# Technology Committee Meeting

March 12, 2020

**Dr. Rene Gutierrez, Superintendent**
**Dr. Nellie Cantu, Deputy Superintendent**

**Committee Members**

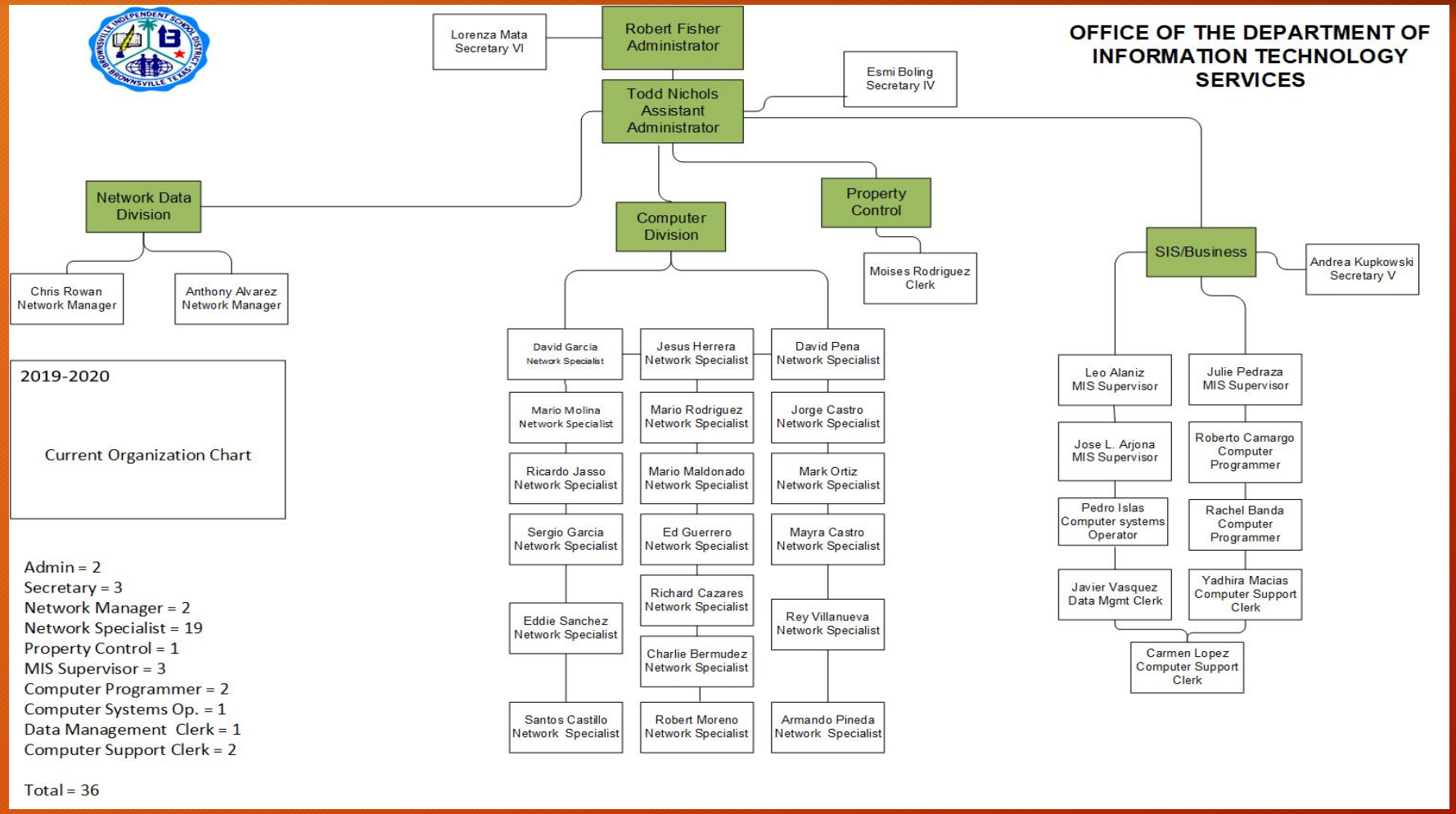
**Philip T. Cowen – Chair**
**Dr. Sylvia P. Atkinson, Vice Co-Chair**
**Minerva M. Peña – Member**
**Laura Perez-Reyes – Member**

