

TRACKING OF ITEMS SENT WITH PNEUMATIC TUBE CARRIERS

SCAN APP
(SOFTWARE RT-WIN 4)

Hörtig Rohrpost GmbH



Transparency through closed-loop medication and tracking of samples

Increasingly stringent regulations for the management of medicines and other materials in hospitals require greater **monitoring of any process involved in their distribution**. An important step in the distribution process is the in-hospital transport of medicines from the central pharmacy to the wards. This is often implemented using a pneumatic tube system. This means that the **material movements with the pneumatic tube system should also be tracked**. The collected information should then be **integrated with the information management system used by the customer**. With the Scan App of our RT-Win 4 pneumatic tube software, we provide you with the necessary tool to meet these requirements.

Scan App: Tracking of materials transported in the pneumatic tube carrier

The Scan App enables employees to **"check in" materials to be sent into the pneumatic tube system database using barcode scanners**. At the destination of the transport they are then "checked out" again as soon as the employee removes the respective carrier from the station.

- Closed-loop tracking of materials such as medication and samples
- Digital real-time control of all steps of the transport process
- Cost reduction through fewer "lost" materials
- Integration of transport information with information management systems

Scanning the barcodes on the materials inserted and on the used carrier links the two together in the database. In addition, further information on the materials and the transport process is stored. This can then be automatically forwarded to the information management system used by the customer via a data interface.

RT-Win4 - Scan In App V 4.10.0.159 Rel12/2/17/417

Location: Int. Care Unit
Operator: E. Bennet

Change Operator



Host-Connection   

Auto-Scan

Checkin Content-Data

Scan-Order: 1:Scan Carrier 2:(Option) Scan Sub-Carrier / Bag 3:Scan Content

Carrier-ID: 3305 Sub-Carrier / Bag: ---

Contents:

#	Scan-Time	Sub-Carrier / Bag	Scan-Code

Cancel All

Cancel last Scan

Enter



22.03.2022 11:54:57

Check-in view after scanning the carrier

RT-Win4 - Scan In App V 4.10.0.159 Rel12/2/17/417

Location: Int. Care Unit
Operator: E. Bennet

Change Operator



Host-Connection   

Auto-Scan

Checkin Content-Data

Scan-Order: 1:Scan Carrier 2:(Option) Scan Sub-Carrier / Bag 3:Scan Content

Carrier-ID: 3305 Sub-Carrier / Bag: BAG0081542005

Contents:

#	Scan-Time	Sub-Carrier / Bag	Scan-Code
1	22.03.2022 11:56:17	BAG0081542002	0042 4711 0815
2	22.03.2022 11:56:19	BAG0081542002	0042 4711 0819
3	22.03.2022 11:56:21	BAG0081542002	0042 4711 0817
4	22.03.2022 11:56:41	BAG0081542005	0042 4711 0825
5	22.03.2022 11:56:43	BAG0081542005	0042 4711 0823
6	22.03.2022 11:56:53	BAG0081542005	0042 4711 0820

