

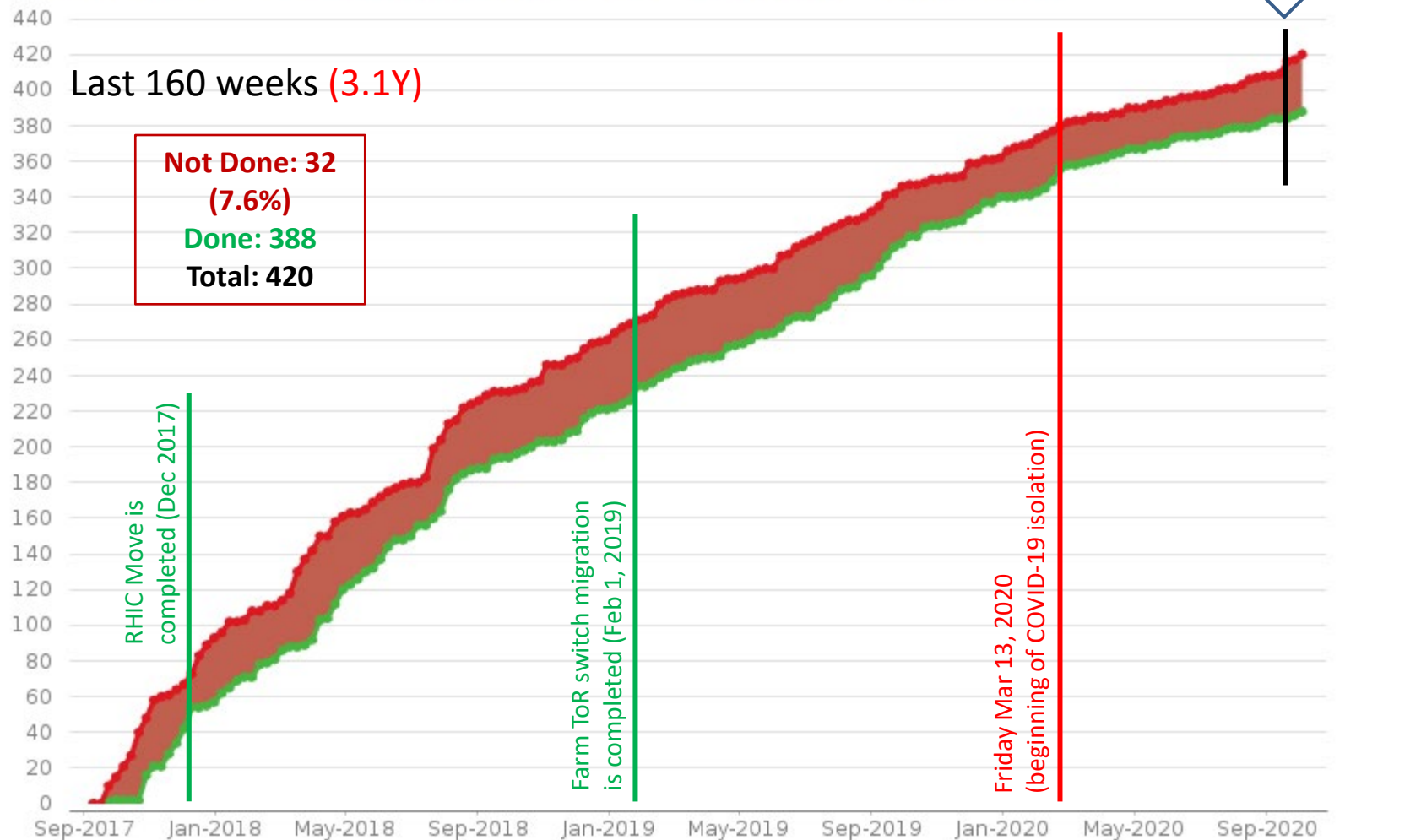
SDCC Network Operations Status Report (Oct 8, 2020)

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Project: SDCC Network Operations & Interventions

