Introduction:

The following policies regulate activities at the CU Denver | Anschutz Medical Campus Data Centers. These rules are intended to ensure the safety and security of individuals and equipment in the Data Centers. Failure to adhere to these policies may result in the expulsion of individuals from the Data Centers and could result in the termination of access. Customers shall be responsible for all repair charges associated with any damage caused by failure to adhere to these policies.

Appropriate response to violations of these policies shall be solely within the discretion of CU Denver and CU Anschutz Medical Campus Office of Information Technologies (OIT). OIT reserves the right to update, modify, or amend these rules, as needed.

Failure to knowingly comply with the following procedures is grounds for immediate removal from the facility. All persons allowed access to critical areas must review these policies and work rules and demonstrate their understanding of these procedures most applicable to their activity.

Data Center Procedures and Use Guidelines:

General Rules:

- All Customers and Customer vendors shall conduct themselves in a courteous and professional manner while in the Data Centers. Customers shall refrain from using any profanity or offensive language.
- Customers may not tamper with, or in any manner affect, security, infrastructure monitoring, and/or safety systems within the Data Center.
- Customers must cooperate and obey all reasonable requests of Data Center Staff while within the Data Centers, including immediately addressing any violations of rules when brought to Customers’ attention.
- Upon activation of a smoke detector or emergency alarm, all Customers (their employees and vendors) must be prepared to evacuate the Data Center and or building. Further instructions and re-entry will be coordinated with OIT Staff.
- No photographs shall be taken inside the data center without the explicit permission from CU Denver and CU Anschutz Medical Campus OIT and possibly CU Denver and CU Anschutz Legal department.
- Customers are expected to be familiar with and adhere to all OSHA standards associated with working in a Data Center environment.

Physical Security:

- For more details reference CU Denver-Anschutz Medical OIT DC Access and Physical Security Policy
CU Denver and CU Anschutz Medical Campus Data Centers are secured facilities. Access to the Data Centers and other areas of the facility are restricted to those persons with authorization. Customers are restricted to authorized areas only, including common areas and customer racks within the Data Centers.

Security controls include the following:

- Sign-in procedures for all ingress and egress
- Managed key and access card plans
- Managed access permissions and access request methods.

Closed-circuit television (CCTV) cameras are used to monitor all areas of the Data Centers.

- All CCTV cameras are monitored and images are retained. Violations noted by camera will be addressed promptly.
- Tampering with, or in any manner adversely affecting, security and/or safety systems within the Data Centers is strictly prohibited.

Exterior Data Center doors may not be propped open. These access doors are monitored and alarmed.

CU Denver and CU Anschutz Medical Campus OIT reserves the right to access any part of the Data Centers at any time for safety and security reasons.

Data Center customer will not add security devices that would hinder Data Center Management access to any individual rack or space therein.

**Data Center Ingress and Egress:**

- For details reference CU Denver-Anschutz Medical OIT DC Access and Physical Security Policy

**Access List Management:**

- For details reference CU Denver-Anschutz Medical OIT DC Access and Physical Security Policy

**Common Areas:**

The common areas, and room areas within the Data Centers are for the common use by all CU Denver and CU Anschutz Medical Campus Customers. The Data Centers common areas are offered as a convenience for the preparation of new equipment and the removal of old equipment.

- The Data Center common area is not to be used as an office work area.
- Equipment assembly and similar functions are restricted to the common areas.
- The use of this area will be limited to specific duties detailed above and may not be monopolized for more than 24 hours.
- CU Denver and CU Anschutz Medical Campus OIT are not liable for Customer assets left unattended in this area.

CU Denver and CU Anschutz Medical Campus reserves the right to deny access to those Customers who abuse the common areas and the rights of other Customers.

**Customer Provided Equipment Standards:**

- All equipment must be installed in the racks taking into consideration weight distribution with the heaviest starting in the bottom most location first and moving up.

- All components of the equipment, including any required peripherals or network components, are the sole responsibility of the customer equipment owner.
- No OIT equipment will be placed in racks designated for Departmental use.
- Placement of operating equipment outside of rack(s), is strictly prohibited.
- Equipment requirements for hosting within the North Classroom or Fitzsimons data center environment
  - All server and ancillary equipment residing in the data center must be rack mountable
  - Equipment must utilize front to back air flow for hot aisle containment
  - Equipment must have redundant power supplies.
  - All power and data cables will be installed on separate rack sides if possible.
  - Equipment will be labeled with the equipment name on the front, back, and any removable face plates.
  - All equipment in the data center shall have unique names.
  - Equipment shall not be labeled with external IP addresses visible from outside the host rack
- Equipment requirements for hosting with the AHSB Data Center must meet the minimum requirements as defined in AHSB Data Center, Minimum Requirements For Hosted Equipment.

