

Orion Service Manual Version 2.20

Section 13

ERROR CODES AND MESSAGES

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13.1 Error Code Table: Station Out of Order

If a peripheral station switches to "Out of order", a number appears in round brackets on the LCD/VFD display of the station. This station out of order error number belongs to the corresponding out of order error text shown in the table below.

Error Number	Out of Order Error Text	Reason/Remark
(1)	Undefined MPS-Type	Check parameter "MPS-type" of "cash parameter" Payment Station only
(2)	MPS Error	All possible money processing system (MPS)-devices out of order: Coin acceptor, note acceptor, credit card reader
(3)	No communication with SLG	Check cable and connections of the UCD
(4)	SLG obstructed	Ticket can not be transported in the UCD, check if ticket is jammed
(5)	Barrier broken	Gate arm is broken (falling down) Check also gate arm switch, mounted in the axle of Barrier Gate
(6)	Barrier obstructed	Somebody will open the gate arm by hand
(7)	Barrier out of order	Barrier Gate completely failed
(8)	Burglary alarm	Automatic Pay Station only
(9)	Blocked by input	The corresponding PCU hardware input # 13 is active, or the command telegram 50 is sent by PM /ZMS. (Out of order / Station occupied)
(10)	No communication with LCD-display	Check cable and connection
(11)	Parcotax 900 program terminated	Peripheral station program is terminated normally, and tries to restart
(12)	Parcotax 900 program downloading	The PCU boot program is loaded. Peripheral station is waiting for program downloading.
(13)	Paper low (printer)	Paper of printer is low. (Payment Station PK and Cashier Terminal (PH/PX). Appears only when parameter "out of paper" in "cash parameter" is set to 1

13.2 Error Code Table: Card Rejections

After insertion of a faulty ticket or card into the UCD a card rejection number appears in [] on the LCD/VFD display of the peripheral station. In the ZMS Alarms module this number is displayed in the appropriate peripheral station window in the tap Entry, Exit or Payment (not valid for the Fee computer, there the rejection number is displayed directly on the user interface in the lower right corner as RXXX). This card rejection number belongs to a rejection text shown in the table below. **Note:** The Pocket terminal key menu ". " shows also the rejection text belonging to a card rejection number actually displayed.

Card Rejection Number	Card Rejection Text	Reason for Rejection	Action / Trouble Shooting
[0]	NO REJECTION: OK		
[1]	NO DP-TRACK DATA	Ticket (no DP-card) inserted in PE	Wrong handling
[2]	ERROR CHECKSUM DP-TRACK	DP-Trace defective	Check card for damage, reprogram or exchange card
[3]	UNKNOWN DP-CARD NO.	Parameter "Enable group" is set to OFF	Check menu 3.4.1 of PM
[4]	UNKNOWN KP-CAR PARK NUMBER	Station cannot accept KP- or DP-card	Check configuration, KP/DP PH-number/Region code
[5]	DP-CARD NO. BLOCKED	DP customer number in Blacklist?	Check blocked numbers (menu 3.6)
[6]	TOO MUCH REBATE TICKETS/AMOUNT	Number of rebate tickets, or total amount of them to big	Check configuration (cash parameter) inform client
[7]	COSTS EXCEED MAXIMUM AMOUNT	Calculated fee too high (max. amount parameter)	Ticket to be paid at Manual cashier
[8]	CARD NOT READABLE	Wrong insertion direction or Ticket/Card code erased	Check last transaction, check read/write unit (UCD)
[9]	HARDWARE ERROR TICKET FEEDER	Ticket jam, UCD defective or UCD cable not connected	Check read write unit (UCD)
[10]	CARD NOT ENTERED	Ticket/Card not fully inserted	Instruct user
[11]	ERROR CHECKSUM KP-TRACK	KP-Trace defective	Check reason of defective KP-Trace
[12]	EXIT GRACE TIME EXCEEDED	Client too late on PA /PX after payment	Check programmed exit time on PK, instruct user
[13]	ERROR ANTIPASSBACK	Tried double entry/exit with DP card	Instruct card holder
[14]	ENTRY OUTSIDE ALLOWED PERIOD	Not within programmed allowed time range	Instruct user
[15]	NOT TWO DATA-BLOCKS ON TRACK	One of the two data blocks partly erased	Clean the UCD and retry card
[16]	ERROR VERIFY AFTER WRITE	Reading or writing quality of magnetic code not o.k.	Clean the UCD and retry card
[17]	ERROR VERIFY AFTER ISSUE	Issue of Entry ticket not o.k./DP programming at PH/PX	Check ticket feed unit / UCD
[18]	ERROR CHECKSUM KP- & DP-TRACK	Partly erased KP-&DP-trace or bad reading/writing quality	Check UCD, check state of ticket/card
[19]	DP-CARD NOT YET VALID	DP-card validity start date newer than actual date	Instruct user
[20]	UNKNOWN DP-CAR PARK NUMBER	No access to this sector with that DP-card	Instruct user
[21]	DP-CARD NO LONGER VALID	End of validity time period reached	Instruct user
[22]	TICKET NOT TAKEN	Presence of ticket in the mouthpiece - or retracted	Check if ticket is jammed
[23]	WP-CARD AMOUNT ZERO	PA, fee too high, pay/recharge at a pay station	Instruct user
[24]	STATION BLOCKED	PE: Station cannot be used	Instruct user
[25]	NO DP-CARDS ALLOWED	PE: DP-card not allowed within this sector	Instruct user
[26]	PAYMENT CANCELLED	PK: manual cancelled by customer or time out	Instruct user
[27]	NO KP-TICKETS ALLOWED	Station configured for DP-cards only	If KP will be inserted, check configuration
[28]	TICKET BLOCKED (ALARM TICKET)	PE: Ticket (card) taken but car not entered	Client tried cheating
[29]	ERROR TICKET READER	Data transfer missing (UCD->PCU)	Check cables of UCD
[30]	CREDIT CARD REJECTED	Not valid?	Instruct user
[31]	TIMEOUT READING TICKET	Internal use. Timeout during ticket reading.	

