

URL: <https://ec2-18-224-246-127.us-east-2.compute.amazonaws.com:8080/api/ENDPOINT>

Add:

add_device:

- **Parameters:**
 - (String) **device:** **d_name**
- **ENDPOINT:**
 - add_device?**device=d_name**
- **Return Values:**
 - (Message string) 'ITEM_ADDED'
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'MISSING_DEVICE'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **d_name** was not set
 - (Message string) 'INVALID_DEVICE'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **d_name** contained invalid characters or exceeded 64 characters
 - (Message string) 'ITEM_EXISTS'
 - **Status:** **ERROR**
 - **Action:** list_devices
 - **Cause:** A device with **d_name** is already present in the database
 - (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

add_manufacturer:

- **Parameters:**
 - (String) **manufacturer:** **m_name**
- **ENDPOINT:**
 - add_manufacturer?**manufacturer=m_name**
- **Return Values:**
 - (Message string) 'ITEM_ADDED'
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'MISSING_MANUFACTURER'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **m_name** was not set
 - (Message string) 'INVALID_MANUFACTURER'
 - **Status:** **ERROR**

- **Action:** None
 - **Cause:** **m_name** contained invalid characters or exceeded 64 characters
- (Message string) 'ITEM_EXISTS'
 - **Status:** **ERROR**
 - **Action:** list_manufacturers
 - **Cause:** A manufacturer with **m_name** is already present in the database
- (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

add_equipment:

- **Parameters:**
 - (Int) **did:** **device_id**
 - (Int) **mid:** **manufacturer_id**
 - (String) **sn:** **serial_number**
- **ENDPOINT:**
 - add_equipment?**did=device_id&mid=manufacturer_id&sn=serial_number**
- **Return Values:**
 - (Message string) 'ITEM_ADDED'
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'MISSING_DEVICE_ID'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **device_id** was not set
 - (Message string) 'MISSING_MANUFACTURER_ID'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **manufacturer_id** was not set
 - (Message string) 'MISSING_SERIAL'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **serial_number** was not set
 - (Message string) 'INVALID_DEVICE_ID.'
 - **Status:** **ERROR**
 - **Action:** query_device
 - **Cause:** **device_id** was set but not an integer
 - (Message string) 'INVALID_MANUFACTURER_ID'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **manufacturer_id** was set but not an integer
 - (Message string) 'ITEM_EXISTS'
 - **Status:** **ERROR**
 - **Action:** query_serial

- **Cause:** Equipment with **serial_number** is already present in the database
- (Message string) 'INVALID_SERIAL'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **serial_number** contained invalid characters or exceeded 64 characters
- (Message string) 'DEVICE_TYPE_INACTIVE'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** Cannot add equipment with an inactive device
- (Message string) 'MANUFACTURER_INACTIVE'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** Cannot add equipment with an inactive manufacturer
- (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

List:

list_devices:

- **Parameters:**
 - (Optional string) **include_inactive:** **include_inactive** ('yes')
- **ENDPOINT:**
 - list_devices?**include_inactive=include_inactive**
- **Return Values:**
 - (JSON) Array [device_id, device_name, status]
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'NO_RESULTS'
 - **Status:** **SUCCESS**
 - **Action:** None
 - **Cause:** Query was successful but returned no results
 - (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

list_manufacturers:

- **Parameters:**
 - (Optional string) **include_inactive:** **include_inactive** ('yes')
- **ENDPOINT:**
 - list_manufacturers?**include_inactive=include_inactive**

- **Return Values:**
 - (JSON) Array [manufacturer_id, manufacturer_name, status]
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'NO_RESULTS'
 - **Status:** **SUCCESS**
 - **Action:** None
 - **Cause:** Query was successful but returned no results
 - (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

Modify:

modify_device:

