



SensiWatch Platform[®] and ColdStream[®] Select

Integration Guide

Version 1.20

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Document Purpose

Life Science customers have traditionally used conventional devices to track shipments, protect product integrity and safety, and support regulatory compliance. Sensitech integrated ColdStream Select with SensiWatch Platform so customers can benefit from real-time data stored in a validated system. This guide explains how to integrate ColdStream Select with SensiWatch Platform

Overview

- ColdStream Select can share only shipment or trip data that is mapped in SensiWatch Platform.
- SensiWatch Platform can share monitor data with ColdStream Select only for mapped programs.
- If a trip exists in SensiWatch Platform and the programs in SensiWatch Platform and ColdStream Select are connected, real-time monitor data is sent to ColdStream Select.
- Only one SensiWatch Platform program can be linked to a single ColdStream Select database. Multiple SensiWatch Platform programs cannot connect to the same ColdStream Select database to transfer monitor data.

Note: Updates to a trip in SensiWatch Platform do not update the shipment in ColdStream Select.

Supported Devices

The following real-time temperature monitoring devices are supported in both ColdStream Select and SensiWatch Platform:

TempTale® GEO Ultra Family:

- TempTale® GEO Ultra
- TempTale® GEO Ultra Extended
- TempTale® GEO Ultra Dry Ice Probe
- TempTale® GEO Ultra Dry Ice Probe Extended

TempTale® GEO X Family:

- TempTale® GEO X
- TempTale® GEO XE
- TempTale® GEO XP Probe
- TempTale® GEO XEP Probe

Integration Steps

This section describes the steps to integrate trips and monitors in ColdStream Select and SensiWatch®

Step 1: Create a Program in ColdStream Select and SensiWatch Platform

You must set up a Program in both ColdStream Select and SensiWatch Platform, each to be used solely for integration between the two applications. To create a Program in ColdStream Select, complete the form **11-00-SS-05-F03, ColdStream Select Database Submission Form** and submit to Sensitech Support. To create a Program in SensiWatch Platform, see the *SensiWatch Platform Administrator Guide*.

In the ColdStream Select Program, enable the Back Office setting **EnableSyncShipment**.

Step 2: Create Shipment Fields in ColdStream Select

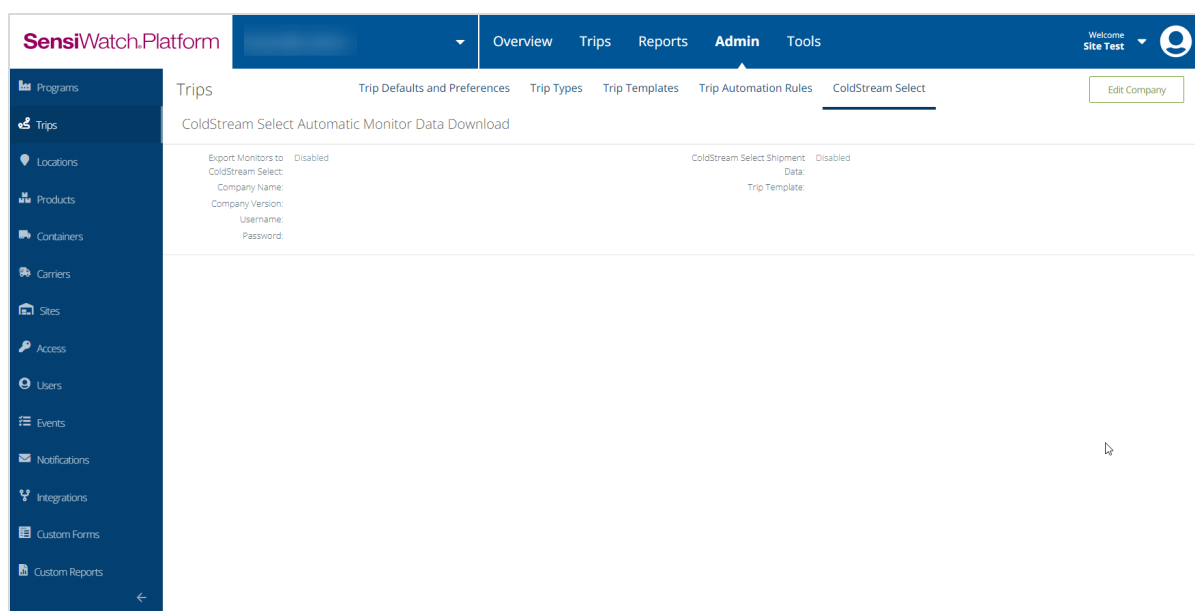
To create Shipment fields in ColdStream Select, see the **Shipment Fields** section of the *ColdStream Select Administrator Guide*.

