

SOFTIROL

Software & Control for Automation

DIRECTED SORTER USER MANUAL Understanding the SOFTSORT DIRECTED SORTER Barcode

The screenshot shows the SDSM_Win software interface. On the left is a list of tags and hooks. On the right is a detailed view of the selected tag, 893465810790, which includes a large yellow barcode area with the number 11, the name Isabelle, and various tag details.

SDSM_Win

File

tag 00D0065965CE [893459719630]
Hook 42
tag 00D0051FD87B [893439170683]
Hook 3
tag 00D0065965CE [893459719630]
Hook 42
tag 00D005876382 [893445956482]
Hook 10
tag 00D0065965CE [893459719630]
Hook 42
tag 00D0065749B9 [893459581369]
Hook 13
tag 00D002D5D74E [893400766286]
Hook 12
tag 00D004CD97AA [893433780138]
Hook 6
tag 00D00443BACF [893424745167]
Hook 4
tag 00D0050107DB [893437151195]
Hook 11
tag 00D006580A93 [893459630739]
Hook 11
tag 00D00446FD6E [893424958830]
Hook 3
tag 00D0055E31D5 [893443256789]
Hook 6
tag 00D005996180 [893447135616]
Hook 13
tag 00D005A33141 [893447778625]
Hook 11
tag 00D0055CFB71 [893443177329]
Hook 8
tag 00D004E449E1 [893435267553]
Hook 6
tag 00D0052C57BE [893439989694]
Hook 4
tag 00D003A09F07 [893414055687]
Hook 10
tag 00D006B65766 [893465810790]
Hook 11

1st Break

11

Isabelle

Tag **893465810790**
Day **R**
Route **22**
Seq **90**
Account **514707800**
Wearer **1**
Garment Type **Shirt/Other**
LastPrimary **n/a**
LastFinal **n/a**
LastMend **n/a**
Dirty **No**
Return **No**
Mend **No**
Archive **Yes**
1st **0**
Bundle **0**

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Overview

The Directed Sort is a semi automated garment sortation system. There are three major components:

- **Database** – the Softrol database contains all the information required to sort garments for the Branch. There is an interface to the AmeriPride/Canadian Linen route accounting system (ABS), bi-directionally communicating full updates daily and periodic updates on regular intervals during the production day.
- **Operator Workstations** – each workstation will provide sorting capability per operator at each sort break running the following Softrol software:
 - SoftSort Directed Sort Module
 - SoftSort Rail Manager
 - SoftSort Directed Sort Scan Engine.

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One of the workstations will serve as the file server for the system and will have to run ABSi the interface to ABS. This workstation varies from Branch to Branch.

- **Identification System**

- **Barcode identification system** – See the Barcode Equipment Section of this document under Setup.

The Directed Sort utilizes three rail breaks/sorts along with a graduated hook conveyor to sort garments into day/customer/route/stop/wearer order from the Wash Lots received from production. They are 1st Break, 2nd Break and 3rd Break, which is the same as 1st Sort, 2nd Sort and 3rd Sort.

Sort operators scan the Barcode on a garment, and the Directed Sort quickly responds with an audible signal, indicating for the operators which hook on the conveyor the garment should be placed. This same process is the same for each sort break, with the Directed Sort performing all sorting decisions. Because of the availability of audible output directly to the operators, there is minimal interface and interaction between operators and the computer hardware comprising the system.

Setup/Maintenance

This section goes over any setup and ongoing maintenance that will be performed by Branch personnel for the follow areas of the Directed Sort, Lots, Audio Equipment and Barcode Equipment. If during this process technical assistance is required contact TAC at (800) 810-1917.

The initial installation/setup of the software/hardware will be done by Softrol technician(s) and AmeriPride/Canadian Linen IS personnel.

Create a New Lot

The initial setup of the Sort Lots will be performed during the installation process. This must be done before any sorting can be processed; this will be an ongoing process as changes are made in the ABS system. These changes will be items like new wearer(s)/customer(s), reroutes, quit wearer(s)/customer(s), etc.

The main point to keep in mind when setting-up/Changing Sort Lots is how the garments are processed in wash lots. Basically what the flow of garments is going to be from the Tunnel. Any Routes processed together can be combined if they meet the criteria for the Sort Lot.

NOTE: If the wash lots are not properly managed they will cause issues with the Directed Sort.

STEP 1: To create Sort Lot(s) go to the SLSM Rail Manager program and open the Sort Lot Manager under the Primary selection on the Main Menu (See Below).

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SLSM Rail Manager Module					
Primary Final Utilities Database Reports Help					
Sort Lot Manager		Queued	Sorting	Open-Idle	# O-Q-S
Wash Lot Maintenance			THU A 48-2	6:07-6:07	0-0-77
Define Early Day(s)				6:06-5:59	1-0-0
Force Rail Offload		FRI A 48-1		n/a-6:12	0-124-0
Refresh				6:11-5:03	59-0-0
Exit				6:11-5:03	94-0-0
				6:11-5:03	172-0-0
				6:11-5:04	134-0-0
8	FRI B 67			6:10-5:04	41-0-0
9	FRI B 65			6:10-5:03	248-0-0
10	FRI B 64			6:10-5:04	24-0-0
11	FRI B 61,62,63			6:10-5:04	100-0-0
12	FRI B 60			6:10-5:04	71-0-0
13	FRI B 60			6:10-5:04	70-0-0
14	THU B 63-3 64			6:07-6:07	0-0-0
15	THU B 63-1		THU A 48-2	6:06-5:04	239-0-736
16		FRI A 40 41-1		n/a-6:12	0-334-0
17		FRI A 40 41-1		n/a-6:13	0-333-0
18		FRI A 48-2		n/a-6:12	0-61-0
19		FRI A 48-1		n/a-6:38	0-468-0
20				n/a-10:55	0-0-0
21				n/a-10:55	0-0-0
22				n/a-10:38	0-0-0
23				n/a-10:55	0-0-0
24				n/a-7:34	0-0-0
25		FRI A 47-3		n/a-6:13	0-132-0
26	EMPLOYEE			>1Day-7:12	871-0-0
27		FRI A 47-2		n/a-6:13	0-88-0
28		FRI A 44-2,47-1		n/a-6:15	0-320-0
29		FRI A 44-1		n/a-6:13	0-181-0
30		FRI A 43		n/a-6:27	0-71-0
31			FRI A 42	n/a-6:13	0-0-203

Disabled Not Empty Empty Unloading Offloading Flooded Fault

DSM

After entering the Sort Lot Manager follow the steps below to create Sort Lots.

NOTE: The key is to create the Sort Lots to not exceed the maximum number of wears for the system. This is determined by multiplying the number of 2nd sort rails by the number of 3rd sort rails.

Step 2: From the Lot Menu, select "Create New Lot" (See Below).

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Route	Seq	TWearers	TGarmments	EWearers	EGarmments	EShirts	EPants
Monday 40	10	7	283	7	102	102	0
Monday 40	15	10	156	10	44	44	0
Monday 40	20	15	165	13	46	46	0
Monday 40	30	73	1150	60	295	295	0
Total	---	105	1754	90	487	487	0

Step 3: The Prompt will appear to Name and configure the Sort Lot. Type the preferred name, which can be recognized by the sort operators (See Below). **NOTE: The minimum naming convention will include the day of the week the route is delivered and identify the route(s) included in the lot. Remember the route can exist in more the 1 lot so identify with an alphabetic or numeric scheme; the example below is a numeric scheme with the -2 and -1. An alphabetic scheme can be used with an -A or -B, use whatever is best suited for your Branch.**

Step 4: When the proper naming has been entered click OK and the "Lot Configuration" will be displayed (See Below). Select which day(s) of the week the Sort Lot will be sorted (i.e.; the "delivery" day). Also indicate if it will typically occupy a single rail, or two or four rails. This is determined by the number of garments and/or wearers. The numbers to use here are the normal turn-in, under wash. **NOTE: To determine the maximum wears multiply the number of 2nd sort rails and number of 3rd sort rails. For example if the system has a total of 12 2nd sort rails and 10 3rd sort rails the maximum number of wearers in a Sort Lot would be 120. If this is an existing Sort Lot the EWearers and EPieces can be used to calculate the number of rails needed.** In the "Primary Rail Utilization" select Even Distribution if it is not already selected. **NOTE: The "Shirt/Pant Separation" does not work at this time do to a ABS transfer issue.** Indicate that routes can be subdivided by "sequence." **NOTE: The "override Default is not used with the Directed Sort so leave blank.** When complete click on "Save" and you will go back to "Sort Lot Manager."

Lot Configuration

MON A 40-2 41-1

0 Garments
0 Wearers
0 Shirts
0 Pants

Sort MultiDay On

☒ Monday
☐ Tuesday
☐ Wednesday
☐ Thursday
☐ Friday
☐ Saturday
☐ Sunday

Primary Rail Assignment

☒ Single Rail
☐ 2 Rail Split
☐ 4 Rail Split

Primary Rail Utilization

☐ Even Distribution
☐ Shirt/Pant Separation

Subdivide Routes By

☐ Stop
☒ Sequence
☐ Auxillary

Max Garments/Final Rail

☐ Override Default 0

Save Cancel

The screenshot shows the "Sort Lot Manager" application window. On the left, there's a tree view under "Lot Utilities". The "Sort Lots" folder is expanded, showing a list of lots: MON C 14 15 16-1, MON C 16-2 17-1, MON C 17-2 18 19-1, MON C 19-2 20, MON C 21 22, MON C 3 4-1, MON C 4-2 5-1, MON C 5-2 6, and MON C 8 10-1. Below these are days of the week (Tuesday through Sunday) and "New/Unconfigured EMPLOYEES". At the bottom of the tree, "MON A 40-2 41-1" is selected. To the right of the tree, a large table area displays the message "No Routes Assigned to MON A 40-2 41-1". The table has columns: Route, Seq, TWearers, TGaments, EWearers, EGaments, EShirts, and EPants. At the bottom of the window, there are buttons: Close, Endy, Open, Queue, and Stop on the left; Insert, Graphic, and Delete on the right. A tooltip at the bottom center reads "Adds a Route to the selected Lot".

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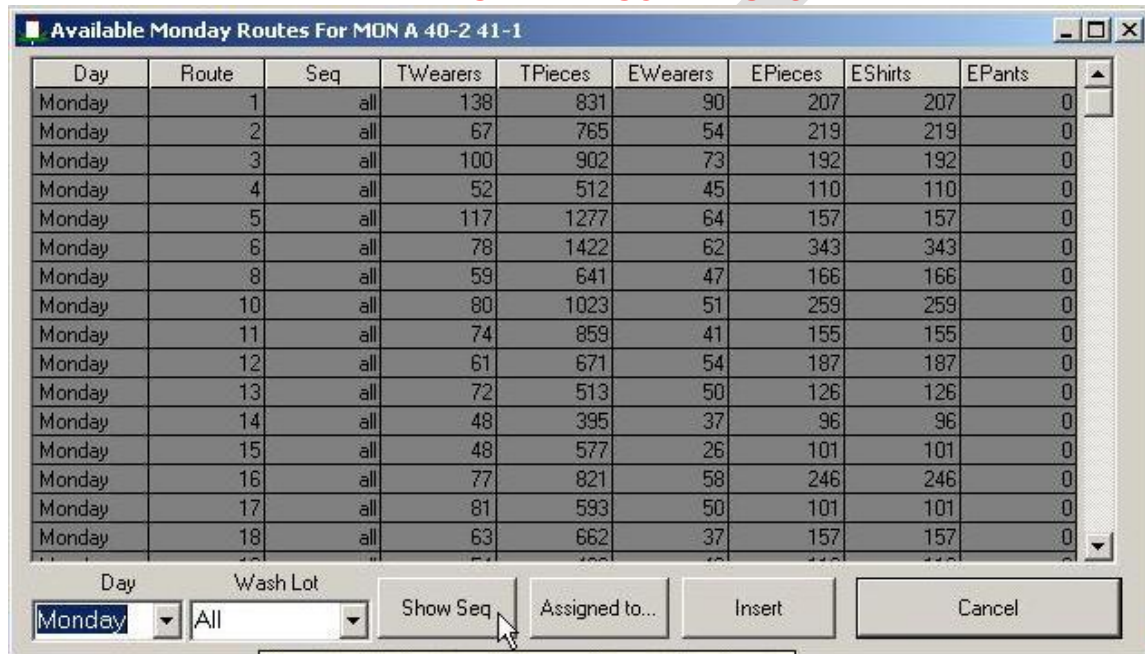
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"Insert." Monday Route 3 will be assigned to the Sort Lot selected. Again using the example above if you were to select Monday Route 14 and 15 it would total 96 total wearers. So they could make up a single Sort Lot. **NOTE: The key in creating Sort Lots is to keep in mind how your Wash Lots are processed. In the example with Monday Routes 14 and 15 if they are processed in different Wash Lots they will not work as a single Sort Lot.**

INSERT NEW SCREEN SHOT

STEP 7: If there are no available Routes that fall within the maximum wearers. In the example above Route 40 exceeds the 100 wearer limit. Highlight Route 40 and click the "Show Seq" button.

