

RACF/SDCC Network Operations Status Report (May 10, 2018)

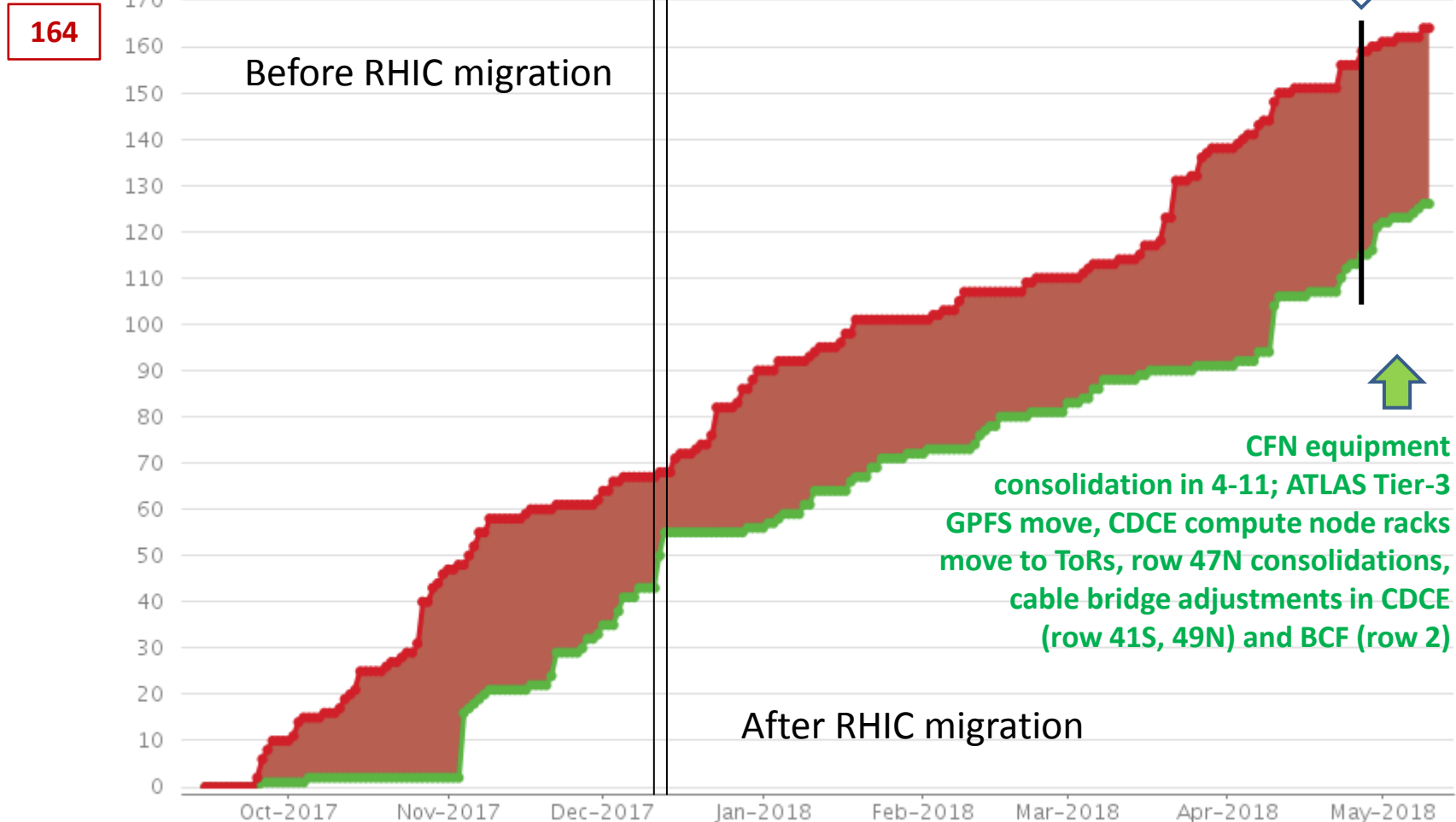
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Project: RACF/SDCC Network Operations & Interventions

Chart

This chart shows the number of issues **created** vs the number of issues **resolved** in the last 238 days.