Card Rejection Number	Card Rejection Text	Reason for Rejection	Action / Trouble Shooting
[32]	POOL GROUP FULL	Rejection of next DP-Pool card	Instruct user
[33]	ERROR SENDING "ENABLE READ"	Internal use (UCD not reacting to command "enable read")	
[34]	TIMEOUT PROXIMITY READER	Contact free DP System timeout (option)	check Data communication
[35]	CC TIMEOUT PERIPHERALS TO MS	Credit card timeout between peripheral station and ZMS	check Data communication
[36]	CC TIMEOUT MS TO CLEARING PC	Credit card timeout between ZMS and clearing PC	internal use
[37]	CREDIT CARD NOT TAKEN	Credit card jammed in reader	check if Credit card bent or defective
[38]	CC PROCEDURE FAILED	internal use	internal use
[39]	CREDIT CARD LIST IS FULL	value must be configured (e.g. 1000)	check capacity of KP-Credit card value
[40]	CC TIMEOUT TO CLEARING CENTER	Clearing does not work	inform clearing company
[41]	NO TICKET IN FEEDER	Photocell "tickets present" is ON	reload tickets
[42]	ERROR WRITING TICKET/CARD	Ticket can not be read after writing	Ticket / card bad quality, condition of reader?
[43]	ERROR READING TICKET/CARD	internal use	internal use
[44]	ERROR ISSUE TICKET	Not issued after reading	check UCD
[45]	ERROR GENERATE TICKET	Ticket not issued (mechanically)	check UCD
[46]	CREDIT CARD IN BLACKLIST	Use of this credit card is not allowed	
[47]	CAR LEFT BACKWARDS/MEDIA IN UCD	Can also be Vehicle Identification System (VIS) error	
[48]	P-WP CARD NOT VALID	No WP card IN/OUT allowed	
[49]	SPM ACCESS REFUSED	This season card is not allowed.	Refer to next chapter for more details of additional return code sent to ZMS Alarms
[50]	CAR LEFT BACKWARDS W/O TICKET	Car was detected on loop	
[51]	MINIMAL RELOAD AMOUNT	Reload amount to low	Reload P-WP/WP card
[52]	TELEGRAM ERROR ZMS/PM	Extended Lost ticket	
[53]	FUNCTIONAL ERROR ZMS/PM	Extended Lost ticket	
[54]	VALIDATION ERROR	Extended Validations	
[55]	TARIFF CALCULATION ERROR	Extended Validations	
[56]	ERROR VERIFY AFTER READ	Reading check failed after writing cycle	
[57]	ZERO BLOCKS ON TICKET/CARD	Message from UCD	
[58]	ERROR PROXIMITY READER	Proximity reader is not working	
[59]	ZERO KP BLOCK	No KP block at all on ticket / DP card	
[60]	ZERO DP BLOCK	No DP block at all on DP card	
[61]	URT INHIBITED	Use of URT tickets is not allowed	
[62]	TICKET SWALLOWED	Ticket has been swallowed after retract time elapsed	
[63]	STATION TICKET LOW	Tickets are low on station (ticket are not empty yet)	
[64]	DP card already used	There already a DP card with this number registered	Could appear during generating DP Cards at the FC, enter the next unused DP Card Number.
[65]	Validation/ Encash denied	BC validations are not enabled or the used validation is not legal	
[66]	Validation/ Encash unknown	The used BC (Barcode) validation is not recognized	
[67]	Validation / Encash already used	Used BC was already used for payment	
[68]	VVC Account Balance to low		Reload at Automatic Pay Station

13.3 Error Code Table: Online Season Card Rejections

The rejection codes for Online season cards (proximity tags and ISO coded cards) in the table below are available only in connection with a management system ZMS version 3.0 and Last updates from 14.07.2004 or newer.

If this is the case, then the ZMS Alarms program, as well as certain reports, shows the detailed Online season parker card (SPM) rejection codes (101-120) as displayed in the table below. This in addition to the general rejection code “[49] SPM ACCESS REFUSED” that appears on the LCD/VFD display of the peripheral station in parallel (see also previous chapter).

Card Rejection Number	Card Rejection Text *	Reason for Rejection	Action / Trouble Shooting
[100]	(70)*	Card does not exist in SPAdmin and was therefore handled on substation level (where it is supposed to be rejected with code 15, 18 or 19).	
[101]	CONTACT OPERATOR (71)	Card not active or card outside start/end date range.	Check System / Instruct user
[102]	ERROR ANTIPASSBACK (72)	APB failure on car park level. Tried double entry/exit with online card.	Instruct card holder
[103]	CARD NO. BLOCKED (73)	Card blocked. Customer number in Blacklist?	Check blocked numbers
[104]	ENTRY OUTSIDE ALLOWED PERIOD (74)	Not within programmed allowed time range.	Instruct user
[105]	PARKING FULL (75)	Car Park is full.	Instruct user
[106]	POOL GROUP FULL (76)	Pool full. Rejection of next DP-Pool card.	Instruct user
[107]	SWALLOWED CARD CONTACT OPERATOR (77)	Card has been swallowed according system / parameter setting (expiry date).	Instruct user
[108]	SECTOR ENTRANCE DENIED (78)	Card is not registered to have allowance to this sector.	Instruct user
[109]	SECTOR PARKTIME VIOLATION (79)	Card required too much time to pass the sector (stayed in the sector for too long)	Synchronize the card on card level
[110]	SECTOR APB VIOLATION (80)	APB failure on sector level. Tried double entry/exit in a sector.	Synchronize the card on card level
[111]	STATION NOT ALLOWED (81)	Station blocked in access policy.	
[112]	SECTOR COUNTER LIMIT REACHED (82)	Sector counter limit reached.	
[113]	STATION COUNTER LIMIT REACHED (83)	Station counter limit reached.	
[120]	CARD DOES NOT EXIST (90)	The Card is not registered in SPAdmin.	Instruct user (wrong car park) or wrong setting

* Values in round brackets () in the second column show the rejection code according to the telegram specification. The rejection code displayed in Alarms is equal to this value plus an offset of 30.

13.4 Error Code Table: UCD Hardware

The UCD hardware errors shown below are directly sent to the Management station as transactions. Active UCD hardware errors can be displayed on the peripheral station only by means of the Pocket terminal key menu "3" (error number) or key menu "-" (error text).

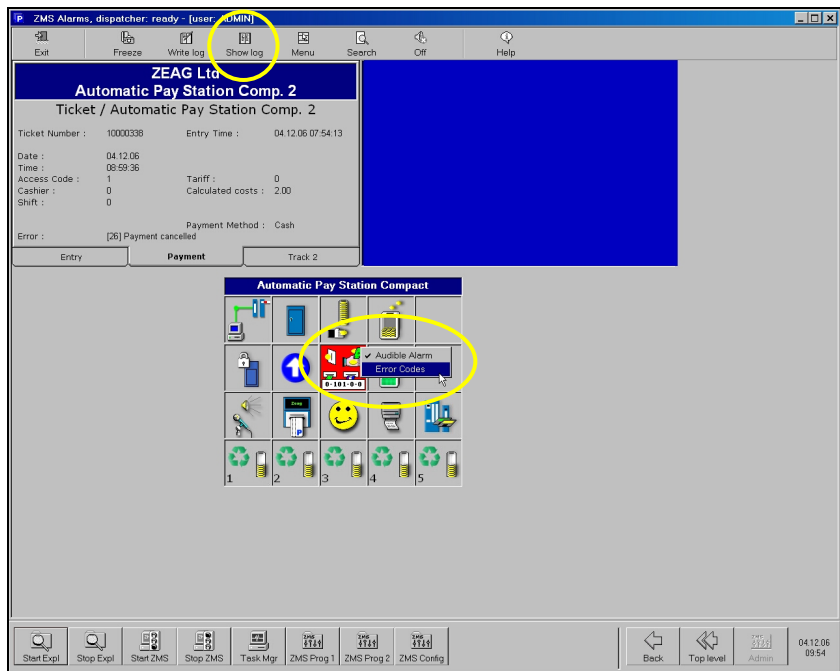
On the ZMS you can display it as follows:

1. In the Alarms module double click to the appropriate peripheral station icon.
2. Right click to the icon "Ticket/Card Reader".
3. Select the menu Error Codes.
4. The UCD hardware error number displayed now in the field "Error Code" belongs to its rejection text shown in the table below.