Step 3: Authenticate SensiWatch Platform to ColdStream Select

To authenticate SensiWatch Platform to ColdStream Select, perform the following steps.

1. Log in to SensiWatch Platform as an Administrator.
2. Select the **Admin** tab.
3. From the **Programs** drop-down list, select the Program you created for the integration between ColdStream Select and SensiWatch Platform.
4. In the left pane, click **Trips**. The Trips window opens with the **Trip Defaults and Preferences** tab active.
5. Select the **ColdStream Select** tab.

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6. Click **Edit Company**. The Edit ColdStream Select Preferences window opens.

The screenshot shows the 'Edit ColdStream Select Preferences' dialog box. It has a title bar with a close button (X). The main content area contains a message: 'Please complete changes to the fields below to update coldstream select preferences for [redacted] program.' Below this is a section titled 'ColdStream Select Automatic Monitor Data Download'. Under the heading '1. General Information', there is a checkbox labeled 'Export Monitors to ColdStream Select'. Below this are input fields for 'Company Name', 'Company Version' (a dropdown menu), 'Username', and 'Password'. At the bottom of the section is another checkbox labeled 'Retrieve ColdStream Select Shipment Data'. At the bottom right of the dialog are 'Cancel' and 'Save' buttons.

7. In the General Information section, select the **Export Monitors to ColdStream Select** check box.
- If **enabled**, monitor data that meets the appropriate criteria is sent to ColdStream Select.
 - If **disabled**, monitor data is not sent to ColdStream Select.

8. In the **Company Name** field, type a name for the ColdStream Select company.
 1. From the **Company Version** drop-down list, select the version of ColdStream Select that the company is using.
 2. In the **Username** field, type the ColdStream Select company username.

Note: This User must have, at minimum, the Download Monitor permission in ColdStream Select.

3. In the **Password** field, type the ColdStream Select company password.

Note: If this user loses access to ColdStream Select, by disabling the user, password expiration, account expiration or other, monitors are not downloaded to ColdStream Select.

4. Proceed to the next step.

Step 4: Map ColdStream Select Fields to SensiWatch Platform Fields

To synchronize fields with SensiWatch Platform, you must map them first. Only one-to-one mappings are supported between ColdStream Select shipment fields and SensiWatch Platform fields. For example, ColdStream Select field Origin A can map to SensiWatch Platform field Origin A, but it cannot also map to Origin B at the same time.

To map ColdStream Select to SensiWatch Platform, perform the following steps.

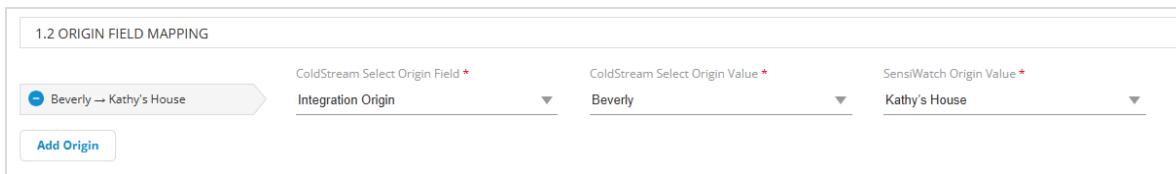
1. If you want SensiWatch Platform to retrieve the ColdStream Select shipment data, select the **Retrieve ColdStream Select Shipment Data** check box.
2. Click **Edit Mapping Rules**.
3. In the **Edit ColdStream Select Preferences** window, map the fields that you created in ColdStream Select

Map **Origin** Field:

This field is validated and an Origin field must be present to create a trip in SensiWatch Platform. This field must be of the 'LOV' in ColdStream Select.