INSET NEW SCREEN SHOT



Day	Route	Seq	TWearers	TPieces	EWearers	EPieces	EShirts	EPants
Monday	1	all	138	831	90	207	207	0
Monday	2	all	67	765	54	219	219	0
Monday	3	all	100	902	73	192	192	0
Monday	4	all	52	512	45	110	110	0
Monday	5	all	117	1277	64	157	157	0
Monday	6	all	78	1422	62	343	343	0
Monday	8	all	59	641	47	166	166	0
Monday	10	all	80	1023	51	259	259	0
Monday	11	all	74	859	41	155	155	0
Monday	12	all	61	671	54	187	187	0
Monday	13	all	72	513	50	126	126	0
Monday	14	all	48	395	37	96	96	0
Monday	15	all	48	577	26	101	101	0
Monday	16	all	77	821	58	246	246	0
Monday	17	all	81	593	50	101	101	0
Monday	18	all	63	662	37	157	157	0

STEP 8: All sequences for Monday Route 40 will be displayed. The sequences that are currently assigned to a Sort Lot will be in grey. Sequences that can be assigned appear in white. Highlight the sequences to be included in the Sort Lot. To do Multiple sequences right click and hold on the first sequence to be included. Drag down to the last sequence to be included and release the mouse, click on the insert button. **NOTE: remember not to exceed the maximum number of wearers.**

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Available Monday Routes For MON A 40-2 41-1

Day	Route	Seq	TWearers	TPieces	EWearers	EPieces	EShirts	EPants
Monday	40	20	15	165	13	46	46	0
Monday	40	30	73	1150	60	295	295	0
Monday	40	35	2	85	2	9	9	0
Monday	40	45	22	491	21	196	196	0
Monday	40	50	11	136	10	35	35	0
Monday	40	60	6	64	0	7	7	0
Monday	40	65	9	177	7	68	68	0
Monday	41	10	2	1357	2	60	60	0
Monday	41	15	18	282	16	91	91	0
Monday	41	20	15	627	13	206	206	0
Monday	41	30	13	118	11	33	33	0
Monday	41	35	19	341	18	106	106	0
Monday	41	45	11	297	9	95	95	0
Monday	41	50	2	11	0	0	0	0
Monday	42	1	2	4	2	0	0	0
Monday	42	5	20	298	20	124	124	0

Day: Monday Wash Lot: All Hide Seq Assigned to... Insert Cancel

Available Monday Routes For MON A 40-2 41-1

Day	Route	Seq	TWearers	TPieces	EWearers	EPieces	EShirts	EPants
Monday	40	20	15	165	13	46	46	0
Monday	40	30	73	1150	60	295	295	0
Monday	40	35	2	85	2	9	9	0
Monday	40	45	22	491	21	196	196	0
Monday	40	50	11	136	10	35	35	0
Monday	40	60	6	64	0	7	7	0
Monday	40	65	9	177	7	68	68	0
Monday	41	10	2	1357	2	60	60	0
Monday	41	15	18	282	16	91	91	0
Monday	41	20	15	627	13	206	206	0
Monday	41	30	13	118	11	33	33	0
Monday	41	35	19	341	18	106	106	0
Monday	41	45	11	297	9	95	95	0
Monday	41	50	2	11	0	0	0	0
Monday	42	1	2	4	2	0	0	0
Monday	42	5	20	298	20	124	124	0

Day: Monday Wash Lot: All Hide Seq Assigned to... Insert Cancel

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Available Monday Routes For MON A 40-2 41-1

Day	Route	Seq	TWearers	TPieces	EWearers	EPieces	EShirts	EPants
Monday	40	20	15	165	13	46	46	0
Monday	40	30	73	1150	60	295	295	0
Monday	40	35	2	85	2	9	9	0
Monday	40	45	22	491	21	196	196	0
Monday	40	50	11	136	10	35	35	0
Monday	40	60	6	64	0	7	7	0
Monday	40	65	9	177	7	68	68	0
Monday	41	10	2	1357	2	60	60	0
Monday	41	15	18	282	16	91	91	0
Monday	41	20	15	627	13	206	206	0
Monday	41	30	13	118	11	33	33	0
Monday	41	35	19	341	18	106	106	0
Monday	41	45	11	297	9	95	95	0
Monday	41	50	2	11	0	0	0	0
Monday	42	1	2	4	2	0	0	0
Monday	42	5	20	298	20	124	124	0

Day: Wash Lot:

Available Monday Routes For MON A 40-2 41-1

Day	Route	Seq	TWearers	TPieces	EWearers	EPieces	EShirts	EPants
Monday	40	20	15	165	13	46	46	0
Monday	40	30	73	1150	60	295	295	0
Monday	40	35	2	85	2	9	9	0
Monday	40	45	22	491	21	196	196	0
Monday	40	50	11	136	10	35	35	0
Monday	40	60	6	64	0	7	7	0
Monday	40	65	9	177	7	68	68	0
Monday	41	10	2	1357	2	60	60	0
Monday	41	15	18	282	16	91	91	0
Monday	41	20	15	627	13	206	206	0
Monday	41	30	13	118	11	33	33	0
Monday	41	35	19	341	18	106	106	0
Monday	41	45	11	297	9	95	95	0
Monday	41	50	2	11	0	0	0	0
Monday	42	1	2	4	2	0	0	0
Monday	42	5	20	298	20	124	124	0

Day: Wash Lot:

The creation of the Sort Lot is complete. If there is another Sort Lot to create go to **STEP 1** and repeat the steps.

Sort Lot Management

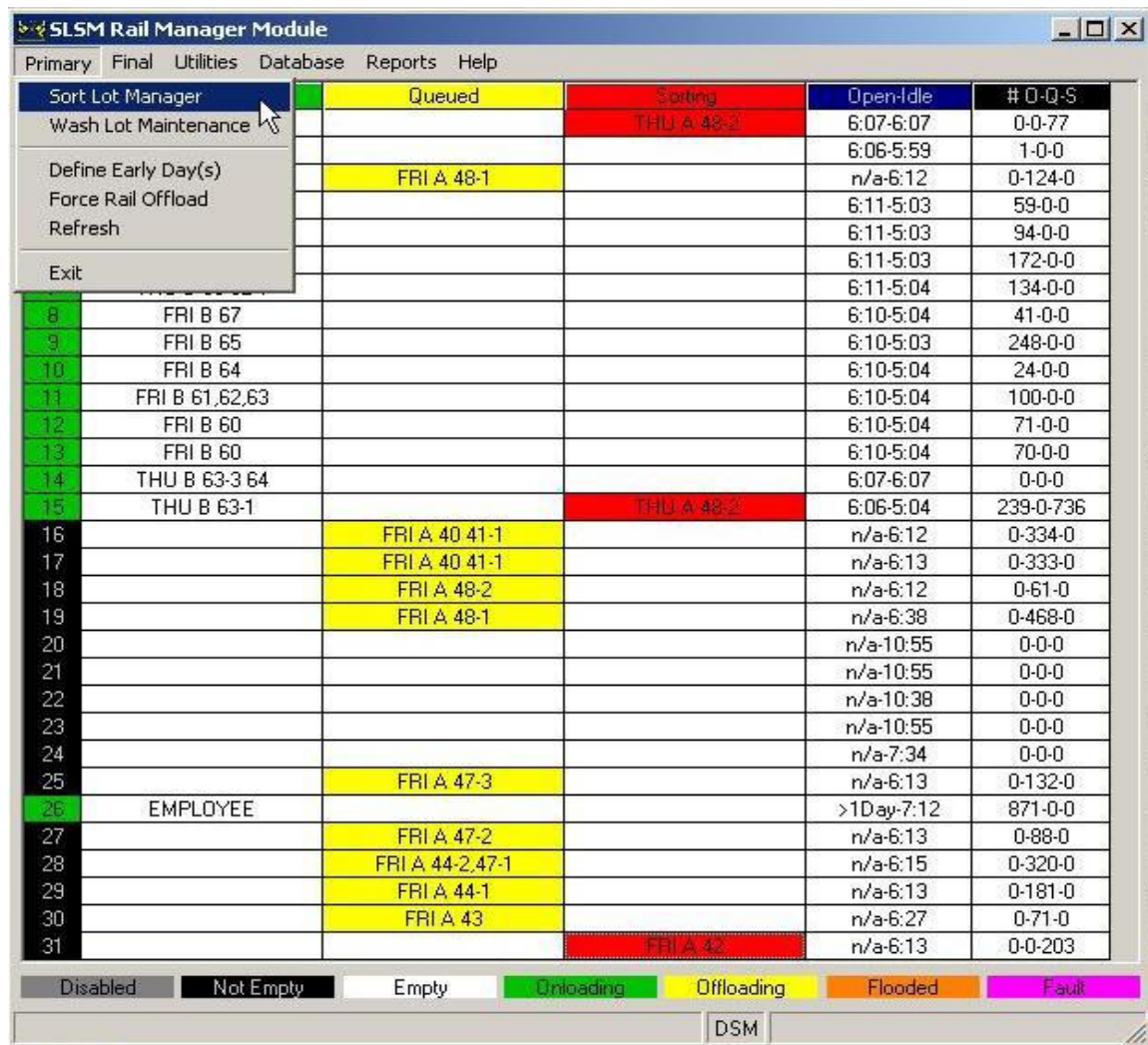
Configure Selected Lot

It will be necessary to change the configuration of an existing Sort Lot from time to time. To reconfigure a Sort Lot start at the SLSM Rail Manager program and select Sort Lot Manager.

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STEP 1: To change the configuration of a Sort Lot(s) go to the SLSM Rail Manager program and open the Sort Lot Manager under the Primary selection on the Main Menu (See Below).



The screenshot shows the SLSM Rail Manager Module window. The 'Primary' menu is open, highlighting 'Sort Lot Manager'. The main window displays a table of sort lots with columns for status, sort lot ID, sorting status, open time, and # O-Q-S. The table is filtered by 'Queued' status. The status bar at the bottom shows 'Disabled', 'Not Empty', 'Empty', 'Unloading', 'Offloading', 'Flooded', and 'Fault'.

	Sort Lot	Queued	Sorting	Open Idle	# O-Q-S
			THU A 48-2	6:07-6:07	0-0-77
				6:06-5:59	1-0-0
	FRI A 48-1			n/a-6:12	0-124-0
				6:11-5:03	59-0-0
				6:11-5:03	94-0-0
				6:11-5:03	172-0-0
				6:11-5:04	134-0-0
8	FRI B 67			6:10-5:04	41-0-0
9	FRI B 65			6:10-5:03	248-0-0
10	FRI B 64			6:10-5:04	24-0-0
11	FRI B 61,62,63			6:10-5:04	100-0-0
12	FRI B 60			6:10-5:04	71-0-0
13	FRI B 60			6:10-5:04	70-0-0
14	THU B 63-3 64			6:07-6:07	0-0-0
15	THU B 63-1		THU A 48-2	6:06-5:04	239-0-736
16		FRI A 40 41-1		n/a-6:12	0-334-0
17		FRI A 40 41-1		n/a-6:13	0-333-0
18		FRI A 48-2		n/a-6:12	0-61-0
19		FRI A 48-1		n/a-6:38	0-468-0
20				n/a-10:55	0-0-0
21				n/a-10:55	0-0-0
22				n/a-10:38	0-0-0
23				n/a-10:55	0-0-0
24				n/a-7:34	0-0-0
25		FRI A 47-3		n/a-6:13	0-132-0
26	EMPLOYEE			>1Day-7:12	871-0-0
27		FRI A 47-2		n/a-6:13	0-88-0
28		FRI A 44-2,47-1		n/a-6:15	0-320-0
29		FRI A 44-1		n/a-6:13	0-181-0
30		FRI A 43		n/a-6:27	0-71-0
31			FRI A 42	n/a-6:13	0-0-203

STEP 2: Highlight the Sort Lot to be reconfigured.

