

Active POS

Smart monitoring of checkout transactions

RECORDED LOSSES IN RETAIL

TRASSI₹ Active POS 02



TRASSI Active POS 03

47%

losses in statistics

DIRECT LOSSES:

cases of obvious theft and fraud. Lead to a shortfall that can be identified during stocktaking

Beyond the statistics

INDIRECT LOSSES:

when the cashier shortchanges the customer. The resulting loss is higher due to reputational costs

MORE THAN HALF OF ALL LOSSES OCCUR AT THE POS

Common examples of violations:

Deliberate theft	Mistakes and carelessness	Violation of cash register discipline
Cancellation or partial receipt printing	 Cashier gets the goods mixed up (regrading) 	 Shop opening and closing time
Unsettled receipt, when the cashier's accomplice takes goods using	 Errors in the quantity of goods 	 Talking on the phone while working at the POS
previous customer's receipt	 Ignoring deliberately under- 	
Returns	weighed goods	 Leaving the workplace
Extra goods	 Errors when taking goods off the receipt 	Mess at the workplace
1+1 offer positions		
Customer loyalty card fraud		

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TRASSIR ACTIVE POS

The smart module ensures synchronisation of the POS with the video stream:

upon reaching ActivePOS, events from the POS go through a checklist according to set parameters, in case of a violation an incident (notification of a violation with a short video clip) is generated and output to the operator for checking. The module also improves the efficiency of conflict resolution with customers.



SOLUTION BEST SUITED FOR

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DETECTING THEFT AND FRAUD





VIOLATION **DETECTION: Receipt cancellation** The customer did not wait for the receipt and left. Viewing incidents of The cashier cancelled the purchase and kept cancelled receipts paid in the money cash Fake return Using the receipt left by the customer, the Viewing cases of returned goods cashier returns the goods that were actually sold and takes the money **Cashier's personal discount card** Viewing cases when the same The cashier does not clear the receipt and waits discount card is used - for for the customer to leave. Uses own discount example, more than twice per card. Takes the resulting difference between the working day amount paid and the sum total

DETECTING CASHIER ERRORS





VIOLATION

Error when letting through a group of products

When scanning a multipack, the cashier scans the barcode of one product and forgets to enter the actual number of items in the multipack. As a result, the amount on the receipt is for just one item and not the whole package

Error when entering the product code manually

When entering the product code manually, the cashier makes an error and sells another product with a different price. As a result, there is a mix-up

Error in the quantity or weight of goods

The cashier makes a mistake when entering the quantity of goods (for example, enters 77 instead of 7), deletes the wrong digit, and does not enter the correct quantity of goods. The customer gets the goods for free because of the error

DETECTION:

Viewing the entry of groups of goods into the system, during the sale of which such an error might occur

Viewing manual entry of product codes



Viewing instances when the number of goods is changed, after which the goods disappeared from the receipt

DETECTION OF VIOLATIONS CASH REGISTER DISCIPLINE



VIOLATION **DETECTION: Opening a cash register** without payment Unjustified opening of a cash box with the Viewing instances of a cash box being threat of the cashier pocketing cash that is opened without the customer paving in unaccounted for cash Selling alcohol without verifying the customer's age Checking the sale of all Before selling alcohol, the cashier must goods from a given list (alcohol, make sure the customer is an adult by cigarettes) checking their ID Not checking high-value notes High-value notes shall be checked on Viewing purchases paid for in highvalue notes a detector to avoid payment with counterfeit banknotes

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Active POS

KEY ADVANTAGES

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types of violations

reduction of cash
 losses

10k+

TRASSIR modules reduce the financial losses of our customers every day

equipment is compatible with the ecosystem





Reduction of financial losses at POS via quick search of incidents



Common interface for multiple locations



Creation of any search algorithms and combinations of events



Flexible filter parameters and events sorting



Only **1 operator per 100 POS** at several stores



Reduced service time in case some receipt positions are cancelled

COMMON INTERFACE

One-contact principle





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TIMELY PREVENTION OF VIOLATIONS







Automatic selection of suspicious incidents and immediate notification

Broadcasting incidents and operations from the cash register in the visual backdrop

