

SDCC Network Operations Status Report (May 21, 2020)

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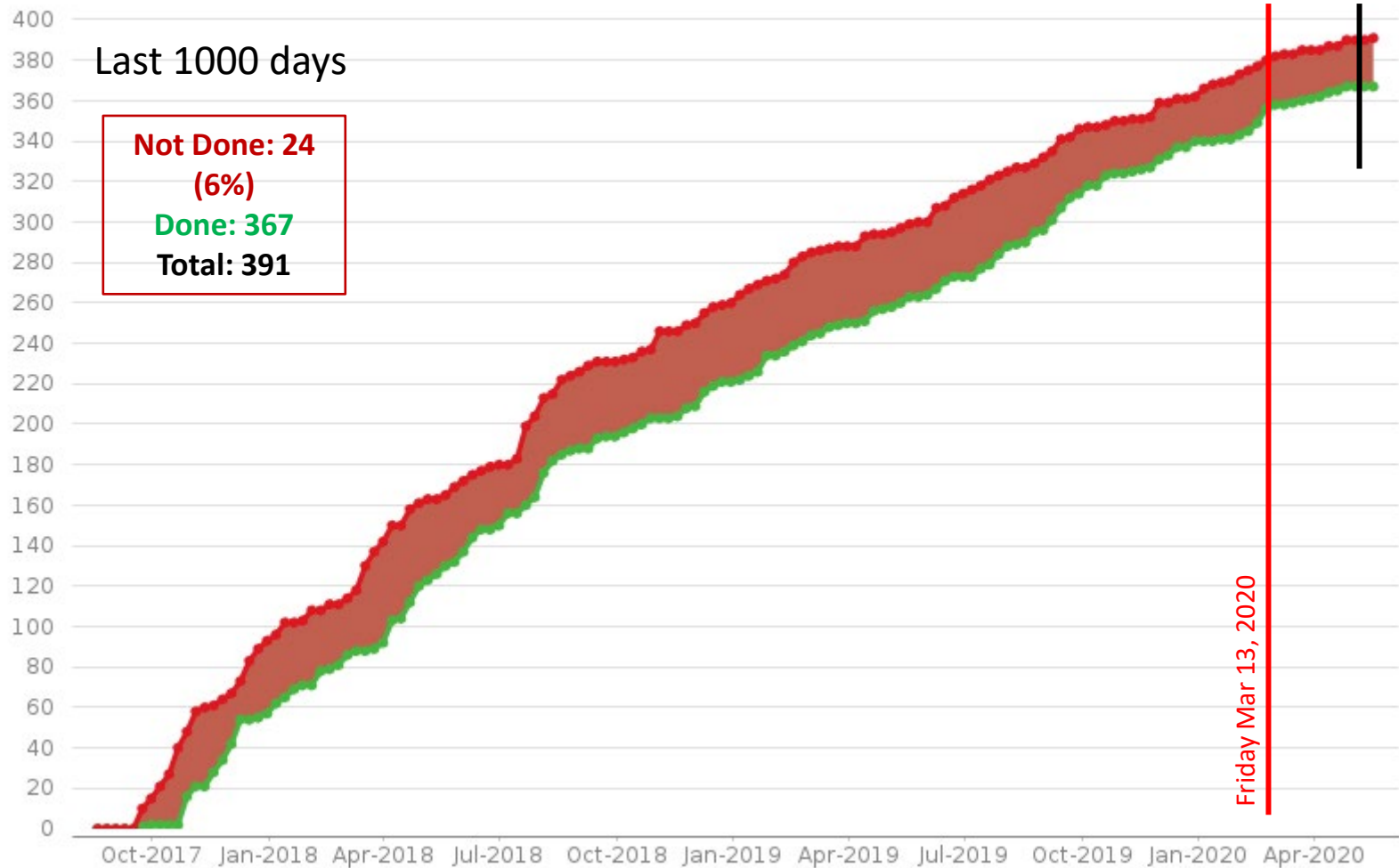
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Project: SDCC Network Operations & Interventions

Chart

This chart shows the number of issues **created** vs. the number of issues **resolved** in the last **1000** days.