Previous Report

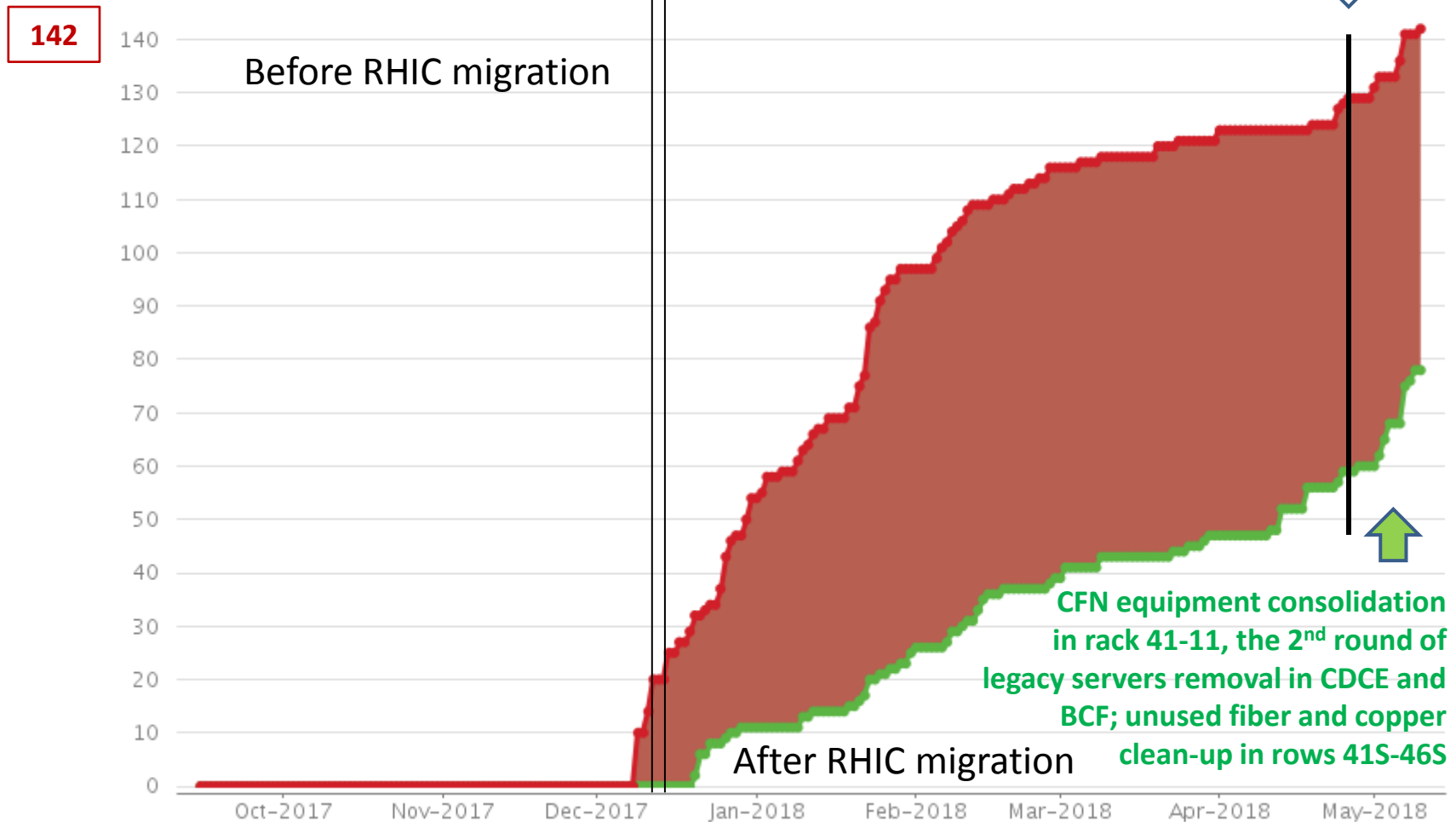


Project: Post RHIC Migration BCF & CDCE Cleansing & Service Normalization (2018Q1-3)

Chart

Previous Report

This chart shows the number of issues **created** vs the number of issues **resolved** in the last **238** days.



