



Sustainability of a Robust Technology Infrastructure During Hurricane Harvey: August 25, 2017 – September 11, 2017

As part of the [article](#) requested by the Consortium of School Network (CoSN) about technology crisis preparedness, Frankie Jackson worked with Oscar Villar and David Deitsch (Presidio) to prepare a network analysis of system availability during hurricane Harvey and the floods afterwards. Campus connectivity was sustained at **99.3%** which is indicative of the district's robust technology infrastructure. **Needless to say the team is so proud!**

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Thank you team!

August 25, 2017 - September 11, 2017

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| Date | Day of the Week | Hurricane Harvey Wind Flood Notes | Connections to Campuses | Backup Connections to Campuses | Campus Network Closets | Campus Network Stacks | Campus Network Switches | Data Center 2 (Tier 2) | Data Center 3 (Tier 3) | Data Center 4 (Tier 4) |
|--|--------------------|---|-------------------------|--------------------------------|------------------------|-----------------------|-------------------------|------------------------|------------------------|------------------------|
| 9/11/2017 | Monday | Students returned for 2017-2018 School Year | 99.1% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 9/8/2017 | Friday | Staff prepare for 2017-2018 School Year | 99.1% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 9/7/2017 | Thursday | Staff returned to work after hurricane Harvey | 99.1% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 9/6/2017 | Wednesday | All Systems Available | 99.1% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 9/5/2017 | Tuesday | All Systems Available | 99.1% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 9/4/2017 | Monday (Labor Day) | All Systems Available | 99.1% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 9/3/2017 | Sunday | All Systems Available | 99.1% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 9/2/2017 | Saturday | Reconnected Moore Elementary | 99.1% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 9/1/2017 | Friday | Relocated Moore Elementary | 99.1% | 100.0% | 98.8% | 99.0% | 99.1% | 100.0% | 100.0% | 100.0% |
| 8/31/2017 | Thursday | Flooding Subsided - Lost Moore Elementary | 99.1% | 100.0% | 98.6% | 98.9% | 98.9% | 100.0% | 100.0% | 100.0% |
| 8/30/2017 | Wednesday | Flooding Continued | 99.1% | 100.0% | 97.8% | 98.3% | 98.5% | 100.0% | 100.0% | 100.0% |
| 8/29/2017 | Tuesday | Flooding Continued | 99.1% | 100.0% | 96.2% | 96.6% | 96.8% | 100.0% | 100.0% | 100.0% |
| 8/28/2017 | Monday | Flooding Continued | 100.0% | 100.0% | 99.4% | 99.4% | 99.3% | 100.0% | 100.0% | 100.0% |
| 8/27/2017 | Sunday | Hurricane Harvey flooding started | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 8/26/2017 | Saturday | Hurricane Harvey hit | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| 8/25/2017 | Friday | Last summer work day | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| Average System Availability During Floods | | | 99.3% | 100.0% | 99.3% | 99.4% | 99.5% | 100.0% | 100.0% | 100.0% |
| Total numbers of campuses, network closets, network electronics and Data Centers | | | 109 | 109 | 504 | 700 | 2249 | 1 | 1 | 1 |