**Presented by: Robert Fisher**

# State of District Technology

1. BISD Technology Organizational Chart
2. District Infrastructure
3. District-Wide Hardware
4. Technology Use for Instruction
5. District Computer Labs
6. Instructional Support at Campuses
7. Technology – Current, Vision, and Future

# BISD Technology Organizational Chart

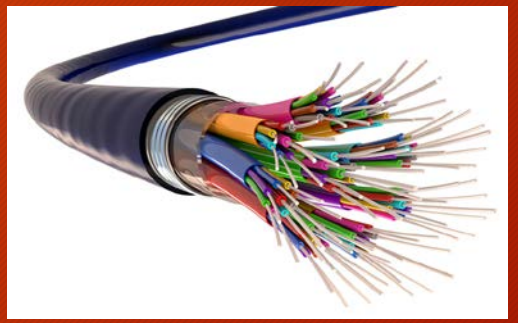


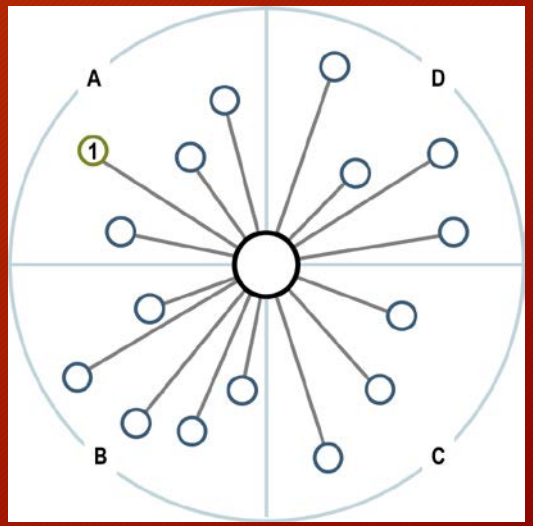

Total number of employees = 36

- Computer Division/ Network Division = 26
- Business Division = 10

# District Infrastructure

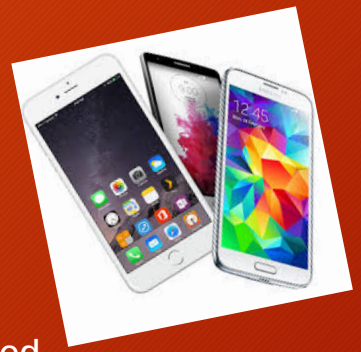
1. BISD has 2 ISP providers who each supply 10 GB of Internet Service (20 GB Total)
2. BISD has dual 10 GB fiber transports to each district location
3. BISD has 10 GB Fiber connections between all MDF (Main Distribution Frame) and IDF (Intermediate Distribution Frame) locations
4. BISD is 100%  Voice over IP (Network Telephone)
5. BISD District Wide FAX Server
6. E-Rate (Funded 1999-2019) (2020 – Application Filed)
   - Wiring (85% Discount)
   - Hardware (85% Discount)
   - Internet Service (90% Discount)





# District-Wide Hardware

1. All MDF (Core Locations) and IDF locations throughout BISD have new and updated switches



2. Wireless Coverage throughout all of BISD
   - Wireless accounts for BISD Devices (Internal Resources)
   - Wireless accounts for non BISD Devices (Internet Access Only)

3. Cybersecurity – Senate Bill 820
   - Firewall (Prevent unauthorized access to or from a private Network) - CIPA required.
     - Palo Alto Firewall allows us to see North and South Traffic
     - Currently doing a Proof of concept with East and West Traffic (Track Internal Traffic)
   - ClearPass (Wireless access for iPads, non-windows devices etc.)
   - Amp (Cisco Malware Protection)
   - Kaspersky (Antivirus Solution)
   - Vmware – (Multiple operating systems over a single physical host)
   - Password Protection (AD single sign on), Password Enforcement.

