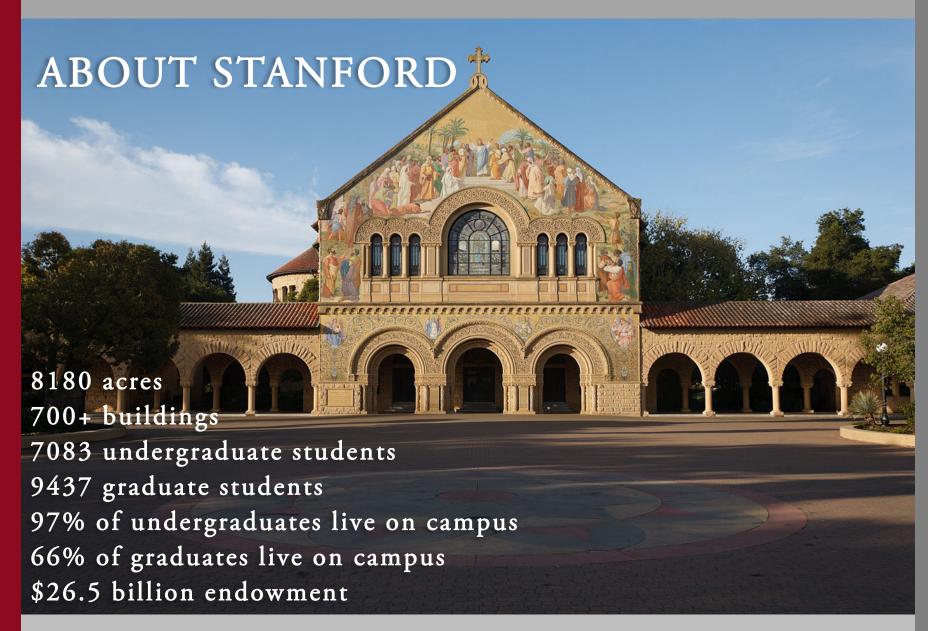
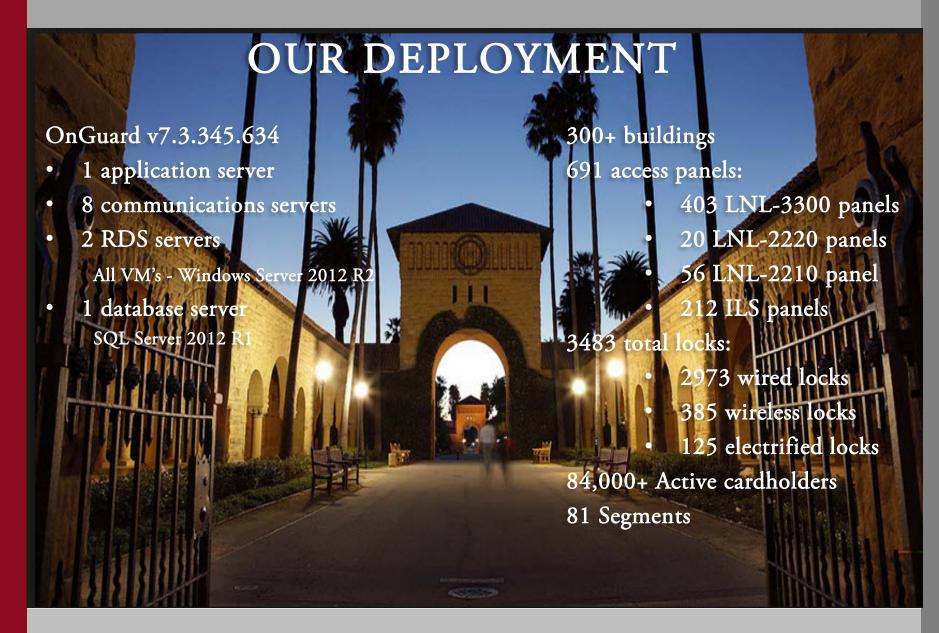
STANFORD CAMPUS LOCKDOWN



Jonathan Randolph Higher Education Lenel User's Group – June 4, 2019









CAMPUS LOCKDOWN TEST JANUARY 3, 2019



LOCKDOWN BUTTONS

There are 3 locations that have lockdown buttons that impact multiple buildings on campus when activated.

2 locations are located on campus: Forsythe Hall and the Graduate School of Business Faculty West building (GSB). The 3rd location is off campus at the City of Palo Alto Police Dispatch Center (CPA).

The Forsythe Hall and CPA lockdown buttons impact all Lenel readers on campus and the GSB lockdown button impacts ONLY readers at the GSB.