Previous Report

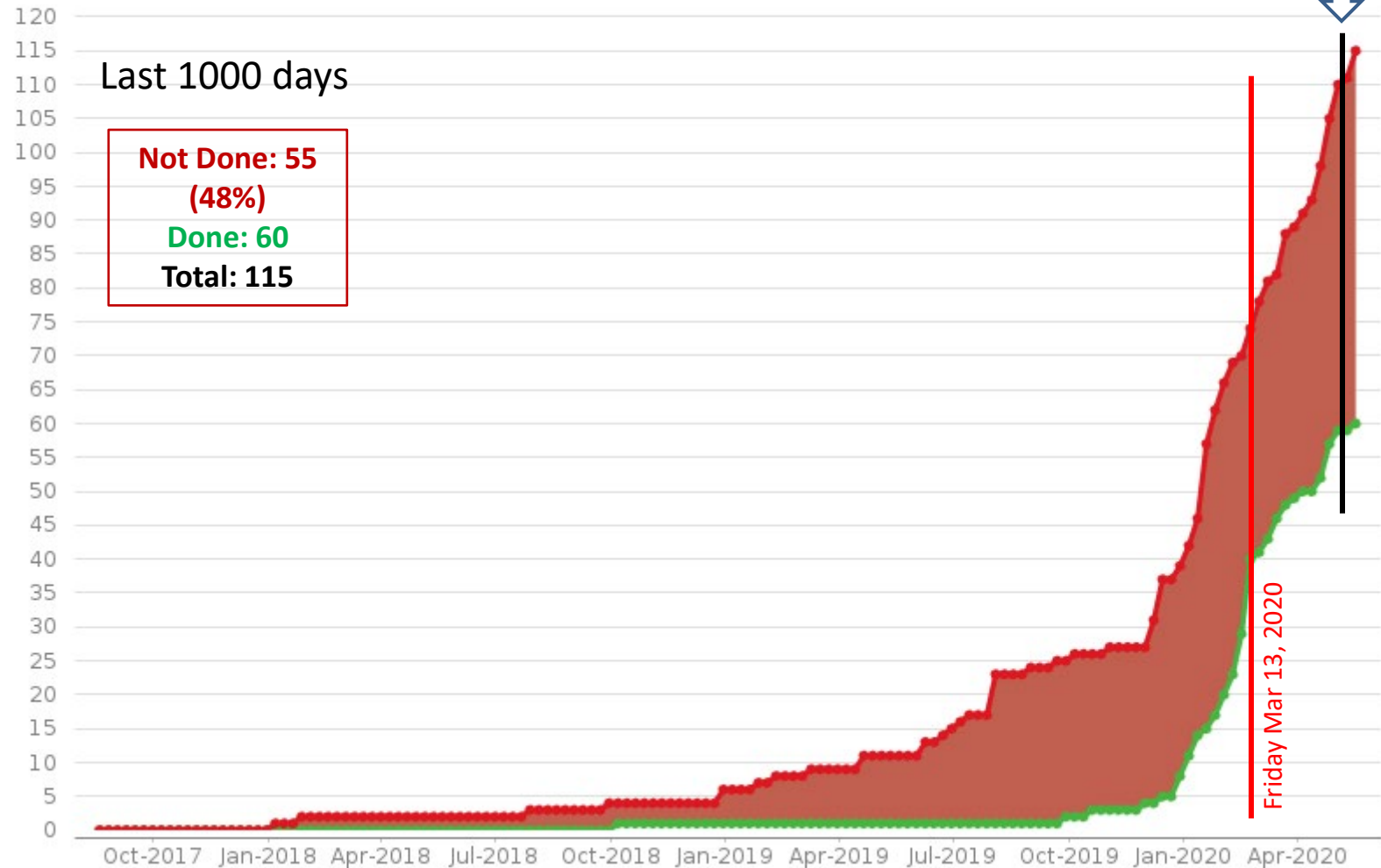


Project: SDCC Datacenter B515/B725 Transition (CY20-23)

Chart

This chart shows the number of issues **created** vs. the number of issues **resolved** in the last **1000** days.