Options for filtering and sorting per specific cashier or store

TIMELY PREVENTION OF VIOLATIONS

Automatic withdrawal of incidents online based on specified setting rules



			16185		78 24.03 T	Cashier:	DESKTOP- 11.12.2021 24.03	
			Receipt II Receipt ar Previous 16185	a receipt Cash payment Receipt printing Receipt end Item is cancelled b Item is cancelled	78 24.03 T	Server:	DESKTOP- 11.12.2021 24.03	CCGMIRD 23:07:10 Next receipt CZK 23:07:08 23:07:09 23:07:09 23:07:09 00 g 23:07:09
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	1.8	A	+++					
15 10 45	22 13 POS time	30 45 23 15 10 POS	45 ¢ Event type	Cashier	Price per unit	Quantity	Value	Receipt ID
	.2014 13:15:39 1	New terminal1@DESKTOP-CCGMIRD	Receipt cancellation	Robert Taylor	0.00		0.00	226
2.2021 23:07:10 27.01.	.2014 10:15:21	New terminal1@DESKTOP-CCGMIRD	Receipt cancellation	Robert Taylor	0.00	0.000	0.00	78
2.2021 22:11:42 27.01.	.2014 18:48:31	New terminal1@DESKTOP-CCGMIRD	Receipt cancellation	Robert Taylor	0.00	0.000	0.00	
2.2021 21:59:49 27.01.	.2014 18:48:31	New terminal1@DESKTOP-CCGMIRD	Receipt cancellation	Robert Taylor	0.00	0.000	0.00	
			•					

WORKING WITH MULTIPLE STORES AT THE SAME TIME

Timely prevention of violations
Multiple stores at the same time
100+ Types of violations for analysis
Generating detailed and convenient reports with one click

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Option to select **multiple stores** for the analysis of suspicious incidents

WORKING WITH MULTIPLE STORES AT THE SAME TIME





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BUILT-IN ALGORITHM CONSTRUCTOR

Active POS 💦 محمح

of search for violations to create any combinations of events



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OWN SETTINGS DEVELOPMENT





No need for an IT expert all rules are easily created in the interface



Create unique rules with a complex sequence, selection of products, cashiers or other parameters

show selected only Destriop-FL2TLOH Destriop-FL2TLOH <th>Machine</th> <th>Cashler</th> <th>Document</th> <th></th> <th></th> <th>Digest</th>	Machine	Cashler	Document			Digest
Neuro statioPres Msk-hd-30 Msk-hd-30 Neuro statioPres Msk-hd-30 Neuro statioPres Helen Bloom Paggle Jones Carrie Stone Harry Cooper Harry Cooper Marth Albe Carrie Stone Harry Cooper Marth Albe	-					Search for events, since: text contains Youghurt ¹
Msk-hd-30 Post Helen Bloom Peggle Jones Mark hdps Carrie stone Harry Cooper Mary Jackson Craig Bell	V Neuro StatioPres	> Neuro StatioPres		Cash	-	type = Item
> NeuroTestServer > PressirCorpUn PressirCorpUn <td>Msk-hd-30</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Msk-hd-30					
Image: Stone Image: Stone <td< td=""><td></td><td></td><td>Discount:</td><td>[from]</td><td>[to]</td><td>Tom Black Cleaning or</td></td<>			Discount:	[from]	[to]	Tom Black Cleaning or
Po SgNeuros statoPres Harry Cooper Anna Little Duration, since: Image: Cross of the sequence		Martha Hope	Change due:	[from]	[to]	Jim Green
Anna Little Duration, since: Image: Duration, since: <			Items q-ty	[from]	[to]	PO S@Neuro StatioPres
Image: Status			Duration, since:	[from]	[to]	payment type = cash
	Events Receipt contains events Text	Receipt does not contain events	Quantity Price per un		to	





creating own flexible templates

TRASSI ₹ Active POS

Timely prevention of violations Multiple stores at the same time 100+ Types of violations for analysis Generating detailed and convenient reports with one ň click



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AUTOMATIC GENERATION OF A REPORT





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AUTOMATIC GENERATION OF A REPORT

on the identified violations



Event type	Total	Total	Tatyana Gorelkina	Микаева Анна	Anna Plekhankova
Receipt cancellation	5	5	0	4	0
Adding cash money into cash box	7	7	0	3	2
Login to cashier mode	9	9	1	1	2
Log out of cashier mode	8	8	1	1	2
Adding an item to receipt	5712	5712	666	1913	0
Item alteration	268	268	42	89	0
Taking money out of the cash box	6	6	1	2	0
Total	1015	1015	119	410	0
Receipt end	898	898	91	368	2
Start of "Sale" receipt	888	888	89	368	0
Receipt ID	893	893	90	368	0
Item is cancelled	51	51	7	30	0
Printing X-report	15	15	2	6	2
Receipt printing	879	879	90	361	0
Cash payment	1015	1015	119	410	0
Increasing goods quantity	614	614	81	201	0