Origin field indicates the location where the shipment(trip in SensiWatch Platform) starts.

1. In the **ORIGIN FIELD MAPPING** section, click **Add Origin**.



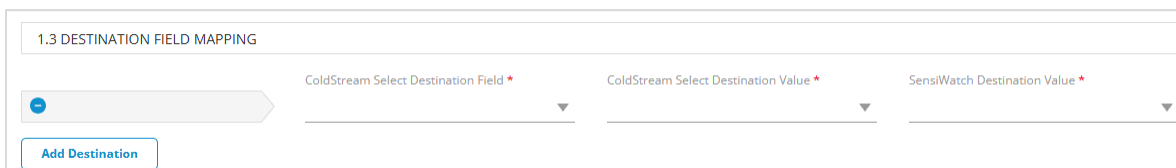
2. From the ColdStream Select **Origin** Field drop-down list, select the field that you want to map.
3. From the ColdStream Select **Origin Value** drop-down list, select the value for the field.
4. From the **SensiWatch Origin Value** drop-down list, select the corresponding SensiWatch Platform value.
5. Add more Origin fields-value combinations, if needed.

Map **Destination** Field:

This field is validated and a Destination field must be present to create a trip in SensiWatch Platform. This field must be of type 'LOV' in ColdStream Select.

Destination field indicates the location where the shipment (trip in SensiWatch Platform) ends.

1. In the **DESTINATION FIELD MAPPING** section, click **Add Destination**.



2. From the **ColdStream Select Destination Field** drop-down list, select the field that you want to map.
3. From the **ColdStream Select Destination Value** drop-down list, select the value for the field.
4. From the **SensiWatch Destination Value** drop-down list, select the corresponding SensiWatch Platform value.
5. Add more Destination field-value combinations, if needed.

Map **Final Destination Mode of Transportation** Field:

This field must be of type 'LOV' in ColdStream Select.

Final Destination mode of transportation indicates a mode of transportation in the final leg (segment) of a trip. Possible values are ocean, air, rail, and truck.

1. In the **FINAL DESTINATION MODE OF TRANSPORTION FIELD MAPPING** section, click **Add Mode of Transportation**.

The screenshot shows a web interface titled "FINAL DESTINATION MODE OF TRANSPORTION FIELD MAPPING". On the left, there is a blue circular icon and a grey arrow pointing right, with a button labeled "Add Mode of Transportation" below it. To the right of the arrow are three columns. The first column is labeled "ColdStream Select Mode of Transportation Field" and contains a dropdown menu with "Final Destination" selected. The second column is labeled "ColdStream Select Mode of Transportation Value" and also contains a dropdown menu with "Final Destination" selected. The third column is labeled "SensiWatch Mode of Transportation Value*" and contains four icons: a truck, a ship, a plane, and a train, with "Final Destination" text below them.

2. From the **ColdStream Select Mode of Transportation Field** list, select the field that you want to map.
3. From the **ColdStream Select Mode of Transportation Value** list, select the value for the field.
4. From the **SensiWatch Mode of Transportation Value** list, select the corresponding SensiWatch Platform value.
5. Add more Mode of Transport field-value combinations, if needed.

Map **Product** Field:

This field is validated and a Product field must be present to create a trip in SensiWatch Platform. This field must be of type 'LOV' in ColdStream Select.

1. In the **PRODUCT FIELD MAPPING** section, click **Add Product**.

The screenshot shows a web interface titled "1.4 PRODUCT FIELD MAPPING". On the left, there is a blue circular icon and a grey arrow pointing right, with a button labeled "Add Product" below it. To the right of the arrow are three columns. The first column is labeled "ColdStream Select Product Field *" and contains a dropdown menu. The second column is labeled "ColdStream Select Product Value *" and contains a dropdown menu. The third column is labeled "SensiWatch Product Value*" and contains a dropdown menu.

2. From the **ColdStream Select Product Field** drop-down list, select the field that you want to map.
3. From the **ColdStream Select Product Value** drop-down list, select the value for the field.
4. From the **SensiWatch Product Value** drop-down list, select the corresponding SensiWatch Platform value.
5. Add more Product field-value combinations, if needed.