Cancel All

Cancel last Scan

Enter



22.03.2022 11:57:03

Check-in view after scanning of the content

RT-Win4 - Scan In App V 4.10.0.159 Rel12/2/17/417

Location: Int. Care Unit
Operator: E. Bennett

Change Operator

Checkin Content Data

All Not processed Timeout Refresh

#	Scan-Code	State	Man. CheckOut	CID	Sub-Carrier / Bag	TAN	Checkin-Location	Checkin-Operator	Scan-In-Time	Checkin-Complete	Carrier Departure	Carrier Arrival	Checkout-Location	Checkout-Operator	Scan-Out-Time	Checkout complete
257	0042 4711 0824	TAN; Scan-Out; Archived		3305	BAG0081542002	9C00017E	Central Laboratory	MTA L.B. Johnson	22.03.2022 11:09:57	22.03.2022 11:11:13	22.03.2022 11:14:07	22.03.2022 11:17:56	Zentrallabor	MTA L.B. Johnson	22.03.2022 11:21:33	22.03.2022 11:21:39
258	0042 4711 0822	TAN; Scan-Out; Archived		3305	BAG0081542002	9C00017E	Central Laboratory	MTA L.B. Johnson	22.03.2022 11:09:59	22.03.2022 11:11:13	22.03.2022 11:14:07	22.03.2022 11:17:56	Zentrallabor	MTA L.B. Johnson	22.03.2022 11:20:56	22.03.2022 11:21:39
259	0042 4711 0829	TAN; Scan-Out; Archived		3305	BAG0081542005	9C00017E	Central Laboratory	MTA L.B. Johnson	22.03.2022 11:10:14	22.03.2022 11:11:13	22.03.2022 11:14:07	22.03.2022 11:17:56	Zentrallabor	MTA L.B. Johnson	22.03.2022 11:21:39	22.03.2022 11:21:39
260	0042 4711 0828	TAN; Scan-Out; Archived		3305	BAG0081542005	9C00017E	Central Laboratory	MTA L.B. Johnson	22.03.2022 11:10:14	22.03.2022 11:11:13	22.03.2022 11:14:07	22.03.2022 11:17:56	Zentrallabor	MTA L.B. Johnson	22.03.2022 11:21:37	22.03.2022 11:21:39
261	0042 4711 0815	TAN; Scan-Out; Archived		3305	BAG0081542002	9C00017F	Intensivstation	E. Bennett	22.03.2022 11:38:10	22.03.2022 11:39:04	22.03.2022 11:41:45	22.03.2022 11:45:37	Zentrallabor	MTA L.B. Johnson	22.03.2022 11:49:22	22.03.2022 11:50:38
262	0042 4711 0819	TAN; Scan-Out; Archived		3305	BAG0081542002	9C00017F	Intensivstation	E. Bennett	22.03.2022 11:38:11	22.03.2022 11:39:04	22.03.2022 11:41:45	22.03.2022 11:45:37	Zentrallabor	MTA L.B. Johnson	22.03.2022 11:49:33	22.03.2022 11:50:38
263	0042 4711 0817	TAN; Scan-Out; Archived		3305	BAG0081542002	9C00017F	Intensivstation	E. Bennett	22.03.2022 11:38:13	22.03.2022 11:39:04	22.03.2022 11:41:45	22.03.2022 11:45:37	Zentrallabor	MTA L.B. Johnson	22.03.2022 11:50:33	22.03.2022 11:50:38
264	0042 4711 0818	TAN; Scan-Out; Archived		3305	BAG0081542005	9C00017F	Intensivstation	E. Bennett	22.03.2022 11:38:25	22.03.2022 11:39:04	22.03.2022 11:41:45	22.03.2022 11:45:37	Zentrallabor	MTA L.B. Johnson	22.03.2022 11:49:47	22.03.2022 11:50:38
265	0042 4711 0817	TAN; Scan-Out; Archived		3305	BAG0081542005	9C00017F	Intensivstation	E. Bennett	22.03.2022 11:38:29	22.03.2022 11:39:04	22.03.2022 11:41:45	22.03.2022 11:45:37	Zentrallabor	MTA L.B. Johnson	22.03.2022 11:50:38	22.03.2022 11:50:38
266	0042 4711 0818	TAN; Scan-Out; Archived		3305	BAG0081542005	9C00017F	Intensivstation	E. Bennett	22.03.2022 11:38:31	22.03.2022 11:39:04	22.03.2022 11:41:45	22.03.2022 11:45:37	Zentrallabor	MTA L.B. Johnson	22.03.2022 11:49:55	22.03.2022 11:50:38
267	0042 4711 0818	TAN; Scan-Out; Archived	Checkout	3305	BAG0081542002	00000000	Int. Care Unit	E. Bennett	22.03.2022 11:56:17	22.03.2022 11:57:46						
268	0042 4711 0818	TAN; Scan-Out; Archived	Checkout	3305	BAG0081542002	00000000	Int. Care Unit	E. Bennett	22.03.2022 11:56:19	22.03.2022 11:57:46						
269	0042 4711 0818	TAN; Scan-Out; Archived	Checkout	3305	BAG0081542002	00000000	Int. Care Unit	E. Bennett	22.03.2022 11:56:21	22.03.2022 11:57:46						
270	0042 4711 0818	TAN; Scan-Out; Archived	Checkout	3305	BAG0081542005	00000000	Int. Care Unit	E. Bennett	22.03.2022 11:56:41	22.03.2022 11:57:46						
271	0042 4711 0818	TAN; Scan-Out; Archived	Checkout	3305	BAG0081542005	00000000	Int. Care Unit	E. Bennett	22.03.2022 11:56:43	22.03.2022 11:57:46						
272	0042 4711 0818	TAN; Scan-Out; Archived	Checkout	3305	BAG0081542005	00000000	Int. Care Unit	E. Bennett	22.03.2022 11:56:53	22.03.2022 11:57:46						