- **Parameters:**
 - (Int) **did:** **device_id**
 - (String) **device:** **d_name**
 - (String) **status:** **status**
- **ENDPOINT:**
 - modify_device?did=**device_id**&device=**d_name**&status=**status**
- **Return Values:**
 - (Message string) 'ITEM_MODIFIED'
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'MISSING_DEVICE_ID'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **device_id** was not set
 - (Message string) 'MISSING_DEVICE'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **d_name** was not set
 - (Message string) 'MISSING_STATUS'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **status** was not set
 - (Message string) 'INVALID_DEVICE_ID'

- **Status:** **ERROR**
 - **Action:** query_device
 - **Cause:** device_id was set but not an integer
- (Message string) 'INVALID_DEVICE'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** d_name contained invalid characters or exceeded 64 characters
- (Message string) 'INVALID_DEVICE'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** status contained invalid characters or exceeded 64 characters
- (Message string) 'ITEM_EXISTS'
 - **Status:** **ERROR**
 - **Action:** list_devices
 - **Cause:** a device with d_name is already present in the database
- (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

modify_manufacturer:

- **Parameters:**
 - (Int) mid: manufacturer_id
 - (String) manufacturer: m_name
 - (String) status: status
- **ENDPOINT:**
 - modify_device?mid=manufacturer_id&manufacturer=m_name&status=status
- **Return Values:**
 - (Message string) 'ITEM_MODIFIED'
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'MISSING_MANUFACTURER_ID'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** manufacturer_id was not set
 - (Message string) 'MISSING_MANUFACTURER'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** m_name was not set
 - (Message string) 'MISSING_STATUS'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** status was not set
 - (Message string) 'INVALID_MANUFACTURER_ID'
 - **Status:** **ERROR**

- **Action:** query_manufacturer
 - **Cause:** **manufacturer_id** was set but not an integer
- (Message string) 'INVALID_MANUFACTURER'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **m_name** contained invalid characters or exceeded 64 characters
- (Message string) 'INVALID_STATUS'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **status** contained invalid characters or exceeded 64 characters
- (Message string) 'ITEM_EXISTS'
 - **Status:** **ERROR**
 - **Action:** list_manufacturers
 - **Cause:** a manufacturer with **m_name** is already present in the database
- (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

modify_equipment:

- **Parameters:**
 - (Int) **eid:** **equipment_id**
 - (Int) **did:** **device_id**
 - (Int) **mid:** **manufacturer_id**
 - (String) **sn:** **serial_number**
 - (String) **status:** **status**
- **ENDPOINT:**
 - modify_device?**eid=equipment_id&did=device_id&mid=manufacturer_id&sn=serial_number&status=status**
- **Return Values:**
 - (Message string) 'ITEM_MODIFIED'
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'MISSING_EQUIPMENT_ID'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **equipment_id** was not set
 - (Message string) 'MISSING_DEVICE_ID'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **device_id** was not set
 - (Message string) 'MISSING_MANUFACTURER_ID'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **manufacturer_id** was not set

- (Message string) 'MISSING_SERIAL_NUMBER'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **serial_number** was not set
- (Message string) 'MISSING_STATUS'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **status** was not set
- (Message string) 'INVALID_EQUIPMENT_ID'
 - **Status:** **ERROR**
 - **Action:** query_id
 - **Cause:** **equipment_id** was set but not an integer
- (Message string) 'INVALID_DEVICE_ID'
 - **Status:** **ERROR**
 - **Action:** query_device
 - **Cause:** **device_id** was set but not an integer
- (Message string) 'INVALID_MANUFACTURER_ID'
 - **Status:** **ERROR**
 - **Action:** query_manufacturer
 - **Cause:** **manufacturer_id** was set but not an integer
- (Message string) 'INVALID_SERIAL'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **serial_number** contained invalid characters or exceeded 64 characters
- (Message string) 'INVALID_STATUS'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **status** contained invalid characters or exceeded 64 characters
- (Message string) 'ITEM_EXISTS'
 - **Status:** **ERROR**
 - **Action:** query_serial
 - **Cause:** equipment with **serial_number** is already present in the database
- (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

Query:

query_device:

