Enterprise Infrastructure Compendium

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Engineering Projects Manager

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Construction Manager

Communications Technologies
What is it?

- Primary Repository for IT Infrastructure Data
- Consolidates data from multiple sources
- In-house custom database
### EPIC Inventory

<table>
<thead>
<tr>
<th>Item</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buildings</td>
<td>278</td>
</tr>
<tr>
<td>Rooms</td>
<td>23,157</td>
</tr>
<tr>
<td>Closets</td>
<td>IDF:376/ BDF: 237</td>
</tr>
<tr>
<td>Racks</td>
<td>1,563</td>
</tr>
<tr>
<td>Outlets</td>
<td>44,693</td>
</tr>
<tr>
<td>Jacks</td>
<td>131,124</td>
</tr>
<tr>
<td>Switches</td>
<td>2,246</td>
</tr>
<tr>
<td>Ports</td>
<td>85,468</td>
</tr>
</tbody>
</table>

![Map of EPIC Campus with sections marked as WEST, NORTH, SOUTH, and CENTENNIAL]
**Before**

- Unregulated LAN Admin’s
- Random patching
- Random port activations
- Undocumented cabling standards
- Always dispatching Technicians
- Life cycle planning difficult

**After**

- Consolidated LAN changes
- Controlled & documented patches
- Active ports controlled & known
- Complete cabling catalogue by building
- Fewer dispatches
- Better customer support
- Shorter time to resolve tickets
- Improved life cycle planning
Data Collection Process

- Formal Change Management Established
- Closets Re-keyed
- Mixture of Student and Temp Labor
- Database development
- Manual Tracing
- Froze Changes one building at a time
- Almost 2 years to complete
Change Management:

- Paper forms - Contractors & Technicians
- Online forms - Network Operations
**ComTech**

**Office of Information Technology**

**Communication Technologies**

**Infrastructure Records Change Form**

<table>
<thead>
<tr>
<th>CAT 5A</th>
<th>CAT 5</th>
<th>CAT 5 STANDARD</th>
<th>CAT 5 DORM</th>
<th>CAT 5 QUAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>R W</td>
<td>V1 B2</td>
<td>V2 B1</td>
<td>UR G1</td>
<td>G1 G2 G3 G4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OUTLET</th>
<th>ROOM</th>
<th>JACK</th>
<th>ADD/REMOVE PATCH</th>
<th>ADD/REMOVE OUTLET</th>
<th>ESI CEILING Firewall</th>
<th>WALL Eloor</th>
<th>WAR WIRING REMOVED TO BLOCK YES/NO</th>
<th>SWITCH NAME &amp; IP</th>
<th>PORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example 217-45</td>
<td>Example 122</td>
<td>Example RED</td>
<td>Example REMOVE</td>
<td>Example ADD</td>
<td>Example SSI</td>
<td>Example YES</td>
<td>Example cac-217-3569p-1 10.263.24.1</td>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>

---

**BICSI FALL Conference & Exhibition**
### Drawing Notes:

**Drawing Notes:**

Records completed by:  

**DWG by**  

On **Internal Work Order**

**Building Name/Number:** 782A  

**Date:** 7-17-20  

**Field Technician Name:**  

**Technician work order #:** 14552

---

### CAT 5A

<table>
<thead>
<tr>
<th>OUTLET</th>
<th>ROOM</th>
<th>JACK</th>
<th>ADD/REMOVE PATCH</th>
<th>ADD/REMOVE OUTLET</th>
<th>SHR FLOOR</th>
<th>WAS WIRING REMOVED TO BLOCK</th>
<th>YES/NO</th>
<th>SWITCH NAME &amp; IP</th>
<th>PORT</th>
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<tbody>
<tr>
<td>R</td>
<td>W1</td>
<td>B1</td>
<td></td>
<td></td>
<td></td>
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### CAT 5B

<table>
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<th>ROOM</th>
<th>JACK</th>
<th>ADD/REMOVE PATCH</th>
<th>ADD/REMOVE OUTLET</th>
<th>SHR FLOOR</th>
<th>WAS WIRING REMOVED TO BLOCK</th>
<th>YES/NO</th>
<th>SWITCH NAME &amp; IP</th>
<th>PORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>V2</td>
<td>B1</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>W3</td>
<td>B2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

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### CAT 5 QUAD

<table>
<thead>
<tr>
<th>OUTLET</th>
<th>ROOM</th>
<th>JACK</th>
<th>ADD/REMOVE PATCH</th>
<th>ADD/REMOVE OUTLET</th>
<th>SHR FLOOR</th>
<th>WAS WIRING REMOVED TO BLOCK</th>
<th>YES/NO</th>
<th>SWITCH NAME &amp; IP</th>
<th>PORT</th>
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</thead>
<tbody>
<tr>
<td>G2</td>
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<td></td>
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<td></td>
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</tbody>
</table>

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### CAT 6 STANDARD

<table>
<thead>
<tr>
<th>OUTLET</th>
<th>ROOM</th>
<th>JACK</th>
<th>ADD/REMOVE PATCH</th>
<th>ADD/REMOVE OUTLET</th>
<th>SHR FLOOR</th>
<th>WAS WIRING REMOVED TO BLOCK</th>
<th>YES/NO</th>
<th>SWITCH NAME &amp; IP</th>
<th>PORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>UR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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### CAT 5 ROOM

<table>
<thead>
<tr>
<th>OUTLET</th>
<th>ROOM</th>
<th>JACK</th>
<th>ADD/REMOVE PATCH</th>
<th>ADD/REMOVE OUTLET</th>
<th>SHR FLOOR</th>
<th>WAS WIRING REMOVED TO BLOCK</th>
<th>YES/NO</th>
<th>SWITCH NAME &amp; IP</th>
<th>PORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>V3</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### CAT 5 QUAD