Map **Managing Carrier** Field:

This field must be of type 'LOV' in ColdStream Select.

1. In the **MANAGING CARRIER FIELD MAPPING** section, click **Add Managing Carrier**.
2. From the **ColdStream Select Managing Carrier Field** list, select the field that you want to map.
3. From the **ColdStream Select Managing Carrier Value** list, select the value for the field.
4. From the **SensiWatch Managing Carrier Value** list, select the corresponding SensiWatch Platform value.
5. Add more Managing Carrier field-value combinations, if needed.

Map **Parent Supplier** Field:

This field must be of type 'LOV' in ColdStream Select.

1. In the **PARENT SUPPLIER FIELD MAPPING** section, click **Add Parent Supplier**.

PARENT SUPPLIER FIELD MAPPING			
	ColdStream Select Parent Supplier Field	ColdStream Select Parent Supplier Value *	SensiWatch Parent Supplier Value*

2. From the **ColdStream Select Parent Supplier Field** list, select the field that you want to map.
3. From the **ColdStream Select Parent Supplier Value** list, select the value for the field.
4. From the **SensiWatch Parent Supplier Value** list, select the corresponding SensiWatch Platform value.
5. Add more Parent Supplier field-value combinations, if needed.

Map **Carrier** Field:

This field must be of type 'LOV' in ColdStream Select.

1. In the **CARRIER FIELD MAPPING** section, click **Add Carrier**:

1.5 CARRIER FIELD MAPPING			
	ColdStream Select Carrier Field *	ColdStream Select Carrier Value *	SensiWatch Carrier Value*

2. From the **ColdStream Select Carrier Field** list, select the field that you want to map.
1. From the **ColdStream Select Carrier Value** list, select the value for the field.

2. From the **SensiWatch Carrier Value** list, select the corresponding SensiWatch Platform **Carrier** field value.
3. Add more Carrier field-value combinations, if needed.

Map **Monitor Name** Field:

This field must be of type 'String' in ColdStream Select.

The Monitor Name field provides a custom description of the real-time monitor. Examples include a pallet number, box name, or another customer-created name field associated with a single monitor. Only one ColdStream Select field can be mapped to the SensiWatch Platform Monitor Name field. In this example, **Pallet Number** is the ColdStream Select field used to describe the real-time monitor. When the ColdStream Select Pallet Number field is mapped to the SensiWatch Platform Monitor Name field, the Pallet Number string value is copied for the corresponding monitor in SensiWatch Platform based on its serial number. The ColdStream monitor must be at the same hierarchy level as the Pallet Number field.

The screenshot shows the 'Shipment Details' tab in the SensiWatch Platform. The 'Monitor' section is highlighted with a green box. A green arrow points to the 'Pallet Number' field in the 'Monitor' section, indicating it is the field being mapped to the Monitor Name field.

In the Monitor Name Field Mapping section, from the **ColdStream Select String Field** list, select the Monitor's Name field.

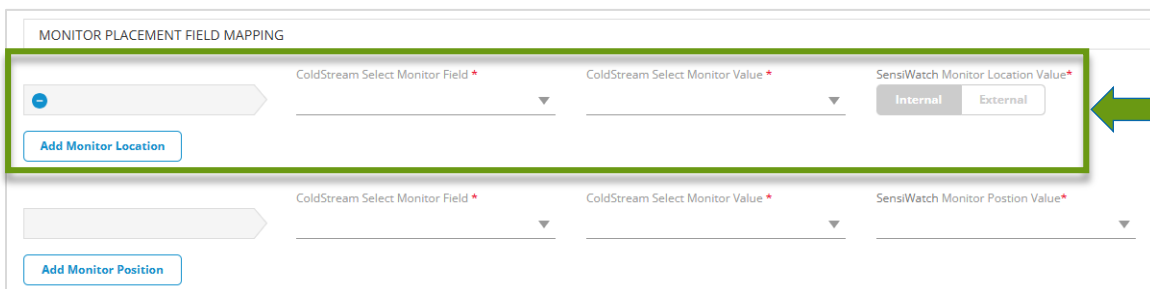
The screenshot shows the 'MONITOR NAME FIELD MAPPING' section. It contains two dropdown menus. The first dropdown, labeled 'ColdStream Select Monitor Field', has 'Pallet Number' selected. The second dropdown, labeled 'SensiWatch Monitor Name Field', has 'Monitor Name' selected.

