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	
date		Date	
time		Time	
customData		Object	*

Field name	Description	Type	Indexed
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 hexidecimal 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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