purchase is in progress: headnodes are already received, JBODs are yet to be delivered
 - Rack frame 46-8 preparation is finished, pending the OS installation on the headnodes
 - The purchase of central sPHENIX dCache components is in progress

Ongoing/Upcoming Interventions and Equipment Deployment/Retirement Operations

- B515 SciCore Cut-In Intervention is tentatively scheduled on Tuesday Dec 1, 2020 (6:00-18:00 LT network connectivity interruption for the SciZone)
 - No roadblocks detected so far, proceeding as planned
 - Impact analysis is in progress
 - Announcements for collaborations is to be released this week
 - The migration of functionality of all HPSS movers located in main BCF (the last high bandwidth connectivity block keeping the old B515 SciCore in place) to the HPSS movers in row 44S in CDCE is expected to happen during the week of Nov 2, 2020
 - All fiber connectivity of HPSS to B515 SciCore is dropped as of yesterday – a major milestone on the way toward completion of the HPSS consolidation to CDCE – many thanks to HPSS/Storage group!
 - The completion of consolidation of HPSS central infrastructure into CDCE (save the two SL8500 silos to be migrated in 2020Q4-2021Q1 that are no longer using Ethernet connectivity provisioned from BCF) is expected to happen by the end of Nov 2020 to drop all the legacy FC and Ethernet infrastructure associated with HPSS in BCF
- The construction of the SMF fiber infrastructure connecting Lab C to CDCE through the basement of B515 (bypassing BCF) is in the final stages
 - The “last mile” of the B515/B725 1.6 Tbps interbuilding link depends on it
 - The construction for this projects is done and deliverables are accepted

Questions & Comments