

SOFTIROL

Software & Control for Automation

DIRECTED SORTER USERS GUIDE Understanding the SOFTSORT DIRECTED SORTER

The screenshot displays the SDSM_Win software interface. On the left, a list of tags and hooks is shown, including their unique identifiers and associated hook numbers. The right side of the interface provides a detailed view of the selected tag, showing its status and various attributes.

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 [89344778625]
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**

DIRECTED SORTER USERS MANUAL

Directed Sort by Softrol

Overview

The Directed Sort is a semi automated garment sortation system. It uses a graduated hook system for sorting purposes. There are three major components:

- **Database** - interface to the facility's route accounting system (ABS), bi-directionally communicating full updates daily and periodic updates on regular intervals during the production day.
- **Operator Workstations** – one for each operator at each sort break running:
 - SoftSort Directed Sort Module
 - SoftSort Rail Manager
 - SoftSort Directed Sort Scan Engine.
- **Datamars RFID identification systems** – See Chapter 2 of this document for further explanation of this component.

The Directed Sort utilizes three breaks/sorts to sort garments into day/route/stop/wearer order from the wash lots received from production; as an alternative to installing three manual sorters, the 2nd and 3rd break can be completed on the same manual sorter if a "recycle" rail is installed for returning garments to make two passes.

Sort operators scan the tag on a garment, and the Directed Sort quickly responds with a visual and audible signal, indicating for the operator where the garment should be placed on the manual sorter. This same process is carried out for each sort break, with the Directed Sorter performing all sorting decisions. Because of the availability of visual/audible output directly to the operators, there is minimal interface and interaction between operators and the computer hardware comprising the system.

Setup

This section goes over the setup for a new installation of the software. This installation will be done by Softrol technicians or under direct instructions of a Softrol technician. If it ever becomes necessary for this process to be preformed it will be initiated by TAC.

The setup operation of the software will have to be performed during initial startup. Also the initial setup of the Lot structure but this will be used when Lot changes occur during on-going operation.

Software

Initial setup of the system will be accomplished by Softrol and will include the installation of the Directed Sort software, which includes the SoftSort Linear Sort Module (SLSM) Rail Manager, the SoftSort Directed Sorter Module

UPDATED: January 31, 2017

DIRECTED SORTER USERS MANUAL

(SDSM) Scan Engine, the SDSM Operator Interface, SQL Server, and the site-specific ABS interface. Once the ABS interface performs a full update of garment IDs with customer and wearer information, and once data is verified to be complete, sort lots can be constructed for processing on the Directed Sorter.

Lots

To create sort lots, one must start the SLSM Rail Manager program and open the Sort Lot Manager under the Primary selection on the Main Menu (See Below).

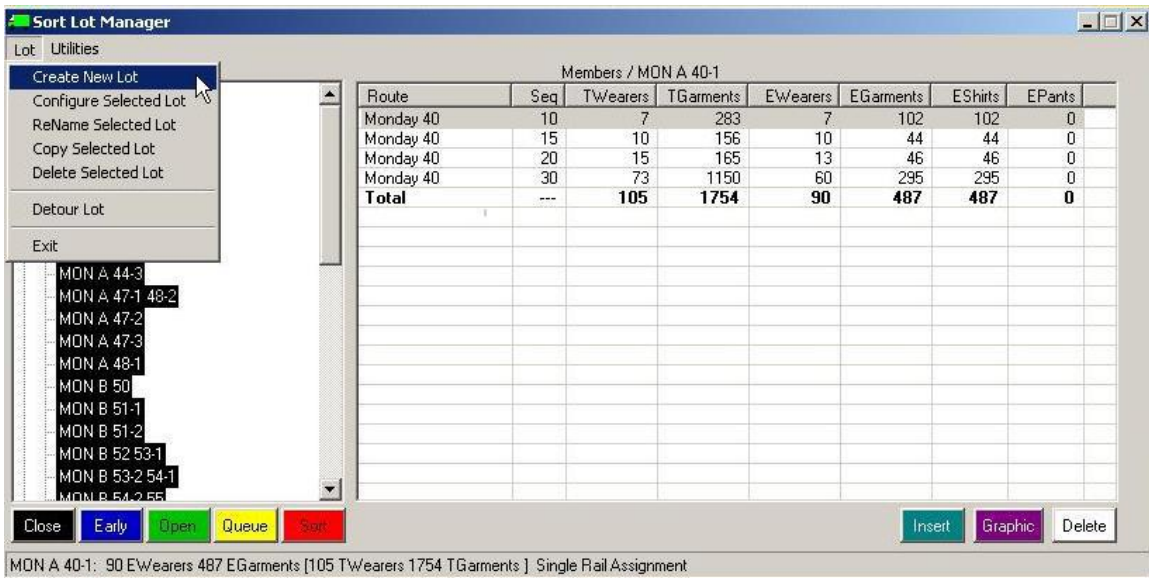
The screenshot shows the SLSM Rail Manager Module window. The menu is open, highlighting 'Sort Lot Manager'. The main table displays sort lot data with columns for status, lot ID, sorting status, open/idle times, and counts. A legend at the bottom identifies status colors: Disabled (grey), Not Empty (black), Empty (white), Unloading (green), Offloading (yellow), Flooded (orange), and Fault (pink).

		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

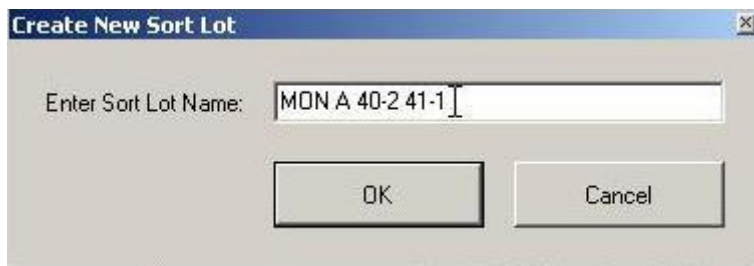
After entering the Sort Lot Manager, new lots can be created, as described in the following.

First, from the Lot Menu, select Create New Lot (See Below).

DIRECTED SORTER USERS MANUAL

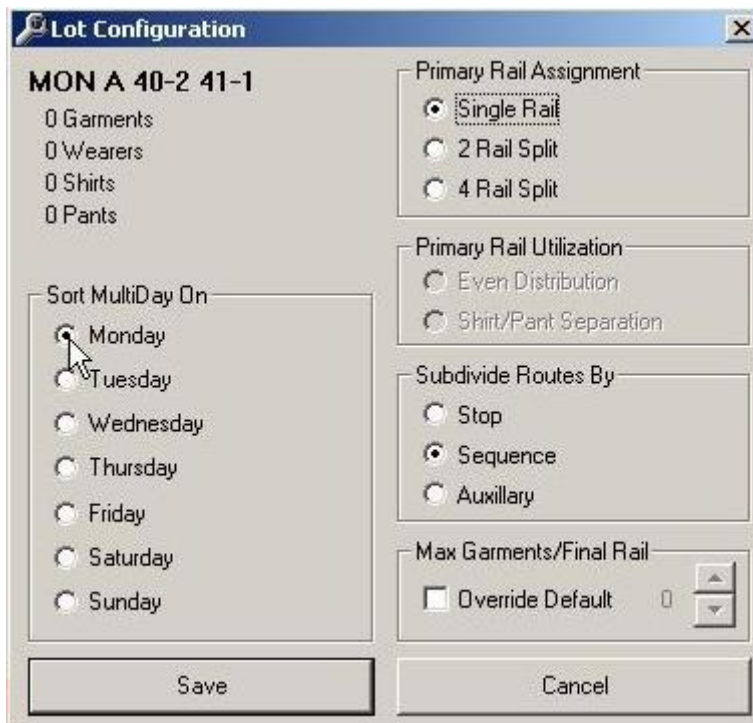


Prompts will appear to Name and configure the lot. Type the preferred name, which can be recognized by the sort operators (See Below).

