Cerebro Upload Conditions

(Draft 2025/3/17)

1. Uploader Identity

Choose one of the following:

Option 1: Role Condition

- Role ($role\_id)$ must be 0

Option 2: Location Authorization

- Authorized to handle the specific $location$

- Uses a relational query with $location\_users$ and $locations\_hierarchy$ tables

Verification Conditions:

- $lu.user\_id = \#\{userId\}$: Confirm the user

- $lh.child\_id = \#\{locationId\}$: Location ID to be accessed

- $lh.parent\_id = lu.location\_id$: Check if user has permission to access the location or its parent location

2. Location

Location Data Requirements

- *Location* must have data

When *LocationId* has a value:

- Indicates the *location* already exists in the database

- System will check if the record actually exists, otherwise an error will occur

- System will perform the "Uploader Identity" check

- Can modify *location* field data

When *LocationId* is 0:

- Indicates a new location is being added

- *locationIndex* must have a value to reference *location* relationships

3. Device

Location Specification

- Must specify the owner location (using $ownerLocationIndex$ or $ownerLocationId$)

DeviceId Restrictions:

- $deviceId$ cannot be null.

- $deviceId$ length cannot exceed 50 characters ($MAX\_DEVICE\_ID\_LENGTH$)

- $deviceId$ cannot contain special characters: /, %, #, +

Additional Field Requirements:

- $deviceType$ must exist in the $device\_types$ table

- $ownerLocationIndex$ and $ownerLocationId$ must have a value, and that value must be included in the location tab's $parentLocationIndex + locationIndex$ and $parentLocationId + locationId$

4. PartDevice

Location and Index Restrictions

- *ownerLocationIndex* and *ownerLocationId* cannot both have values, nor can they both be null.

- *partLocationIndex* and *partLocationId* cannot both have values, nor can they both be null.

DeviceId Restrictions:

- *deviceId* cannot be null.

- *deviceId l*ength cannot exceed 50 characters *(MAX_DEVICE_ID_LENGTH)*

- *deviceId* cannot contain special characters: /, %, #, +

Additional Field Requirements:

- *index* field cannot be null.

- *description* field cannot be null.

- *ownerLocationIndex* and *ownerLocationId* must have a value, included in the location tab's *parentLocationIndex + locationIndex* and *parentLocationId + locationId*

- *partLocationIndex* and *partLocationId* must have a value, included in the location tab's *parentLocationIndex + locationIndex* and *parentLocationId + locationId*