INSERT SCREEN SHOT

STEP 3: Click on Lot and in the dropdown click on Configure Selected Lot.

INSERT SCREEN SHOT

STEP 4: The changes that will be made here are adding or reducing the number of 1st sort rails, changing the day for the Sort Lot due to reroute, etc. Make the required changes and hit the Save button.

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Lot Configuration

MON A 40-2 41-1
0 Garments
0 Wearers
0 Shirts
0 Pants

Sort MultiDay On
☒ Monday
☐ Tuesday
☐ Wednesday
☐ Thursday
☐ Friday
☐ Saturday
☐ Sunday

Primary Rail Assignment
☒ Single Rail
☐ 2 Rail Split
☐ 4 Rail Split

Primary Rail Utilization
☐ Even Distribution
☐ Shirt/Pant Separation

Subdivide Routes By
☐ Stop
☒ Sequence
☐ Auxillary

Max Garments/Final Rail
☐ Override Default 0

Save Cancel

ReName Selected Lot

If it becomes necessary to change the name of an existing Sort Lot follow the steps below.

STEP 1: To change the configuration of a Sort Lot(s) go to the SLSM Rail Manager program and open the Sort Lot Manager under the Primary selection on the Main Menu (See Below).

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SLSM Rail Manager Module					
Primary Final Utilities Database Reports Help					
Sort Lot Manager		Queued	Sorting	Open-Idle	# O-Q-S
Wash Lot Maintenance			THU A 48-2	6:07-6:07	0-0-77
Define Early Day(s)				6:06-5:59	1-0-0
Force Rail Offload		FRI A 48-1		n/a-6:12	0-124-0
Refresh				6:11-5:03	59-0-0
Exit				6:11-5:03	94-0-0
				6:11-5:03	172-0-0
				6:11-5:04	134-0-0
8 FRI B 67				6:10-5:04	41-0-0
9 FRI B 65				6:10-5:03	248-0-0
10 FRI B 64				6:10-5:04	24-0-0
11 FRI B 61,62,63				6:10-5:04	100-0-0
12 FRI B 60				6:10-5:04	71-0-0
13 FRI B 60				6:10-5:04	70-0-0
14 THU B 63-3 64				6:07-6:07	0-0-0
15 THU B 63-1			THU A 48-2	6:06-5:04	239-0-736
16		FRI A 40 41-1		n/a-6:12	0-334-0
17		FRI A 40 41-1		n/a-6:13	0-333-0
18		FRI A 48-2		n/a-6:12	0-61-0
19		FRI A 48-1		n/a-6:38	0-468-0
20				n/a-10:55	0-0-0
21				n/a-10:55	0-0-0
22				n/a-10:38	0-0-0
23				n/a-10:55	0-0-0
24				n/a-7:34	0-0-0
25		FRI A 47-3		n/a-6:13	0-132-0
26 EMPLOYEE				>1Day-7:12	871-0-0
27		FRI A 47-2		n/a-6:13	0-88-0
28		FRI A 44-2,47-1		n/a-6:15	0-320-0
29		FRI A 44-1		n/a-6:13	0-181-0
30		FRI A 43		n/a-6:27	0-71-0
31			FRI A 42	n/a-6:13	0-0-203
Disabled Not Empty Empty Unloading Offloading Flooded Fault					
DSM					

STEP 2: Click on Lot and in the dropdown click on ReName Selected Lot.

INSERT SCREEN SHOT

STEP 3: Enter the new name and hit the Save button.

INSERT SCREEN SHOT

Delete Sort Lot

To delete a sequence from a Sort Lot go to Sort Lot Manager.

Highlight the Sort Lot to be deleted.

Click on Lot and in the dropdown click on Delete Selected Lot.

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Sort Lot Manager

Lot: Utilites

Sort Lots

- MON C 14 15 16-1
- MON C 16 2 17-1
- MON C 17 2 18 19-1
- MON C 19 2 20
- MON C 21 22
- MON C 3 4-1
- MON C 4 2 5-1
- MON C 5 2 6
- MON C 6 10-1
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday
- Sunday
- New/Unconfigured
- EMPLOYEES
- MON A 40 2 41-1

Members / MON A 40 2 41-1

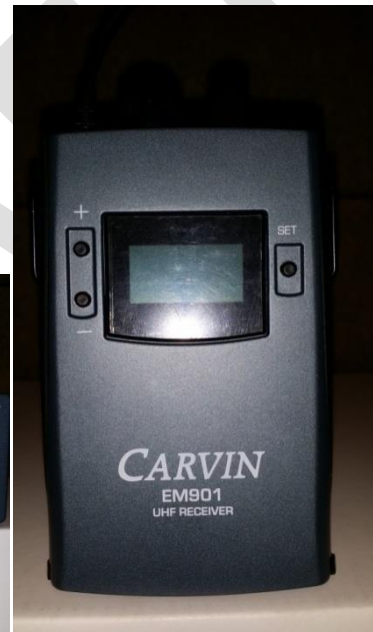
Route	Seq	TWearers	TGaments	EWearers	EGaments	EShirts	EPants
Monday 40	25	2	85	2	9	9	0
Monday 40	45	22	491	21	196	196	0
Monday 40	50	11	136	10	35	35	0
Monday 40	60	6	64	0	7	7	0
Monday 40	65	9	177	7	68	68	0
Monday 41	10	2	1357	2	60	60	0
Monday 41	15	10	202	16	91	91	0
Monday 41	20	15	627	13	206	206	0
Monday 41	30	13	118	11	33	33	0
Monday 41	35	19	341	18	106	106	0
Total		117	3678	100	811	811	0

Close Early Open Queue Stop Insert Graphic Delete

Audio Equipment



Transmitter



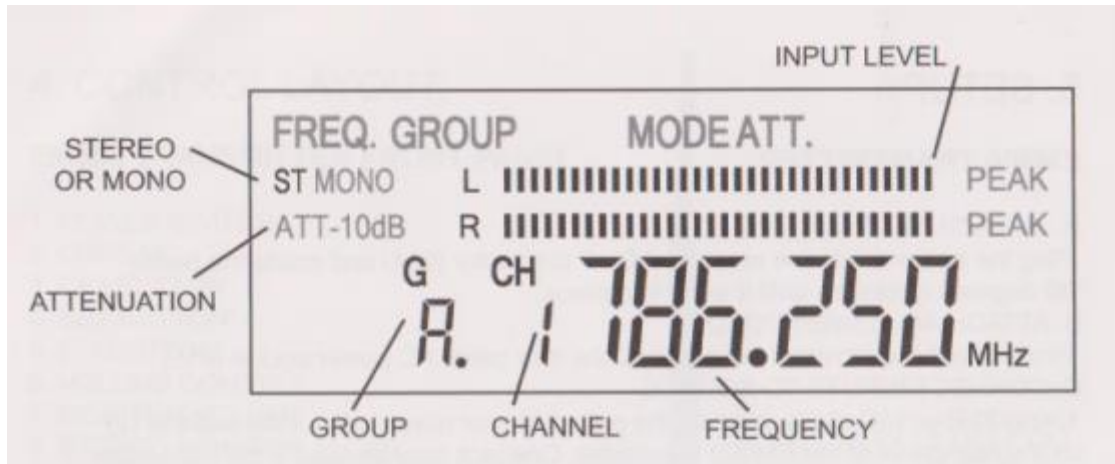
Receiver

To Setup a Transmitters and/or Receivers follow this process. There are 4 settings that will have to be setup/verify on the Transmitter and/or; Frequency, Group, Channel and Stereo/Mono. The Frequency will be set by the Group and Channel that is selected, no action is required other than to verify the Frequency on the Transmitter matches the Frequency on the Receiver. These setting will have to match the settings from the Transmitter and/or Receiver that is being replaced. Below is a definition of the settings as they appear on the Transmitter and Receiver Screen.

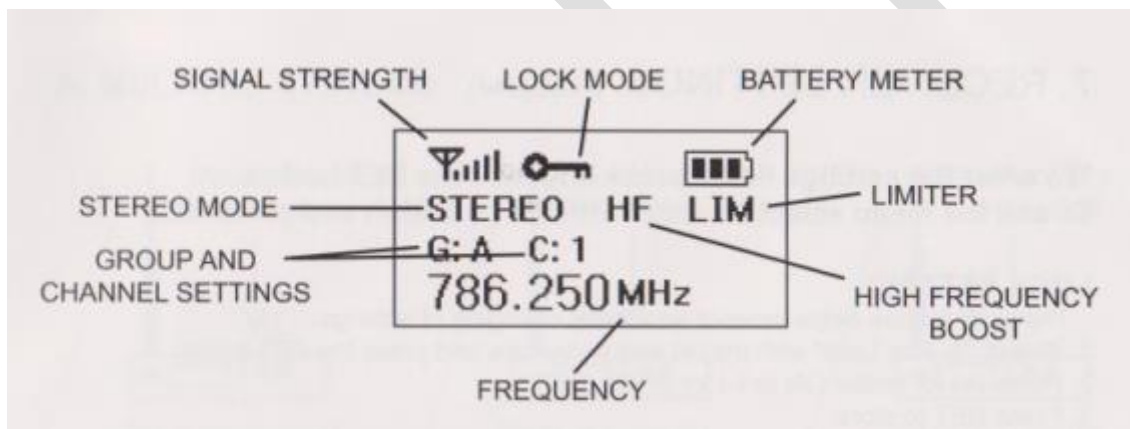
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Transmitter



Receiver



Transmitter Configuration

- Step 1:** Power up the Transmitter.
- Step 2:** Hold in the Set Button until the FREQ, in upper left corner, flashes.
- Step 3:** Hit the Set Button once and the Group G will flash.
- Step 4:** Hit the + or - Button until you get to the desired Group.
- Step 5:** Hit the Set Button once and the Channel CH will flash.
- Step 6:** Hit the + or - Button until you get to the desired Channel.
- Step 7:** Hit the Set Button 4 times and Store will flash on the screen.
- Step 8:** Hold in the Set Button until the FREQ, in upper left corner, flashes.
- Step 9:** Hit the Set Button 3 times and the Stereo setting will be displayed.
- Step 10:** The factory default is Stereo, hit the - Button and Mono will be displayed.
- Step 11:** Hit the Set Button and the setting will be displayed and saved.
- Step 12:** Verify the Frequency and the other setting against the Receiver to be paired with the Transmitter.