# Technology Use for Instruction

1. JAMF (Mobile Device Management (MDM) for District iPad's
2. Microsoft Innovative Education Certifications ( MIE Teacher Academy)
3. Microsoft Applications
   - TEAMS
   - OneDrive
   - Microsoft Exchange
4. Software Certifications
   1. Google Education
      1. Teacher Certifications (Region 1 Certifications)
      2. Student Certifications – (New C.T.E. course offering for the 2019-2020 School Year)
   2. Microsoft Certifications
      1. Teacher Certifications – (Microsoft Innovative Educator (**MIE**) Expert program)
      2. Student Certifications – (Since the 2016 School Year, 627 Students have earned their certification)
5. Coding – Elementary Code Clubs offer hands-on experiences that provide challenging and innovative concepts in learning, problem solving, and analytical skills while fostering an interest in computer science/programming.
6. C.T.E. Programs
7. District Benchmark Testing

# District Computer Labs – Elementary

| Campus | Computer Labs | Campus | Computer Labs | Campus | Computer labs |
|---|---|---|---|---|---|
| Aiken | 3 | Gallegos | 2 | Perez | 2 |
| Benavides | 1 | Garden Park | 2 | Pullam | 2 |
| Breeden | 3 | Garza | 2 | Putegnat | 3 |
| Brite | 2 | Gonzalez | 2 | Russell | 3 |
| Burns | 4 | Hudson | 3 | Sharp | 2 |
| Canales | 2 | Keller | 4 | Skinner | 3 |
| Castaneda | 2 | Martin | 2 | Southmost | 2 |
| Champion | 2 | Morningside | 2 | Vermillion | 3 |
| Cromack | 2 | Ortiz | 2 | Villa Nueva | 3 |
| Del Castillo | 2 | Palm Grove | 2 | Yturria | 2 |
| Egly | 4 | Paredes | 2 | | |
| El Jardin | 3 | Pena | 3 | *Labs of 25 | Computers |

# District Computer Labs – Middle School

| Campus | Computer Labs | Campus | Computer Labs | Campus | Computer labs |
|---|---|---|---|---|---|
| | | | | | |
| Besteiro | 7 | Lucio | 7 | Stell | 8 |
| BLA MS | 3 | Manzano | 5 | Stillman | 4 |
| Faulk | 6 | Oliveira | 5 | Vela | 5 |
| Garcia | 7 | Perkins | 2 | BAC | 4 |
| | | | | *Labs of 25 | Computers |

# District Computer Labs – High School

| Campus | Computer Labs | Campus | Computer Labs | Campus | Computer labs |
|---|---|---|---|---|---|
| | | | | | |
| BECHS | 5 | Lincoln Park | 1 | Porter | 7 |
| BLA HS | 3 | Lopez | 17 | Rivera | 18 |
| Hanna | 22 | Pace | 25 | Veterans | 14 |
| | | | | *Labs of 25 | Computers |

# Instructional Support at the Campuses

1. Designated TST's (Technology Support Teacher) are appointed by campus administration. At the MS and, Elementary campuses, if the TST is a teacher, they will only perform TST duties before school, during their conference period and after school. If assistance is needed, the district TST will be available to assist to ensure instruction is not interrupted

   - TST's perform technology duties as directed
   - TST's submit work order tickets through a work order system when needed
   - District Network Technicians receive respective work order tickets

# State of Technology - Current

1. Network is state of the art
2. ISP services meet and exceed the need for current bandwidth
3. Windows 7 upgrade to Windows 10 Devices
4. Strengthen the ties with Curriculum and Professional Development