Map **Monitor Location** Field:

This field must be of type 'LOV' in ColdStream Select.

Monitor Location field determines monitor location with respect to the container and can be internal or external.

1. In the **MONITOR PLACEMENT FIELD MAPPING** section, click **Add Monitor Location**.



The screenshot shows the 'MONITOR PLACEMENT FIELD MAPPING' section. It contains two rows of mapping fields. The first row is for 'SensiWatch Monitor Location Value' and the second row is for 'SensiWatch Monitor Position Value'. Each row has a 'ColdStream Select Monitor Field' dropdown, a 'ColdStream Select Monitor Value' dropdown, and a 'SensiWatch Monitor Location Value' or 'SensiWatch Monitor Position Value' dropdown. The 'Add Monitor Location' button is highlighted with a green box and a green arrow pointing to it.

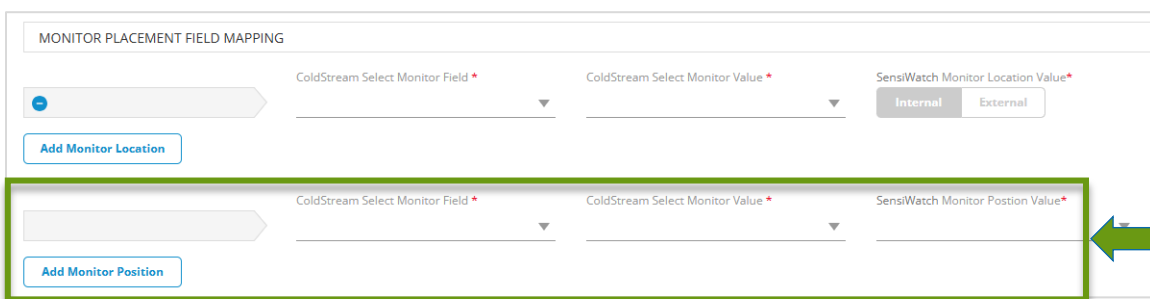
2. From the **ColdStream Select Monitor Field** list, select the field that you want to map.
3. From the **ColdStream Select Monitor Value** list, select the value for the field.
4. From the **SensiWatch Monitor Location Value** list, select the corresponding SensiWatch Platform value.
5. Add more Monitor Location field-value combinations, if needed.

Map Monitor Position Field:

This field must be of type 'LOV' in ColdStream Select.

Monitor Position field determines monitor position within a pallet or a container.

1. In the **MONITOR PLACEMENT FIELD MAPPING** section, click **Add Monitor Position**.



The screenshot shows the 'MONITOR PLACEMENT FIELD MAPPING' section. It contains two rows of mapping fields. The first row is for 'SensiWatch Monitor Location Value' and the second row is for 'SensiWatch Monitor Position Value'. Each row has a 'ColdStream Select Monitor Field' dropdown, a 'ColdStream Select Monitor Value' dropdown, and a 'SensiWatch Monitor Location Value' or 'SensiWatch Monitor Position Value' dropdown. The 'Add Monitor Position' button is highlighted with a green box and a green arrow pointing to it.

2. From the **ColdStream Select Monitor Field** list, select the field that you want to map.
3. From the **ColdStream Select Monitor Value** list, select the value for the field.
4. From the **SensiWatch Monitor Position Value** list, select the corresponding SensiWatch Platform value.
5. Add more Monitor Position field-value combinations, if needed.

Map **Custom** Field:

Custom field must be of 'String' or 'Date/Time' type in ColdStream Select.

Custom field name to field name mapping between ColdStream Select and SensiWatch Platform. No field value needs to be selected, and field values will be mapped automatically.

