RACF/SDCC Network Operations
Status Report (Sep 13, 2018)

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Project: RACF/SDCC Network Operations & Interventions
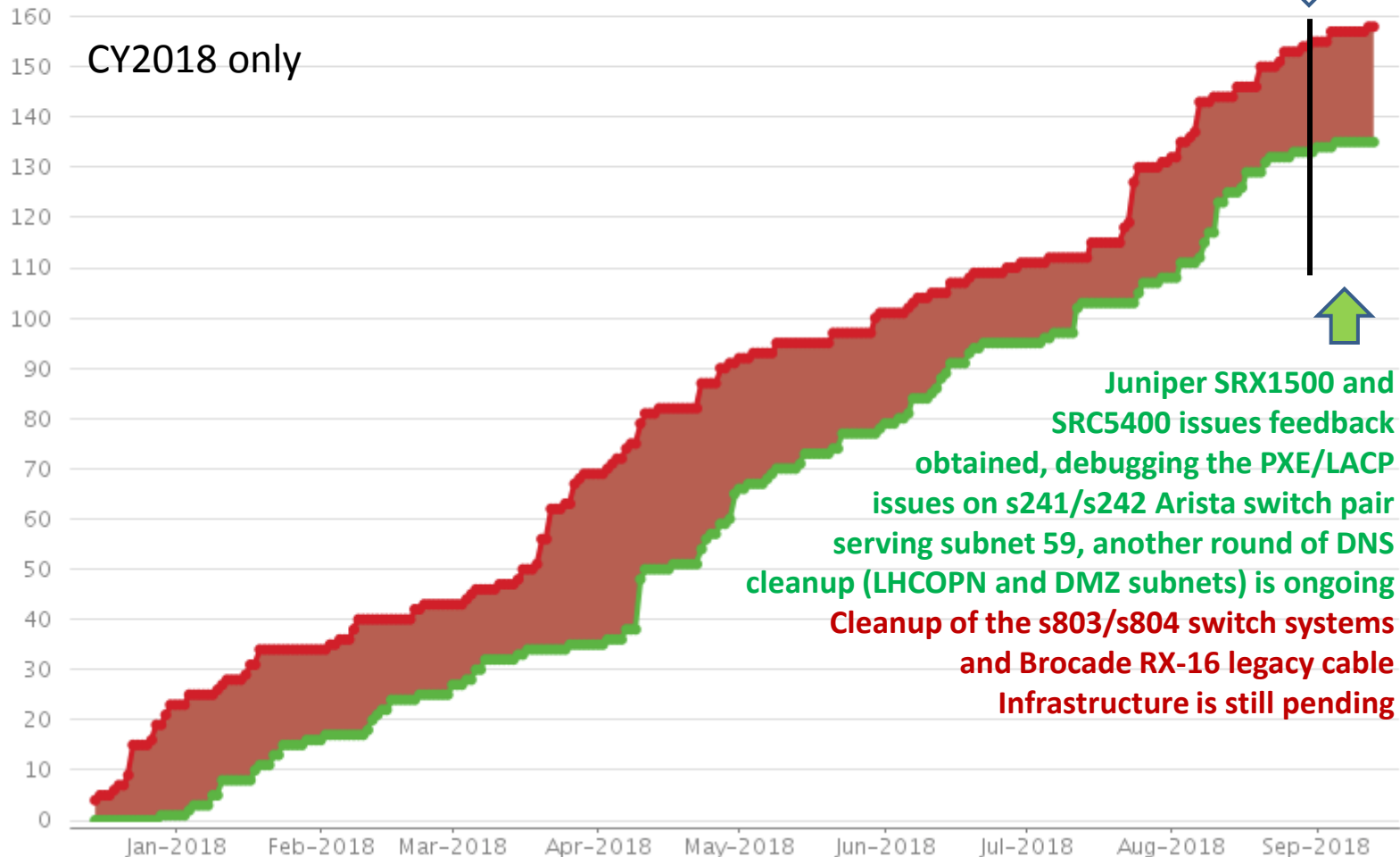
Chart

This chart shows the number of issues **created** vs the number of issues **resolved** in the last **273** days.

233

CY2018 only

Previous Report

Juniper SRX1500 and SRC5400 issues feedback obtained, debugging the PXE/LACP issues on s241/s242 Arista switch pair serving subnet 59, another round of DNS cleanup (LHCOPN and DMZ subnets) is ongoing