UCD Hardware Error Number	UCD Hardware Error Text	Remark
0	NO ERROR TICKET READER	
1	NO TICKETS LEFT	
2	ERROR TICKET READER	
3	ERROR VERIFY RE-READ	
4	ESCROW ERROR	
5	ERROR ISSUE TICKET	
6	ERROR READ TICKET	
7	ERROR WRITE TICKET	
8	ERROR WRITE DP-TRACK	
9	TICKET FEEDER ERROR	
10	INVALID TICKET POSITION	
11	INVALID COMMAND	
12	NO ANSWER IN TIMEOUT	
13	ERROR WRITING DP-BLOCK	
14	ERROR WRITING KP-BLOCK	
15	NO COMMUNICATION (TRANSPORT LAYER)	

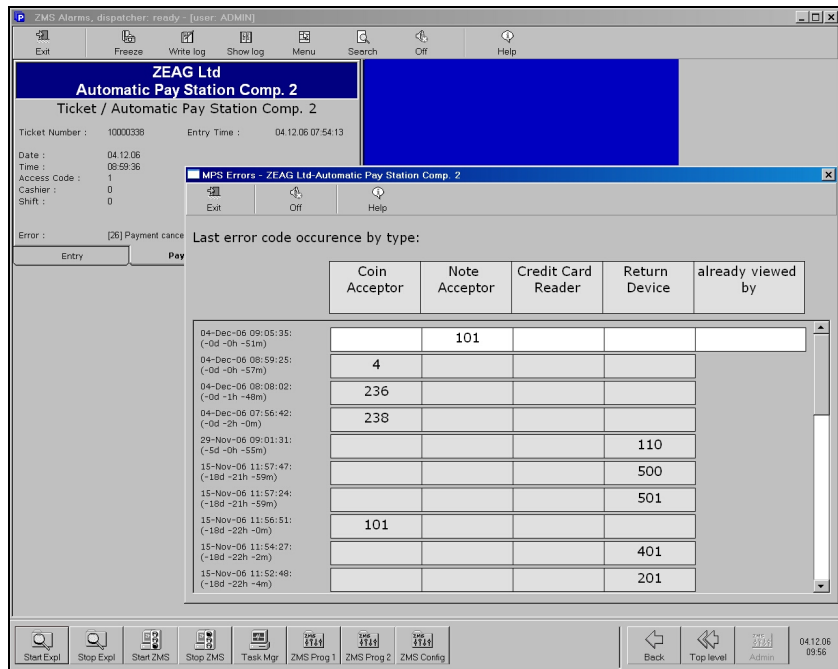
13.5.3 Displaying MPS Error Code on ZMS

1. In the Alarms module double click on the appropriate **Automatic Pay Station**.
2. Right click on the icon **MPS** as shown in the picture to the right.
3. Select the menu **Error Codes**.



The MPS error codes are displayed now, including date and time of last occurrence of each type. If an MPS error (e.g. 236) has appeared more than ones, you can track its history as described in the next two chapters.

Note: On ZMS V3.1 and older the history of error codes is not visible in that window.



13.5.4 Displaying Unfiltered MPS Error Code History on ZMS

The history of the MPS error codes that have appeared is recorded in the ZMS log file as shown below. In the log file you can also see if the same MPS error has appeared already more than once within the log period. You can select the log by clicking on the Alarms module menu icon **Show Log** (menu marked with a round circle on the upper picture on the former page). Log files valid for a longer time you can select in addition in the ZMS module “Reports”.

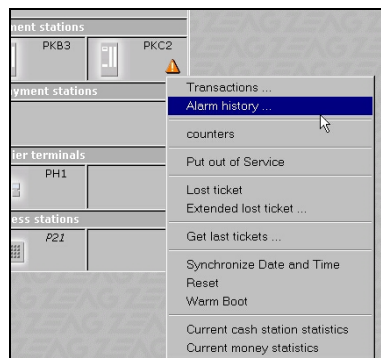
Company name: ZEAG Ltd							04.12.06 09:58:27
Installation: United ZEAG Ltd							
Log entries							Page 1 of 1
From:		04.12.06	to:		04.12.06		
user	host	Car Park	place	date	time	type	entry
ADMIN	WS1	ZP		04.12.06	07:54:01	5	Change Grace Time - ZEAG Ltd
	RDB	ZP	PKC2	04.12.06	07:56:42	15	MPS Error (238,0,0,0)
	RDB	ZP	PKC2	04.12.06	07:56:53	15	Payment cancelled
	RDB	ZP	PKC2	04.12.06	08:04:52	15	Door opened
	RDB	ZP	PKC2	04.12.06	08:05:06	15	MPS Error (236,0,0,0)
	RDB	ZP	PKC2	04.12.06	08:05:16	15	Payment cancelled
	RDB	ZP	PKC2	04.12.06	08:05:43	15	MPS Error (236,0,0,0)
	RDB	ZP	PKC2	04.12.06	08:05:53	15	Payment cancelled
	RDB	ZP	PKC2	04.12.06	08:06:24	15	MPS Error (236,0,0,0)
	RDB	ZP	PKC2	04.12.06	08:06:35	15	Payment cancelled
	RDB	ZP	PKC2	04.12.06	08:08:02	15	MPS Error (236,0,0,0)
	RDB	ZP	PKC2	04.12.06	08:08:11	15	Payment cancelled
	RDB	ZP	PK1	04.12.06	08:19:59	15	Door opened
	RDB	ZP	PKC2	04.12.06	08:56:53	15	Door opened
	RDB	ZP	PKC2	04.12.06	08:57:26	15	Coin safe replaced
	RDB	ZP	PKC2	04.12.06	08:58:12	15	MPS Error (4,0,0,0)
	RDB	ZP	PKC2	04.12.06	08:58:51	15	Payment cancelled
	RDB	ZP	PKC2	04.12.06	08:59:25	15	MPS Error (4,101,0,0)
	RDB	ZP	PKC2	04.12.06	08:59:36	15	Payment cancelled
	RDB	ZP	PKC2	04.12.06	09:04:44	15	Door opened
	RDB	ZP	PKC2	04.12.06	09:05:35	15	MPS Error (0,101,0,0)

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13.5.5 Displaying Filtered MPS Error Code History on ZMS

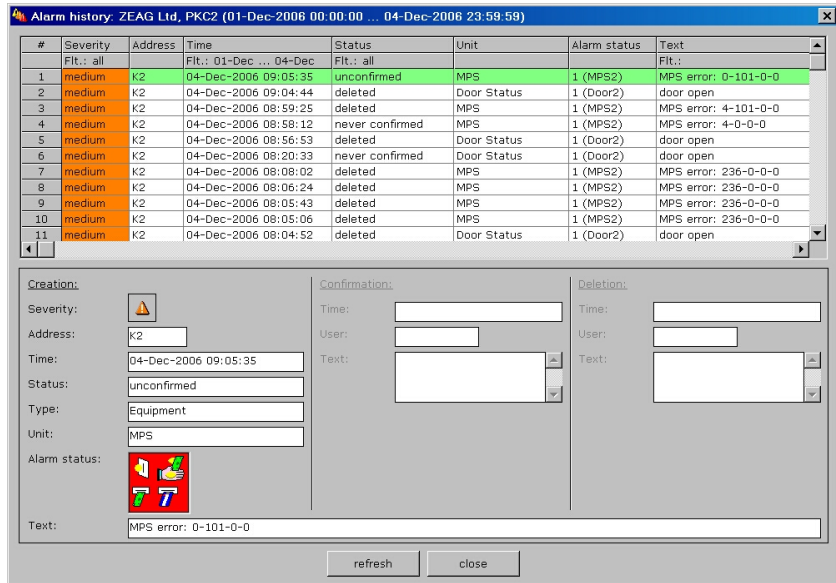
Alternatively with ZMS 3.3 and newer you can display the MPS error code history by means of the Alarms module “Alarm history” menu as follows:

1. Right click on the icon of the desired Automatic Pay Station (PKC2) and select menu Alarm history

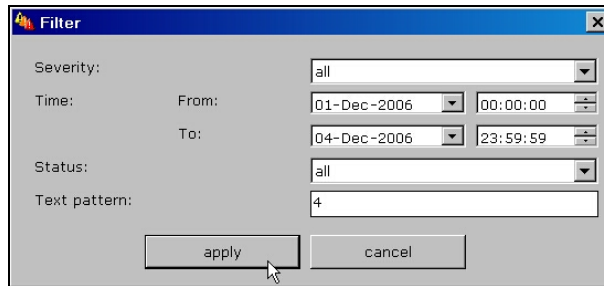


The alarms history of the selected station appears

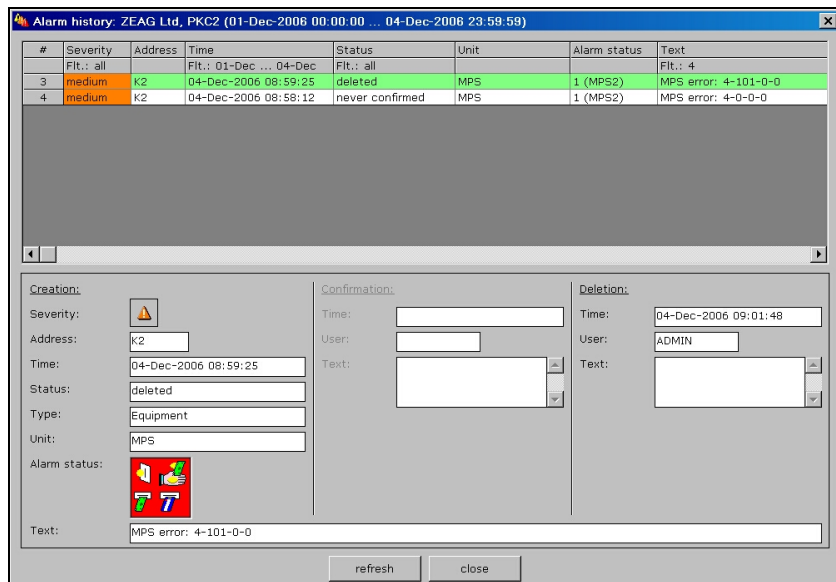
- Right click on the field **Fit** in the column **Text**:



- Insert the desired error number in the field "text pattern:" and click on **apply**



Only the MPS errors with number 4 of the selected time range are displayed



13.5.6 Error Code Table: Coin Acceptors CF560BDV/CF560/690/7000MDB

 Coin Acceptor Errors: **000**-000-000-000

ZEAG ERROR #	REASON FOR ERROR CF560BDV	REASON FOR ERROR CF560/690/7000MDB
01	No cashflow available	Error during CF690 initialisation
03	Coin safe full	Coin safe full
04	No coin safe installed	No coin safe detected
05	Coin slot path not open	Coin slot not open
06	BDV path not open	Port error MDB
11	No communication	No communication between PCU and CF690
12	BDV data lost	
13	Invalid telegram from BDV	
14	Invalid payment	
15	Invalid coin channel	
16	Communication error	
17	Communication error	
18	Communication error	
19	Communication error	
20	Communication error	
21	Communication error	
22	Communication error	
51		Escrow request – escrow lever activation has been detected.
52		Changer payout busy - The changer is busy activating payout devices.
53		No credit – A coin was validated but did not get to the place in the system when credit is given.
54		Defective tube sensor – The changer has detected one of the tube sensors behaving abnormally.
55		Double arrival – Two coins were detected too close together to validate either one.
56		Acceptor unplugged – The changer has detected that the acceptor has been removed.
57		Tube jam – A tube payout attempt has resulted in jammed condition.
58		ROM checksum error – The changers internal checksum does not match the calculated checksum.
59		Coin routing error – A coin has been validated, but did not follow the intended routing.
60		Change busy - The changer is busy and can not answer a detailed command right now.
61		Changer was reset – The changer has detected a reset condition and has returned to its power-on idle condition.
62		Coin jam – A coin(s) has jammed in the acceptance path.
83		Coin not accepted.
101		Coin jam tube 1
102		Coin jam tube 2
103		Coin jam tube 3
104		Coin jam tube 4
105		Coin jam tube 5 (CF7000)
201		c_mdb_err_invalid_tag: Debug Error for R&D
202		c_mdb_err_dmod_read: Debug Error for R&D
203		c_mdb_err_dmod_send: Debug Error for R&D
204		Too little return money paid out.
205		Coin low: pay correct amount
206		c_mdb_err_get_dmod_rd: Debug Error for R&D
207		c_mdb_err_get_dmod_sd: Debug Error for R&D
208		Overpayment on low coin ("low" coin level reached during first payout)



ZEAG ERROR #	REASON FOR ERROR CF560BDV	REASON FOR ERROR CF560/690/7000MDB
209		Overpayment 2 on low coin ("low" coin level reached during second payout)
211		Contents coin 1 below limit
212		Contents coin 2 below limit
213		Contents coin 3 below limit
214		Contents coin 4 below limit
215		Contents coin 5 below limit
216		Contents coin 6 below limit
217		Contents coin 7 below limit
218		Contents coin 9 below limit
219		Contents coin 9 below limit
220		Contents coin 10 below limit
221		Payout corrected, tube 1
222	Change between coin acceptor and hopper during coin dispensing / None or insufficient coins in hopper	Payout corrected, tube 2
223		Payout corrected, tube 3
224		Payout corrected, tube 4
231		Paid out too little, tube 1
232		Paid out too little, tube 2
233		Paid out too little, tube 3
234		Paid out too little, tube 4
241		Paid out too much, tube 1
242		Paid out too much, tube 2
243		Paid out too much, tube 3
244		Paid out too much, tube 4
251		The configured minimum number of coins in channel 1 is below 3.
252		The configured minimum number of coins in channel 2 is below 3.
253		The configured minimum number of coins in channel 3 is below 3.
254		The configured minimum number of coins in channel 4 is below 3.
255		The configured minimum number of coins in channel 5 is below 3. (CF7000)
261		The configured minimum number of coins in channel 1 is above 15.
262		The configured minimum number of coins in channel 2 is above 15
263		The configured minimum number of coins in channel 3 is above 15.
264		The configured minimum number of coins in channel 4 is above 15.
265		The configured minimum number of coins in channel 5 is above 15. (CF7000)
333/444	Warning signal (not relevant, no error)	

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Note: In certain cases it can happen that internal CF560 BDV/MDB error messages are active (CF560 internal addresses 340 to 347) which can not be displayed/reset via Zeag pocket terminal. A Route Alpha 250 terminal is needed therefore. For further details please refer to section "Money Processing Units" in this Orion Service Manual.