- Unless otherwise agreed to in writing, Customers will remove all customer-owned hardware from the Data Center no later than the Effective Cancellation Date of Service.

- Non-OIT web cams and audio monitoring and audio capture devices are expressly prohibited in the Data Center.
- Access to racks with customer (non-OIT) equipment will be limited to the following
  - OIT Data Center support personnel will be provided rack access
  - Customer representatives of all customers that have equipment in that rack will be provided rack access

**Racks and Cabling Requirements:**

- Only OIT is empowered to install, manipulate, or remove equipment or physical cabling at the network distribution racks.
  - This includes all networking electronics, associate peripherals, networking SFPs, or other
  - This includes physical structure cabling and all jumpers, copper and fiber optic
Data Center General Environment:

Power Considerations:

- Customers are prohibited from plugging their own power strips into Data Center provided PDU (daisy-chaining). This is in violation of electrical and safety codes.
  - OIT reserves the right to demand their removal.
  - Any violations of this policy must be rectified within one business day.
  - Failure to correct this violation after one business day is a material breach of the terms of the customer's contract.
  - OIT may conduct periodic power audits of Customer Space. Any violation of power limitations must be addressed immediately.
  - All PDUs must not be loaded with more than 80% of base rating.
  - Individual outlets in the PDUs will be turned off as a base setting for PDU deployment.
  - Equipment brought into the Data Center may require Data Center Staff assistance with the installation to help calculate the additional power draw of any new equipment being added to a customer's rack. This assistance is to help ensure customer power SLOs are not jeopardized.

Customer managed racks:

- Customer provided racks are prohibited in the Data Centers.
- Racks shall, at all times, be clean, neat and orderly.
- Customer racks shall not pose any danger or hazard to customer or employees (including subcontractors) that may be requested or required to enter the Data Centers to perform a service or to any other customers of the Data Centers.
- Customers must take all necessary precautions to ensure the physical security of property contained within their Rack(s).
- No combustible material, i.e. cardboard, foam, or paper may be stored in Customer rack(s).
- To ensure maximum ventilation Blanketing Panels must be utilized on all open rack spaces within and between all equipment in the racks at all times.
- Customers may not make physical alternations or modifications to rack, without prior written permission from OIT.

- Customer failure to remedy the situation will result in assessment of time and material fees if CU Denver | Anschutz Medical Campus OIT takes action to make the Customer rack or cabling compliant.
- SLOs do not apply until the rack or cabling complies with the requirements.

Environmental Devices:

- Customers are allowed to install their own environmental sensing devices within the racks where their equipment resides.
  - Readings from Customer installed environmental sensing devices in a rack will be considered secondary to the Data Centers environmental monitoring for purposes of determining proper response by OIT Data Center Management.
  - Individual or free-standing electrical devices such as humidifier/dehumidifier, fans, air circulators, or air filters are not permitted in the Data Centers.
- Fans integrated into racked equipment (servers, routers, switches) are permitted.
- Environmental condition concerns may be addressed by Customers by opening a service ticket with the OIT Service Desk.

OIT reserves the right to decline implementation of a change if OIT determines the Customer rack or cabling is not in compliance. Customers in violation will be notified by OIT in writing and Customer must remedy the situation immediately.

- If a Customer needs to move a floor tile they must notify Data Center Management and officially request this service by initiating a service ticket via the OIT Service Desk.
- Rack doors may be removed with OIT approval while Customer is working within the rack but must be replaced before Customer exits the Data Center.
- All rack doors must be closed when the data center is unoccupied.
- If there is an issue concerning door closure or functioning, Customers must contact the Data Center Management staff for assistance by initiating a service ticket via the OIT Service Desk.
- Do not pry, bend, or force the doors open.

Customers in violation will be notified by OIT in writing and Customer must remedy the situation immediately.