Receiver Configuration

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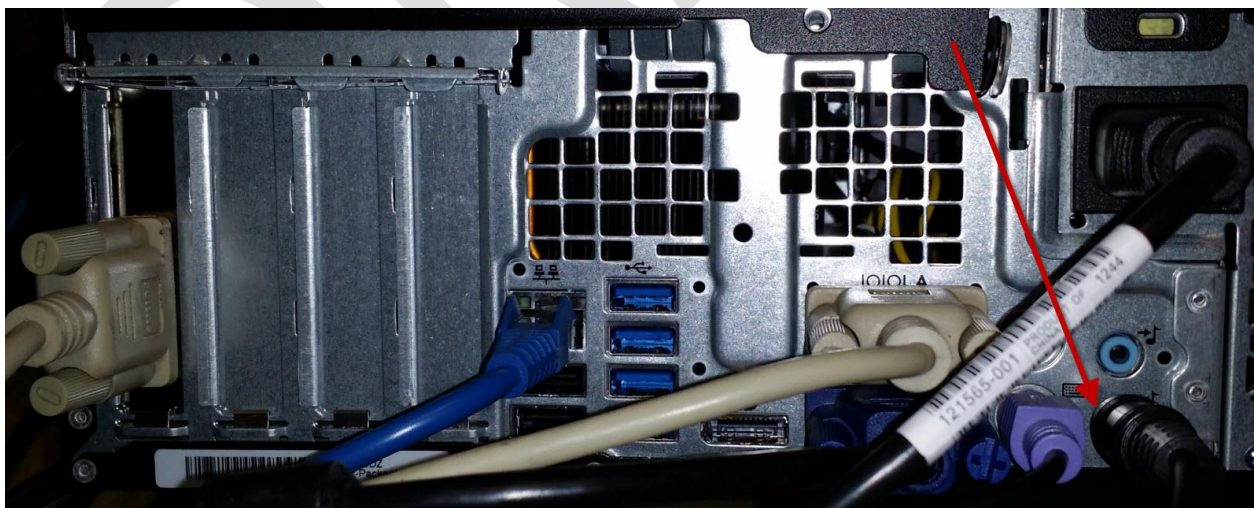
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- Step 1:** Power up the Transmitter.
- Step 2:** Hold in the Set Button until the Menu is displayed.
- Step 3:** Hit the – Button once to go to 2 Group/Channel.
- Step 4:** Hit the Set Button and the Channel C will flash.
- Step 5:** Hit the + or – Button until you get to the desired Group.
- Step 6:** Hit the Set Button once and the Channel CH will flash.
- Step 7:** Hit the Set Button and the Save option will appear, hit the + button to save or the – to disregard the change.
- Step 8:** Hit the – Button once to go to 3 Stereo/Mono.
- Step 9:** The factory default is Stereo, hit the – Button and Mono will be checked. Hit the Set Button and the Menu will be displayed.
- Step 10:** Hit the – Button 6 times to go to 9 Exit.
- Step 11:** Hit the Set Button and the settings will be displayed.
- Step 12:** Verify the Frequency and the other setting against the Transmitter to be paired with the Receiver.

Audio Cable



1. The 'Black' 3.5mm connects to the 'Green' speaker output on the back of the direct sort computer, see **RED ARROW** below.



2. The 'Black' 1/4 plug connects into the CH. 1 IN on the Carvin Unit setup as Ch. 1 is LEFT in the computer setup.
3. The 'Red' 1/4 plug connects into the RIGHT/CH. 2 IN on the Carvin Unit setup as Ch. 2.

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6+

Barcode Equipment

The Barcode equipment consists of the finger scanners and the Bluetooth USB adapter for the computer. This setup process will be followed in the event one of these components fails during operation and needs to be reconfigured or a new unit is acquired.

Scanner

The finger scanner has two components the scanner and the battery.



To set up the finger scanner follow these steps:

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1. Set scanner to factory default.
 - a. Hold down the reset button (Do not release until instructed)



- b. Insert battery (Red lights and beeps, green lights will flash and beeps.)
 - c. Hold the reset button for at least 5 seconds after the second set of beeps
 - d. Remove the battery and reinsert (Wait for the beeps)
 - e. Remove the battery one more time and reinsert (Wait for the beeps)
 - The scanner is now set to the factory defaults
 - f.

Note: Do not touch the yellow scan button during steps d and e. If the scan button is hit during this process the scanner factory default will have to be preformed starting at step a.

2. Program the scanner
 - a. Scan the barcodes below starting with the upper left barcode going down the left column one by one. Once the left column is complete go to the upper right barcode and scan down each barcode in the right column.
 - b. Perform the same process for all 3 pages.

NOTE: If a barcode is missed or scanned twice the process must be started over from the first page.

NOTE: Below is a link to a video on the setup process.

<https://www.youtube.com/watch?v=dBTVoCNhd-E>

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Set Factory Defaults



Scan Suffix 1
(06h)



Scan Prefix
(07h)



1



1



0



0



0



0



3



2



<PREFIX> <DATA> <SUFFIX 1>
(05h)

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Symbologies



Disable UPC-A
(00h)



Disable EAN-8/JAN-8
(00h)



Disable UPC-E
(00h)



Disable EAN-13/JAN-13
(00h)



Disable Code 128
(00h)



Disable GS1-128
(00h)



Disable ISBT 128
(00h)



Disable Code 39
(00h)



Enable Interleaved 2 of 5
(01h)



I 2 of 5 - One Discrete Length

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1



Disable QR Code
(00h)



0



Disable MicroQR
(00h)



Disable PDF417
(00h)



Disable Aztec
(00h)

Set SPP (Serial Port Protocol) mode

The interface used in the system requires the scanner to operate in SPP mode, which is enabled by scanning the following barcode:

SPP bar code



Bluetooth

The initial setup of the Bluetooth is done during the initial configuration of the computers and software. If it becomes necessary to reset up the Bluetooth follow the steps below:

1. Right click the Bluetooth icon in bottom right hand corner of the screen.



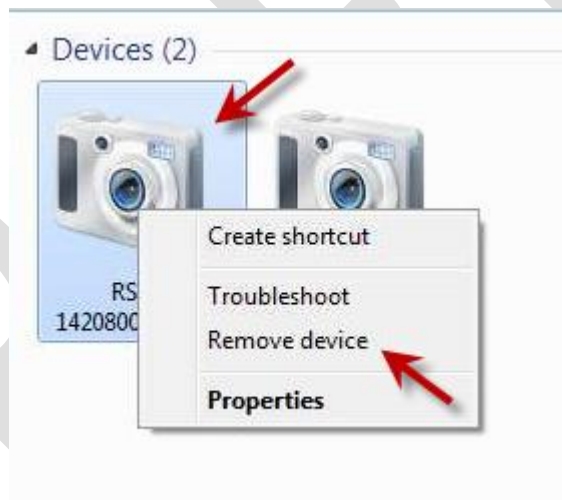
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2. Right click on "Show Bluetooth Devices."



3. Right click on the first device and then right click "Remove device."



4. Repeat Step 3 for the second device.
5. Remove the Bluetooth dongle from the USB Port on the computer.



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6. Reboot the computer
7. Once the computer has rebooted plug the Bluetooth dongle back into the computer USB port.
8. Right click the Bluetooth icon in bottom right hand corner of the screen.



9. Right click on "Add a Device."
10. Find the device you want to add,
11. Make note of the COM Ports and set accordingly in each client window. Usually the first one is COM 4 and the second is COM 6
12. Make sure the scan engine ip is set to the box with the scan engine. In your case, 10.5.5.64

Daily Operation

This section will cover the day to day operations of the Directed Sort. It contains the steps that will need to be followed and information that will be needed to successfully operate the Directed Sort on a daily basis.

Data Transfer

The Directed Sort transfers data to the ABS Route Accounting System continually during operation. The data is the garment out scan used by ABS. This function is fully automated and requires no Operator intervention. The 1st Break Operator should periodically monitor the ABSi to insure data is indeed transferring. You should see data scrolling in the ABSi window.

NOTE: It is critical that ABSi is running at all time. Also the 1st Sort Computer needs to run 7 X 24.

The data the Directed Sort uses to perform the sorting process all comes from ABS. ABS periodically throughout the day will transfer any garment information that changes in ABS during normal operational hours. Also one time a day, during non-operational hours the entire database is updated. This function is also fully automated so there is no need for Operator intervention.

NOTE: If there is an issue with the Data Transfer call TAC.

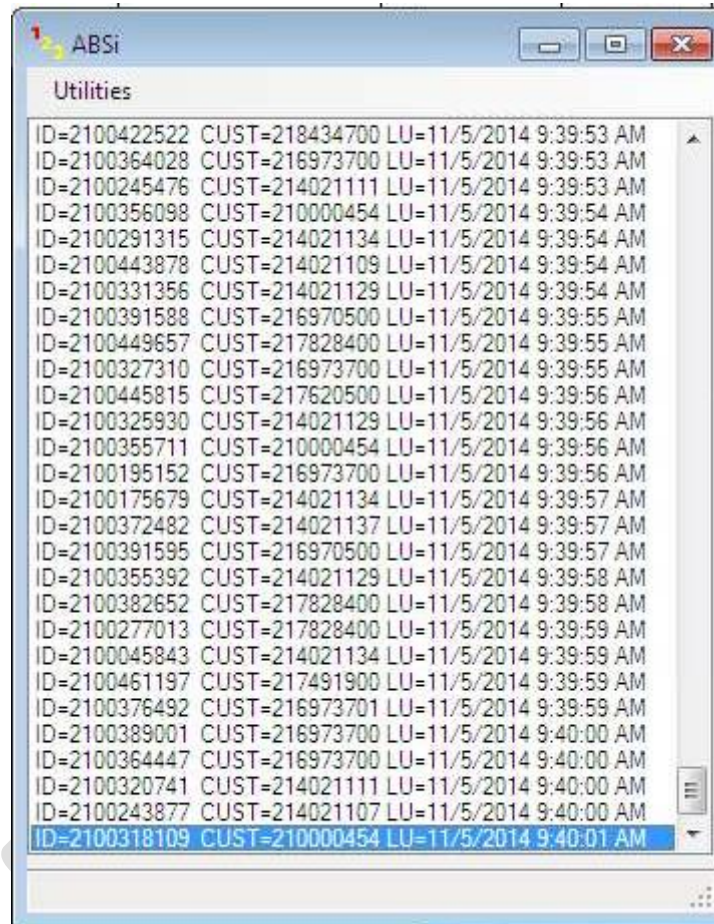
Manual Transfer - ABS to Directed Sort

Should it be necessary to do a manual transfer from ABS to the Directed Sort follow the steps below:

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STEP 1: Go to the ABSi window.

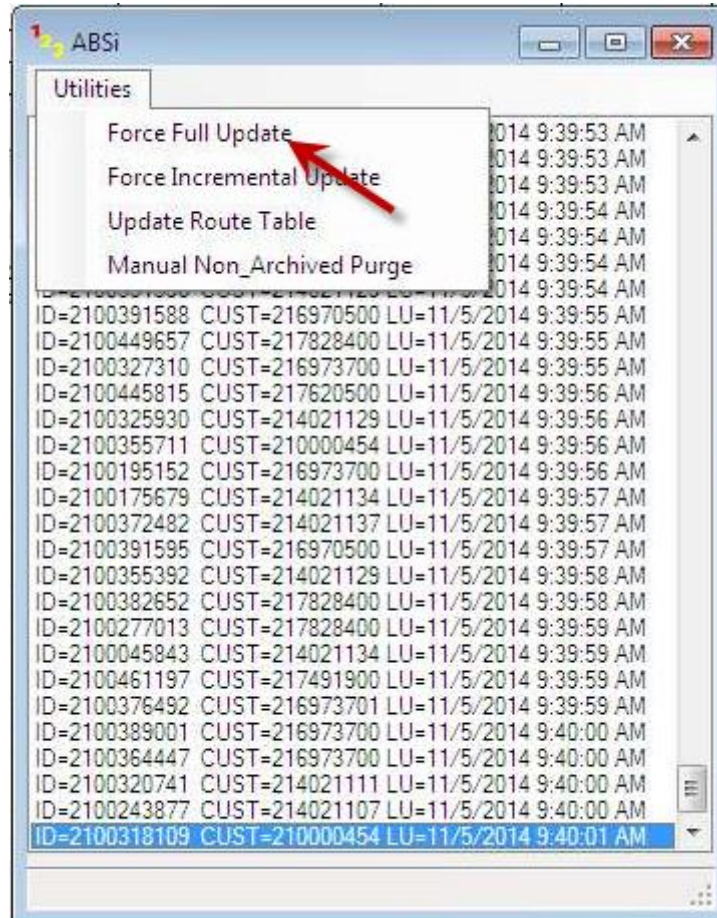


STEP 2: Click on "Force Full Update."

NOTE: There can be no process on the Directed Sort while this process is running.