1. If you have custom fields to map, in the **CUSTOM FIELD MAPPING** section, click **Add Field**.

The screenshot shows the 'CUSTOM FIELD MAPPING' section. On the left, there is a button with a blue circle and arrow icon labeled 'Batch No. → Contact Number'. In the center, under 'ColdStream Select Custom Field', there is a dropdown menu with 'Batch No.' selected. On the right, under 'SensiWatch System Field', there is a dropdown menu with 'Contact Number' selected. At the bottom left, there is a blue button labeled 'Add Field'.

2. From the **ColdStream Select Custom Field** list, select the field that you want to map.
3. From the **SensiWatch System Field** list, select the corresponding SensiWatch Platform field name.

Examples of the fields in SensiWatch Platform that can be mapped to are:

- **String** field type: Driver Cell, Driver Name, Internal Trip ID, Order Number, PO Number, Trailer ID and Trip Note.
- **Date/Time** field type: Planned Arrival Time and Planned Departure Time.

Map **Custom LOOKUP** Field:

Custom fields must be of 'LOV' in ColdStream Select.

This is a field name to field name mapping between ColdStream Select and SensiWatch Platform. No field value needs to be selected, and LOV field value from ColdStream Select will be mapped automatically to a String value in SensiWatch Platform. Character Limitations will apply here.

1. If you have custom fields to map, in the **CUSTOM LOOKUP FIELD MAPPING** section, click **Add Lookup Field**.

The screenshot shows the 'CUSTOM LOOKUP FIELD MAPPING' section. On the left, there is a button with a blue circle and arrow icon labeled 'Trip Level → Trip Risk'. In the center, under 'ColdStream Select Customer Lookup Field', there is a dropdown menu with 'Trip Level' selected. On the right, under 'SensiWatch System Field', there is a dropdown menu with 'Trip Risk' selected. At the bottom left, there is a blue button labeled 'Add Lookup Field'.

2. From the **ColdStream Select Custom Lookup Field** list, select the field that you want to map.
3. From the **SensiWatch System Field** list, select the corresponding SensiWatch Platform field name.

Examples of the fields in SensiWatch Platform that can be mapped to are:

- **String** field type: Driver Cell, Driver Name, Internal Trip ID, Order Number, PO Number, Trailer ID and Trip Note.
- **Date/Time** field type: Planned Arrival Time and Planned Departure Time.

4. Click **Save**.

Step 5: Set up Notifications in SensiWatch Platform

If you want SensiWatch Platform to notify you when specific events occur, set up Notifications in SensiWatch Platform to send electronic messages.

To set up Notifications, see the *SensiWatch Platform Admin Guide*, in the sections called **Create a Notification** and **Standard Templates**.

Note: The ColdStream Select Notification Templates are applied when one of the supported real-time monitors is used.

Using Integration

Multiple products can be transferred from ColdStream Select to SensiWatch Platform, but each product applies to all monitors in SensiWatch Platform. Conventional loggers and real-time units can be included in the same shipment in ColdStream Select; however, only real-time serial numbers entered in ColdStream Select create trips in SensiWatch Platform.

Software alarms configured in SensiWatch Platform are not sent to ColdStream Select. To use alarm functionality for the supported real-time devices, configure the software alarms separately in ColdStream Select.

Create a Trip in SensiWatch Platform by Either of the following methods:

- Create a trip directly in SensiWatch Platform.
- Create a Shipment in ColdStream Select, which will create a trip in SensiWatch Platform (pending proper setup of mapping)

Note: To create a shipment in ColdStream Select, see the ColdStream Select Online Help.

1. Start the Device.
2. Monitor the Shipment in SensiWatch Platform.
3. Perform the Data Download, if data is not transferred automatically to ColdStream Select.

Monitor the Shipment

You can monitor the shipment in real time using the SensiWatch Platform web site. For more information, see the *SensiWatch Platform User Guide*.

Data Download

When the receiver presses the **Stop** button on the device, SensiWatch Platform transfers the data to ColdStream Select. You can then log in to ColdStream Select and search for the monitor or shipment to download and view the data. For instructions, see **Download Monitor Data** in the *ColdStream Select User Guide*.

Data can also be transferred when the SensiWatch Platform trip arrives, if this option is configured.

Frequently Asked Questions (FAQs)

1. **Question:** What qualifies as a **valid monitor serial number**?