Cleanup of the s803/s804 switch systems and Brocade RX-16 legacy cable Infrastructure is still pending
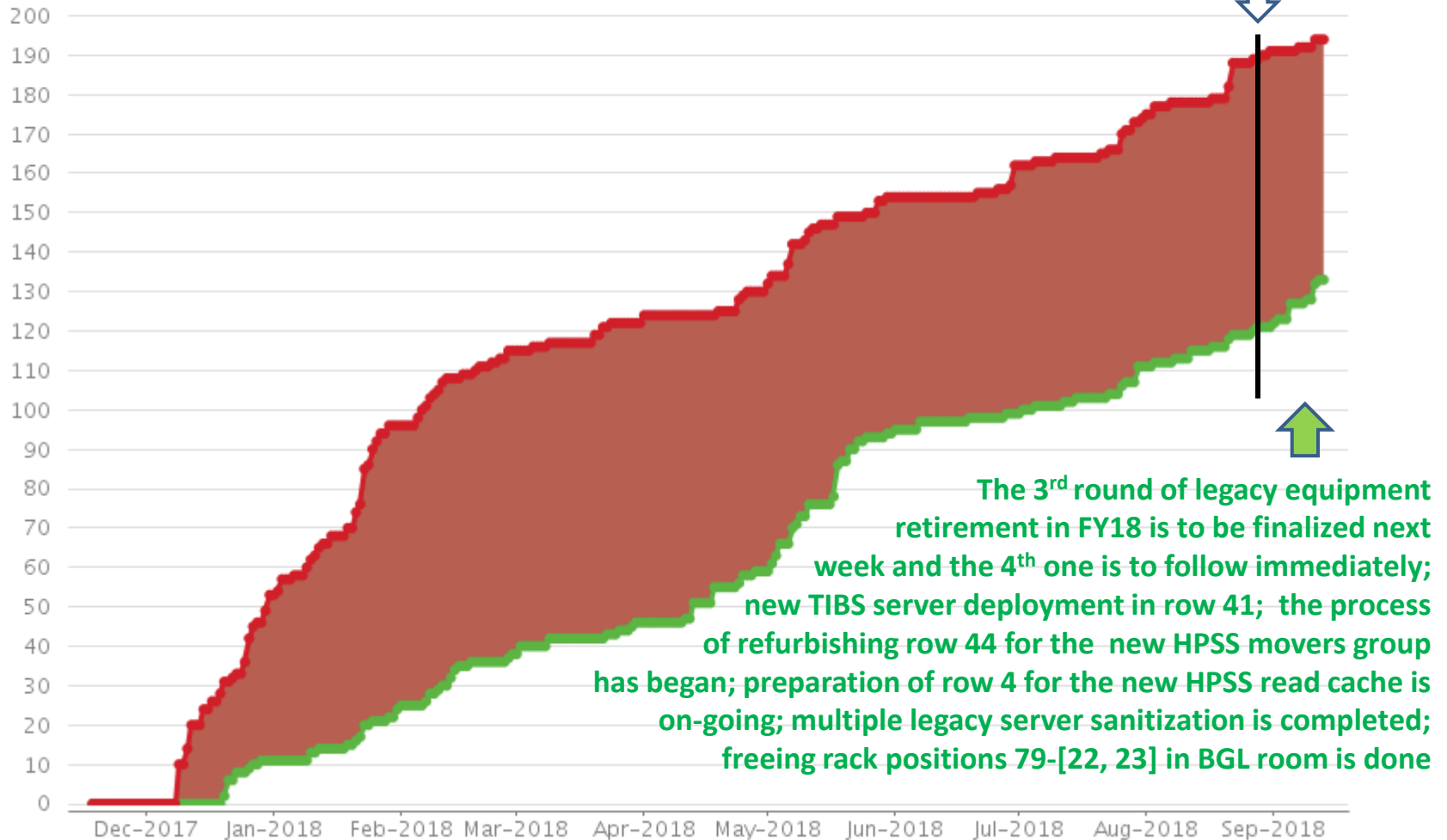
Project: Post RHIC Migration BCF & CDCE Cleansing & Service Normalization (2018Q1-3)