- Customers are prohibited from plugging their own power strips into Data Center provided PDU (daisy-chaining). This is in violation of electrical
  and safety codes.
- OIT reserves the right to demand their removal.
- Any violations of this policy must be rectified within one business day.
- Failure to correct this violation after one business day is a material breach of the terms of the customer's contract.
- OIT may conduct periodic power audits of Customer Space. Any violation of power limitations must be addressed immediately.
- All PDUs must not be loaded with more than 80% of base rating.
- Individual outlets in the PDUs will be turned off as a base setting for PDU deployment.
  - Each piece of equipment to be installed into all racks of the Data Centers must be verified by the Data Center Management to comply
    with the equipment, rack and cabling standards as set forth in this policy before requesting that power be initiated.
  - To request the initiation for power, submit a service request with the OIT Service Desk.
- Equipment brought into the Data Center may require Data Center Staff assistance with the installation to help calculate the additional power draw
  of any new equipment being added to a customer's rack. This assistance is to help ensure customer power SLOs are not jeopardized.

Data Center General Environment:

- Customers are prohibited from lifting or moving floor tiles. The sub-floor area is a restricted area, accessible by OIT Staff only.
  - If a Customer needs to move a floor tile they must notify Data Center Management and officially request this service by initiating a
    service ticket via the OIT Service Desk.
  - The tops of the racks or ladder rack may not be used for physical storage.
• Customers, in coordination with the Data Center Staff, must implement appropriate protection plans to prevent damage to Data Center infrastructure from customer shipments (plywood on raised floors, walls, overhead clearance, etc.).
  ◦ Customers shall pack all equipment outside of the Data Center Computer Rooms. No cardboard, packaging, paper and taping is allowed inside the Data Center Computer Rooms.

Data Center Support Equipment:

• Data Center equipment such as tools, dollies, carts, monitor and keyboards will be available to Customers on a first-come, first-served basis.
• Customers are responsible for all loaned equipment while it is checked out and shall return the equipment immediately.
• Modification of equipment on loan from the Data Center is not permitted without prior written approval from Data Center Management.

Shipping and Receiving:

• Customers may contact Data Center Staff for assistance with large amounts of equipment, shipments or large devices.
  ◦ Customers must notify Data Center Management of any such deliveries that will require processing through the loading dock by submitting a Delivery Notification service ticket via the OIT Service Desk to the Data Center.
  ◦ To receive equipment, contact Data Center Management 10 days prior to shipment delivery to alert the Data Center Staff of a delivery via a service ticket initiated through OIT Service Desk.
  ◦ All packages shipped to the Data Centers must have the Customer's name and customers phone number on the shipping label. Any unidentified packages delivered to the Data Center will be refused.
  ◦ Data Center Staff will not move, unpack or uncrate any Customer owned equipment. Customers are responsible for unpacking, uncrating, and movement of heavy equipment to the Data Center floor, including all associated costs.
  ◦ All equipment to be installed in the Data Centers shall be unpacked outside the Data Center Computer Room and only the actual equipment shall be allowed inside the Computer Rooms of the Data Centers. Common areas are provided for this purpose.
  ◦ Customers, in coordination with the Data Center Staff, must implement appropriate protection plans to prevent damage to Data Center infrastructure (plywood on raised floors, walls, overhead clearance, etc.).
  ◦ The Data Center Staff will not pack and ship any Customer owned equipment.
  ◦ Customers are responsible to ensure their shipper provides all packing material and physically packs the devices for shipping to them. OIT shall not be liable for improper packing and shipping of Customer owned devices.
  ◦ Customers shall pack all equipment outside of the Data Center Computer Rooms. No cardboard, packaging, paper and taping is allowed inside the Data Center Computer Rooms.

Audits:

All Customer requests for audits shall be made in writing and submitted to Data Center Management via a service ticket submitted via the OIT Service Desk.

• All desired audit points must be defined in the request for review.
• Unauthorized audits are strictly prohibited.

Conclusion

Failure to knowingly comply with the following procedures is grounds for immediate removal from the facility. All persons allowed access to critical areas must review these policies and work rules and demonstrate their understanding of these procedures most applicable to their activity.

All users will have been given a copy of the CU Denver | Anschutz Medical OIT Data Center Policies & Procedures and acknowledge their receipt.

• This transfer will take place and be documented as part of the Skillsoft training module (CU: Data Center Policy and Procedures)
• Users will have an opportunity to review and ask questions about these policies and procedures.