Previous Report



Ongoing/Upcoming Interventions and Equipment Deployment/Retirement Operations

- STAR Lustre MDSes and STAR CH buffer storage (destination: rack 45-5 in CDCE)
 - Partially delivered on site; the ETA for the full delivery is yet unknown
- The combined RHIC & ATLAS CPU procurement is dispatched (Farm/Fabric Group)
 - The retirement of the legacy CPU racks in row 50N is needed in order to make space & power available for 4 new CPU racks in positions 50-[20-23] in CDCE on a timescale of 2-3 months
 - Pending the beginning of sanitization process by the Farm/Fabric group
 - Patch panel and BoR switch removal, migration of CDCE Sensaphone to row 49N, un-cabling and partial offloading to the pallets – must wait until the min-safe period is over
- Two 14 TB HDD JBOD based storage purchases are now in the procurement pipeline:
 - EIC Lustre storage (GS Group; 2x JBOD + headnode pairs) and EIC tape drives (Storage/HPSS Group)
 - Additional ATLAS dCache Storage (Storage/HPSS Group; 2x JBOD + headnode pairs)
 - The rack frame adjustment in position 45-1 in CDCE and network uplink provisioning for this rack are expected to be handled after the min-safe period is over
- Many smaller purchases are in progress
 - A set of 4x 1U central monitoring servers (PO is yet to be dispatched)
 - Label printers and media (partially delivered on site)
 - 200GbE test equipment (partially delivered on site)
 - New ATLAS/RHIC/EIC tape drives for B515/HPSS complex
- The extension of the ML cluster is considered by CSI, possibly from exiting 5 up to 8, or perhaps up to 12 nodes (racks 30-[4-5] in QCD0C) – the exact specs are to be defined yet

Ongoing/Upcoming Interventions and Equipment Deployment/Retirement Operations

- Transparent DNS intervention on splitting the 130.199.48.0/23 block into two /24 subnets was performed successfully today at noon (<https://racfjira.atlassian.net/browse/NETOPS-405>)
 - No changes or interruption of service inflicted to the existing records on .48 (Farm VMMS) and .49 (Farm K8s testbed) subnets as a result of this intervention
- Enabling of the IPv6 counterpart subnets for the SciZone infrastructure subnets is being finalized before the end of this week (<https://racfjira.atlassian.net/browse/NETOPS-399>)
 - 130.199.6.0/24, **2620:0:210:a001::/64** - General Purpose, **RHEV-enabled**, **webproxy-enabled**
 - 130.199.48.0/24, **2620:0:210:a002::/64** - Farm VMMS, **RHEV-enabled**
 - 130.199.49.0/24, **2620:0:210:a003::/64** - Farm K8s Testbed
 - 130.199.148.0/24, **2620:0:210:a004::/64** - General Purpose, **RHEV-enabled**, **webproxy-enabled**
 - 130.199.185.0/24, **2620:0:210:a005::/64** - General Purpose, **RHEV-enabled**
 - 10.42.34.0/24, **fd25:8b68:fc34:a001::/64** - General Purpose, **RHEV-enabled**, **webproxy-enabled**
 - 10.42.43.0/24, **fd25:8b68:fc34:a002::/64** - SDCC RHEV/NSLS II, **RHEV-enabled**
 - 10.42.44.0/24, **fd25:8b68:fc34:a003::/64** - General Purpose, **RHEV-enabled**, **webproxy-enabled (test/staging only)**
 - 10.42.45.0/24, **fd25:8b68:fc34:a004::/64** - SDCC HPSS GW, **RHEV-enabled**
- Equipment evaluation / preparation for B725 datacenter is in “suspended progress” in B515:
 - 10x Arista 7500R3 central network chassis ([delivered and deployed for configuration and testing in B515/Main BCF/row17; later to be moved to B725/Network Room](#))
 - Two RDHx units in the QCDOC room ([delivered, one partially deployed in rack 30-7](#))
 - Two ServerTech CDUs with Cx HDOT technology ([delivered; yet to be deployed in a test rack](#))

Questions & Comments