13.5.7 Error Code Table: Coin Acceptor CF9528 (ccTalk, RCU5 & RCU6)

 Coin Acceptor Errors: **000**-000-000-000

ZEAG ERROR #	ERROR NAME RCU5 & RCU6	ERROR	DESCRIPTION	COIN REJECTED?
001	RCU low coin indicator (RCU Error)			
003	Coin safe full (RCU Error)			
004	No coin safe or RCU no communication (RCU Error)			
005	Coin slot path obstructed (RCU Error)			
006	RCU path obstructed (RCU Error)			
011	No communication (RCU Error)			
100		Null event (no error)		No
101	c_mei_err_reject	Reject coin	A coin was inserted which did not match any of the programmed types. The coin is returned to the customer and no credit is given.	Yes – by definition
102	c_mei_err_inhib	Inhibited coin	A coin was inserted which did match a programmed window type but was prevented from accepting by the inhibit register. The inhibit register can be controlled serially but may also be linked to external DIL switches.	Yes
103	c_mei_err_multi	Multiple window	A coin was inserted which matched more than one enabled window type. This coin was rejected as the credit code was indeterminate.	Yes
104	c_mei_err_wakeup	Wake-up timeout	A coin acceptor fitted with a wake-up sensor picked up a coin entering the acceptor but it was not seen subsequently in the validation area. Possible coin jam.	Possible
105	c_mei_err_validt	Validation timeout	A coin was detected entering the validation area but failed to leave it. Possible coin jam.	Possible
106	c_mei_err_sensort	Credit sensor timeout	A coin was validated as true but never made it to the post-gate credit sensor. Possible coin jam.	Possible
107	c_mei_err_sortert	Sorter opto timeout	A coin was sent into the sorter / diverter but was not seen coming out. Possible coin jam.	No
108	c_mei_err_2coins	2nd close coin error	A coin was inserted too close to the one in front. One or both coins will have rejected.	Yes – 1 or more
109	c_mei_err_gate	Accept gate not ready	A coin was inserted while the accept gate for the coin in front was still operating. Coins have been inserted too quickly.	Yes
110	c_mei_err_sensor	Credit sensor not ready	A coin was still over the credit sensor when another coin was ready to accept. Coins have been inserted too quickly.	Yes
111	c_mei_err_sorter	Sorter not ready	A coin was inserted while the sorter flaps for the coin in front were still operating. Coins have been inserted too quickly.	Yes
112	c_mei_err_noclear	Reject coin not cleared	A coin was inserted before a previously rejected coin had time to clear the coin acceptor. Coins have been inserted too quickly.	Yes
113	c_mei_err_valid	Validation sensor not ready	The validator inductive sensors were not ready for coin validation. Possible fault developing.	Yes
114	c_mei_err_credblock	Credit sensor blocked	There is a permanent blockage at the credit sensor. The coin acceptor will not accept any more coins.	Yes
115	c_mei_err_sortblock	Sorter opto blocked	There is a permanent blockage at the sorter exit sensor. The coin acceptor will not accept any more coins.	Yes
116	c_mei_err_credit	Credit sequence error	A coin or object was detected going backwards through a directional credit sensor. Possible fraud attempt.	No
117	c_mei_err_coinback	Coin going backwards	A coin was detected going backwards through the coin acceptor. Possible fraud attempt.	No

ZEAG ERROR #	ERROR NAME RCU5 & RCU6	ERROR	DESCRIPTION	COIN REJECTED?
118	c_mei_err_coinfast	Coin too fast (over credit sensor)	A coin was timed going through the credit sensor and was too fast. Possible fraud attempt.	No
119	c_mei_err_coinslow	Coin too slow (over credit sensor)	A coin was timed going through the credit sensor and was too slow. Possible fraud attempt.	No
120	c_mei_err_cos	C.O.S. mechanism activated (coin-on-string)	A specific sensor for detecting a "coin on string" was activated. Possible fraud attempt.	No
121	c_mei_err_dcet	DCE opto timeout	A coin acceptor fitted with a Dual Coin Entry chute saw a coin or token which was not seen subsequently in the validation area. Possible coin jam.	Possible
122	c_mei_err_dce	DCE opto not seen	A coin acceptor fitted with a Dual Coin Entry chute saw a coin which was not seen previously by the chute sensor. Possible fraud attempt.	Yes
123	c_mei_err_crederarly	Credit sensor reached too early	A coin was timed from the end of the validation area to the post-gate credit sensor. It arrived too early. Possible fraud attempt.	No
124	c_mei_err_rejectcoin	Reject coin (repeated sequential trip)	A coin was rejected N times in succession with no intervening true coins. Statistically unlikely if N greater than or equal to 5. Possible fraud attempt.	Yes
125	c_mei_err_rejectslug	Reject slug	A coin was rejected but was identified as a known slug type – this may be a pre-programmed fraud coin or a known fraud material.	Yes
126	c_mei_err_rejectblock	Reject sensor blocked	There is a permanent blockage at the reject sensor. The coin acceptor will not accept any more coins. Not all coin acceptors have a reject sensor.	No
127	c_mei_err_gameover	Games overload	Totalizer mode: A game value was set too low – possibly zero. This is a product configuration error.	No
128	c_mei_err_pulsex	Max. coin meter pulses exceeded	Totalizer mode: A meter value was set too low – possibly zero. This is a product configuration error.	No
204	c_hgv_err_calc return		Reserved for future use.	
205	c_hgv_low_coin		Reserved for future use.	
228	c_mei_err_coin1	Inhibited coin (Type 1)	A true coin (type 1, coin in position 1) was inserted but was prevented from accepting by the inhibit register.	Yes
229 ... 258	c_mei_err_coinn	Inhibited coin (Type n)	A true coin (type n, coin in position n) was inserted but was prevented from accepting by the inhibit register.	Yes
259	c_mei_err_coin32	Inhibited coin (Type 32)	A true coin (type 32, coin in position 32) was inserted but was prevented from accepting by the inhibit register.	Yes
353	c_mei_err_dbl	Data block request (note α)	A 'not yet used' mechanism for a coin acceptor to request attention from the host machine. Perhaps it needs some data from the host machine or another peripheral.	No
354	c_mei_err_flightdeck	Coin return mechanism activated (Flight deck open)	An attempt to clear a coin jam by opening the flight deck was detected. The coin acceptor cannot operate until the flight deck is closed.	No
355	c_mei_err_unknown	Unspecified alarm code	Any alarm code which does not fit into the above categories.	No

note α : special signaling mechanism to support slave requests for data.

13.5.8 Error Code Table: Coin Acceptor RS20 (Option)

 Coin Acceptor Errors: **000**-000-000-000

ZEAG ERROR #	REASON FOR ERROR Coin Acceptor RS20	TYPE OF ERROR
01	No coin-acceptor	COMMON ERROR
02	ELCO-error, can be recovered by software	COMMON ERROR
03	Coin-safe full	COMMON ERROR
04	No coin-safe inserted or entry-slot not open (key)	COMMON ERROR
05	Error coin acceptor ID (check CPU E-prom)	COMMON ERROR
10	Not defined error	PROTOCOL ERROR
11	Communication error	PROTOCOL ERROR
12	Illegal status for this command	PROTOCOL ERROR
13	Unknown telegram command	PROTOCOL ERROR
20	Not defined error	DRUM ERROR
21	Motor doesn't start in accept-direction	DRUM ERROR
22	Motor blocked in accept-direction	DRUM ERROR
25	Motor doesn't start in dispense-direction	DRUM ERROR
26	Motor blocked in dispense-direction	DRUM ERROR
28	Coin ready in first drum-position	DRUM ERROR
29	Motor doesn't start in dispense-direction	DRUM ERROR
30	Motor blocked in dispense-direction	DRUM ERROR
33	Drum not present	DRUM ERROR
34	Drum not initialized	DRUM ERROR
35	Fatal drum error	DRUM ERROR
40	Not defined error	BUCO ERROR
41	Fatal buco-error	BUCO ERROR
42	Coin sensor error	BUCO ERROR
43	Buco blocked	BUCO ERROR
50	Not defined error	CASHBOX ERROR
51	Coin sensor error	CASHBOX ERROR
60	Not defined error	COIN-CHECKER OR DIAMETER-CHECKER
61	Communication error RS20 and diameter-checker	COIN-CHECKER OR DIAMETER-CHECKER
62	Communication error diameter-checker and RS20	COIN-CHECKER OR DIAMETER-CHECKER
63	Data-error in EEPROM of coin-checker	COIN-CHECKER OR DIAMETER-CHECKER
64	Data-error RS20-controller	COIN-CHECKER OR DIAMETER-CHECKER
70-77		COIN-CHECKER OR DIAMETER-CHECKER
70-85		COIN-CHECKER OR DIAMETER-CHECKER
91-94	Error of coin-checker or diameter-checker	COIN-CHECKER OR DIAMETER-CHECKER
100-102		COIN-CHECKER OR DIAMETER-CHECKER
110-126		COIN-CHECKER OR DIAMETER-CHECKER
130-137	Error of alloy-checker or coin-sorter	COIN-CHECKER OR DIAMETER-CHECKER

13.5.9 Error Code Table: Note Acceptor BNA5X

Bank Note Acceptor Errors: 000-**000**-000-000

Note: The internal BNA ERROR #, shown in the second column in the table below, cannot be displayed on the Pocket Terminal or the Alarms module.