LOCKDOWN TEST PREPARATION

"To Do's"

- ✓ Confirm contact information for ITOC, GSB, RDE, CPA
- ✓ Confirm who will be the person executing the lockdown at each location with each group (ITOC, CPA and GSB)
- ✓ Confirm each group (ITOC, CPA and GSB) has the updated copy of the Lockdown Button procedures
- ✓ Confirm Sentinel is active with ASR team and test Sentinel board alerts in Sentinel
- ✓ Confirm email notification programming is current for all 3 buttons (Forsythe Hall, CPA and GSB)
- ✓ Submit change request notifying campus community of lockdown date and impact
- ✓ Send mass notification to building managers and key stakeholders with 1st and 2^{nd} reminders of campus lockdown test date
- ✓ Program test TZ's and schedulers
- ✓ Configure/audit testing monitor zones
- ✓ Configure access levels for testing and assign to the appropriate badges
- ✓ Do dry run testing with techs on devices in the field

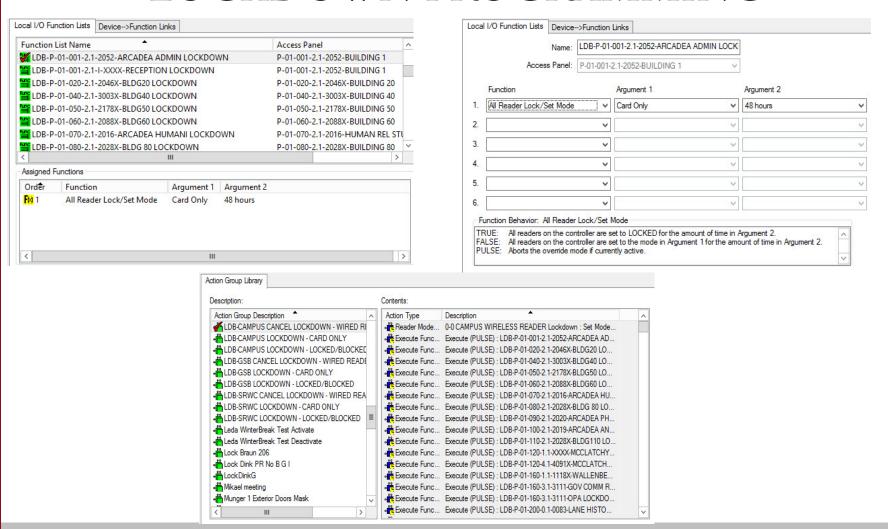
LOCKDOWN TEST PREPARATION (con't)

"To Do's" the week of 1/1/19

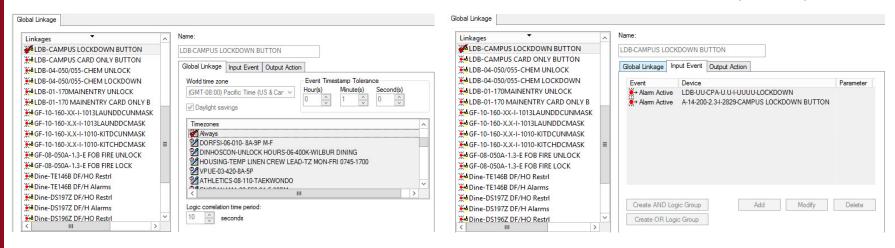
- ✓ Send final mass notification reminder to building managers and key stakeholders that lockdown test is scheduled for 1/3
- ✓ Audit the 6 LDB Action Group Libraries (Wired panels, WPS and WR Device groups)
- ✓ Audit the Campus Wireless Reader Lockdown device group
- ✓ Audit DH & DL devices groups
- ✓ Add "Blocked" to ILS Priority One events for all WR's
- ✓ Call CPA dispatch and confirm with CPA managers that we are still a "GO" for the lockdown test on 1/3
- ✓ Update (if needed) monitor zones: All Segments, Wireless, Outputs
- ✓ Remove all test equipment from the All Segments monitoring zone, remove all test equipment from the action group library lockdown programming and remove all test equipment from the device group lockdown programming
- ✓ DO LAST Verify that all LDB functions are available from ALL SEGMENTS & GSB SEGMENT GROUP monitor zones

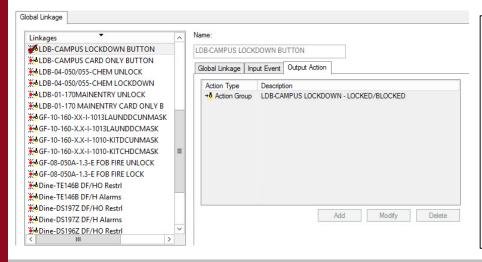


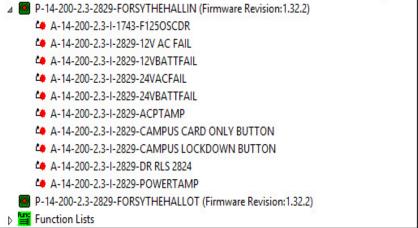
LOCKDOWN PROGRAMMING



LOCKDOWN PROGRAMMING (con't)