Chart

This chart shows the number of issues **created** vs the number of issues **resolved** in the last **300** days.
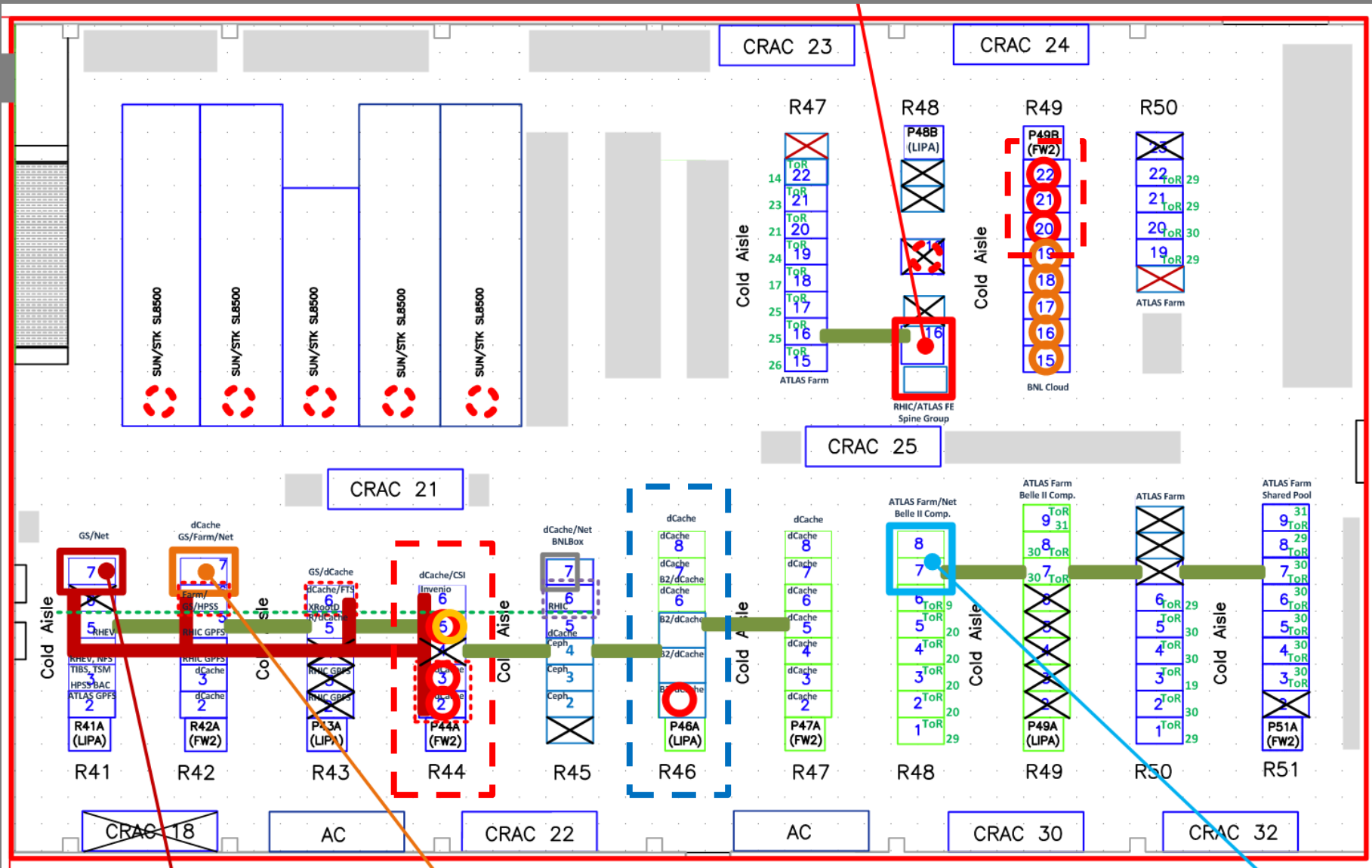

Previous Report

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The 3rd round of legacy equipment retirement in FY18 is to be finalized next week and the 4th one is to follow immediately; new TIBS server deployment in row 41; the process of refurbishing row 44 for the new HPSS movers group has began; preparation of row 4 for the new HPSS read cache is on-going; multiple legacy server sanitization is completed; freeing rack positions 79-[22, 23] in BGL room is done

Upcoming Interventions (I)

- STAR CH Perimeter Firewall (Juniper SRX1500 pair) upgrade NETOPS-211
  - First attempt made on Aug 21, 2018 was unsuccessful due to the issues encountered (no client traffic interruption inflicted)
  - The issue was studied by the vendor and the conclusion is made that transparent upgrade from the current SW version is not going to be possible , this disruptive (15 min long interruption for both components of the pair all together) is needed to do it (the future upgrades are expected to be transparent)
  - Currently scheduled at 9:00-9:30 am LT time window on Tuesday Sep 18, 2018 – submitted for RHIC Liaisons' approval (final go/no-go on the NETOPS side is expected on Monday Sep 17, 2018)
- SciZone Perimeter Firewall (Juniper SRX5400 pair) upgrade NETOPS-221
  - Expected to be fully transparent yet postponed since Aug 21, 2018 due to the issues with SRX1500s observed on that day
  - Today the presence of one more issue is disclosed by Juniper, that may result in interface flapping between the components of the pair during the upgrade and thus resulting in non-transparent intervention
  - Still needs to be addressed by the vendor before we can safely proceed

Upcoming Interventions (II)

- Issues with PXE/LACP 2x 1 GbE uplinks are observed with s241/s242 (Arista 7010T) switch pair serving Campus subnet 59 with the new stuff/admin SSH gateways
  NETOPS-233
  - Likely to be solved by the switch SW upgrade, though the upgrade is going to inflict a shot connectivity interruption on single attached systems on subnet 59, such as
  - hpc1.csc.bnl.gov (CSI)
  - idm2.phy.bnl.gov
  - mail.phy.bnl.gov
  - nfs01.phy.bnl.gov
  - pobox.phy.bnl.gov
  - vm1.phy.bnl.gov
  - vm2.phy.bnl.gov
  - sunbelt.star.bnl.gov (STAR)
  - sun.star.bnl.gov (STAR)
  - Most of these systems can be converted to LACP in the process in order to avoid future interruptions due to SW upgrades in this switch pair, if desired
  - Reconsolidation of subnet 59 to a single /24 can be performed at the same time (most of the systems are going to need need re-masking only, VMs included)
  - Time window for this intervention is yet to be decided

Questions & Comments