22.03.2022 11:58:17

Overview of all transports and their contents

RT-Win4 - Scan In App V 4.5.6.116 Rel11/1/25/451

Location: LAB ROOM
Operator: Tuan

Change Operator

Checkin Content Data

All Not processed Timeout Refresh

#	Scan-Code	State	Man. CheckOut	CID	TAN	Checkin-Location	Checkin-Operator	Scan-In-Time	Checkin-Complete	Carrier Departure	Carrier Arrival	Checkout-Location	Checkout-Operator	Scan-Out-Time	Checkout complete
1	1377	Man. Checkout		3316	00000000	KHOA NET NGH-DEM	S/E N	24.02.2021 15:34:56	24.02.2021 15:37:56			KHOA NET NGH-DEM	SON	24.02.2021 15:52:21	24.02.2021
2	CD20-088768	Man. Checkout		3316	00000000	KHOA NET NGH-DEM	S/E N	24.02.2021 15:36:59	24.02.2021 15:37:56			KHOA NET NGH-DEM	SON	24.02.2021 15:52:28	24.02.2021
3	CD20-088768	Man. Checkout		3316	00000000	KHOA NET NGH-DEM	S/E N	24.02.2021 15:38:38	24.02.2021 15:39:01			KHOA NET NGH-DEM	SON	24.02.2021 15:52:29	24.02.2021
4	CD20-088768	Man. Checkout		3317	00000000	KHOA NET NGH-DEM	S/E N	24.02.2021 15:41:18	24.02.2021 15:41:40				A.Son	24.02.2021 16:52:43	24.02.2021
5	1377	Scan-Out; Archived		3317	00000000	KHOA NET NGH-DEM	S/E N	24.02.2021 15:41:20	24.02.2021 15:41:40				A.Son	24.02.2021 16:52:43	24.02.2021
6	CD20-088768	Scan-Out; Archived		3319	00000000	LAB ROOM	Person 1	24.02.2021 15:46:54	24.02.2021 15:54:52			LAB ROOM	Person 1	24.02.2021 17:09:46	24.02.2021
7	1377	Scan-Out; Archived		3319	00000000	LAB ROOM	Person 1	24.02.2021 15:46:59	24.02.2021 15:54:52			LAB ROOM	Person 1	24.02.2021 17:09:52	24.02.2021
8	CD20-088768	Man. Checkout		3316	00000000	LAB ROOM	Person 1	24.02.2021 15:55:19	24.02.2021 15:55:53				A.Son	24.02.2021 17:15:22	24.02.2021
9	1377	Man. Checkout		3316	00000000	LAB ROOM	Person 1	24.02.2021 16:36:35	24.02.2021 16:37:18			O.T Room	A.Son	24.02.2021 16:45:23	24.02.2021
10	1377	Scan-Out; Archived		3316	00000000	O.T Room	A.Son	24.02.2021 17:05:08	24.02.2021 17:05:15				A.Son	24.02.2021 17:15:22	24.02.2021
11	1377	Scan-Out; Archived		3316	00000000	O.T Room	A.Son	24.02.2021 17:16:35	24.02.2021 17:16:51			LAB ROOM	Person 1	24.02.2021 17:19:36	24.02.2021
12	CD20-088768	Man. Checkout		3316	00000000	LAB ROOM	Person 1	24.02.2021 17:22:12	24.02.2021 17:22:27			LAB ROOM	Person 1	24.02.2021 17:27:11	24.02.2021
13	1377	Man. Checkout		3316	00000000	LAB ROOM	Person 1	24.02.2021 17:22:21	24.02.2021 17:22:27			LAB ROOM	Person 1	24.02.2021 17:27:13	24.02.2021
14	CD20-088768	Man. Checkout		3317	00000000	LAB ROOM	Person 1	24.02.2021 17:22:33	24.02.2021 17:22:45			LAB ROOM	Person 1	24.02.2021 17:27:14	24.02.2021
15	8914673700108	Man. Checkout		3317	00000000	LAB ROOM	Person 1	24.02.2021 17:22:40	24.02.2021 17:22:45			LAB ROOM	Person 1	24.02.2021 17:27:15	24.02.2021