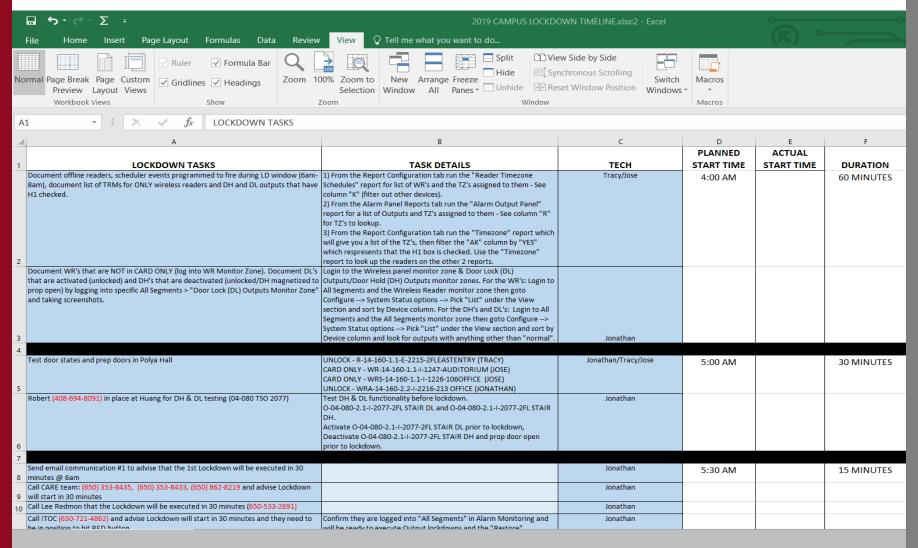


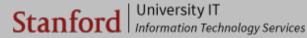


PRE-LOCKDOWN TASKS

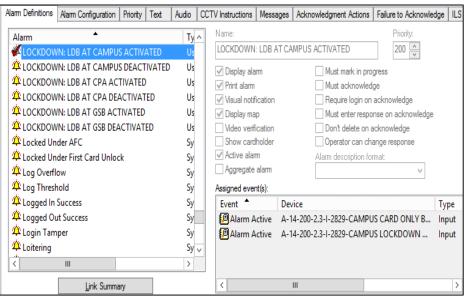
- Document offline readers, scheduler events programmed to fire during LD window, document list of TRMs for ONLY wireless readers and DH and DL outputs that have H1 checked.
- Document WR's that are NOT in CARD ONLY.
- Document DL's that are activated (unlocked) and DH's that are deactivated (unlocked/DH magnetized.
- Contact technician and verify access modes on test doors.
- Send email communication #1 to community and advise that the 1st lockdown test will start in 30 minutes.
- Contact R&DE CARE team and advise that the 1st will start in 30 minutes.
- Contact ITOC monitoring team and advise that the 1st will start in 30 minutes and they need to be in position to press the lockdown button.

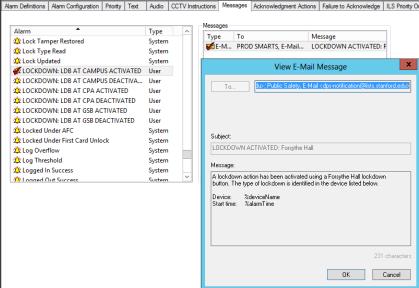
LOCKDOWN TIMELINE





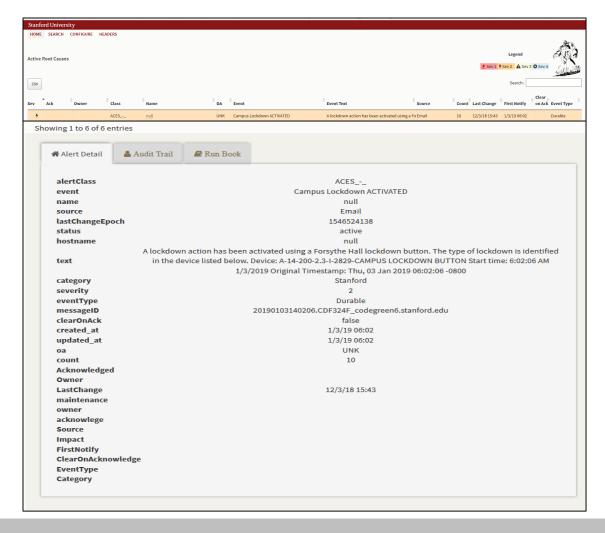
LOCKDOWN NOTIFICATIONS







LOCKDOWN NOTIFICATIONS (con't)