# State of Technology - Vision

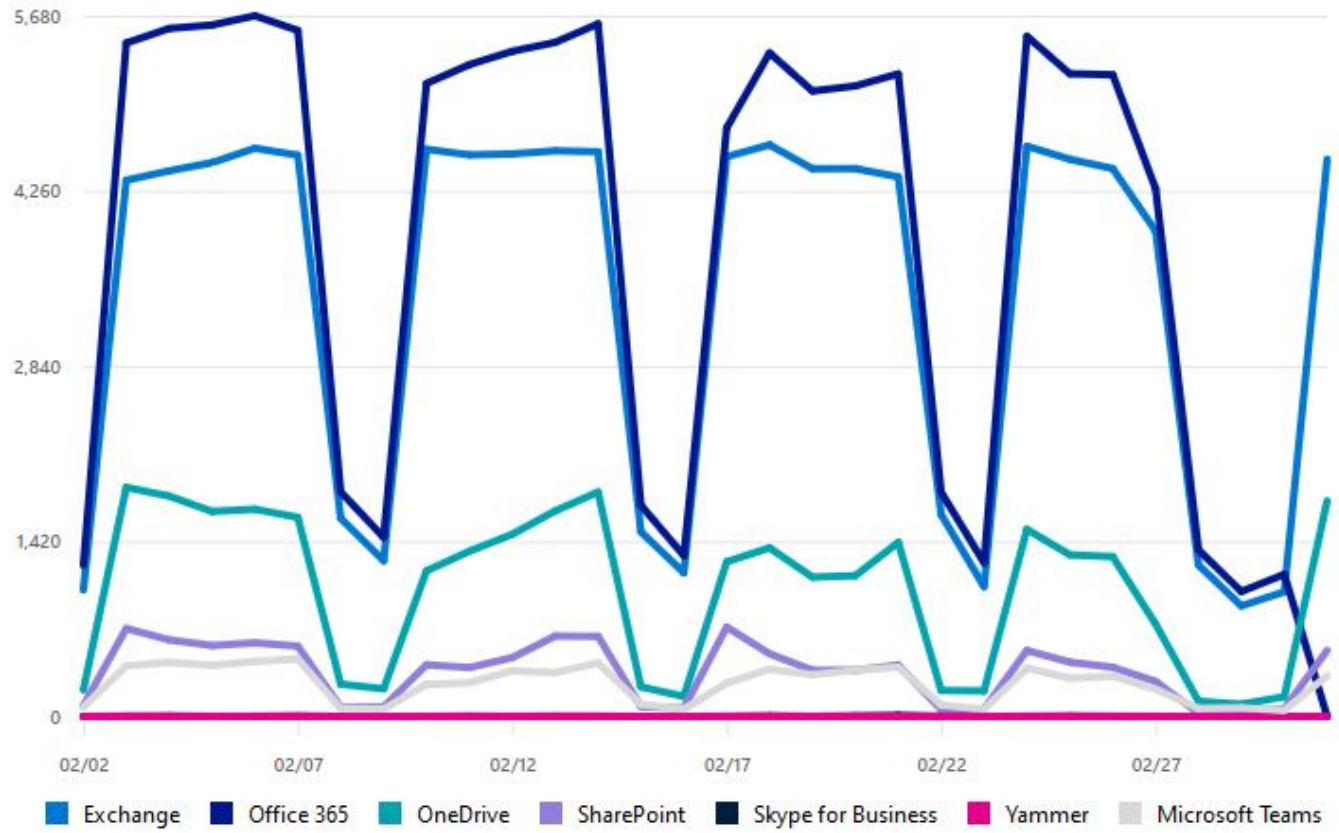
The schools become an environment where all students and staff have ready access to a full range of current technology, software tools, and applications. The schools have knowledgeable staff and external resources (such as parents, community members, business, higher education, and network resources) to further the curriculum goals.

# State of Technology – To Do!

1. **Technology Devices need** be on a regular update and **replacement** schedule
2. Align Funding sources with purchasing procedures
3. Ensure policy and procedures are in place for the whole district
4. Strengthen the ties with Curriculum and Professional Development
5. District Technology Plan needs to be aligned with the goals of the District Improvement plan
6. Always be prepared for what is out there….