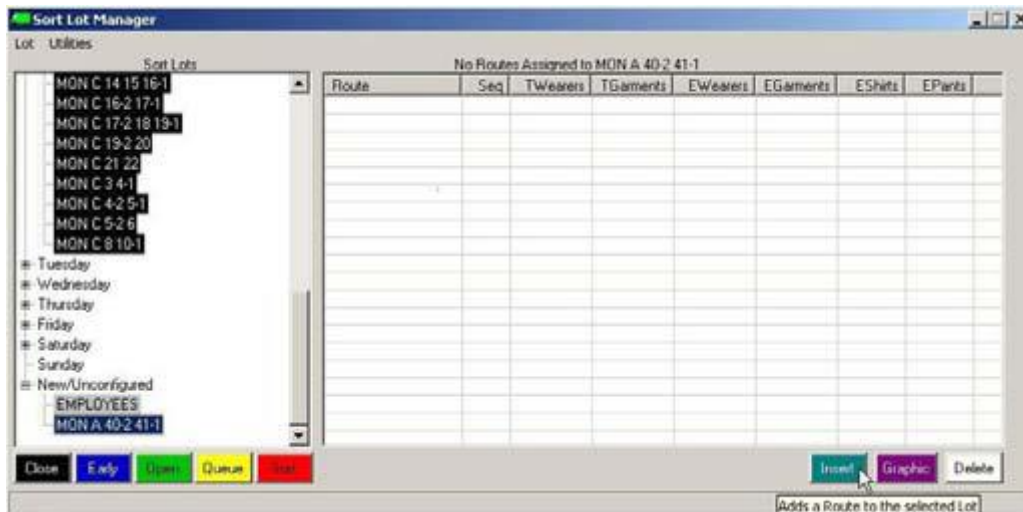


Select which day of the week for which the sort will be performed (i.e.; the "delivery" day). Also indicate if it will typically occupy a single rail, or two or four rails, and whether there will be shirt/pant separation. Indicate that routes can be subdivided by "sequence" (this may depend upon the interface ABS). Finally, indicate if there is an override number for Max Garments per each Final Rail – this is typically not necessary for the Directed Sorter (See Below).

DIRECTED SORTER USERS MANUAL



At this point, routes must be assigned to the newly created Sort Lot. Highlight the Sort Lot in Sort Lot Manager and select Insert (See Below).



Once available routes are displayed, it is possible to break them into individual sequences (e.g.; accounts, stops, etc.) by selecting the Show Seq button (See Below).

DIRECTED SORTER USERS MANUAL

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

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

Day: Monday Wash Lot: All Show 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

Groups of sequences may then be selected and inserted into the Sort Lot (See Below).

DIRECTED SORTER USERS MANUAL

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

Buttons: 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

Buttons: Hide Seq, Assigned to..., Insert, Cancel

DIRECTED SORTER USERS MANUAL

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

Buttons: Hide Seq, Assigned to..., Insert, Cancel

Thus, the Sort Lot is complete. Sequences may be deleted, or new sequences may be added, using the command buttons on the lower left of the dialog box (See Below).

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 8 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	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
Total		117	3678	100	811	811	0

Buttons: Close, Early, Open, Queue, Stop, Insert, Graphic, Delete

Please note that this example provides for adding only certain sequences to a Sort Lot – entire routes may be added by skipping the “Show Seq” step.

Operation

Once Sort Lots have been created, they can be processed at the Directed Sort Operator Workstations. The operator(s) at the first sort station will handle all Open and Queued Sort Lots. The operator(s) at the 2nd and 3rd sort stations – which may be on a single set of rails but not necessarily – will handle the Sort Lots in the Sorting mode.

DIRECTED SORTER USERS MANUAL

Operators at each station will receive feedback from the Directed Sort System, both visually and audibly, via the Directed Sort Scan Engine, see example below, which provides the number of the rail on which each item should be placed after it, is scanned. The systems that are in service within AmeriPride Services/Canadian Linen are what are called a graduated hook conveyor. Once the Directed Sort displays the rail number, the 11 in the yellow area, the operator places the garment on the corresponding number on the graduated hook conveyor.

The Softrol Directed Sort Scan Engine screen gives the operator additional information other than where to place the current garment. This workstation is doing 1st Break or 1st Sort and the operator is Isabelle. The window also provides data for the garment, so that an item may be scanned to determine its status. In the example below it shows:

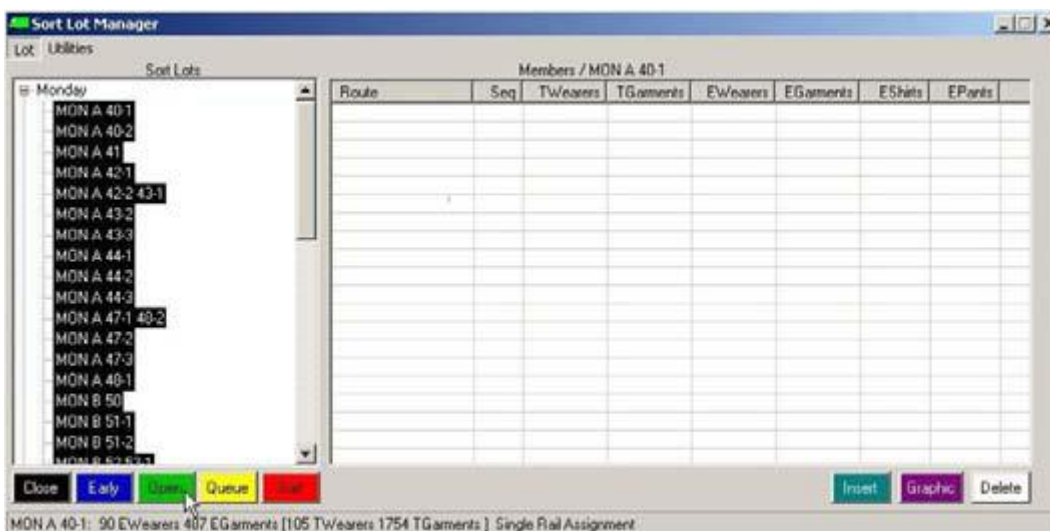
- Tag – The RFID ID for the garment in Hex
- Day – Route day (R is Thursday)
- Route – The route number
- Seq - ?
- Account – The customer account number
- Wearer – The wearer number
- Garment Type – The garment style
- Last Primary - ?
- Last Final - ?
- Last Mend - ?
- Dirty - ?
- Return - ?
- Mend - ?
- Archive - ?
- 1st - ?
- Bundle -?

The white area to the left indicates the garment IDs that have been scanned and the hook they were assigned to.