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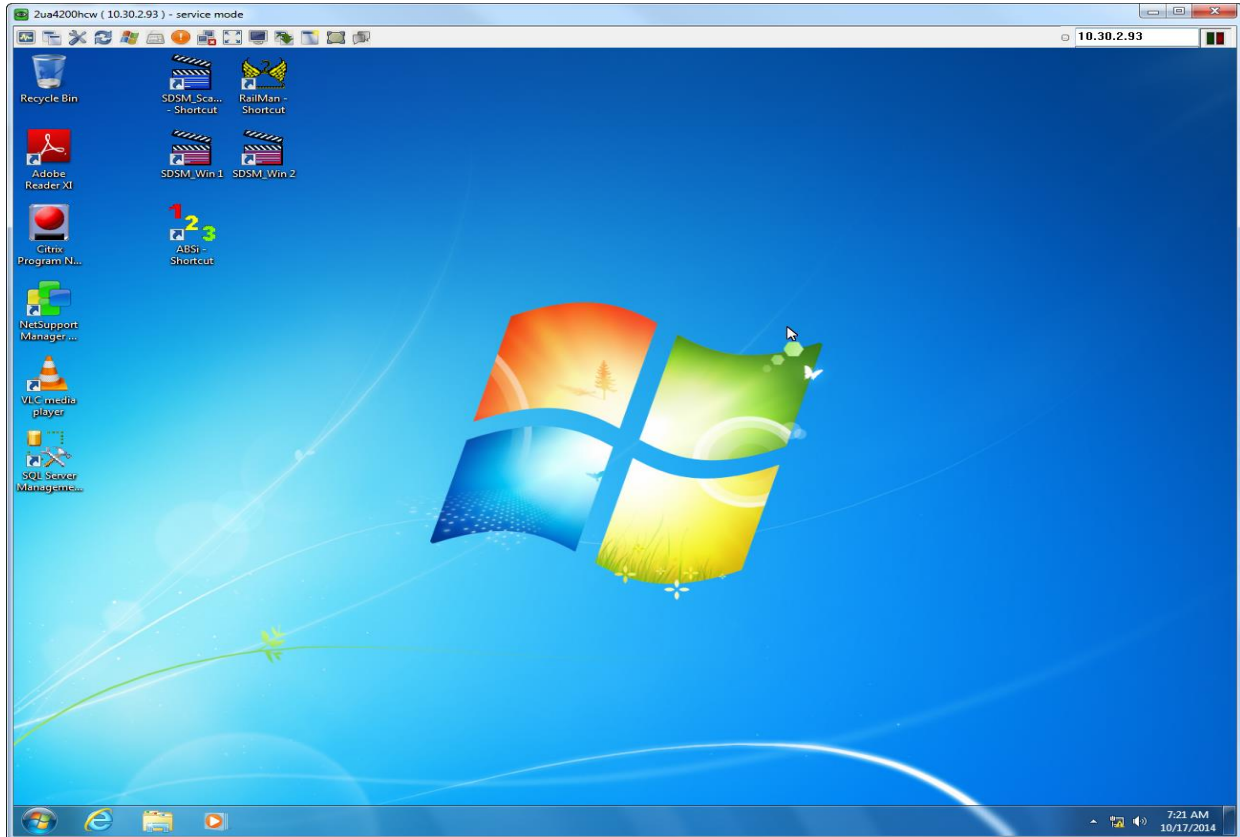


System Start-up Procedure

If the workstation is shutdown in the beginning of operation do a normal startup, turn on the computer and use the appropriate AD login. The system will display the screen below:

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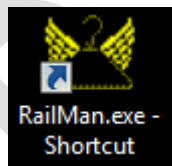
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From the main screen open the following Directed Sort modules, depending on the Sort operation to be preformed:

ALL WORKSTATIONS:

- SLSM Rail Manager



- SDSM Scan Engine



- SDSM _Win for the Scanner to be used



1st SORT WORKSTATION (CRITICAL)

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- ABSi

Operators at each sort station must also indicate their position in the system. The SDSM window indicates on which Break an operator is working. To change Break on the SDSM window put the cursor on the Break bar and click the Break options will change with each click. Click until the appropriate Break is displayed.



The workstation is ready to begin daily processing.

1st Sort Operator Start-up Checklist

- Check the batteries in the Finger Scanner and the Blue Tooth receiver are charged.
- Verify the ABSi is up and running.

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- Verify the appropriate Scan Engine is open for the Finger Scanner being used.
- Verify the correct Break/Sort is open on the Scan Engine (SDSM).
- The 1st Sort Operator needs to insure the appropriate Sort Lots are 'Open' (Green status) in Rail Manager for any Routes that are expected from the tunnel. **NOTE: It is very important the 1st Sort Operator communicates with the tunnel to insure a Wash Lot does not start entering the Directed Sort without open Rail(s).**

2nd Sort Operator Start-up Checklist

- Check the batteries in the Finger Scanner and the Blue Tooth receiver are charged.
- Verify the appropriate Scan Engine is open for the Finger Scanner being used.
- Verify the correct Break/Sort is open on the Scan Engine (SDSM).

3rd Sort Operator Start-up Checklist

- Check the batteries in the Finger Scanner and the Blue Tooth receiver are charged.
- Verify the appropriate Scan Engine is open for the Finger Scanner being used.
- Verify the correct Break/Sort is open on the Scan Engine (SDSM).

Garment Scanning/Sorting Process

Once Sort Lots have been created, they can be processed by the Directed Sort. Sort Lots have 3 stages they must go through to be properly processed by the Directed Sort, Open, Queued and Sort.

- The Operator(s) at the 1st Break/Sort station will handle all Sort Lot(s) in the white Open status.
- The Operator(s) at the 2nd Break/Sort will handle all Sort Lot(s) yellow Queued status.
- The Operator(s) at the 3rd sort will handle the Sort Lot(s) in the red Sorting mode.

The Directed Sort Scan Engine will audibly indication to the Operator the proper hook for the garment scanned to be placed. Also the Directed Sort Scan Engine screen displays a visual indication of the proper hook for the garment scanned. It also provides the operator additional information that could assist the sorting operation. The workstation screen indicates Break (Sort), on the screen below it is performing 1st Break or 1st Sort and the operator is Isabelle.

The window also provides data for the last garment scanned, so that an item may be scanned to determine its status. In the example below in the white window on the left of the screen shows:

- Tag – The Barcode ID for the last garment scanned
- Day – Route day
 - **NOTE: The days in the Directed Sort are M=Monday, T=Tuesday, W=Wednesday, R=Thursday and F=Friday.**

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- Route – The route number for the garment
- Seq – The sequence number in Directed Sort
- Account – The customer account number
- Wearer – The wearer number
- Garment Type – The garment style
- Last Primary – Last date/time of a 1st sort in the Directed Sort
- Last Final – Last date/time of a 1st sort in the Directed Sort
- Last Mend – Last date/time the Directed Sort detected a Mend Flag.
- Dirty - ?
- Return - ?
- Mend - ?
- Archive - ?
- 1st - ?
- Bundle -?

NOTE: As mentioned this information is for the last garment scanned at this workstation.

The screenshot shows the SDSM_Win software interface. On the left is a list of garment tags and their corresponding hook numbers. The last item in the list is selected: tag 00D006B65766 [893465810790] Hook 11. On the right, a detailed view of this garment is displayed. It features a large yellow box with the number '11' and the name 'Isabelle'. Below this, a list of garment attributes is shown with their values.

1st Break	
Isabelle	
Tag	893465810790
Day	R
Route	22
Seq	90
Account	514707800
Wearer	1
Garment Type	Shirt/Other
LastPrimary	n/a
LastFinal	n/a
LastMend	n/a
Dirty	No
Return	No
Mend	No
Archive	Yes
1st	0
Bundle	0

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Operators at each station will receive audible feedback from the Directed Sort System via the Directed Sort Scan Engine which provides the number of the rail on which each garment should be placed after it is scanned. The Directed Sort systems that are being used within AmeriPride Services/Canadian Linen use a graduated hook conveyor to move the garments to the appropriate rail. Once the Directed Sort displays the rail number, in the yellow area, the operator places the garment on the corresponding number on the graduated hook conveyor.

1st Sort - Open a Sort Lot

Once Sort Lots have been created, they can be processed by the Directed Sort. The first step is to Open the Sort Lot. This process is generally handled by the 1st Break/Sort Operator(s).

NOTE: The Sort Lot(s) will appear in the Sort Lot Manager in their current sort state, Green – Open, Yellow – Queued and Red – Sort.

STEP 1: To Open a Sort Lot, go to the SLSM Rail Manager program under the Primary selection. From the dropdown menu select Sort Lot Manager (See Below).

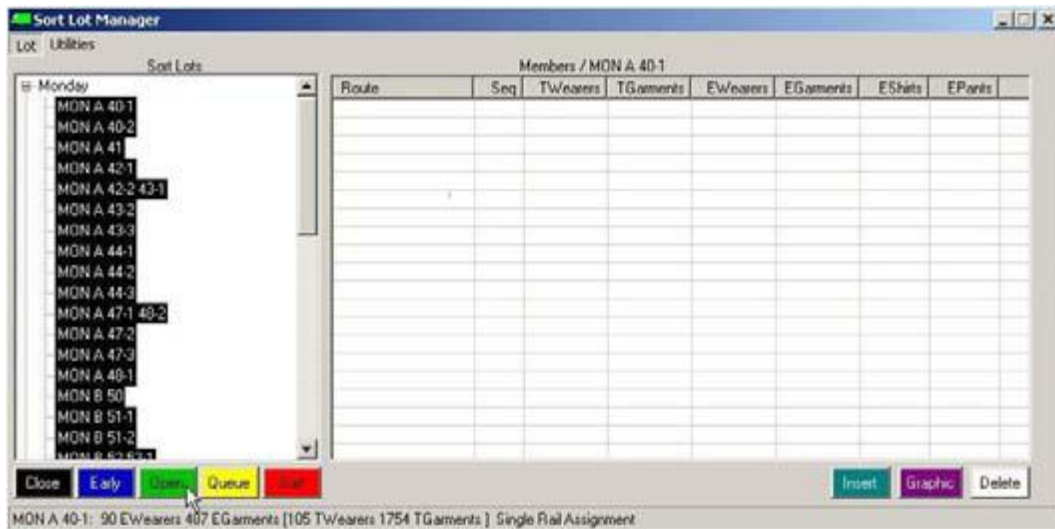
	Sort Lot Manager	Queued	Sorting	Open/Idle	# O-Q-S
			THU A 48-2	6:07-6:07	0-0-77
				6:06-5:59	1-0-0
		FRI A 48-1		n/a-6:12	0-124-0
				6:11-5:03	59-0-0
				6:11-5:03	94-0-0
				6:11-5:03	172-0-0
				6:11-5:04	134-0-0
8	FRI B 67			6:10-5:04	41-0-0
9	FRI B 65			6:10-5:03	248-0-0
10	FRI B 64			6:10-5:04	24-0-0
11	FRI B 61,62,63			6:10-5:04	100-0-0
12	FRI B 60			6:10-5:04	71-0-0
13	FRI B 60			6:10-5:04	70-0-0
14	THU B 63-3 64			6:07-6:07	0-0-0
15	THU B 63-1		THU A 48-2	6:06-5:04	239-0-736
16		FRI A 40 41-1		n/a-6:12	0-334-0
17		FRI A 40 41-1		n/a-6:13	0-333-0
18		FRI A 48-2		n/a-6:12	0-61-0
19		FRI A 48-1		n/a-6:38	0-468-0
20				n/a-10:55	0-0-0
21				n/a-10:55	0-0-0
22				n/a-10:38	0-0-0
23				n/a-10:55	0-0-0
24				n/a-7:34	0-0-0
25		FRI A 47-3		n/a-6:13	0-132-0
26	EMPLOYEE			>1Day-7:12	871-0-0
27		FRI A 47-2		n/a-6:13	0-88-0
28		FRI A 44-2,47-1		n/a-6:15	0-320-0
29		FRI A 44-1		n/a-6:13	0-181-0
30		FRI A 43		n/a-6:27	0-71-0
31			FRI A 42	n/a-6:13	0-0-203

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STEP 2: Select the Sort Lot to be opened and click the green Open button.