HISTORICAL LOCKDOWN DURATIONS

Year	Button location	Reader type & count	Lockdown completed in:
2011	Forsythe Hall	WIRED - 741	3 seconds
v6.0.148	Forsythe Hall	WIRELESS - 125	1 minute
2012	Forsythe Hall	WIRED - 952	4 seconds
v6.4.500	Forsythe Hall	WIRELESS - 144	1 minute
2014	Forsythe Hall	WIRED - 2174	10 seconds
v6.6.415	Forsythe Hall	WIRELESS - 204	5 minutes 30 seconds
2015	СРА	WIRED - 2199	19 seconds
v6.6.415	СРА	WIRELESS - 233	5 minutes 35 seconds
2016	Forsythe Hall	WIRED - 2343	3 seconds
v6.6.415	Forsythe Hall	WIRELESS - 302	5 minutes 12 seconds
2019	Forsythe Hall	WIRED - 2635	7 seconds
v7.3.345.634	СРА	WIRED - 2635	6 seconds
	GSB	WIRED - 113	2 seconds
	Forsythe Hall	WIRELESS - 374	4 minutes 43 seconds
	СРА	WIRELESS - 374	3 minutes 11 seconds
	GSB	WIRELESS - 146	1 minute 14 seconds

LESSONS LEARNED

Lenel Lockdown "Deactivated" email notification

There are email notifications sent from Lenel when a lockdown input device is "Activated" or "Deactivated". The issue that was discovered during this year's test is that the "Deactivated" notification is not sent when a lockdown is actually "Restored". Currently the "Deactivated" notification is triggered when a depressed lockdown button is physically twisted and returned to the "normal" state which doesn't trigger "Restore" command. The team will need to investigate how to program a notification triggered by a "Pulse" command sent to the lockdown input device.

"Phantom" door failures

During this year's test there were some "phantom" door failures that didn't make sense at the time of testing. After an investigation into the failures in January it was discovered that maintenance staff in a building disconnected power to a few doors in buildings to secure doors over the Winter Break. This was surprise to the team and building manager who were not aware of the "maintenance" done by the building staff.

ITOC ring down line

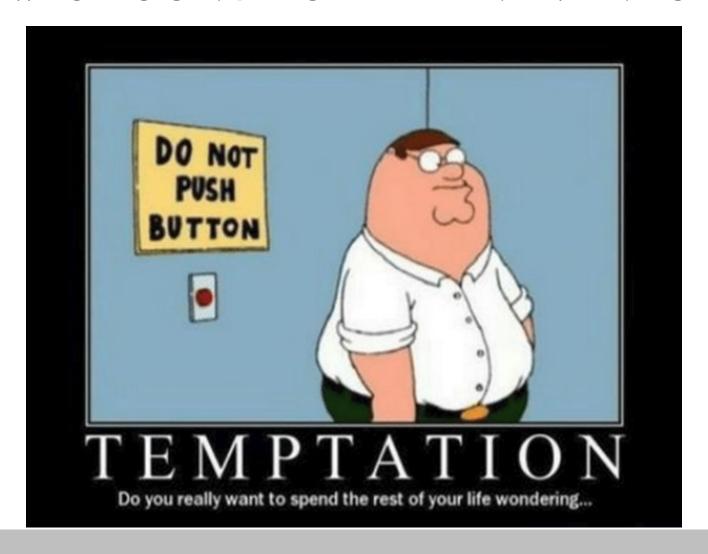
There is a special line in Forsythe Hall for ITOC to use to contact the City of Palo Alto Dispatch Center directly without dialing a phone number. When an inquiry was made to the CPA Dispatch Center about the ring down line no one from the dispatch center was aware of this feature or what telephone number the ring down line called.

Resources (People)

This year the lockdown test was performed by 3 staff members from the Card Services Technical team and 1 staff member from the ID Card Office. This was the 2nd year that the same 3 staff members participated in the lockdown preparations/testing and cross trained together. Now that all 3 staff are trained on the lockdown preparations/testing future tests could be done with 2 Card Services Technical staff members (at a minimum) but having 3 made coordinating and testing with other staff/groups easier.



IT WAS BOUND TO HAPPEN EVENTUALLY



Questions?





THANK YOU!!!!!



Jonathan Randolph

Application Administrator/Software Developer

jrandolp@stanford.edu

650-723-1853