- **Parameters:**

- (Int) **did:** **device_id**
- **ENDPOINT:**
 - query_device?**did=device_id**
- **Return Values:**
 - (JSON) Single {device_id, device_name, status}
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'DEVICE_NOT_FOUND'
 - **Status:** **SUCCESS**
 - **Action:** None
 - **Cause:** Query was successful but returned no results
 - (Message string) 'MISSING_DEVICE_ID'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **device_id** was not set
 - (Message string) 'INVALID_DEVICE_ID'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **device_id** was set but not an integer
 - (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

query_manufacturer:

- **Parameters:**
 - (Int) **mid:** **manufacturer_id**
- **ENDPOINT:**
 - query_manufacturer?**mid=manufacturer_id**
- **Return Values:**
 - (JSON) Single {manufacturer_id, manufacturer_name, status}
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'MANUFACTURER_NOT_FOUND'
 - **Status:** **SUCCESS**
 - **Action:** None
 - **Cause:** Query was successful but returned no results
 - (Message string) 'MISSING_MANUFACTURER_ID'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **manufacturer_id** was not set
 - (Message string) 'INVALID_MANUFACTURER_ID'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **manufacturer_id** was set but not an integer

- (Message string) 'QUERY_FAILED: \$message.'
- **Status:** **ERROR**
- **Action:** None
- **Cause:** SQL query failed

query_id:

- **Parameters:**
 - (Int) eid: **equipment_id**
- **ENDPOINT:**
 - query_id?eid=**equipment_id**
- **Return Values:**
 - (JSON) Single {equipment_id, device_id, manufacturer_id, serial_number, status}
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'EQUIPMENT_NOT_FOUND'
 - **Status:** **SUCCESS**
 - **Action:** None
 - **Cause:** Query was successful but returned no results
 - (Message string) 'MISSING_EQUIPMENT_ID'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **equipment_id** was not set
 - (Message string) 'INVALID_EQUIPMENT_ID'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **equipment_id** was set but not an integer
 - (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

query_serial:

- **Parameters:**
 - (Int) sn: **serial_number**
- **ENDPOINT:**
 - query_id?sn=**serial_number**
- **Return Values:**
 - (JSON) Single {equipment_id, device_id, manufacturer_id, serial_number, status}
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'EQUIPMENT_NOT_FOUND'
 - **Status:** **SUCCESS**
 - **Action:** None
 - **Cause:** Query was successful but returned no results
 - (Message string) 'MISSING_SERIAL'
 - **Status:** **ERROR**

- **Action:** None
 - **Cause:** **serial_number** was not set
- (Message string) 'INVALID_SERIAL'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **serial_number** contained invalid characters or exceeded 64 characters
- (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed

Search:

search_devices:

- **Parameters:**
 - (Optional int) **did:** **device_id**
 - (Optional int) **mid:** **manufacturer_id**
 - (Optional string) **sn:** **serial_number**
 - (Optional string) **include_inactive:** **include_inactive**
- **ENDPOINT:**
 - add_equipment?**did=device_id&mid=manufacturer_id&sn=serial_number&include_inactive=include_inactive**
- **Return Values:**
 - (JSON) Array [equipment_id, device_id, manufacturer_id, serial_number, status]
 - **Status:** **SUCCESS**
 - **Action:** None
 - (Message string) 'NO_RESULTS'
 - **Status:** **SUCCESS**
 - **Action:** None
 - **Cause:** Query was successful but returned no results
 - (Message string) 'INVALID_DEVICE_ID'
 - **Status:** **ERROR**
 - **Action:** query_device
 - **Cause:** **device_id** was set but not an integer
 - (Message string) 'INVALID_MANUFACTURER_ID'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** **manufacturer_id** was set but not an integer
 - (Message string) 'INVALID_SERIAL'
 - **Status:** **ERROR**
 - **Action:** None

- **Cause:** **serial_number** contained invalid characters or exceeded 64 characters
- (Message string) 'QUERY_FAILED: \$message.'
 - **Status:** **ERROR**
 - **Action:** None
 - **Cause:** SQL query failed