ZEAG ERROR #	BNA ERROR #	ASSEMBLY CONCERNED Note Acceptor BNA5X	REASON FOR ERROR
09	--	Banknote safe	full (parameters)
10	--	Banknote safe	missing
11*	--	Data	no link to data module
12*	--	Data	BNA reset not possible
13*	--	Data	no ID received
14*	--	Data	no configuration found
15	--	Data	data module full
16	--	Data	no response
17	--	Data	unknown error
18*	--	Data	no changing to „slave mode“
19*	--	Data	Acceptor reports unknown order
20*	--	Data	Command not in synchronization to sequence
50	00	General Error	OK
51	R1	General Error	RESET
52	Ba	Inlet light barrier left	Current too low
53	BA	Inlet light barrier left	Current too high
54	Bb	Inlet light barrier right	Current too low
55	BB	Inlet light barrier right	Current too high
56	Bc	Light barrier „length“	Current too low
57	BC	Light barrier „length“	Current too high
(58)	C1	Banknote safe	missing
59	C2	Banknote safe	Full detector faulty
60	C3	Banknote safe	full
61	C4	Banknote safe	exchanged or memory faulty
62	D1	Mech. inlet flap detector	faulty
63	D2	Mech. inlet flap detector	does not lift up
64	D3	Mech. outlet flap detector	faulty
65	D4	Mech. outlet flap detector	does not lift up
66	D5	Mech. encashment diverter	faulty
67	D6	Mech. encashment diverter	does not lift up
68	D7	Mech. encashment detector	faulty
69	D8	Mech. encashment detector	does not lift up
70	D9	Mech. escrow diverter detector	faulty
71	DA	Mech. escrow diverter detector	does not lift up
72	DB	Mech. escrow diverter end-of-travel	faulty
73	DC	Mech. escrow diverter end-of-travel	does not lift up
74	DD	Mech. drum detector	faulty
75	DE	Mech. drum detector	Drum does not run
76	E0	Electronics	Hardware not compatible
77	E1	Electronics	EPROM faulty
78	E2	Electronics	RAM faulty
79	E3	Electronics	Data acquisition system faulty
80	E4	Electronics	Battery voltage faulty
81	E5	Electronics	Noise on measures
82	E6	Electronics	-15V too low
83	E7	Electronics	-15V too high
84	E8	Electronics	+15V too low
85	E9	Electronics	+15V too high
86	Ha	Head 1, LED 1 green	Current too low
87	HA	Head 1, LED 1 green	Current too high
88	Hb	Head 1, LED 2 green	Current too low
89	HB	Head 1, LED 2 green	Current too high

ZEAG ERROR #	BNA ERROR #	ASSEMBLY CONCERNED Note Acceptor BNA5X	REASON FOR ERROR
90	Hc	Head 1, LED 1 red	Current too low
91	HC	Head 1, LED 1 red	Current too high
92	Hd	Head 1, LED 2 red	Current too low
93	HD	Head 1, LED 2 red	Current too high
94	He	Head 1, LED 1 infrared	Current too low
95	HE	Head 1, LED 1 infrared	Current too high
96	Hf	Head 1, LED 2 infrared	Current too low
97	HF	Head 1, LED 2 infrared	Current too high
98	Hg	Head 2, LED 1 green	Current too low
99	HG	Head 2, LED 1 green	Current too high
100	Hh	Head 2, LED 2 green	Current too low
101	HH	Head 2, LED 2 green	Current too high
102	Hi	Head 2, LED 1 red	Current too low
103	HI	Head 2, LED 1 red	Current too high
104	Hj	Head 2, LED 2 red	Current too low
105	HJ	Head 2, LED 2 red	Current too high
106	Hk	Head 2, LED 1 infrared	Current too low
107	HK	Head 2, LED 1 infrared	Current too high
108	HI	Head 2, LED 2 infrared	Current too low
109	HL	Head 2, LED 2 infrared	Current too high
110	Hm	Head 3, LED 1 green	Current too low
111	HM	Head 3, LED 1 green	Current too high
112	Hn	Head 3, LED 2 green	Current too low
113	HN	Head 3, LED 2 green	Current too high
114	Ho	Head 3, LED 1 red	Current too low
115	HO	Head 3, LED 1 red	Current too high
116	Hp	Head 3, LED 2 red	Current too low
117	HP	Head 3, LED 2 red	Current too high
118	Hq	Head 3, LED 1 infrared	Current too low
119	HQ	Head 3, LED 1 infrared	Current too high
120	Hr	Head 3, LED 2 infrared	Current too low
121	HR	Head 3, LED 2 infrared	Current too high
122	Hs	Head 4, LED 1 green	Current too low
123	HS	Head 4, LED 1 green	Current too high
124	Ht	Head 4, LED 2 green	Current too low
125	HT	Head 4, LED 2 green	Current too high
126	Hu	Head 4, LED 1 red	Current too low
127	HU	Head 4, LED 1 red	Current too high
128	Hv	Head 4, LED 2 red	Current too low
129	HV	Head 4, LED 2 red	Current too high
130	Hw	Head 4, LED 1 infrared	Current too low
131	HW	Head 4, LED 1 infrared	Current too high
132	Hx	Head 4, LED 2 infrared	Current too low
133	HX	Head 4, LED 2 infrared	Current too high
134	M1	Transport	blocked
135	M2	Transport	Speed too low
136	P1	Piston	Detector faulty
137	P2	Piston	blocked
138	U1	Data	corrupted
139	U2	Data	Length not calibrated
140	U3	Data	No banknote-way can be used
999*	--	Data	no communication

* = BNA5X Reset necessary if this error appears (PO: E / 7)

13.5.10 Error Code Table: Note Acceptors CashCode MFL-0400 and B2B

Bank Note Acceptor Errors: 000-**000**-000-000

Note: The internal HEX ERROR #, shown in below tables, cannot be displayed on the Pocket Terminal.

Error codes >200 and >300 in different Orion peripheral software versions:

Due to the integration of the Bill-to-Bill in Orion peripheral software version V2.18, the error codes >200 used in software versions before V2.18 shifted to >300 in version V2.19. See below table.

The codes (warnings) are applicable for both the MFL and the Bill-to-Bill.

<u>Orion V2.17 and previous</u>		<u>Orion V2.19</u>		REASON FOR ERROR MFL-0400 and Bill-to-Bill
ZEAG ERROR #	HEX ERROR #	ZEAG ERROR #	HEX ERROR #	
201	0xC9	301	0x12D	Invalid tag
202	0xCA	302	0x12E	Error reading data module (warning)
203	0xCB	303	0x12F	Error writing data module (warning)
206	0xCE	306	0x132	Error accessing data module by reading (warning)
207	0xCF	307	0x133	Error accessing data module by writing (warning)
210	0xD2	310	0x134	Error no channel (warning)

In version **V2.18** there is a double allocation of the codes: A pending code between 201 and 210 can point to either the one or the other cause.