16	8914673700108	Man. Checkout		3319	00000000	LAB ROOM	Person 1	24.02.2021 17:23:05	24.02.2021 17:23:19			LAB ROOM	Person 1	24.02.2021 17:27:16	24.02.2021
17	8914673700108	Man. Checkout		3319	00000000	LAB ROOM	Person 1	24.02.2021 17:23:08	24.02.2021 17:23:19			LAB ROOM	Person 1	24.02.2021 17:27:17	24.02.2021
18	CD20-088768	Man. Checkout		3319	00000000	LAB ROOM	Person 1	24.02.2021 17:23:12	24.02.2021 17:23:19			LAB ROOM	Person 1	24.02.2021 17:27:18	24.02.2021
19	1377	Man. Checkout		3319	00000000	LAB ROOM	Person 1	24.02.2021 17:23:14	24.02.2021 17:23:19			LAB ROOM	Person 1	24.02.2021 17:27:19	24.02.2021
20	8914673700145	Man. Checkout		3318	00000000	LAB ROOM	Person 1	24.02.2021 17:23:32	24.02.2021 17:23:42			LAB ROOM	Person 1	24.02.2021 17:27:21	24.02.2021
21	CD20-088768	Scan-Out; Archived		3316	00000000	LAB ROOM	Person 1	24.02.2021 17:34:54	24.02.2021 17:35:53			O.T Room	A.Son	24.02.2021 17:37:55	24.02.2021
22	8914673700108	Scan-Out; Archived		3319	00000000	LAB ROOM	Person 1	24.02.2021 17:40:07	24.02.2021 17:40:13			O.T Room	A.Son	24.02.2021 17:41:47	24.02.2021
23	8914673700108	TAN; Scan-Out		3319	9C00017D	LAB ROOM	Person 1	24.02.2021 18:03:35	24.02.2021 18:03:44	24.02.2021 18:07:32	24.02.2021 18:08:12	O.T Room	A.Son	24.02.2021 18:11:18	24.02.2021
24	CD20-088768	TAN; Scan-Out		3319	9C00017D	LAB ROOM	Tuan	25.02.2021 13:52:12	25.02.2021 13:53:17	25.02.2021 13:53:30	25.02.2021 13:54:10	O.T Room	l	25.02.2021 14:05:51	25.02.2021
25	-Out			3318	9C00017E	LAB ROOM	Tuan	25.02.2021 14:00:37	25.02.2021 14:01:03	25.02.2021 14:01:14	25.02.2021 14:01:53	O.T Room	l	25.02.2021 14:07:23	25.02.2021
26	-Out			3319	9C00017E	LAB ROOM	Tuan	25.02.2021 14:19:20	25.02.2021 14:19:42	25.02.2021 14:19:55	25.02.2021 14:20:35	O.T Room	lao	25.02.2021 14:24:52	25.02.2021
27	-Out			3319	9C00017E	LAB ROOM	Tuan	25.02.2021 14:32:58	25.02.2021 14:33:02	25.02.2021 14:33:20	25.02.2021 14:34:00	O.T Room	lao	25.02.2021 14:34:26	25.02.2021
28	-Out			3319	00000000	LAB ROOM	Tuan	25.02.2021 15:15:55	25.02.2021 15:15:59			LAB ROOM	Tuan	25.02.2021 15:16:12	25.02.2021
29	-Out			3319	9C00017E	LAB ROOM	Tuan	26.02.2021 11:26:28	26.02.2021 11:26:53	26.02.2021 11:27:08	26.02.2021 11:27:48	O.T Room	Lang	26.02.2021 11:42:35	26.02.2021
30	-Out			3319	9C00017E	LAB ROOM	Tuan	26.02.2021 11:26:34	26.02.2021 11:26:53	26.02.2021 11:27:08	26.02.2021 11:27:48	O.T Room	Lang	26.02.2021 11:42:32	26.02.2021

Activate Windows
Go to Settings to activate Windows

Database list of scans that have been performed

How the Scan App works

The prerequisite for using the Scan App is the use of **pneumatic tube carriers with barcodes**. When preparing the shipment, the employee first scans the barcode on the pneumatic tube carrier used.