<table>
<thead>
<tr>
<th>OUTLET</th>
<th>ROOM</th>
<th>JACK</th>
<th>ADD/REMOVE PATCH</th>
<th>ADD/REMOVE OUTLET</th>
<th>SHR FLOOR</th>
<th>WAS WIRING REMOVED TO BLOCK</th>
<th>YES/NO</th>
<th>SWITCH NAME &amp; IP</th>
<th>PORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>G4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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### OUTLET 20856 V1

- **ADD:**
  - **ADD:**
    - AP
  - **PORT:** 35
  - **Example:** ceo.217.3580p1
  - **Example:** 10.258.2.181
**Office of Information Technology**
**Communication Technologies**
**Infrastructure Records AP Change Form**

**Building Name/Number:** 702 A  
**Date:** 9-17-20

**Field Technician Name:** Moo H  
**Technician work order #:** 1-1552

**Technician Notes:** Added one 5341 AP

<table>
<thead>
<tr>
<th>Room</th>
<th>AP Name</th>
<th>Add/Remove</th>
<th>Outlet</th>
<th>Jack</th>
<th>Serial #</th>
<th>Mac Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>2026</td>
<td>ebl-2026-5341</td>
<td>Add</td>
<td>2076-250</td>
<td>v1</td>
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</tr>
</tbody>
</table>

---

*****Please submit this form and floor plans with AP locations*****
INSTALL OUTLET AND AP-534 AT APPR. 15" BELOW ACOUSTIC CEILING.

SO202014552
<table>
<thead>
<tr>
<th>Rack</th>
<th>Rack Unit</th>
<th>Name of UPS</th>
<th>Model# of UPS</th>
<th>Install Cables Replace UPS</th>
<th>Install Change Date</th>
<th>Battery Replacement Date</th>
<th>Connected To Switch</th>
<th>Port</th>
</tr>
</thead>
<tbody>
<tr>
<td>732E-1</td>
<td>1</td>
<td>4</td>
<td>5523-1</td>
<td>5523-1</td>
<td>5/22/01</td>
<td>1/8/20</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>732E-1</td>
<td>5</td>
<td>5</td>
<td>5523-1</td>
<td>5523-1</td>
<td>5/22/01</td>
<td>1/8/20</td>
<td>24</td>
<td></td>
</tr>
</tbody>
</table>

***Rack layout is on reverse side please fill out where appropriate***
<table>
<thead>
<tr>
<th>Building: 783E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date: 7/30</td>
</tr>
<tr>
<td>Technician Name: Tech</td>
</tr>
<tr>
<td>Rack Number: 783.E-143-1</td>
</tr>
<tr>
<td>Rack Unit: 4+10</td>
</tr>
<tr>
<td>Notes: UPS-1, UPS-2</td>
</tr>
</tbody>
</table>

Internal Use: Records completed by ____________________ Date: ____________
<table>
<thead>
<tr>
<th></th>
<th>Indoor / Outdoor</th>
<th>SM / OM3 / MM-62.5</th>
<th># Strands</th>
<th>Ent. / Riser / Horiz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ex.</td>
<td>OF-CMDF/TEX-1</td>
<td>Outdoor</td>
<td>SM</td>
<td>36</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Room #</th>
<th>MDF / BDF / IDF / X-con</th>
<th>Connector Type</th>
<th>Strand</th>
<th>Panel #</th>
<th>Housing #</th>
<th>Rack#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ex.</td>
<td>Partners 1</td>
<td>MDF</td>
<td>FCLJ</td>
<td>P1-P8</td>
<td>P1-P6</td>
<td>H-81-C</td>
<td>81</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Room #</th>
<th>MDF / BDF / IDF / X-con</th>
<th>Connector Type</th>
<th>Strand</th>
<th>Panel #</th>
<th>Housing #</th>
<th>Rack#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ex.</td>
<td>Textiles</td>
<td>BDF</td>
<td>FCU</td>
<td>F1-F36</td>
<td>P1-P6</td>
<td>H-1-A</td>
<td>700-G113B-1</td>
</tr>
</tbody>
</table>

Page 1 of 1
**SWITCH NAME & IP** | **ADD/REMOVE SWITCH** | **RACK NUMBER** | **RACK UNIT**
---|---|---|---
EXAMPLE abc-123-3650-1 10.253.25.1 | Remove | 012-123-1 | 12

***Rack layout is on reverse side please fill out where appropriate***
Online Form Example:

What would you like to do?
- Replace Switch
- Add Switch
- Remove Switch
- New Patch
- Change Existing Patch
- Remove Patch
- Configure/Name/Patch UPS
- Rename UPS
- Add/Change Device
- Remove Device

- Building*
  - Enter building name, number or short name.

- Switch Name*
  - ex. afh-117-3650-1

- Port*
  - ex. 5

- Outlet*
  - ex. 117-078

- Jack*
  - ex. D1

ex. 12.23.45.6
Access web portal

Public PLA Ground

Building Search - view building network infrastructure information

[Input field for Building Name, Number or Abbreviation] Find Building
Available

- Building search
- Floor plans
- Outlet search
- Patching data
- Switch data
- Closets
- Racks
- Metrics
- Sandbox Tools

Future

- OSP Fiber
- Ductbank
- Life Safety
Demo

- User Interface
- Metrics
- Fiber Inventory Data
Contact:

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(919)-515-0002