Office 365 active users report

# Active users

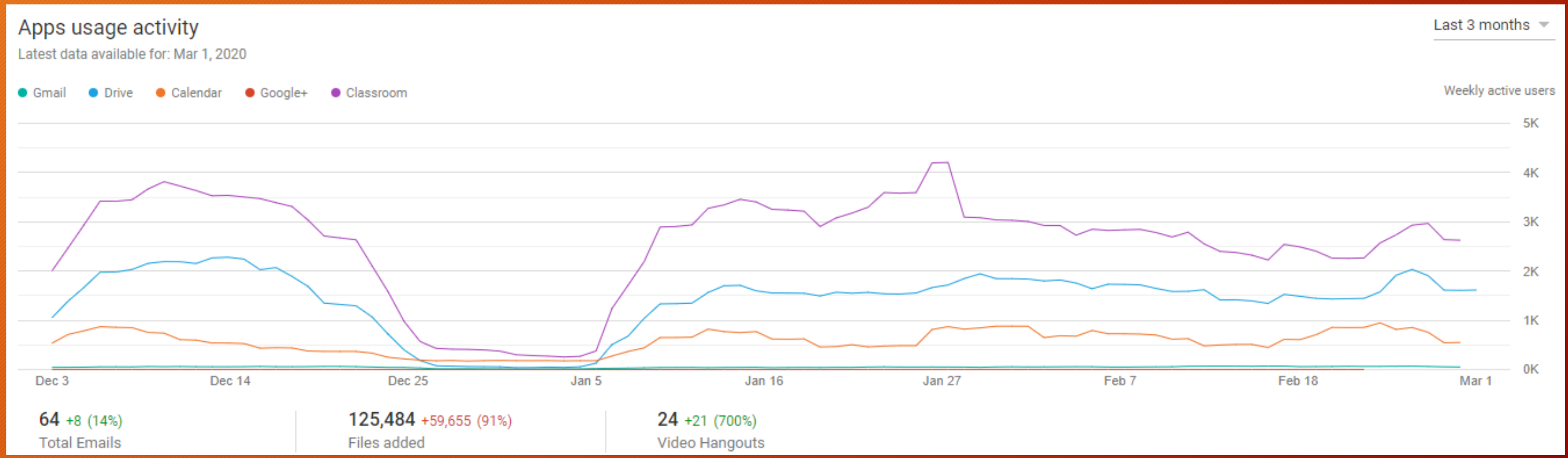


# BISD Technology Clusters

| | | |
|---|---|---|
| Esmi | 548-8241 | |
| Lorenza | 548-8164 | |
| Fisher | 554-2727 | |
| Todd | 554-2702 | TS-9 |
| Anthony | 554-2704 | |
| | | |
| Chris | 554-2707 | TS-15 |
| | | |
| Eddie | 554-2713 | |
| Moises | 698-0354 | 13-24 |
| Santos | 554-2721 | TS-6 |
| Rey | 698-1248 | TS-21 |
| | | |
| | | |

| | | |
|---|---|---|
| Armando | 554-2714 | TS-25 |
| Ricardo J | 698-0922 | TS-1 |
| Charlie | 548-9875 | TS-17 |
| David G | 698-1560 | TS-18 |
| David P | 698-1304 | TS-7 |
| | | |
| Ed | 554-2712 | TS-8 |
| | | |
| Richard C | 698-0818 | TS-2 |
| Jesus | 698-1706 | TS-4 |
| Jorge | 698-0169 | TS-23 |
| Mario Ma | 698-2319 | TS-19 |
| Mario Mo | 698-1920 | TS-12 |
| Mario R | 698-2856 | TS-16 |
| Mark | 698-2385 | TS-10 |
| Mayra | 698-1504 | TS-11 |
| Robert M | 554-2720 | TS-22 |
| Sergio | 698-1710 | TS-20 |

| Ed | David G. | Sergio | Mark | Richard C. | David P. | Robert | Mario Ma. | | Santos |
|---|---|---|---|---|---|---|---|---|---|
| Symmetra | Besteiro | Main Office | MDM | Faulk | Garcia | Oliveira | Lucio | | Exchange |
| IT Reports | Lopez | Aquatic | Apple/JAMF | Porter | Rivera | Hanna | Lincoln Park | | Commvault |
| | Palm Grove | | | Cromack | BAC | Perez | Brite | | Archive Mgr |
| | Aiken | | | Castaneda | Vermillion | Egly | El Jardin | | IronPorts |
| | Southmost | | | Canales | Pena | Hudson | Champion | | |
| | Del castillo | | | Morningside | Gonzalez | Martin | Southmost | | Kemp / F5 |
| | Garza | | | | | | | | |
| | | | | | | | | | Active Dir |
| **Mayra** | **Jesus** | **Jorge** | **Ricardo J** | **Mario R.** | **Mario Mo** | **Armando** | | **Eddie** | **Rey** |
| Perkins | Vela | Cisco Umbrella | CAB | Stell | Manzano | AD Accounts | | Active Dir | Bi-Tech |
| BECHS | Burns | Cisco Amp | Special Services | Pace | Stillman | District Images | | Backup Asst | Blade Srvs |
| Russell | Paredes | District Images | Annex | BLA | Veterans | Group Policy | | Blade Srvrs | Dell Quotes |
| Putegnat | Gallegos | Active Directory | Records | Benavides | Villa Nueva | | | Call Mgr | Eduphoria |
| Sharp | Breeden | Kaspersky | Transporatio | Pullam | Keller | | | Cisco | Fitness Gram |
| **Skinner** | Ortiz | Work Order Sys | Facilities | Garden Park | Yturria | | | FSAE | School Mess |
| | | | Warehouse | Martin | | | | Webserver | Time Ware |
| | | | Maintenanc | | | | | | Active Dir |

Colors Represent Technician Backups

# Google Apps Usage