DIRECTED SORTER USERS MANUAL



To Open a Sort Lot, the Sort Lot Manager should be entered from the main screen of the Rail Manager, and the desired Sort Lot should be selected and "opened".



The requested Sort Lot will appear on an available rail in the Open column of Rail Manager.

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DIRECTED SORTER USERS MANUAL

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

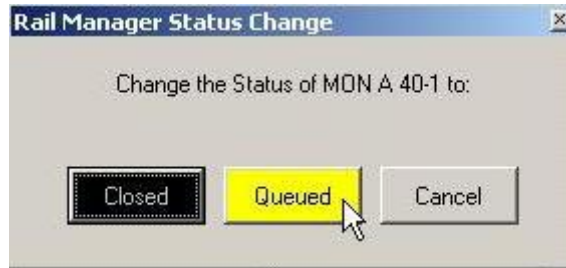
DSM

Items can now be scanned for this Sort Lot, as there is a destination rail in 1st sort storage. The Directed Sort Scan Engine will visually and audibly provide a signal to the operator, indicating the rail on which to place the items, as they are scanned. Once the operator determines that the Sort Lot is complete through the 1st sort, they can "Queue" the Sort Lot, indicating for the 2nd and 3rd sort operator(s) that they can begin handling the items.

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. 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 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.

DIRECTED SORTER USERS MANUAL

To Queue the Sort Lot, an operator clicks on the name of the Sort Lot in the Open column and chooses to Queue it. If an operator accidentally selects to "Close" the lot, a warning screen is provided to double-check that they wish to do so.



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

Disabled
 Not Empty
 Empty
 Unloading
 Offloading
 Flooded
 Fault

DSM

When the operator(s) at the 2nd sort station are ready to process goods, the status is changed from "Queued" to "Sorting". With the Directed Sort System and manual graduated hook or spider sorters, two passes are made in the Final Sort or "Sorting" operation. This may be completed on two sets of manual sorters, or on a single set of rails, if a recycle rail is available to return the garments. In any case, after the 2nd sort, garments must be offloaded and sorted completely, by rail, for the 3rd sort – all

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DIRECTED SORTER USERS MANUAL

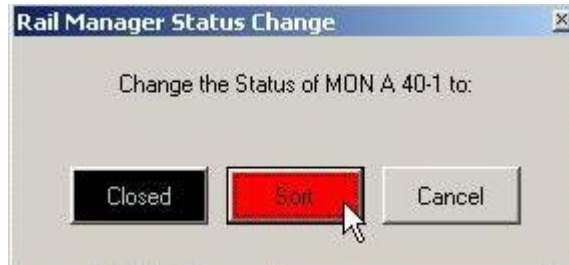
of the garments from the first rail of the 2nd sort must be completed through the 3rd sort station before any garments from the second rail of the 2nd sort can be scanned; all of the garments from the second rail of the 2nd sort must be completed through the 3rd sort station before any garments from the third rail of the 2nd sort can be scanned; all of the garments from the third rail of the 2nd sort must be completed through the 3rd sort station before any garments from the fourth rail of the 2nd sort can be scanned; etc.

Operators at each sort station must also indicate their position in the system. As mentioned above, the SDSM window indicates on which "Break" an operator is working. To change sort, the SDSM window is selected, and the numbers 1, 2, or 3 are selected on the keyboard. A "1" places an operator at the 1st sort station. A "2" places an operator at the 2nd sort station, etc.



DIRECTED SORTER USERS MANUAL

Following is how operators change a Sort Lot from the Queued status to the 2nd sort sorting status and to the 3rd sort sorting status. Note that the highlight color of the Sort Lot in the sorting column changes from orange to red when switching from 2nd to 3rd sort.



SLSM Rail Manager Module

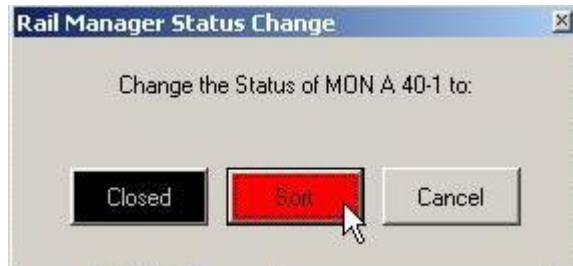
Primary Final Utilities Database Reports Help

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

Disabled Not Empty Empty Unloading Offloading Flooded Fault

DSM

DIRECTED SORTER USERS MANUAL



SLSM Rail Manager Module

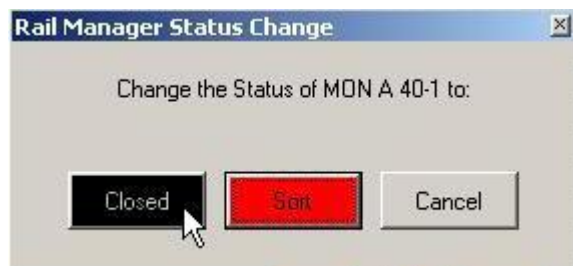
Primary Final Utilities Database Reports Help

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

Disabled Not Empty Empty Unloading Offloading Flooded Fault

DSM

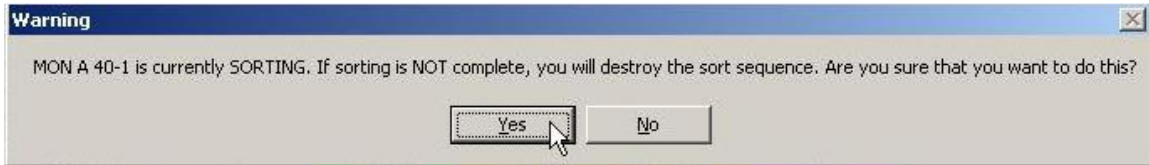
After garments have been processed through both the 2nd and 3rd sort stations, the Sort Lot may be closed.



UPDATED: January 31, 2017

DIRECTED SORTER USERS MANUAL

As mentioned above, the warning window appears, and closing the sort lot is confirmed.



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.

System Start-up Procedure

Perform the normal Windows Startup on all workstations. The appropriate Directed Sort programs will startup automatically. If an issue occurs during startup 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.

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.