Chart

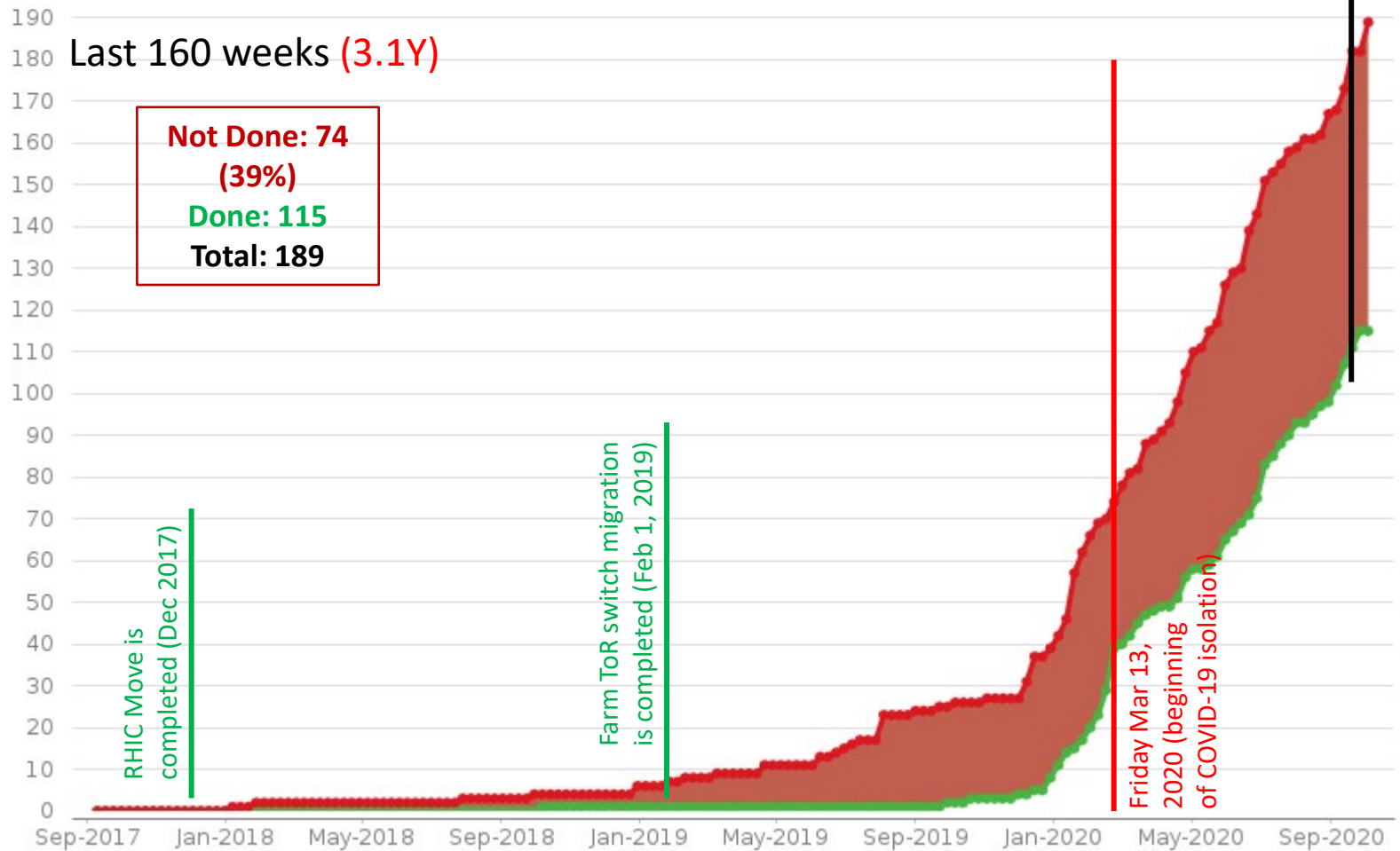
This chart shows the number of issues **created** vs. the number of issues **resolved** in the last **1120** days.



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)
 - The headnode is delivered to CDCE; the JBOD is still on its way
- The new dedicated 2-frame CSI tape library to be deployed in CDCE row 50N
 - Library assembly was performed today by IBM personnel and the library is now powered up
 - Fiber and copper connectivity is provisioned to this library by Telco
- New HPSS Core server pair
 - The replacement of the old core servers with the new ones was completed during the HPSS intervention on Oct 6-7, 2020 with involvement of IBM personnel
- 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)
 - ESD for the Arista switch in early Nov 2020
- NSLS II Lustre addition: 2 racks to be deployed in positions 33-[2, 3] in QCDOC
 - Purchase of the servers storage backend, rack frames and fiber materials is in progress
 - Rack frames are on its way; the CDUs are already delivered
- NSLS II infrastructure addition: MongoDB and Kafka servers to be deployed in position 33-6 in QCDOC using the existing rack

Ongoing/Upcoming Interventions and Equipment Deployment/Retirement Operations

- The first instalment of sPHENIX central storage (5.4 PB usable) is initiated
 - Purchase is in progress
 - Rack frame 46-8 preparation is being finalized
- The long sought consolidation of SDCC Facility cache DNS servers group was finished earlier this week with GS Group – no issues detected so far
 - <https://racfjira.atlassian.net/browse/SDCCTR-3>
- B515 SciCore Cut-In Intervention is tentatively scheduled on Tuesday Dec 1, 2020 (6:00-18:00 LT network connectivity interruption for the SciZone)
 - Announcements for collaborations is to be released in Nov 2020
 - No roadblocks detected so far, proceeding as planned
- BNL WAN connectivity was partially affected by the ESnet wide optical backbone issue in the morning of Oct 1, 2020, partially affecting BNL users accessing the site from remote
 - The announced preliminary analysis of the cause of the issue points to a failed transparent intervention on the ESnet optical backbone: <https://racfjira.atlassian.net/browse/NETOPS-430>
 - Fixed by ESnet within 2h 10min since the start of the intervention in question
- MS Teams Cloud service was affected for BNL in the morning of Oct 2, 2020 as well
 - Fixed by ESnet withing 3h from the initial report by ITD network engineering; no SDCC users affected by it as it appears: <https://racfjira.atlassian.net/browse/NETOPS-431>

Questions & Comments