PRESENTING AN INCIDENT IN A REPORT



					TransleQuartur	New
Incident report	Detected	Not viewed	Confirmed	Declined	TrassirCorpUp	Neu
					Total	
Violation of POS servicing rules	28	5	1	22	1	
Cancellation of a pending receipt	8	4	2	2	2	
Receipt cancellation in the absence of the manager	2	2	0	2	0	
Receipt cancellation with delay	2	2	2	0	2	
Item input by calculation	0	0	0	0	0	
Selecting an item from the list manually by price	6	0	3	3	3	
Issuance of a sales voucher without signing	2	1	1	0	1	
Reloading the cash register in the absence of the manager	2	1	0	1	0	
Cancellation of items in the receipt in the absence of the manager	8	0	4	4	4	
Selling without receipt	2	0	1	1	1	
Printing return receipt in the absence of the manager	2	0	2	0	2	
Counting cash in a cash box	0	0	0	0	0	
Printing X-report	2	0	1	1	1	
Printing X-report and withdrawing money in the absence of manager	3	0	0	3	0	
Acceptance of a high-value note without detecting	14	14	0	0	0	
Selling alcohol to minors	2	1	1	0	1	
Selling cigarettes to minors	2	0	2	0	2	
Working with an open cash box	0	0	0	0	0	
Selling alcohol at night	4	0	1	3	1	
Unintentional damage to the seller or customer	25	20	0	5	0	
Alteration of quantity or weight when accepting	2	0	1	1	1	
Unintentionally cheating a customer by scanning the same item twice	3	0	2	1	2	
Cutting off small amounts	5	1	3	1	3	

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SORTING INCIDENTS

by type of violations, cost of damage, number of incidents



Statistics per cashiers	Suspicious	Working time	Receipts	Receipts total	Cancelled amount
DESKTOP-CCGMIDR	6	51 m 17 s	888	131432.411	67406.25
Peggie Adams	7	6 m 9 s	89	7793.98	67.99
Alex Levine	3	15 m 13 s	224	19984.87	94.94
Ann Gordon	9	17 m 26 s	368	86445.35	67189.34
Fred Blossom	0	0 s	0	0.00	0.00
Andy Novak	3	12 m 29 s	207	17208.21	53.98
James Murray	0	0 s	0	0.00	0.00
	Mar Mar	king of viewe	ed incidents	i.	

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REDUCED SERVICE TIME

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in case some receipt positions are cancelled



The traditional method of fraud prevention, when each incident of cancelling goods in the final receipt requires confirmation from the senior staff

Queuing

People with small purchases are leaving as they are unwilling to waste time in queues, the visitors' loyalty decreases

The shift supervisor is distracted from his duties during peak hour, he is forced to dash from one POS to another



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Opportunities to:



Monitor the presence of staff in the workplace



Simultaneously process information from the weighing equipment and the POS



Investigate incidents from their beginning without having to scroll through the entire till roll



Conduct marketing conversion analysis when used in conjunction with the **Neuro Counter module**



Determine the presence or absence of violations from the video frame



Integrate with most retail and cash register systems based on protocols



Significantly speed up the process of removing a product from the receipt if the customer so wishes



Conduct 'health monitoring' of the entire system using **Trassir CMS**

Trassir CMS Solution for managing an extensive CCTV system in retail

For whom ->	ore than 20 Many locations with video surveillance Uninterrupted 24/7 monitoring is critical				
Basic features	Advanta				
4./24/7 monitoring of7surveillance system	You will not miss equipment failure and will not lose important data. Set up notifications or view the status online				
System status reports	To analyse situations, you can create reports on the state of the system for any period. We can customise the CMS and collect reports on any system data				
Convenient user management, LDAP	Easy creation of users and flexible management of their rights based on your corporate user system				
Situation Center	Security guards will not miss suspicious situations and they do not have to monitor all cameras. You handle only alarms from the right detectors and flexibly set their trigger scenarios				
Traffic reduction	With slow Internet speed or narrow channels, the desired channel can still be viewed by multiple users				
Centralised server update and → management via scripts	You can update all or individual servers at once using the CMS and also manage them via scripts				

CONVERSION MARKETING ANALYSIS





REDUCTION OF LOSSES IN CASH TURNOVER IN THE BANKING SYSTEM

For POS cash registers and counting rooms

The module is integrated with money counting machine and bank software
Creating a list of all events
Creating and storing evidence base to investigate incidents. The archive of video recordings of all transactions passing through the ATM allows
Sync of all

promptly investigating

precedents of fraud

customer claims and the

Synchronisation of event video monitoring of cash and payment centres **using Active POS**. Synchronisation of video recording of all of the cashier's actions with the data received from bill counters enables the merging of this information for easy monitoring of all operations with banknotes at any time

CASES

SPAR supermarkets

A wide network of retail shops that have service areas and their own cooking facilities. The network is actively expanding.

Project objectives:

- To reduce losses from shoplifting
- To provide a solution to prevent fraud at POS
- To control the process of independent weighing of goods by customers in self-service areas

Implementation result:

30% decrease of shortage quantity

40% decrease of losses resulting from shoplifting

60% decrease of shoplifting theft





CASES

Largest fast food restaurant chain opens more than 500 outlets

Project objectives:

- S Minimising delays in receiving and delivering orders
- Preventing POST fraud
- Preventing theft

Implementation result:

- S Video surveillance as a regulatory control tool
- Collecting statistical data for marketing research without the involvement of third-party services

2 months 70% reduction

70% reduction of financial losses resulting from theft





ADDITIONAL IMPLEMENTED SOLUTIONS AND DEVELOPMENT VECTORS



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