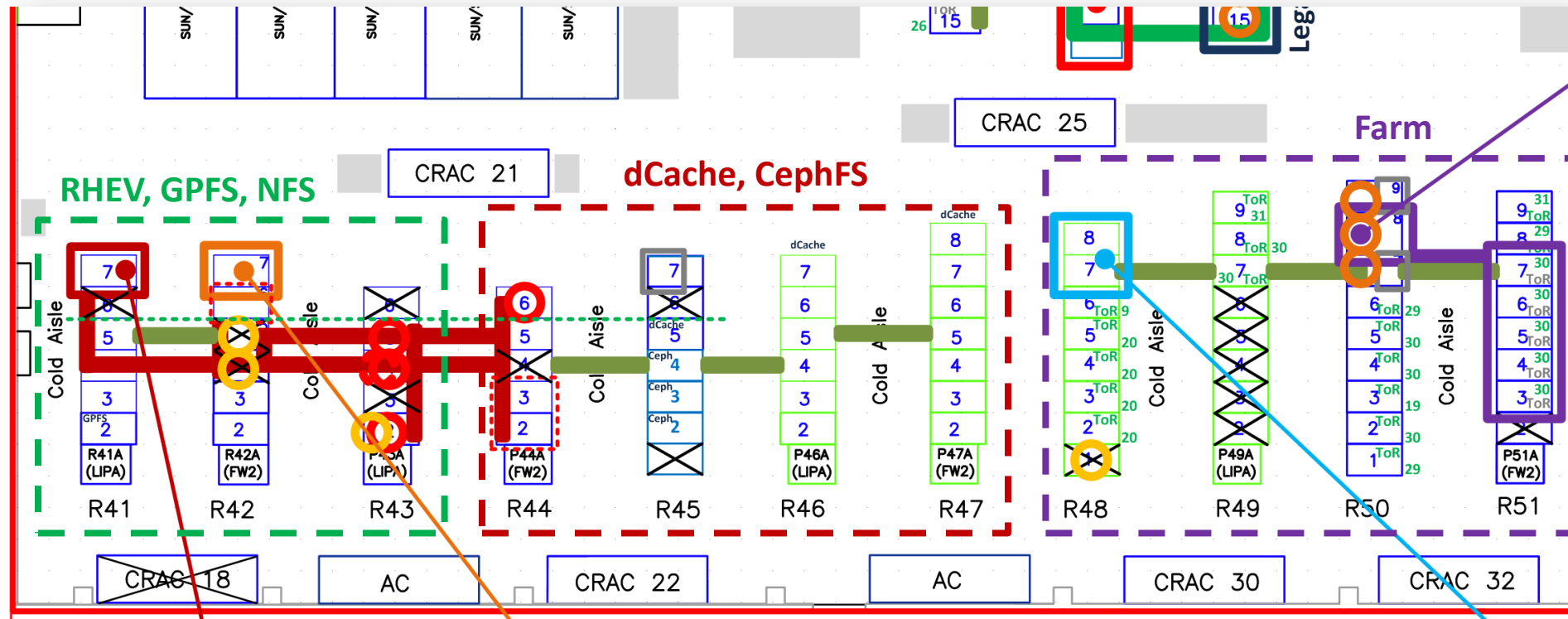
Recent Developments (1)

- Conversion of compute node racks to spine-and-leaf infrastructure in CDCE
 - All 21x ToR switches needed for replacement of legacy Dell/Force10 Exascale s705 (row 50S) and Brocade SX-1600 systems (row 48N) are received, installed and configured
 - 5 interventions scheduled by Chris Hollowell and agreed with ITD to complete the conversion of ATLAS Tier-1 and ATLAS Tier-3 sites (NETOPS-104):
 - **Apr 26, 2018 (DONE)** – ATLAS Tier-1/Tier-3 racks in row 50S
 - **May 8, 2018 (DONE)** – All remaining ATLAS Tier-3 racks in rows 47N, 50S, 50N (to coincide with the physical migration of the ATLAS Tier-3 GPFS rack from 4-6 to 41-2, and moving ATLAS Tier-3 rack 48-21 to position 47-22)
 - **May 10, 2018 (DONE)** – ATLAS Tier-1 racks 47-[15-17]
 - **May 21, 2018** – ATLAS Tier-1 racks 47-[18-20] (s705 is liberated)
 - **May 24, 2018** – All ATLAS Tier-1 racks in row 51S
 - Both sw75 (Exascale) and s705 (Brocade) are expected to be gone by the end of May'18
- Fiber infrastructure deployment in CDCE rows 41-43, 46 to accommodate the following new systems to be deployed in May-June 2018 timeframe:
 - STAR GPFS (rows 42-43; **position 43-2 is expected to be liberated tomorrow, May 11, 2018**)
 - Home directory NFS appliance and Shared RHEV NFS appliance (row 41-[3-4])
 - Belle II dCache storage upgrade (row 46) – **headnode is in the rack and plugged to network at 2x 25 GbE to the Storage Block (first 25 GbE connected system for Belle II Tier-1 site)**

Recent Developments (2)

- SciCore (Arista 7508E) switch pair gets liberated from the direct attached clients – most of them are getting moved to the Storage Block (Arista 7508R) switch pair
 - New real hardware based CVMFS system was moved today (May 10, 2018)
 - CephFS cluster to follow next week
 - Belle II dCache and HPSS to be handled gradually in CY18-19, as the systems evolve
- New SF installation in the BGL room
 - The decommissioned Dell blade chassis and the former SF FE switch pair are picked by SF
 - The 4th SF rack installation in position 79-15 is expected before the end of May'18
- SW upgrade is available for the SciZone perimeter firewall 1+1 pair
 - Confirmed by PHENIX; pending confirmation from STAR ([RACFCL2018-24](#))
- **The intervention dates for RHIC Farm are yet to be scheduled:**
 - **The first intervention by the end of Jun'18** for the 1 GbE attached compute node rack in the RCF room (STAR row 21, “small experiments” row 25): s803 replacement with ToRs (to coincide with new home directory NFS cut-in) – **highly depends on GS and Fabric group schedule**
 - **The second intervention** for the 1 GbE attached compute node rack in the main BGL room (STAR and PHENIX in rows 1, 2, 12, 14 – **before the end of CY18** (ideally, before the end of FY18): s804 replacement with ToRs) – possibly coinciding with an HPSS intervention (if any such intervention is to happen in the same timeframe)

Storage Consolidation in the CDCE (FY18-19)



Questions & Comments