The Sort Lot will appear on an available rail, on the SLSM Rail Manager, in the Open column. **NOTE: the Directed Sort will assign the rail automatically, no operator intervention is required.**

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SLSM Rail Manager Module					
Primary Final Utilities Database Reports Help					
Rail	Open	Queued	Sorting	Open-Idle	# O-Q-S
1	THU B 63-2		THU A 48-2	6:23-6:23	0-0-77
2	OUT OF SEQUENCE			6:22-6:16	1-0-0
3		FRI A 48-1		n/a-6:29	0-124-0
4	THU B 57-2 61-1			6:27-5:20	59-0-0
5	THU B 56 57-1			6:27-5:20	94-0-0
6	THU B 52-2 53			6:27-5:20	172-0-0
7	THU B 50 52-1			6:27-5:20	134-0-0
8	FRI B 67			6:27-5:20	41-0-0
9	FRI B 65			6:27-5:20	248-0-0
10	FRI B 64			6:27-5:20	24-0-0
11	FRI B 61,62,63			6:27-5:20	100-0-0
12	FRI B 60			6:26-5:20	71-0-0
13	FRI B 60			6:26-5:20	70-0-0
14	THU B 63-3 64			6:23-6:23	0-0-0
15	THU B 63-1		THU A 48-2	6:22-5:20	239-0-736
16		FRI A 40 41-1		n/a-6:28	0-334-0
17		FRI A 40 41-1		n/a-6:29	0-333-0
18		FRI A 48-2		n/a-6:29	0-61-0
19		FRI A 48-1		n/a-6:54	0-468-0
20	MON A 40-1			0:03-0:03	0-0-0
21				n/a-11:11	0-0-0
22				n/a-10:54	0-0-0
23				n/a-11:11	0-0-0
24				n/a-7:50	0-0-0
25		FRI A 47-3		n/a-6:29	0-132-0
26	EMPLOYEE			>1Day-7:28	871-0-0
27		FRI A 47-2		n/a-6:29	0-88-0
28		FRI A 44-2,47-1		n/a-6:31	0-320-0
29		FRI A 44-1		n/a-6:29	0-181-0
30		FRI A 43		n/a-6:43	0-71-0
31			FRI A 42	n/a-6:29	0-0-203

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DSM

STEP 3: DETERMINE IS MULTIPLE LOTS CAN BE DONE AT ONCE OR ONE LOT AT A TIME.

Garments can now be scanned into 1st sort for the Sort Lot(s) that are shown in the Open column of the SLSM Rail Manager since there is a destination rail in 1st sort storage.

1st Sort - Queuing a Sort Lot

Once the 1st Sort Operator determines that the Sort Lot(s) are complete, there will be no more garments coming from the Tunnel for the Sort Lot(s). The operator must "Queue" the Sort Lot, indicating to the 2nd sort operator(s) the Sort(s) Lot is ready to be sorted in 2nd sort. **NOTE: A best practices would be to have some type of indication from the Tunnel that a Wash Lot is complete. This could be as simple as the Tunnel Lead telling to 1st Sort Operator the Wash Lot is complete. Another indicator could be hanging a flag at the back of the Wash Lot.**

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STEP 1: To Queue the completed Sort Lot, on the SLSM Rail Manager the Operator clicks on the name of the Sort Lot to be Queued.

SLSM Rail Manager Module					
Primary Final Utilities Database Reports Help					
Rail	Open	Queued	Sorting	Open-Idle	# O-Q-S
1	THU B 63-2		THU A 48-2	6:23-6:23	0-0-77
2	OUT OF SEQUENCE			6:22-6:16	1-0-0
3		FRI A 48-1		n/a-6:29	0-124-0
4	THU B 57-2 61-1			6:27-5:20	59-0-0
5	THU B 56 57-1			6:27-5:20	94-0-0
6	THU B 52-2 53			6:27-5:20	172-0-0
7	THU B 50 52-1			6:27-5:20	134-0-0
8	FRI B 67			6:27-5:20	41-0-0
9	FRI B 65			6:27-5:20	248-0-0
10	FRI B 64			6:27-5:20	24-0-0
11	FRI B 61,62,63			6:27-5:20	100-0-0
12	FRI B 60			6:26-5:20	71-0-0
13	FRI B 60			6:26-5:20	70-0-0
14	THU B 63-3 64			6:23-6:23	0-0-0
15	THU B 63-1		THU A 48-2	6:22-5:20	239-0-736
16		FRI A 40 41-1		n/a-6:28	0-334-0
17		FRI A 40 41-1		n/a-6:29	0-333-0
18		FRI A 48-2		n/a-6:29	0-61-0
19		FRI A 48-1		n/a-6:54	0-468-0
20	MON A 40-1			0:03-0:03	0-0-0
21				n/a-11:11	0-0-0
22				n/a-10:54	0-0-0
23				n/a-11:11	0-0-0
24				n/a-7:50	0-0-0
25		FRI A 47-3		n/a-6:29	0-132-0
26	EMPLOYEE			>1Day-7:28	871-0-0
27		FRI A 47-2		n/a-6:29	0-88-0
28		FRI A 44-2,47-1		n/a-6:31	0-320-0
29		FRI A 44-1		n/a-6:29	0-181-0
30		FRI A 43		n/a-6:43	0-71-0
31			FRI A 42	n/a-6:29	0-0-203

Disabled Not Empty Empty Unloading Offloading Flooded Fault

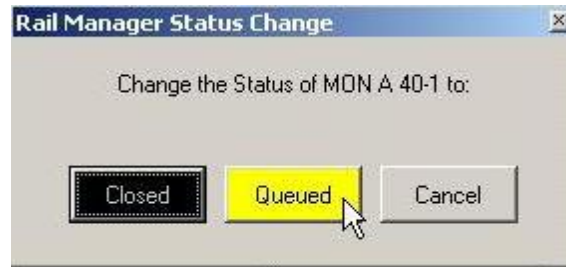
DSM

STEP 2: The Rail Manager Status Change below will be displayed. Click on the Queued button. **WARNING: Do not close a Sort Lot prior to completion of 3rd sort. If a Sort Lot is closed prior to completion of 3rd sort it cannot be recovered. It will have to be either hand sorted or reinserted into 1st sort and go through all 3 sorts of the Directed Sort.**

If an Operator accidentally selects to "Close" the Sort Lot, a warning screen is provided to double-check that they wish to do so, **be 100% sure the Sort Lot is to be closed.**

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The Sort Lot will move to the Queued column on the SLSM Rail Manager.

SLSM Rail Manager Module					
Primary Final Utilities Database Reports Help					
Rail	Open	Queued	Sorting	Open-Idle	# O-Q-S
1	THU B 63-2		THU A 48-2	6:24-6:24	0-0-77
2	OUT OF SEQUENCE			6:23-6:17	1-0-0
3		FRI A 48-1		n/a-6:30	0-124-0
4	THU B 57-2 61-1			6:28-5:20	59-0-0
5	THU B 56 57-1			6:28-5:21	94-0-0
6	THU B 52-2 53			6:28-5:20	172-0-0
7	THU B 50 52-1			6:28-5:21	134-0-0
8	FRI B 67			6:28-5:21	41-0-0
9	FRI B 65			6:27-5:20	248-0-0
10	FRI B 64			6:27-5:21	24-0-0
11	FRI B 61,62,63			6:27-5:21	100-0-0
12	FRI B 60			6:27-5:21	71-0-0
13	FRI B 60			6:27-5:21	70-0-0
14	THU B 63-3 64			6:24-6:24	0-0-0
15	THU B 63-1		THU A 48-2	6:23-5:21	239-0-736
16		FRI A 40 41-1		n/a-6:30	0-334-0
17		FRI A 40 41-1		n/a-6:30	0-333-0
18		FRI A 48-2		n/a-6:30	0-61-0
19		FRI A 48-1		n/a-6:55	0-468-0
20		MON A 40-1		n/a-0:04	0-0-0
21				n/a-11:12	0-0-0
22				n/a-10:55	0-0-0
23				n/a-11:12	0-0-0
24				n/a-7:51	0-0-0
25		FRI A 47-3		n/a-6:30	0-132-0
26	EMPLOYEE			>1Day-7:29	871-0-0
27		FRI A 47-2		n/a-6:30	0-88-0
28		FRI A 44-2,47-1		n/a-6:32	0-320-0
29		FRI A 44-1		n/a-6:30	0-181-0
30		FRI A 43		n/a-6:44	0-71-0
31			FRI A 42	n/a-6:30	0-0-203

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DSM

The "Open-Idle" and "O-Q-S" columns provide key data for making a decision to change the status of the Sort Lot.

Open-Idle provides two pieces of information: how long the Sort Lot has been in the Open status, in "hours:minutes" format; and how long the Sort Lot has been Idle (i.e.; hasn't received an item from the 1st sort station), again in "hours:minutes" format.

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O-Q-S indicates how many items are on a rail in the Open, Queued or Sorting status. Thus, an operator could determine that a Sort Lot is complete or nearly complete through the 1st sort station if it has been "Idle" for a significant period of time or if the "O" column entry indicates that it has received the typical maximum number of goods.

that they can begin handling the items. The Sort Lot "Queued" will move to the "Queued" column the background will turn yellow and the rail number background will turn black, indicating it is available for another 1st Sort Lot.

2nd Sort Scanning Process

When the operator(s) at the 2nd sort station are ready to process a Sort Lot, the status is changed from "Queued" to "Sorting". **NOTE: There can only be one Sort Lot in 2nd Sort at a time. Multiple Sort Lot open in 2nd Sort will cause sorting issues.**

STEP 1: To change a Sort Lot from the Queued status to the 2nd Sort sorting status the operator(s) will click on the Sort Lot to be sorted from the Queued column.

SLSM Rail Manager Module					
Primary Final Utilities Database Reports Help					
Rail	Open	Queued	Sorting	Open-Idle	# O-Q-S
1	THU B 63-2		THU A 48-2	6:24-6:24	0-0-77
2	OUT OF SEQUENCE			6:23-6:17	1-0-0
3		FRI A 48-1		n/a-6:30	0-124-0
4	THU B 57-2 61-1			6:28-5:20	59-0-0
5	THU B 56 57-1			6:28-5:21	94-0-0
6	THU B 52-2 53			6:28-5:20	172-0-0
7	THU B 50 52-1			6:28-5:21	134-0-0
8	FRI B 67			6:28-5:21	41-0-0
9	FRI B 65			6:27-5:20	248-0-0
10	FRI B 64			6:27-5:21	24-0-0
11	FRI B 61,62,63			6:27-5:21	100-0-0
12	FRI B 60			6:27-5:21	71-0-0
13	FRI B 60			6:27-5:21	70-0-0
14	THU B 63-3 64			6:24-6:24	0-0-0
15	THU B 63-1		THU A 48-2	6:23-5:21	239-0-736
16		FRI A 40 41-1		n/a-6:30	0-334-0
17		FRI A 40 41-1		n/a-6:30	0-333-0
18		FRI A 48-2		n/a-6:30	0-61-0
19		FRI A 48-1		n/a-6:55	0-468-0
20		MON A 40-1		n/a-0:04	0-0-0
21				n/a-11:12	0-0-0
22				n/a-10:55	0-0-0
23				n/a-11:12	0-0-0
24				n/a-7:51	0-0-0
25		FRI A 47-3		n/a-6:30	0-132-0
26	EMPLOYEE			>1Day-7:29	871-0-0
27		FRI A 47-2		n/a-6:30	0-88-0
28		FRI A 44-2,47-1		n/a-6:32	0-320-0
29		FRI A 44-1		n/a-6:30	0-181-0
30		FRI A 43		n/a-6:44	0-71-0
31			FRI A 42	n/a-6:30	0-0-203

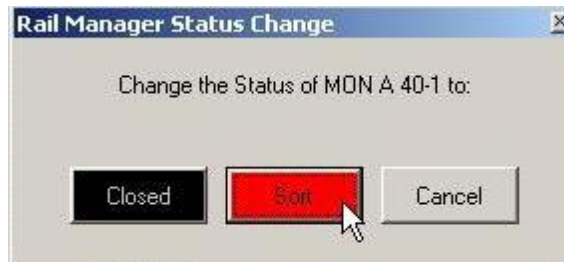
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DSM

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STEP: 2 The "Rail Manager Status Change" will be displayed see below, click on Sort.