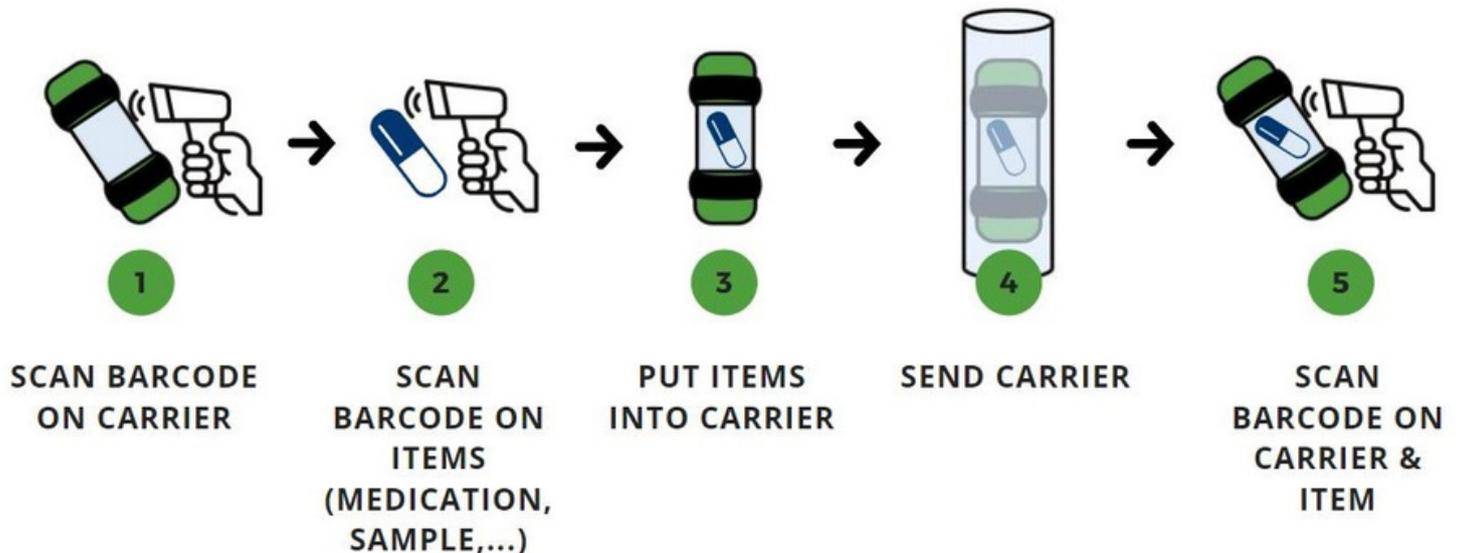
Then the employee scans the **barcodes on the materials to be shipped** (samples, blood bags, pharmacy items,...)

The carrier and its contents are now linked as information and **stored in the pneumatic tube database**. If desired, they are automatically **sent to the customer's information management system via a data interface**. In addition, the system stores further information, such as the time, location and name of the operating employee (if a MIFARE reader is installed).