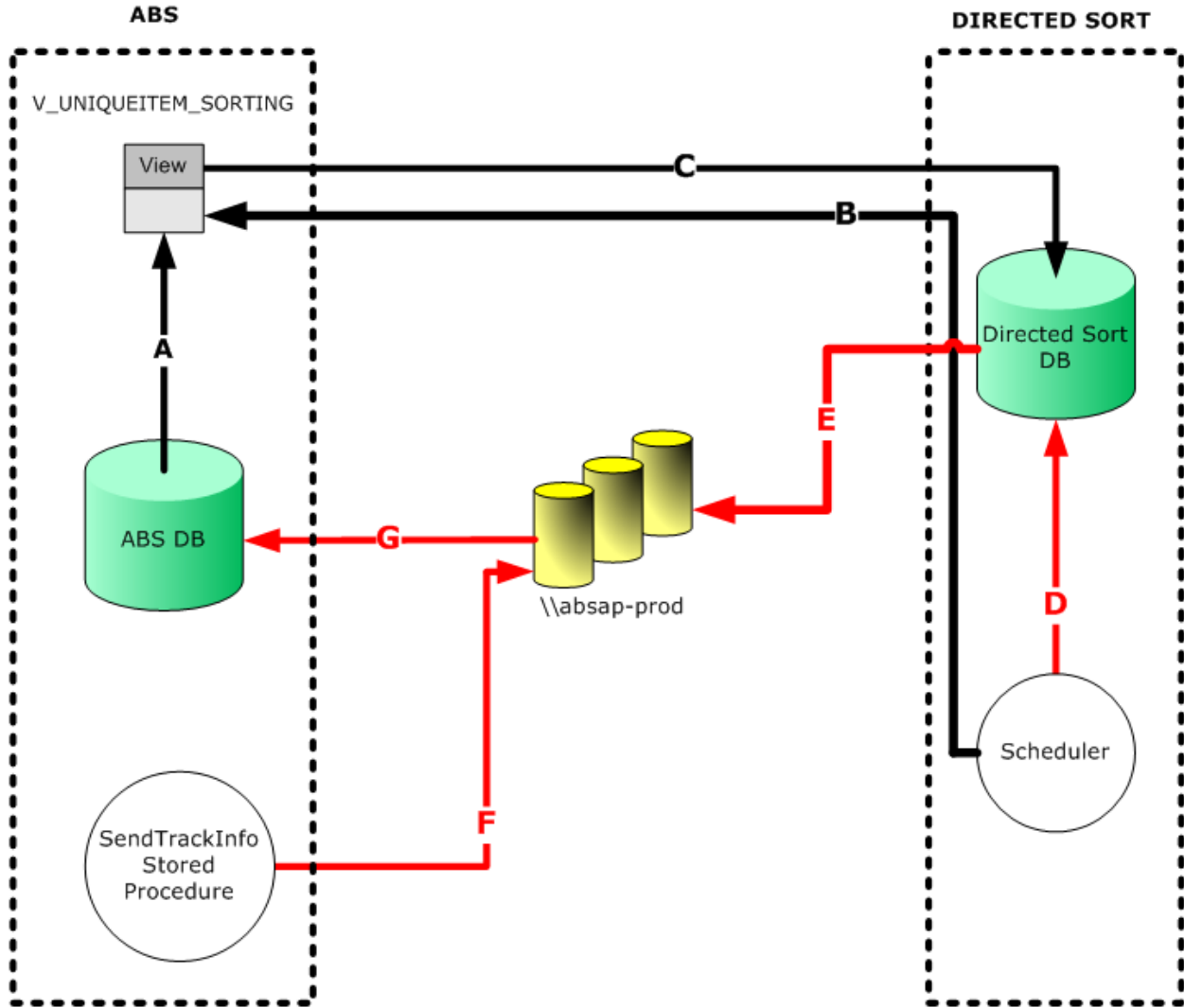
The exception will be the workstation that is the Directed Sort server. This system will need to run 24 X 7 to insure the nightly update is preformed. See the Data Transfer section of this document for an explanation of this process.

Garment Data Transfer

DIRECTED SORTER USERS MANUAL

SOFTROL DIRECTED SORT

FILE TRANSFER PROCESS



————— Transfer of garment information from ABS to Softrol Directed Sort
————— Transfer of out scan count from Softrol Directed Sort to ABS

DATA POINT	DESCRIPTION
A	The ABS system updates the V_GARMENTSREADYTOBESORTEDFULL when any of the following garment fields change: <ul style="list-style-type: none"> • CUSTOMER NUMBER • DAY NUMBER • DEPOT CODE

UPDATED: January 31, 2017

DIRECTED SORTER USERS MANUAL

	<ul style="list-style-type: none"> • DESTINATION • FLAGS • IDCODE • PLANTCODE • PRODUCTCODE • ROUTECODE • ROUTENUMBER • SORTSTRING • STACKCHANGESTRING • STOPNUMBER • WEARERNUMBER
B	The Directed Scheduler checks the V_UNIQUEITEM_SORTINFO view every hour to see if there are any changes. If there are changes a request is sent to load the changes to the Directed Sort database. The Directed Sort Scheduler also has a predetermined time each day that a request to load the entire database from the view, for the specific Branch, is sent to ABS. This is scheduled to occur during non production hours.
C	The Directed Sort Scheduler's request checks the V_UNIQUEITEM_SORTINFO view and finds all garment that have been updated, in the case of an incremental update, or all records for the specific Branch, in the case of a complete database update, and sends them to the Directed Sort database.
D	The Directed Sort Scheduler sends a request to the Cheetah database every 15 minutes to send all out scans to the ABS database.
E	Per Data Point D Timing the Directed Sort sends the out scan information to the network share, interface\files. The file is named sendtrackinfo_DDDDDDDD_BBB_XXX_YYYY.txt. The file naming convention is: <ul style="list-style-type: none"> • DDDDDDDD = Date (year, month, date format) • BBB = Branch Code • XXX = Random Generated Number • YYYY = Random Generated Number The file format is: <ul style="list-style-type: none"> • PLANTCODE • IDCODE • Scan Date • Scan Time • Scanner ID • Scan Status
F	The ABS "SendTrackInfo" stored procedure periodically runs to update any unprocessed scans in the queue.
G	If there are any unprocessed scans in the share ABS "SendTrackInfo" Stored Procedure request pushes these updates to the SCAN table in the ABS customer database. This process registers the IDCODE, and updates the following fields: <ul style="list-style-type: none"> • SCANSTATION • SCANTIMESTAMP • TRANSACTIONTYPE_ID

FIELD	DESCRIPTION	SIZE - TYPE
CUSTOMERNUMBER	Customer number in Oracle.	12 Characters - Numeric
DAYNUMBER	Day of the week, 1=Monday, 2=Tuesday, etc.	1 Character - Numeric
DEPOTCODE		12 Characters - Alpha

UPDATED: January 31, 2017

DIRECTED SORTER USERS MANUAL

DESTINATION	Destination Control, for example: hanging delivery or folded.	6 Characters - Alpha
FLAGS	Option flags.	10 Characters - Alpha
IDCODE	Garment Chip ID (RFID).	24 Characters - Alpha/Numeric
PLANTCODE		6 Characters - Alpha/Numeric
PRODUCTCODE		12 Characters - Alpha
ROUTECODE		
ROUTENUMBER	Unique route number during the day	6 Characters - Numeric
Scan Date	Date the garment was scanned out of the Metricon.	8 Characters - Date
Scanner ID	Metricon Scanner ID that scanned out the garment.	3 Characters - Alpha/Numeric
Scan Status	Indicates if the scan was OK or there was an issue. "ID code 00D007C7B918 was scanned less than 24 before," is an example.	
Scan Time	Time garment was scanned out of the Metricon.	6 Characters - Numeric
SCANSTATION		
SCANTIMESTAMP		
SORTSTRING	Sort string used by Metricon to sort garment.	80 Characters - Alpha
STACKCHANGESTRING	Part of sort string, when this string changes then start a new stack on folder (for folded delivery) or new tie for tie-out station (for hanging delivery).	80 Characters - Alpha
STOPNUMBER		6 Characters - Numeric
TRANSACTIONTYPE_ID		

Troubleshooting

1. Nightly Update is failing or not processing.

This usually occurs when the AD the password has been changed for the user that is logs into the main workstation this would be:

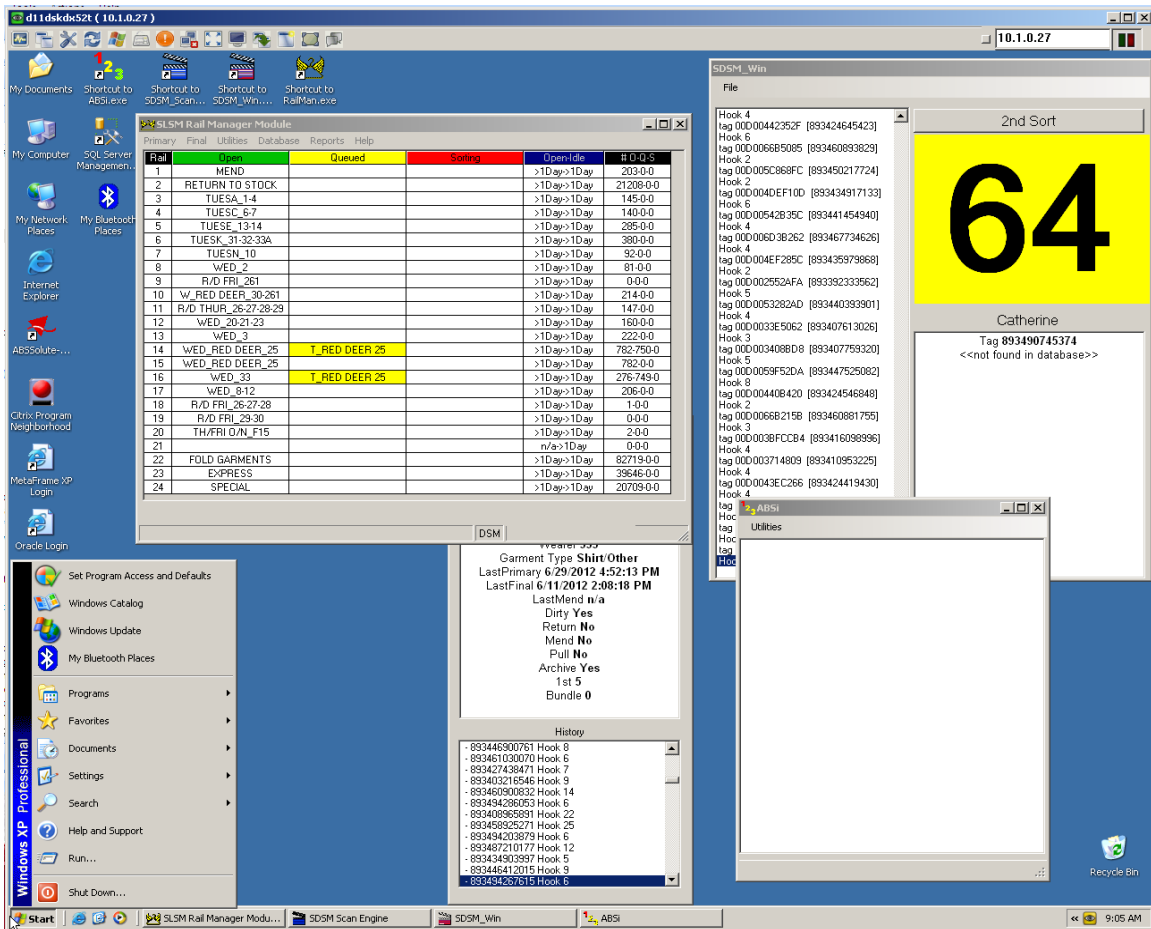
- **Calgary** – 2nd Sort Workstation computer name D11DSKDX52T
- **Toronto** – 1st Sort Workstation computer name D16DSKCW52T

You will also need to change the password in the scheduler.

Follow the steps below:

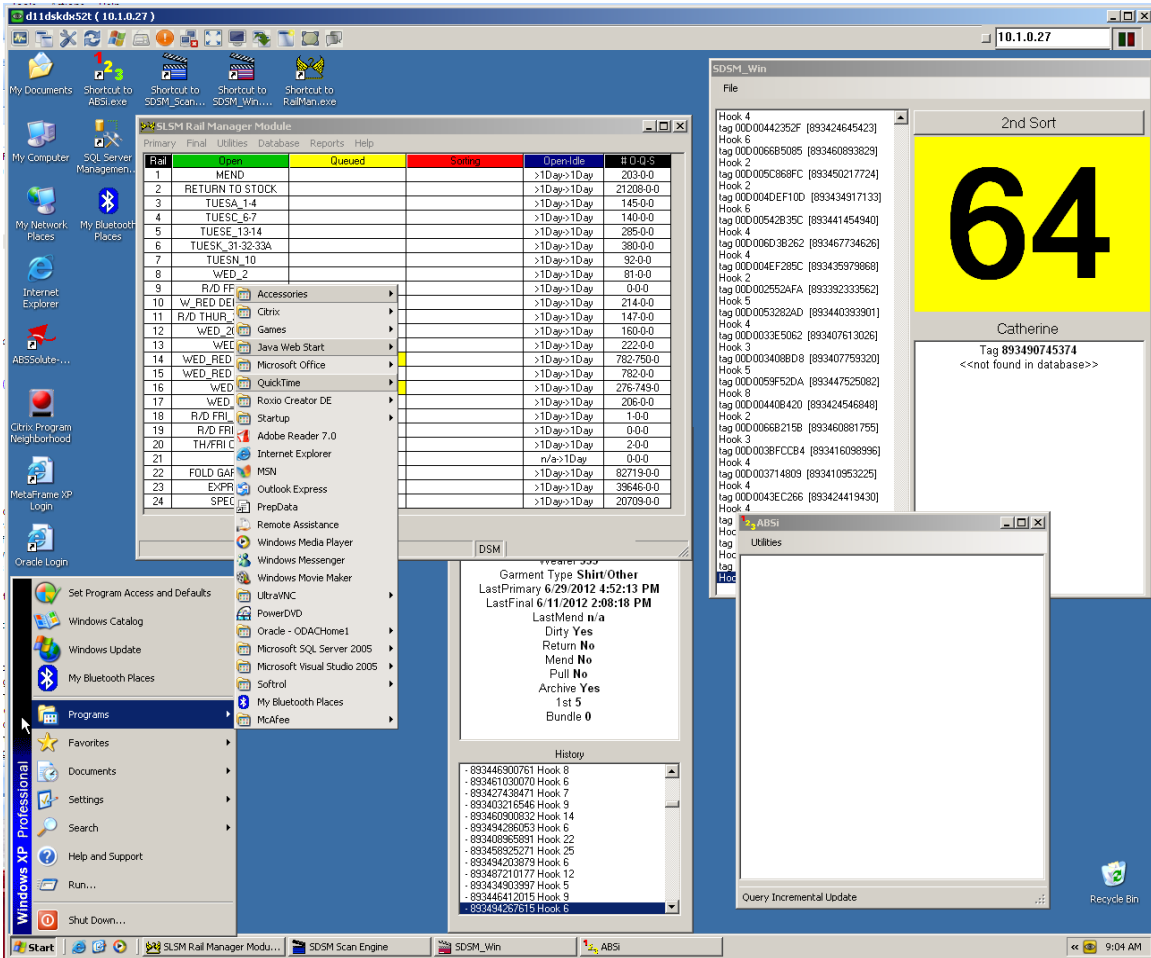
First left click on the Start Button:

DIRECTED SORTER USERS MANUAL



Go to Programs and then Accessories:

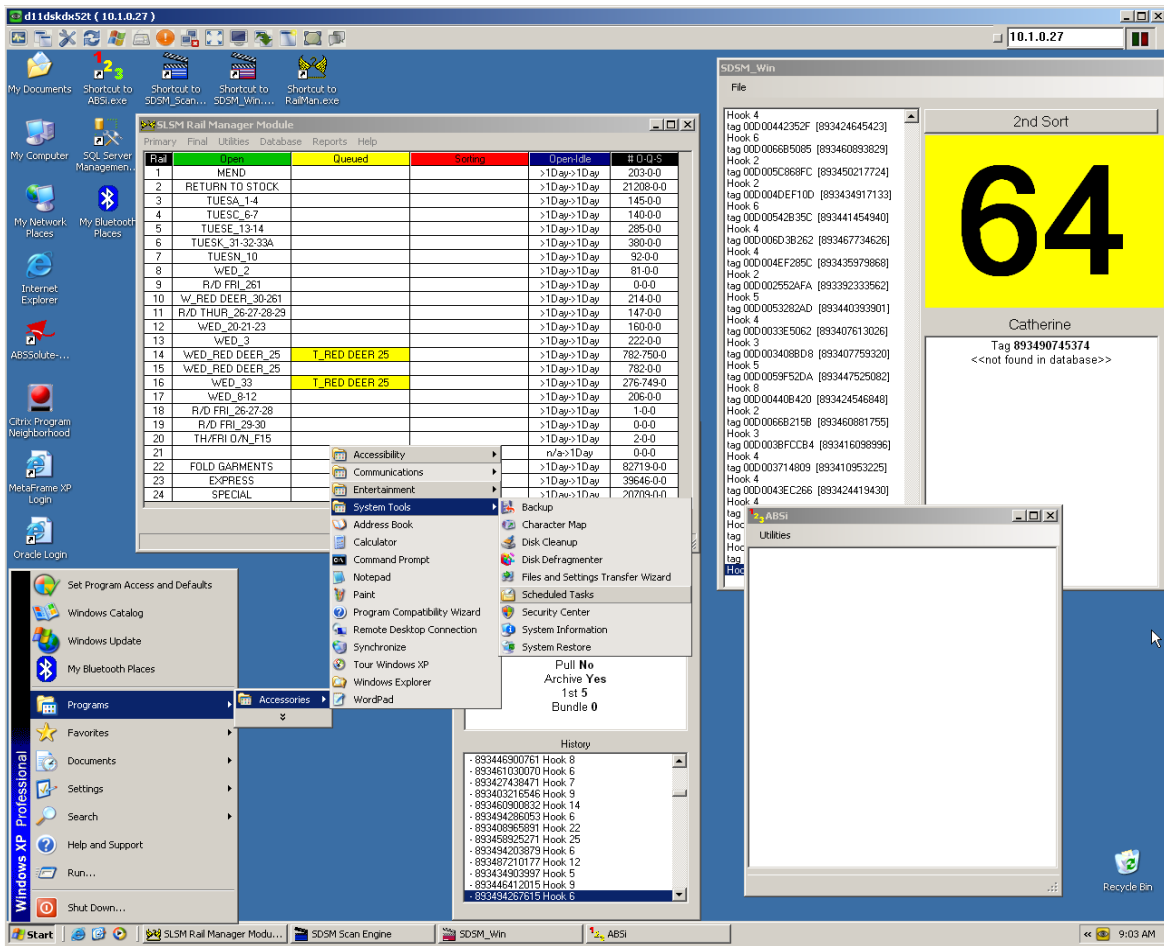
DIRECTED SORTER USERS MANUAL



Go to System Tools then left click on Scheduled Tasks:

UPDATED: January 31, 2017

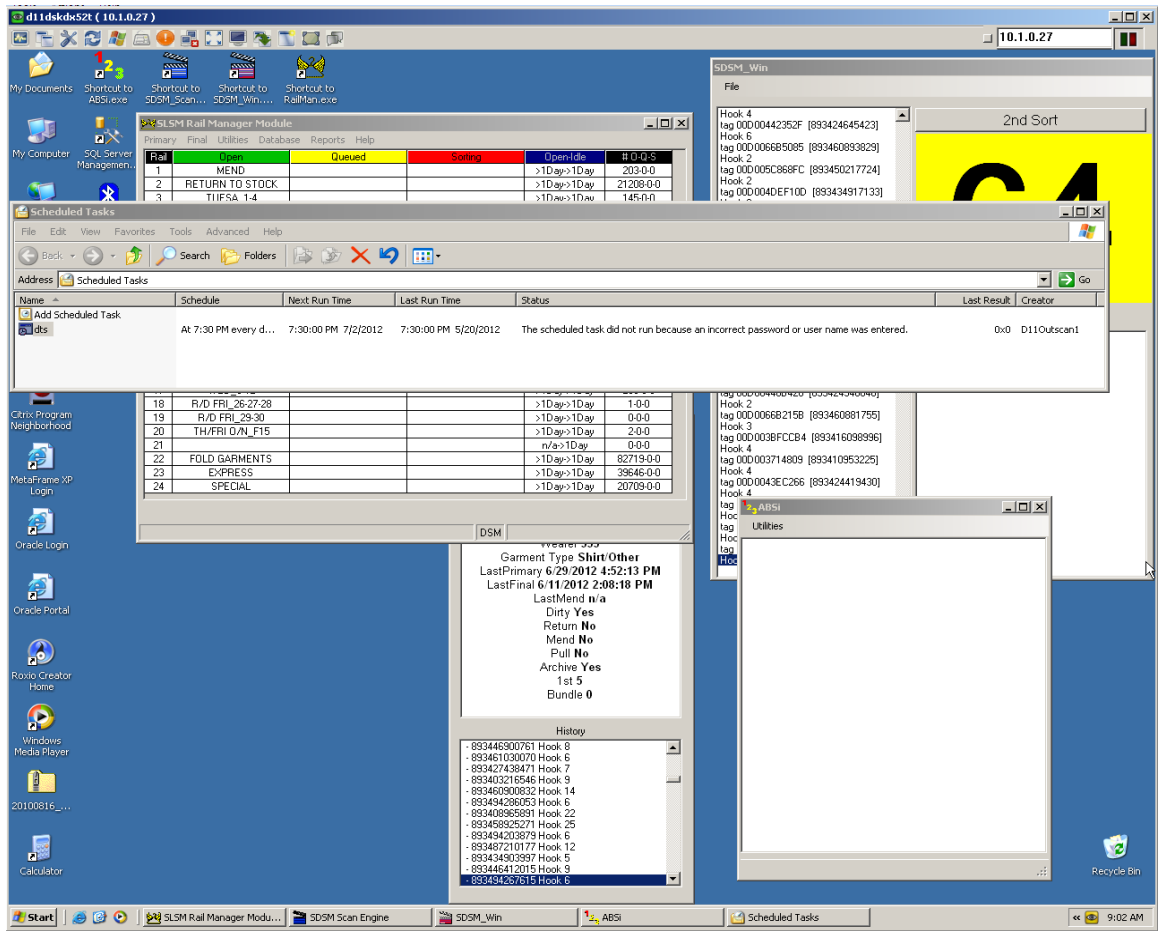
DIRECTED SORTER USERS MANUAL



When you click on Scheduled Tasks the following will appear:

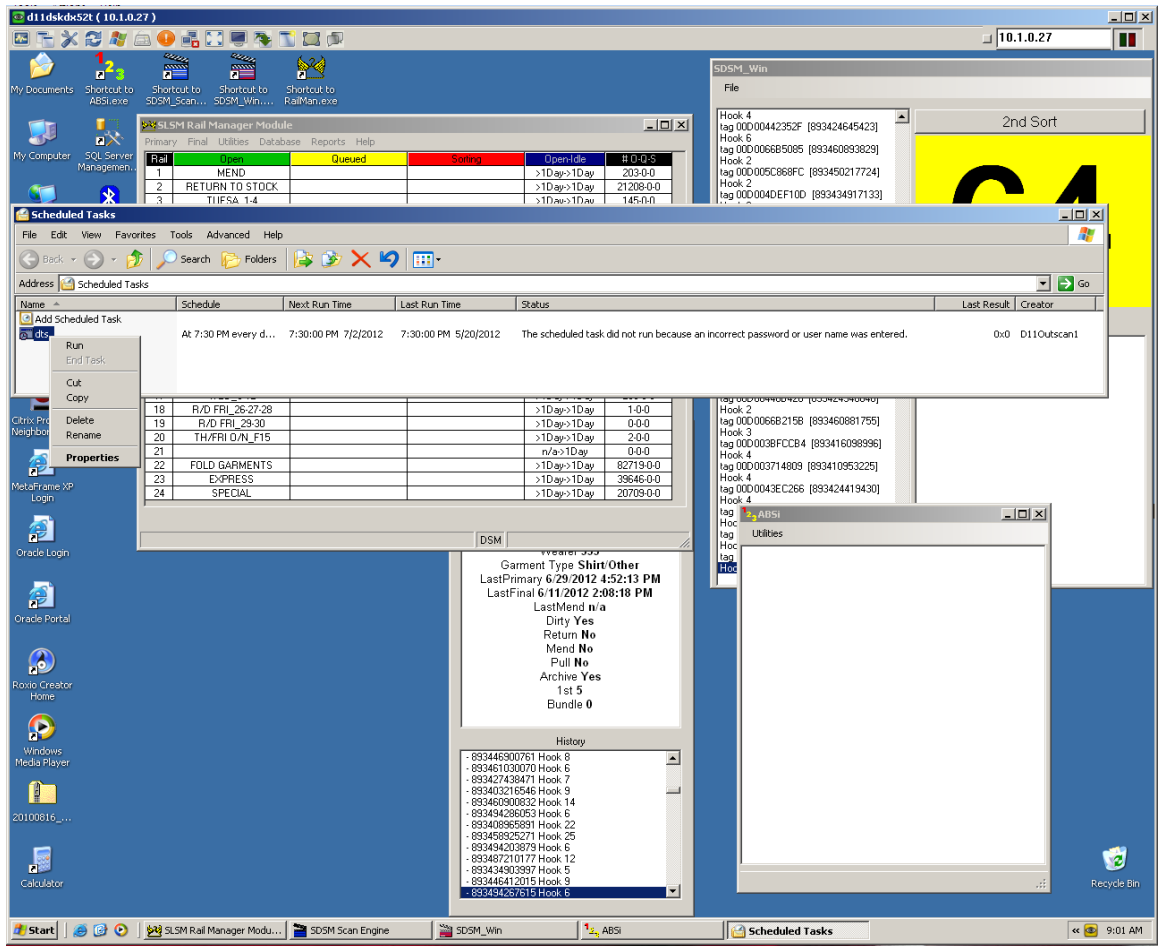
UPDATED: January 31, 2017

DIRECTED SORTER USERS MANUAL



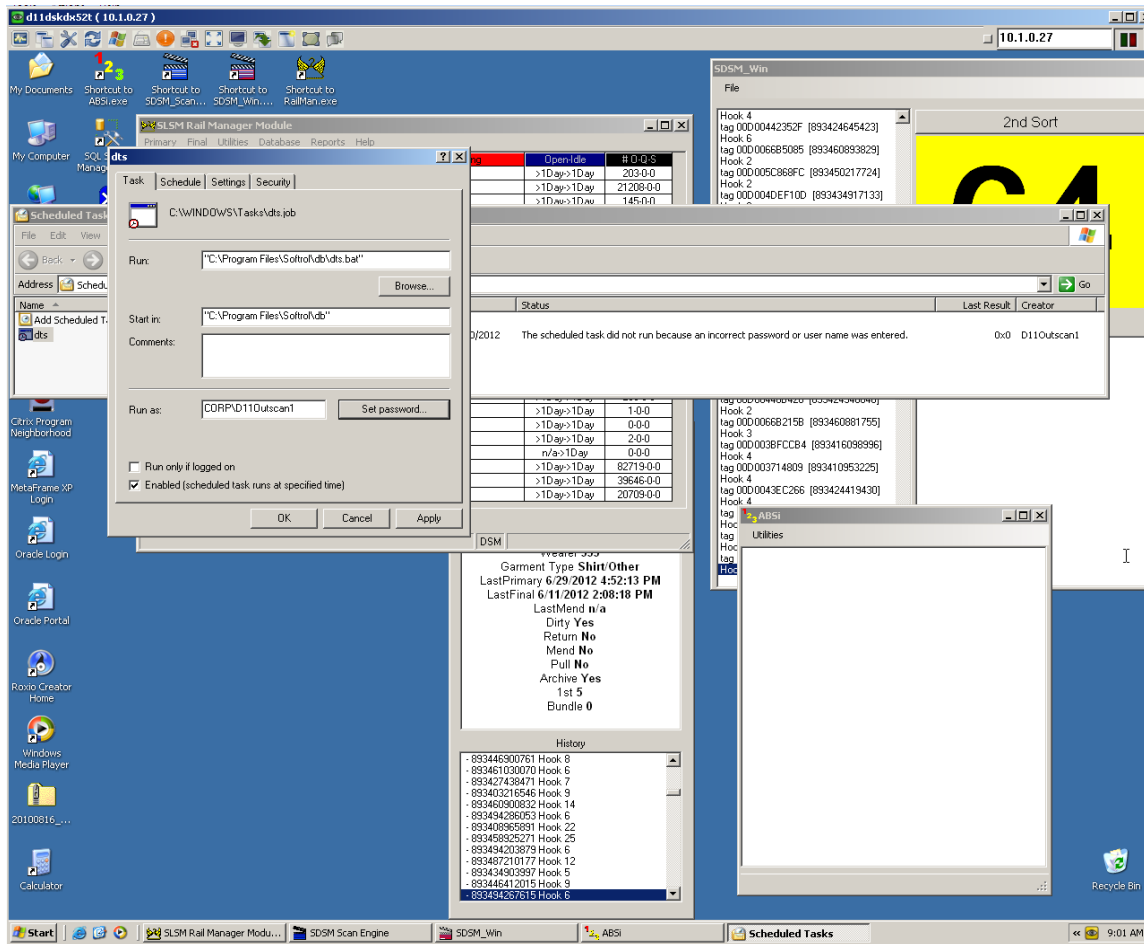
Find the line that has DTS on the far left and right click on the DTS:

DIRECTED SORTER USERS MANUAL



Next left click on Properties:

DIRECTED SORTER USERS MANUAL

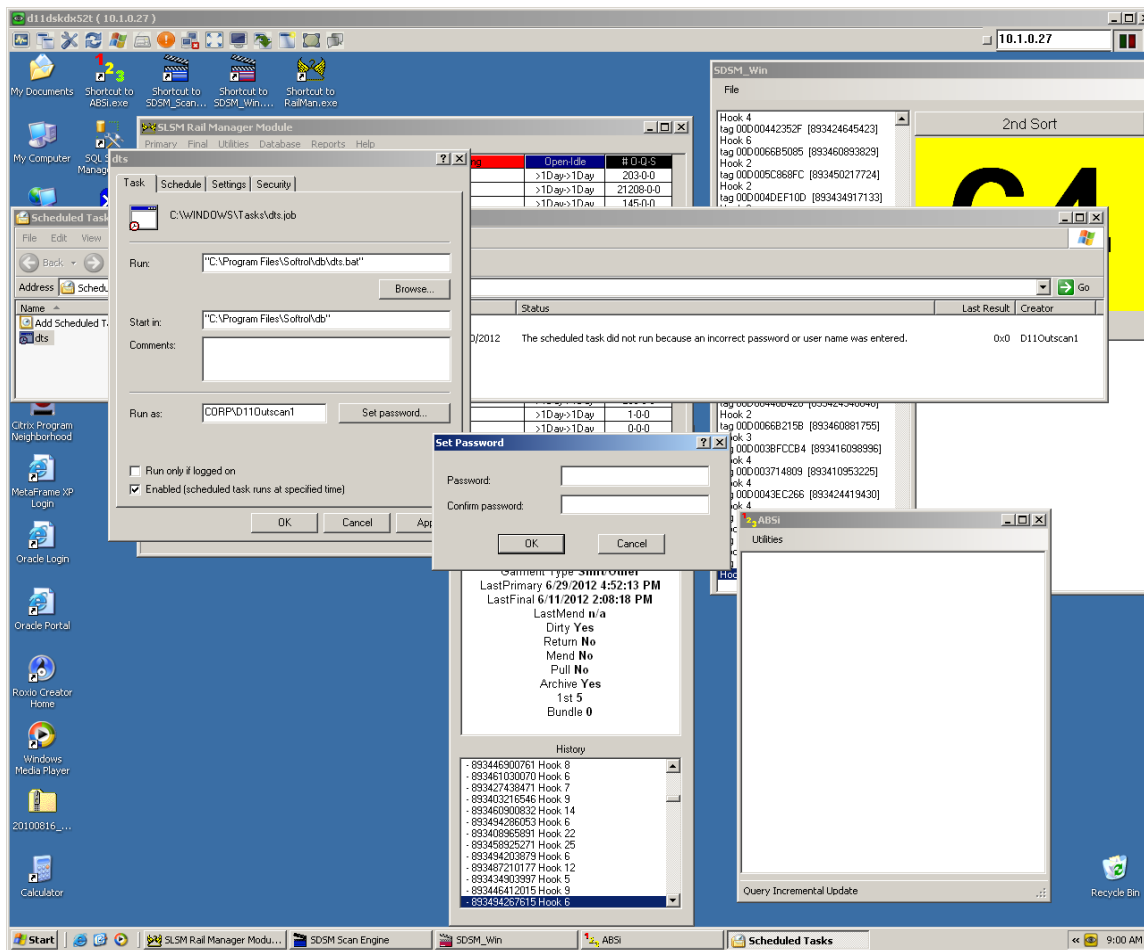


Verify that in the Run as box it has Corp\the computer name of the system. The computer name will be:

- **Calgary** -D11DSKDX52T
- **Toronto** -D16DSKCW52T

If this is not correct change to read correct for the Branch. If it is correct click on the Set Password button:

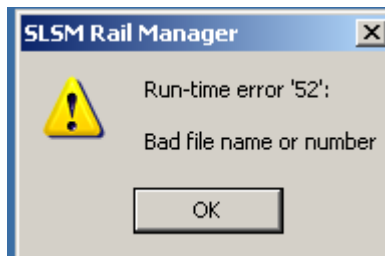
DIRECTED SORTER USERS MANUAL



Enter in the correct password for the user that logs into the system. When complete, click OK and then monitor to insure the nightly update ran correctly.

2. RAIL MANAGER ERROR: Run-time error '52'

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



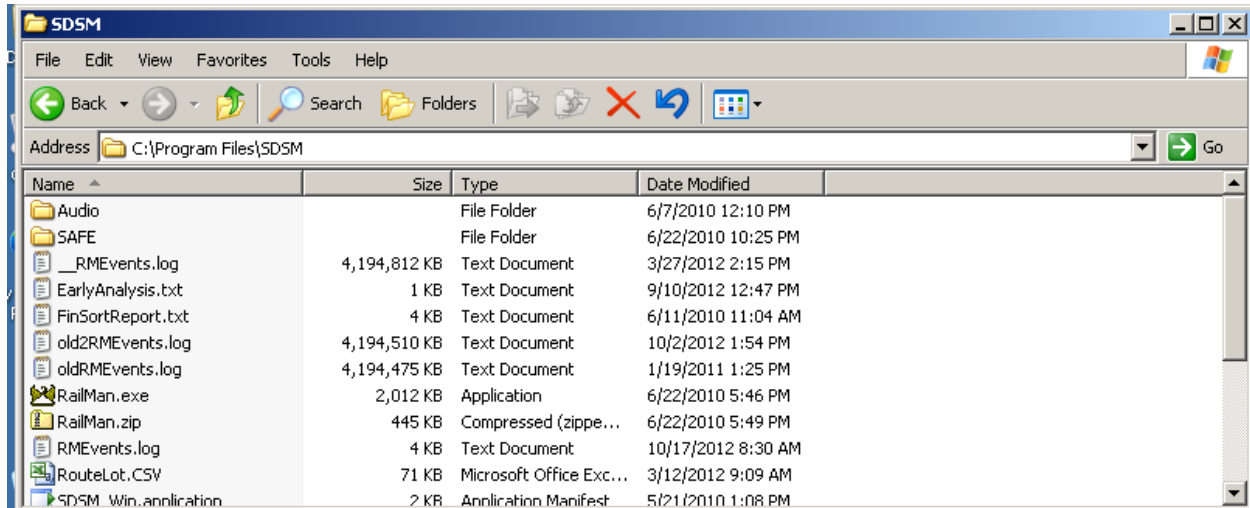
This usually means the RMEvent.log is full and a new log file needs to be generated. Here are the steps to follow:

- Double click on the "My Computer" icon.
- Double click on "Default (C:)"
- Double click on "Program Files"
- Double click on "SDSM"

UPDATED: January 31, 2017

DIRECTED SORTER USERS MANUAL

- It will look like below.



- Rename the RMEEvent.log to oldRMEEvent.log.
 - If oldRMEEvent.log already exists, like the example above, rename the RMEEvent.log to old2RMEEvent.log.
- **NOTE:** If this occurs a 3rd time call Softrol support.
- Restart the Rail Manager program using the "Rail Manager Icon"

