

Cold chain

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Tables that are used to capture cold chain data

Sensor

Central data

| Field name | Description | Type | Indexed |
|--------------------|---|---------|---------|
| ID | The unique identifying number assigned to this sensor | Alpha | * |
| locationID | The ID of the location to which this sensor belongs | Alpha | * |
| name | The name of the sensor | Text | |
| macAddress | The mac address of the sensor | Text | |
| batteryLevel | The most recent battery % reading of the sensor | Real | |
| temperature | The most recent temperature reading of the sensor | Real | |
| lastConnectionDate | | Date | |
| lastConnectionTime | | Time | |
| storeID | The ID of the store to which this sensor belongs | Alpha | * |
| logInterval | The interval between taking temperature readings (in seconds) | Long | |
| numberOfLogs | | Long | |
| is_active | Whether the sensor is marked as active or not | Boolean | |
| log_delay_time | The date that the user selected to start recording temperature logs | Time | |
| log_delay_date | The time that the user selected to start recording temperature logs | Date | |
| programmed_date | | Date | |
| programmed_time | | Time | |
| asset_ID | | Alpha | |

SensorLog

| Field name | Description | Type | Indexed |
|-------------------|-------------|-------|---------|
| ID | | Alpha | * |
| sensorID | | Alpha | * |
| locationID | | Alpha | * |
| aggregation | | Alpha | |

| Field name | Description | Type | Indexed |
|-------------------|-------------|---------|---------|
| date | | Date | |
| time | | Time | |
| customData | | Object | * |
| isInBreach | | Boolean | |
| storeID | | Alpha | * |
| temperature | | Real | |

sensorLogItemLineJoin

| Field name | Description | Type | Indexed |
|--------------------|-------------|-------|---------|
| ID | | Alpha | * |
| itemLineID | | Alpha | * |
| sensorLogID | | Alpha | * |

temperature_breach

| Field name | Description | Type | Indexed |
|-------------------------------|--|---------|---------|
| ID | The unique identifying number assigned to this breach | Alpha | * |
| start_date | The date that the breach began (the temperature entered the range of temperatures defining the breach) | Date | |
| start_time | The time that the breach began (entered the range of temperatures defining the breach) | Time | |
| end_date | The date that the breach completed (exited the temperature range) | Date | |
| end_time | The time the breach completed (exited the temperature range). | Time | |
| location_ID | The location of the sensor at the time that the breach was reported | Alpha | |
| store_ID | The store of the sensor at the time that the breach was reported | Alpha | |
| temperature_breach_config_ID | The ID of the breach configuration that defines the duration and temperature for this breach | Alpha | |
| acknowledged | Whether the breach has been marked as 'acknowledged' by the user | Boolean | |
| sensor_ID | The ID of the sensor that reported this breach | Alpha | |
| threshold_maximum_temperature | The upper bound temperature for the breach configuration | Real | |
| threshold_minimum_temperature | The lower bound temperature for the breach configuration | Real | |
| threshold_duration | The duration threshold for the breach configuration | Int | |
| type | The type of breach - Hot / Cold, Consecutive or Cumulative | Alpha | |

temperature_breach_config

| Field name | Description | Type | Indexed |
|---------------------|---|---------|---------|
| ID | The unique identifying number assigned to this breach configuration | Alpha | * |
| maximum_temperature | The upper bound temperature for the range of temperatures the breach is defined for. For example, if a breach is defined for all temperatures over 8 degrees, the maximum will be infinity. | Real | |
| minimum_temperature | The lower bound temperature for the range of temperatures the breach is defined for. For example, if a breach is defined for all temperatures over 8 degrees, the minimum will be 8. | Real | |
| duration | The duration a temperature must have been within the thresholds for it to be considered a breach. (milliseconds) | Long | |
| colour | Contains hexadecimal codes for colours. Use case: Displaying a line on a graph in a certain colour - red for a 'hot breach', blue for a 'cold breach' | Alpha | |
| description | Description of the breach configuration, e.g. 'Hot breach' | Alpha | |
| is_active | Whether the breach is currently ongoing or not | Boolean | |
| location_type_ID | | Alpha | |
| store_ID | | Alpha | |
| type | The type of breach - Hot / Cold, Consecutive or Cumulative | Alpha | |
| location_ID | | Alpha | |

temperature_log

| Field name | Description | Type | Indexed |
|-----------------------|---|-------|---------|
| ID | The unique identifying number assigned to this temperature log | Alpha | * |
| temperature | The temperature of the log (in Celsius) | Real | |
| date | The date of the log | Date | |
| time | The time of the log | Time | |
| location_ID | The location of the sensor at the time of the log | Alpha | |
| temperature_breach_ID | Indicates that this temperature log is contributing to a temperature_breach, which can span many temperature logs | Alpha | |
| store_ID | The store of the sensor at the time of the log | Alpha | |
| sensor_ID | The unique identifying number of the sensor that took the log | Alpha | |
| log_interval | The interval between taking temperature readings of the sensor at the time of the log (in seconds) | Long | |

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