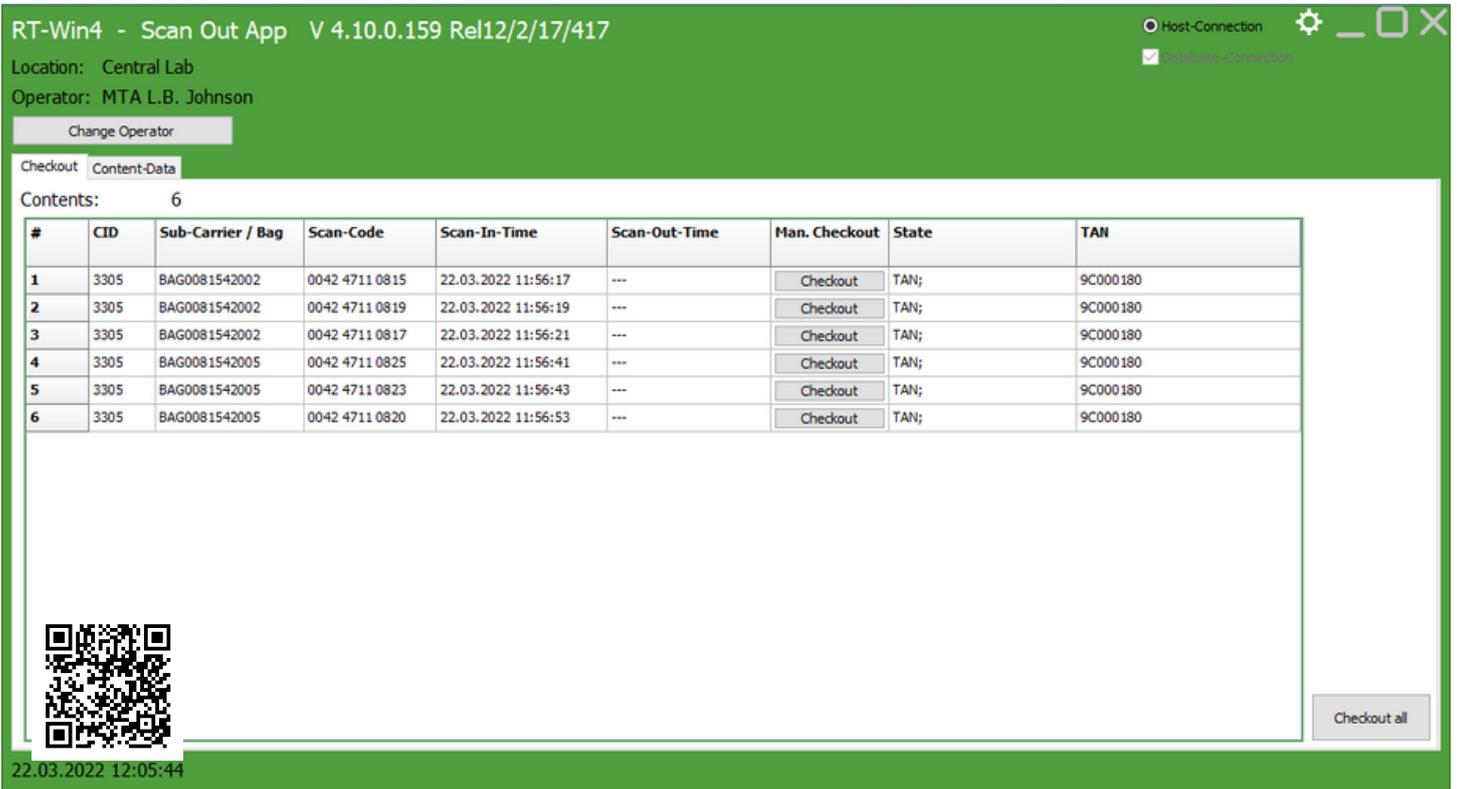
The carrier is then placed in the pneumatic tube station and departs for the desired destination. Once there, **the receiving employee also scans the barcodes on the carrier and materials**. The system checks whether the number of materials checked in matches the number of materials checked out. The result is stored in the system and is visible to the employee on a screen.



Video of a hospital employee who uses the Scan App



-> COMPARES WHETHER SENT ITEMS ARE THE SAME AS ARRIVED ITEMS
-> STORES DATA ABOUT ITEMS SENT AND ABOUT THE TRANSPORT PROCESS IN PNEUMATIC TUBE SYSTEM DATABASE AND TRANSFERS IT TO CLIENTS' INFORMATION MANAGEMENT SYSTEM



Check-out view in the Scan App

Arrive & Departure Screens as add-on for the Scan App

The Scan App unfolds its full potential in conjunction with installed screens at employee workstations. Our "Arrive & Departure Screens" show employees live and on site all currently arriving, departing and recently completed transports, including checked-in contents and the sending employee. This not only lets employees know that a carrier will arrive, but also how many materials it contains. You can find out more about the screens in our Arrive & Departure Screen brochure on <https://rohrpost.de/software>.

Other uses of the Scan App

Of course, the Scan App is not only relevant for hospitals, but can be used wherever the contents of pneumatic tube carriers need to be tracked.



Right: Screen besides the barcode scanner

You'd like to know more about our pneumatic tube software RT-Win 4 and other Apps? Then look onto our website for more insights: rohrpost.de/rohrpost-software