<u>Orion V2.18</u>			
ZEAG ERROR #	HEX ERROR #	REASON FOR ERROR from software	REASON FOR ERROR (2) MFL-0400 and Bill-to-Bill
201	0xC9	Invalid tag	Drum Initial location failed
202	0xCA	Error reading data module (warning)	Upper sensor failed
203	0xCB	Error writing data module (warning)	Lower sensor failed
206	0xCE	Error accessing data module by reading (warning)	Exit sensor failed
207	0xCF	Error accessing data module by writing (warning)	Drum motor obturator failed
208	0xD0		Shutter sensor failed
209	0xD1		Shutter motor obturator failed
210	0xD2	Error no channel (warning)	Keyboard failed

Common error codes CashCode MFL-0400 and Bill-to-Bill:

ZEAG ERROR #	HEX ERROR #	ERROR NAME	REASON FOR ERROR MFL-0400 and Bill-to-Bill
0	0x00	CC_NET_POWER_BILL_TRAN	second byte. after power up, banknote in transport section
1	0x01	C_CASHCODE_ERR_INIT	Error initialization
2	0x02	C_CASHCODE_ERR_DMOD	Error data module
9	0x09		Note safe full
10	0x0A		No safe
11	0x0B		Communication error between MFL-0400 and PCU; occurs if device does not respond within 15 sec.
12	0x0C		Error pay out; can occur during payout if there is an error in the device
13	0x0D		Error pay out; can occur during payout if the device is configured wrongly
14	0x0E		Timeout configuring cassette; no feedback from device after a configuration command (occurs only after a re-configuration)
15	0x0F		Timeout emptying cassette; No feedback from device after an unload command during a re-configuration
16	0x10	CC_NET_POWER_UP	Timeout payout; can occur during a payout when payout is not confirmed
17	0x11	CC_NET_POWER_BILL	Timeout emptying 1 cassette; no feedback from device after a SetCassette command, only on re-configuration
18	0x12	CC_NET_POWER_POSI	Timeout closing note system; no feedback from device after a stop of an accept command, can occur at the end of a payment
19	0x13	CC_NET_INITIALIZE	No bills; can occur during a payout when the device does not dispense any bills
20	0x14	CC_NET_IDLING	Error payout 1; can occur during a payout when the device sends a payout error
21	0x15	CC_NET_ACCEPTING	scanning a banknote
23	0x17	CC_NET_STACKING	stacking a banknote
24	0x18	CC_NET_RETURNING	returning a banknote
25	0x19	CC_NET_DISABLED	disabled by the controller
26	0x1A	CC_NET_HOLDING	banknote is in escrow
27	0x1A	CC_NET_DEVICEBUSY	device is busy
28	0x1C	CC_NET_REJECT_BILL	banknote is rejected, follows a second byte
48	0x30	CC_NET_INVALID_COMMAND	command from controller not valid
65	0x41	CC_NET_DROP_CASSETTE_FULL	cassette full condition
66	0x42	CC_NET_DROP_CASSETTE_OUT	drop cassette out of position
67	0x43	CC_NET_BILL_VALIDATER_JAM	banknotes are jammed in acceptance path
68	0x44	CC_NET_CASSETTE_JAM	banknote jammed in drop cassette
69	0x45	CC_NET_CHEATED	manipulation detected
70	0x46	CC_NET_PAUSE	banknote inserted if last is still not stacked

ZEAG ERROR #	HEX ERROR #	ERROR NAME	REASON FOR ERROR MFL-0400 and Bill-to-Bill
71	0x47	CC_NET_GENERIC_FAILURE	indicates failure, followed by second byte
72	0x48	CC_NET_JAM_FAILURE	Bill to Bill jammed, followed by second byte
80	0x50	CC_NET_STACK_MOTOR_FAILURE	drop cassette motor failure
81	0x51	CC_NET_SPEED_MOTOR_FAILURE	transport motor speed out of range
82	0x52	CC_NET_TRANSPORT_MOTOR_FAILURE	transport motor failure
83	0x53	CC_NET_ALIGN_MOTOR_FAILURE	aligning motor failure
84	0x54	CC_NET_INITIAL_BOX_FAILURE	initial cassette status failure
85	0x55	CC_NET_OPTIC_CANAL_FAILURE	optic sensor failure
86	0x56	CC_NET_MAGNETIC_MOTOR_FAILURE	inductive sensor failure
87	0x57	CC_NET_CASSETTE1_MOTOR_FAILURE	recycling cassette 1 motor failure
88	0x58	CC_NET_CASSETTE2_MOTOR_FAILURE	recycling cassette 2 motor failure
89	0x59	CC_NET_CASSETTE3_MOTOR_FAILURE	recycling cassette 3 motor failure
90	0x5A	CC_NET_BILLTOBILL_MOTOR_FAILURE	one of Bill to Bill transport motor failure
91	0x5B	CC_NET_SWITCH_MOTOR1_FAILURE	switch motor 1 failure
92	0x5C	CC_NET_SWITCH_MOTOR2_FAILURE	switch motor 2 failure
93	0x5D	CC_NET_DISPENSE_MOTOR1_FAILURE	dispensing motor 1 failure
94	0x5E	CC_NET_DISPENSE_MOTOR2_FAILURE	dispensing motor 2 failure
95	0x5F	CC_NET_CAPACITANCE_FAILURE	capacitance sensor failed to respond
96	0x60	CC_NET_REJECT_INSERTION	insertion error
97	0x61	CC_NET_REJECT_MAGNETIC	magnetic error
98	0x62	CC_NET_REJECT_REMAIN	banknote remains in head, new banknote rejected
99	0x63	CC_NET_REJECT_MULTIPLYING	multiplying error
100	0x64	CC_NET_REJECT_CONVEYING	conveying error
101	0x65	CC_NET_REJECT_IDENTIFICATION	identification error
102	0x66	CC_NET_REJECT_VERIFICATION	verification error
103	0x67	CC_NET_REJECT_OPTICAL	optical error
104	0x68	CC_NET_REJECT_DENOMINATION	denomination error
105	0x69	CC_NET_REJECT_CAPACITANCE	capacitance error
106	0x6A	CC_NET_REJECT_OPERATION	operation error
108	0x6C	CC_NET_REJECT_LENGTH	length error
112	0x70	CC_NET_CASSETTE1_JAMMED	banknote jammed recycling cassette 1
113	0x71	CC_NET_CASSETTE2_JAMMED	banknote jammed recycling cassette 2
114	0x72	CC_NET_CASSETTE3_JAMMED	banknote jammed recycling cassette 3
115	0x73	CC_NET_TRANSPORT_JAM	banknote jammed in transport path
116	0x74	CC_NET_SWITCH_JAM	banknote jammed in switch
117	0x75	CC_NET_DISPENSOR_JAM	banknote jammed in dispenser

Error codes CashCode Bill-to-Bill:

These error codes are implemented in Orion peripheral software version V2.18 and later.