The selected Sort Lot will be move to the the Sorting column and the background will turn orange.

SLSM Rail Manager Module					
Primary Final Utilities Database Reports Help					
Rail	Open	Queued	Sorting	Open-Idle	# O-Q-S
1	THU B 63-2		THU A 48-2	6:25-6:25	0-0-77
2	OUT OF SEQUENCE			6:24-6:17	1-0-0
3		FRI A 48-1		n/a-6:30	0-124-0
4	THU B 57-2 61-1			6:29-5:21	59-0-0
5	THU B 56 57-1			6:29-5:21	94-0-0
6	THU B 52-2 53			6:28-5:21	172-0-0
7	THU B 50 52-1			6:28-5:21	134-0-0
8	FRI B 67			6:28-5:22	41-0-0
9	FRI B 65			6:28-5:21	248-0-0
10	FRI B 64			6:28-5:22	24-0-0
11	FRI B 61,62,63			6:28-5:21	100-0-0
12	FRI B 60			6:28-5:22	71-0-0
13	FRI B 60			6:28-5:22	70-0-0
14	THU B 63-3 64			6:24-6:24	0-0-0
15	THU B 63-1		THU A 48-2	6:24-5:22	239-0-736
16		FRI A 40 41-1		n/a-6:30	0-334-0
17		FRI A 40 41-1		n/a-6:31	0-333-0
18		FRI A 48-2		n/a-6:30	0-61-0
19		FRI A 48-1		n/a-6:56	0-468-0
20			MON A 40-1	n/a-0:05	0-0-0
21				n/a-11:12	0-0-0
22				n/a-10:55	0-0-0
23				n/a-11:12	0-0-0
24				n/a-7:52	0-0-0
25		FRI A 47-3		n/a-6:31	0-132-0
26	EMPLOYEE			>1Day-7:30	871-0-0
27		FRI A 47-2		n/a-6:31	0-88-0
28		FRI A 44-2,47-1		n/a-6:33	0-320-0
29		FRI A 44-1		n/a-6:31	0-181-0
30		FRI A 43		n/a-6:45	0-71-0
31			FRI A 42	n/a-6:31	0-0-203

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STEP 3: Upon completion of sorting the Sort Lot the Operator(s) will select the Sort Lot from the Sorting column.

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SLSM Rail Manager Module					
Primary Final Utilities Database Reports Help					
Rail	Open	Queued	Sorting	Open-Idle	# O-Q-S
1	THU B 63-2		THU A 48-2	6:25-6:25	0-0-77
2	OUT OF SEQUENCE			6:24-6:17	1-0-0
3		FRI A 48-1		n/a-6:30	0-124-0
4	THU B 57-2 61-1			6:29-5:21	59-0-0
5	THU B 56 57-1			6:29-5:21	94-0-0
6	THU B 52-2 53			6:28-5:21	172-0-0
7	THU B 50 52-1			6:28-5:21	134-0-0
8	FRI B 67			6:28-5:22	41-0-0
9	FRI B 65			6:28-5:21	248-0-0
10	FRI B 64			6:28-5:22	24-0-0
11	FRI B 61,62,63			6:28-5:21	100-0-0
12	FRI B 60			6:28-5:22	71-0-0
13	FRI B 60			6:28-5:22	70-0-0
14	THU B 63-3 64			6:24-6:24	0-0-0
15	THU B 63-1		THU A 48-2	6:24-5:22	239-0-736
16		FRI A 40 41-1		n/a-6:30	0-334-0
17		FRI A 40 41-1		n/a-6:31	0-333-0
18		FRI A 48-2		n/a-6:30	0-61-0
19		FRI A 48-1		n/a-6:56	0-468-0
20			MON A 40-1	n/a-0:05	0-0-0
21				n/a-11:12	0-0-0
22				n/a-10:55	0-0-0
23				n/a-11:12	0-0-0
24				n/a-7:52	0-0-0
25		FRI A 47-3		n/a-6:31	0-132-0
26	EMPLOYEE			>1Day-7:30	871-0-0
27		FRI A 47-2		n/a-6:31	0-88-0
28		FRI A 44-2,47-1		n/a-6:33	0-320-0
29		FRI A 44-1		n/a-6:31	0-181-0
30		FRI A 43		n/a-6:45	0-71-0
31			FRI A 42	n/a-6:31	0-0-203

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STEP 3: Click "Sort" in the "Rail Manager Status Change."

Rail Manager Status Change

Change the Status of MON A 40-1 to:

Closed

Sort

Cancel

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SLSM Rail Manager Module					
Primary Final Utilities Database Reports Help					
Rail	Open	Queued	Sorting	Open/Idle	# O-Q-S
1	THU B 63-2		THU A 48-2	6:25-6:25	0-0-77
2	OUT OF SEQUENCE			6:24-6:18	1-0-0
3		FRI A 48-1		n/a-6:31	0-124-0
4	THU B 57-2 61-1			6:29-5:22	59-0-0
5	THU B 56 57-1			6:29-5:22	94-0-0
6	THU B 52-2 53			6:29-5:22	172-0-0
7	THU B 50 52-1			6:29-5:22	134-0-0
8	FRI B 67			6:29-5:22	41-0-0
9	FRI B 65			6:29-5:22	248-0-0
10	FRI B 64			6:28-5:22	24-0-0
11	FRI B 61,62,63			6:28-5:22	100-0-0
12	FRI B 60			6:28-5:22	71-0-0
13	FRI B 60			6:28-5:22	70-0-0
14	THU B 63-3 64			6:25-6:25	0-0-0
15	THU B 63-1		THU A 48-2	6:24-5:22	239-0-736
16		FRI A 40 41-1		n/a-6:31	0-334-0
17		FRI A 40 41-1		n/a-6:31	0-333-0
18		FRI A 48-2		n/a-6:31	0-61-0
19		FRI A 48-1		n/a-6:57	0-468-0
20			MON A 40-1	n/a-0:05	0-0-0
21				n/a-11:13	0-0-0
22				n/a-10:56	0-0-0
23				n/a-11:13	0-0-0
24				n/a-7:52	0-0-0
25		FRI A 47-3		n/a-6:31	0-132-0
26	EMPLOYEE			>1Day-7:30	871-0-0
27		FRI A 47-2		n/a-6:32	0-88-0
28		FRI A 44-2,47-1		n/a-6:33	0-320-0
29		FRI A 44-1		n/a-6:31	0-181-0
30		FRI A 43		n/a-6:45	0-71-0
31			FRI A 42	n/a-6:31	0-0-203

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DSM

3rd Sort Scanning Process

When the operator(s) at the 3rd sort station are ready to process a Sort Lot, the status is changed from "Sorting" orange to "Sorting" red. Following is how operators change a Sort Lot to the 3rd sort sorting status.

INSERT SCREEN SHOT

Closing a Sort Lot

After all garments for a Sort Lot have been processed the 3rd sort operator(s) will Close the Sort Lot.

STEP 1: To Close the completed Sort Lot, on the SLSM Rail Manager the Operator clicks on the name of the Sort Lot to be closed.

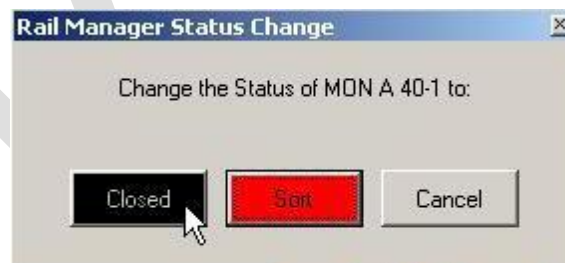
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SLSM Rail Manager Module					
Primary Final Utilities Database Reports Help					
Rail	Open	Queued	Sorting	Open-Idle	# O-Q-S
1	THU B 63-2		THU A 48-2	6:25-6:25	0-0-77
2	OUT OF SEQUENCE			6:24-6:18	1-0-0
3		FRI A 48-1		n/a-6:31	0-124-0
4	THU B 57-2 61-1			6:29-5:22	59-0-0
5	THU B 56 57-1			6:29-5:22	94-0-0
6	THU B 52-2 53			6:29-5:22	172-0-0
7	THU B 50 52-1			6:29-5:22	134-0-0
8	FRI B 67			6:29-5:22	41-0-0
9	FRI B 65			6:29-5:22	248-0-0
10	FRI B 64			6:28-5:22	24-0-0
11	FRI B 61,62,63			6:28-5:22	100-0-0
12	FRI B 60			6:28-5:22	71-0-0
13	FRI B 60			6:28-5:22	70-0-0
14	THU B 63-3 64			6:25-6:25	0-0-0
15	THU B 63-1		THU A 48-2	6:24-5:22	239-0-736
16		FRI A 40 41-1		n/a-6:31	0-334-0
17		FRI A 40 41-1		n/a-6:31	0-333-0
18		FRI A 48-2		n/a-6:31	0-61-0
19		FRI A 48-1		n/a-6:57	0-468-0
20			MON A 40-1	n/a-0:05	0-0-0
21				n/a-11:13	0-0-0
22				n/a-10:56	0-0-0
23				n/a-11:13	0-0-0
24				n/a-7:52	0-0-0
25		FRI A 47-3		n/a-6:31	0-132-0
26	EMPLOYEE			>1Day-7:30	871-0-0
27		FRI A 47-2		n/a-6:32	0-88-0
28		FRI A 44-2,47-1		n/a-6:33	0-320-0
29		FRI A 44-1		n/a-6:31	0-181-0
30		FRI A 43		n/a-6:45	0-71-0
31			FRI A 42	n/a-6:31	0-0-203

DSM

STEP: 2 The "Rail Manager Status Change" will be displayed see below, click on Closed.



As mentioned above, the warning window appears, and closing the Sort Lot is confirmed. **NOTE: Do not close the Sort Lot if it is not 100% complete.**

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The Sort Lot is now complete. After processing at the 3rd sort station, garments will be in wearer, account, route, and day order. They can now be bundled, tied, or bagged, as necessary, for delivery to route storage.

ABS Flags

There are a number of flags that are passed from ABS to the Directed Sort. Here is how there are processed:

ABS FLAGS	
FLAG	ACTION
07	Add Emblem
10	Repair Needed
14	Transfer/New Labels Needed
28	Contract Expired/Renewal Needed
29	Seasonal/Take out of Circulation
30	Size Change/Take out of Circulation
32	Style Change/Take out of Circulation
37	Replacement
46	Substitute Garment/Take out of Circulation
51	Quit Customer Take Out of Circulation
52	Quit/Take Out of Circulation
54	Manual Inventory Decrease
66	Circulating to Max Correction

SDSM Codes

On the 1st Break screen shot below in the yellow area the SDSM code is displayed, see **RED** arrow. This works the same for all 3 sorts. Generally the hook the garment is to be hung on is displayed. There are a number of SDSM codes that require specific actions, see table below.

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SDSM CODES	
CODE	ACTION
25	Send to Bundling
26	Set aside until Sort Lot is open
28	Not in Database
29	Send to Stockroom
30	Send to Mending
50	Fold Garment
61	During start up Indicates the Break
62	During start up Indicates the Break
63	During start up Indicates the Break
64	Out of sequence
65	Used for processing overflow garments in 2 nd sort
66	Used for processing overflow garments in 3 rd sort
67	Over max wearers

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Audio

There is a audio output will instruct the operator to perform a task. Most of the output will be the number of the hook on the conveyor to hand the garment. For example "Seven" which means the garment just scanned will be placed on hook 7 of the conveyor. In some cases there could be 2 sets of conveyors. So the audio output could be "Green Ten." The operator will place the garment on hook 10 of the Green Conveyor. There other audio output that will require the garment to be processed differently. Below is a list of these audio outputs the action to be followed. Also the SDSM Code is displayed if there is an issue with the audio.