Answer: A **valid monitor serial number** matches one of the supported device serial numbers listed in Supported Devices. It must not belong to an On-Demand monitor or a monitor that has already been used on another trip. Refer to Question 2 for the definition of an On-Demand monitor.

2. **Question:** What is an On-Demand Monitor?

Answer: An On-Demand monitor is used to create On-Demand trips. On-Demand Trips are intended for customers who purchase a limited number of monitors and do not need a dedicated managed Program. On-Demand trips are designed for basic visibility and do not include the full SensiWatch Platform feature set, such as locations, products, or carriers.

3. **Question:** My monitor data is not in ColdStream Select. Where should I look?

Answer: Follow these steps to identify why the monitor data was not transferred to the ColdStream Select database:

- Make sure the Integration user is Active, has an unexpired password, and can authenticate.
- Verify that there is a Trip in SensiWatch Platform, in the correct Program, with that monitor's serial number on it.
- Verify that the stop button has been pressed. You can find this information in the Trip Log and / or in the Monitors tab of the Trip Details page in SensiWatch Platform.
- Double-check the SensiWatch Platform Program History to see if there are indications of validation errors.

4. **Question:** My Trip Information is not in SensiWatch Platform. Where should I look?

Answer: Follow these steps to identify why the monitor data was not transferred to the SensiWatch Platform database:

- Make sure the Integration user is Active, has an unexpired password, and can authenticate.
- Make sure the Serial Number in ColdStream Select is a valid monitor serial number. See Question 1 for more information about valid monitor serial numbers.
- Ensure the fields and values selected are properly mapped in SensiWatch Platform.

5. **Question:** My shipment is updated in ColdStream select, will also update in SensiWatch Platform?

Answer: When updating shipment information, keep the following in mind:

- Updates made in ColdStream Select should update the trip in SensiWatch Platform, but changes made in SensiWatch Platform do not update ColdStream Select.
- Changes that affect the serial number may prevent the device from transferring data.

6. **Question:** If I create a trip in ColdStream Select with a real-time monitor and it syncs to SensiWatch Platform, what happens if I later replace that monitor with a conventional monitor?

Answer: The real-time monitor will be removed from the trip in SensiWatch Platform, and the trip will be moved back to draft. This allows the real-time monitor to be used on another trip in SensiWatch Platform.

7. **Question:** Can I use the same real-time monitor serial number on more than one ColdStream Select trip and have each trip sync to SensiWatch Platform?

Answer: No. Shipment sync supports only a 1:1 relationship. If the same monitor is already assigned to an existing trip in SensiWatch Platform, this monitor becomes an invalid monitor, and the sync process will fail.

8. **Question:** Can I use an On-Demand monitor on a ColdStream Select trip and have it sync to a managed program in SensiWatch Platform?

Answer: No. Shipment sync does not support On-Demand monitors. This monitor is an invalid monitor. If you add an invalid monitor serial number to a ColdStream Select trip, the sync will fail.

See Question 1 for the definition of a valid monitor serial number. Contact Support Services to help reassign the On-Demand monitor to a managed program in SensiWatch Platform or to replace it with a valid monitor.

9. **Question:** What happens if I create a trip with one valid monitor serial number and one or more invalid monitors?

Answer: If the ColdStream Select shipment is configured correctly—Origin, Destination, and Product are mapped successfully—and includes valid serial numbers along with

one or more invalid monitors, the shipment syncs partially. The invalid monitor is excluded from the sync.

See Question 1 for the definition of a valid monitor serial number.

10. **Question:** I received an email saying the character limit was exceeded, but the field in ColdStream Select is within the limit. Why did this happen?

Answer: ColdStream Select supports hierarchies, but SensiWatch Platform does not. As a result, multiple fields in ColdStream Select may be combined into a single field in SensiWatch Platform to preserve a one-to-one mapping. For example, in SensiWatch Platform, the Purchase Order field applies to the entire trip, while in ColdStream Select it can apply to each individual monitor. When mapped, the Purchase Order values from all monitors in ColdStream Select are combined into one comma-separated field in SensiWatch Platform, which can cause the character limit to be exceeded.