AUDIO STANDARD		
AUDIO OUTPUT	ACTION	SDSM CODE
"Emblem"	ADD EMBLEM	
"Mend"	REPAIR NEEDED	30
"Label"	TRANSFER/ NEW LABELS NEEDED	
"Return"	SEASONAL/ TAKE OUT OF CIRCULATION	29
"Return"	SIZE CHANGE/ TAKE OUT OF CIRCULATION	29
"Return"	STYLE CHANGE/ TAKE OUT OF CIRCULATION	29
"Return"	REPLACEMENT	29
"Return"	SUBSTITUTE GARMENT/ TAKE OUT OF CIRCULATION	29
"Return"	QUIT CUSTOMER/ TAKE OUT OF CIRCULATION	29
"Return"	QUIT / TAKE OUT OF CIRCULATION	29
"Return"	MANUAL INVENTORY DECREASE	29
"Return"	CIRCULATING TO MAX CORRECTION	29
"Pull"	Fold Garment	50
"Unknown"	Not in Database	28
"Error"	Out of Sequence	64
"Overflow"	Over Max Wearers	67

Shutdown

Exit all of the Directed Sort programs on perform a normal Windows shutdown. If an issue occurs during shutdown see the Troubleshooting section of this document.

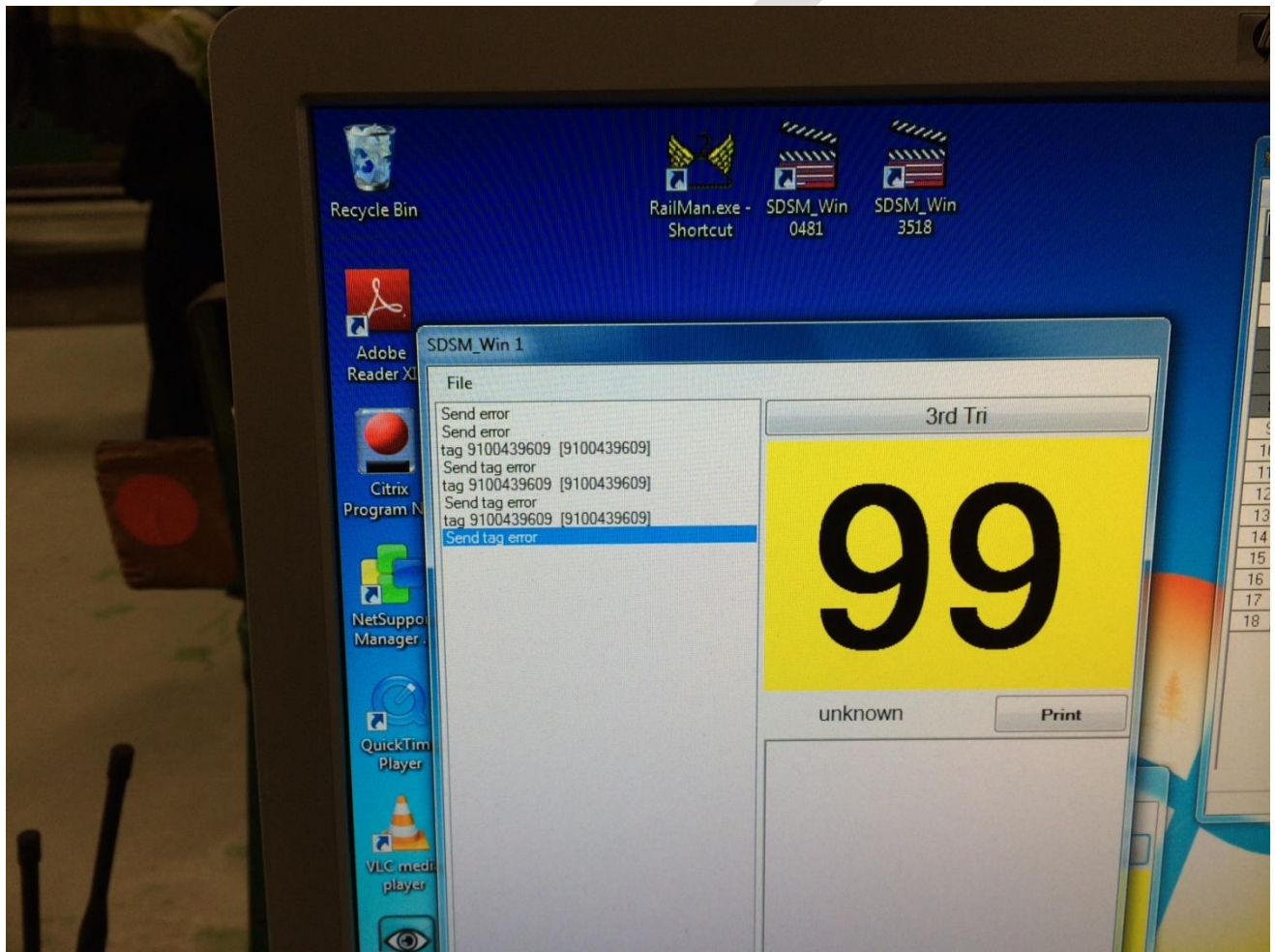
The exception will be the workstation that is the Directed Sort server. This system will need to run 24 X 7 to insure the nightly update is preformed. See the Data Transfer section of this document for an explanation of this process.

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Troubleshooting

Code 99



If a 99 appears in the SDSM it means the Scan Engine is not connected. Close the SDSM and open the Scan Engine then reopen the SDAM.

RAIL MANAGER ERROR: Run-time error '52'

This error will occur when attempting to start the Rail Manager program, see blow:

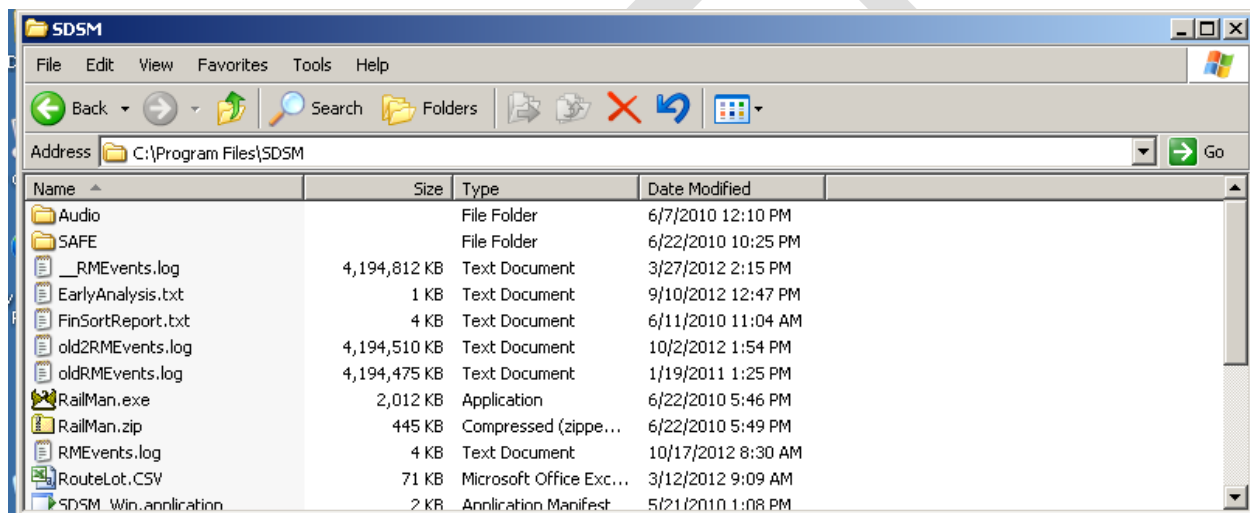
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This usually means the RMEvent.log is full and a new log file needs to be generated.
Here are the steps to follow:

- Double click on the "My Computer" icon.
- Double click on "Default (C:)"
- Double click on "Program Files"
- Double click on "SDSM"
- It will look like below.



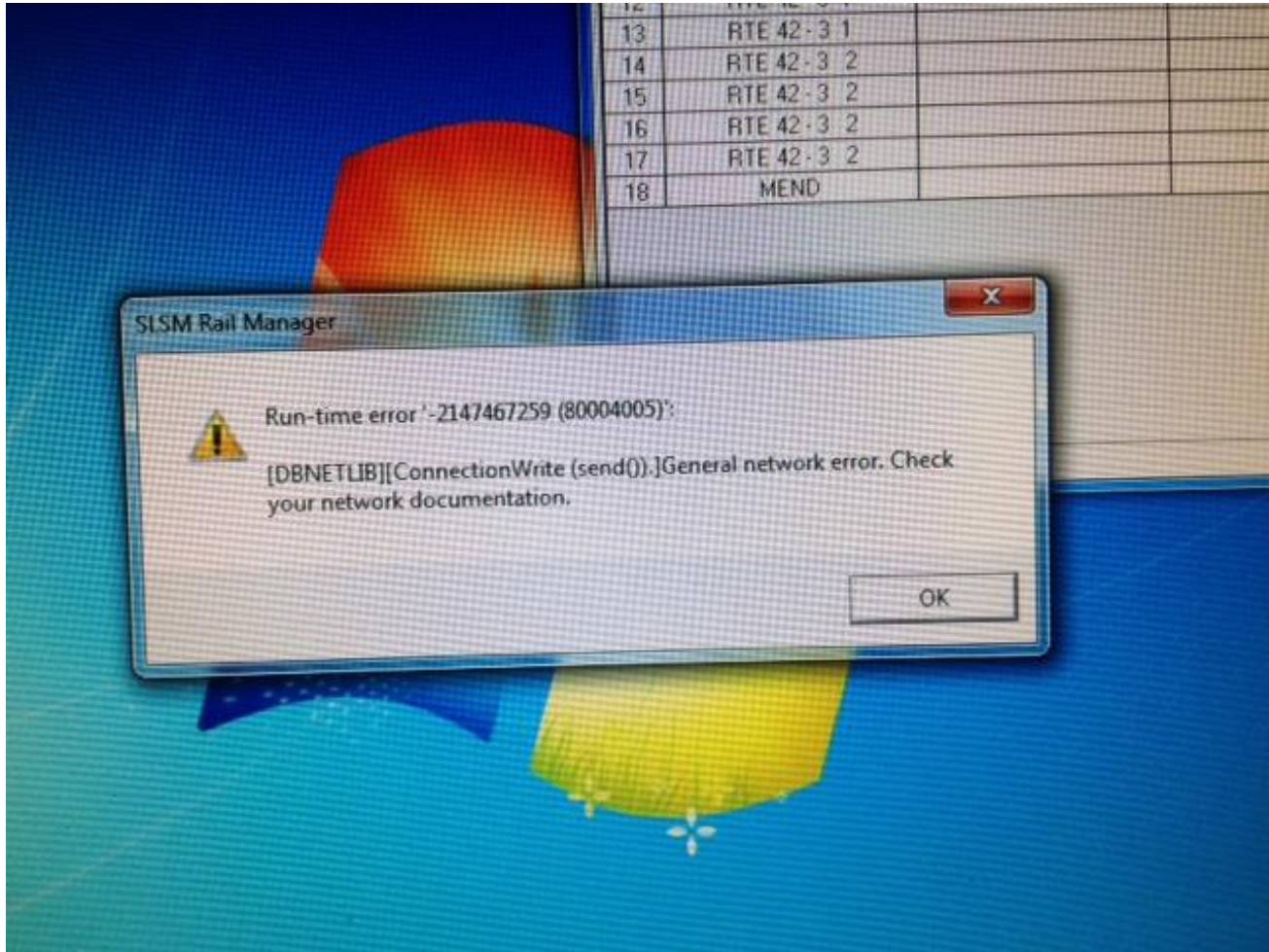
- Rename the RMEvent.log to oldRMEvent.log.
 - If oldRMEvent.log already exists, like the example above, rename the RMEvent.log to old2RMEvent.log.
- **NOTE:** If this occurs a 3rd time call Softrol support.
- Restart the Rail Manager program using the "Rail Manager Icon"



Run-time error'-2147467259

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This is a database connection error.

It occurs when the software has lost connection to the database. This can happen when the Scan Engine is restarted but not the clients. When the Scan Engine is restarted anything connected to is now has a bad connection and needs to be reconnected. Stop and restart the Scan Engine.