ZEAG ERROR #	HEX ERROR #	REASON FOR ERROR Bill-to-Bill	DISPLAY
CENTRAL PROCESSOR ERRORS			
129	0x81	Error on the link with the external EEPROM – wire SDA.	ERROR -> LINK2
130	0x82	Error on the link with the external EEPROM – wire SCL.	ERROR -> LINK2
131	0x83	Error on the link with the Cassette#1(A).	ERROR -> LINK2
132	0x84	Error on the link with the Cassette#2(B).	ERROR -> LINK2
133	0x85	Error on the link with the Cassette#3(C).	ERROR -> LINK2
134	0x86	Error on the link with the Dispenser.	ERROR -> LINK2
135	0x87	Error on the link with the Cassette#1(A).	ERROR -> LINK2
136	0x88	Error on the link with the Cassette#2(B).	ERROR -> LINK2
137	0x89	Error on the link with the Cassette#3(C).	ERROR -> LINK2
138	0x8A	Error on the link with the Dispenser.	ERROR -> LINK2
139	0x8B	Reserved.	
140	0x8C	Reserved.	
141	0x8D	Incorrect CRC of the main program.	ERROR -> LINK2
142	0x8E	ACK signal is absent during exchange with clock	ERROR -> LINK2
143	0x8F	EEPROM exchange error	ERROR -> LINK2
144	0x90	Clock battery discharged	ERROR->TRANSPORT
145	0x91	Transport motor obturator failed	ERROR->TRANSPORT
146	0x92	It is impossible to support transport motor speed 300mm/Sec.	ERROR->TRANSPORT
147	0x93	One or some sensors of chassis upper tract overlapped	ERROR->TRANSPORT
148	0x94	One or some sensor of chassis lower tract overlapped	ERROR->TRANSPORT
149	0x95	All cassettes is absent	ERROR->TRANSPORT
150	0x96	Dispenser is absent	ERROR->TRANSPORT
151	0x97	Switch initialization error – step counter signal is absent	ERROR -> SWITCH
152	0x98	Switch initialization error – initial marker sensor signal is absent	ERROR -> SWITCH
153	0x99	Switch setting error – step counter signal is absent	ERROR -> SWITCH
CASSETTE #1(A) ERRORS			
161	0xA1	Entry sensor failed	ERROR->CASSETTE1
162	0xA2	Overflow sensor failed	ERROR->CASSETTE1
163	0xA3	Tape begin/end sensor failed	ERROR->CASSETTE1
164	0xA4	Tape obturator failed	ERROR->CASSETTE1
165	0xA5	It is impossible to support speed 300mm/Sec.	ERROR->CASSETTE1
166	0xA6	Bill jam sensor failed	ERROR->CASSETTE1
167	0xA7	EEPROM failed	ERROR->CASSETTE1
168	0xA8	Time out of bill entrance to entry sensor is exceeded.	ERROR->CASSETTE1
169	0xA9	Time out of bill exit from entry sensor is exceeded.	ERROR->CASSETTE1
170	0xAA	Time out of successful completion bill accepting is exceeded	ERROR->CASSETTE1
171	0xAB	Time out of successful completion bill giving out is exceeded	ERROR->CASSETTE1
172	0xAC	Bill jam sensor is cut in.	ERROR->CASSETTE1

ZEAG ERROR #	HEX ERROR #	REASON FOR ERROR Bill-to-Bill	DISPLAY
173	0xAD	Requested number of bills is not given out.	ERROR->CASSETTE1
CASSETTE #2(B) ERRORS			
174	0xAE	Entry sensor failed	ERROR->CASSETTE2
175	0xAF	Overflow sensor failed	ERROR->CASSETTE2
176	0xB0	Tape begin/end sensor failed	ERROR->CASSETTE2
177	0xB1	Tape obturator failed	ERROR->CASSETTE2
178	0xB2	It is impossible to support speed 300mm/Sec.	ERROR->CASSETTE2
179	0xB3	Bill jam sensor failed	ERROR->CASSETTE2
180	0xB4	EEPROM failed	ERROR->CASSETTE2
181	0xB5	Time out of bill entrance to entry sensor is exceeded.	ERROR->CASSETTE2
182	0xB6	Time out of bill exit from entry sensor is exceeded.	ERROR->CASSETTE2
183	0xB7	Time out of successful completion bill accepting is exceeded	ERROR->CASSETTE2
184	0xB8	Time out of successful completion bill giving out is exceeded	ERROR->CASSETTE2
185	0xB9	Bill jam sensor is cut in.	ERROR->CASSETTE2
186	0xBA	Requested number of bills is not given out.	ERROR->CASSETTE2
CASSETTE #3(C) ERRORS			
187	0xBB	Entry sensor failed	ERROR->CASSETTE3
188	0xBC	Overflow sensor failed	ERROR->CASSETTE3
189	0xBD	Tape begin/end sensor failed	ERROR->CASSETTE3
190	0xBE	Tape obturator failed	ERROR->CASSETTE3
191	0xBF	It is impossible to support speed 300mm/Sec.	ERROR->CASSETTE3
192	0xC0	Bill jam sensor failed	ERROR->CASSETTE3
193	0xC1	EEPROM failed	ERROR->CASSETTE3
194	0xC2	Time out of bill entrance to entry sensor is exceeded.	ERROR->CASSETTE3
195	0xC3	Time out of bill exit from entry sensor is exceeded.	ERROR->CASSETTE3
196	0xC4	Time out of successful completion bill accepting is exceeded	ERROR->CASSETTE3
197	0xC5	Time out of successful completion bill giving out is exceeded	ERROR->CASSETTE3
198	0xC6	Bill jam sensor is cut in.	ERROR->CASSETTE3
199	0xC7	Requested number of bills is not given out.	ERROR->CASSETTE3
DISPENSER ERRORS			
200	0xC8	Entry sensor failed	ERROR->DISPENSER
201	0xC9	Drum Initial location failed	ERROR->DISPENSER
202	0xCA	Upper sensor failed	ERROR->DISPENSER
203	0xCB	Lower sensor failed	ERROR->DISPENSER
206	0xCE	Exit sensor failed	ERROR->DISPENSER
207	0xCF	Drum motor obturator failed	ERROR->DISPENSER
208	0xD0	Shutter sensor failed	ERROR->DISPENSER
209	0xD1	Shutter motor obturator failed	ERROR->DISPENSER
210	0xD2	Keyboard failed	ERROR->DISPENSER
211	0xD3	It is impossible to support drum speed 300mm/Sec.	ERROR->DISPENSER
212	0xD4	Time out of bill entrance to entry sensor is exceeded	ERROR->DISPENSER
213	0xD5	Time out occurred with bills waiting for removal by customers.	ERROR->DISPENSER
214	0xD6	Time out of bill entrance to lower sensor is exceeded	ERROR->DISPENSER
215	0xD7	Time out of bill entrance to exit sensor is exceeded	ERROR->DISPENSER
216	0xD8	Time out of bill exit from lower sensor is exceeded	ERROR->DISPENSER

ZEAG ERROR #	HEX ERROR #	REASON FOR ERROR Bill-to-Bill	DISPLAY
217	0xD9	Time out of successful bill accepting is exceeded	ERROR->DISPENSER
218	0xDA	Time out of bill exit from entry sensor is exceeded	ERROR->DISPENSER
TRANSPORT MECHANISM ERRORS			
219	0xDB	Time out of bill entrance to chassis tract upper sensor is exceeded	JAM -> TRANSPORT
220	0xDC	Time out of bill exit from chassis tract lower sensor is exceeded	JAM -> TRANSPORT
221	0xDD	Time out of bill entrance to upper chassis tract middle sensor is exceeded	JAM -> TRANSPORT
222	0xDE	Time out of bill exit from upper chassis tract middle sensor is exceeded	JAM -> TRANSPORT
223	0xDF	Time out of bill entrance to upper chassis tract upper sensor is exceeded	JAM -> TRANSPORT
224	0xE0	Time out of bill exit from upper chassis tract upper sensor is exceeded	JAM -> TRANSPORT
225	0xE1	Time out of bill entrance to lower chassis tract lower sensor is exceeded	JAM -> TRANSPORT
226	0xE2	Time out of bill exit from lower chassis tract lower sensor is exceeded	JAM -> TRANSPORT
227	0xE3	Time out of bill entrance to lower chassis tract middle sensor is exceeded	JAM -> TRANSPORT
228	0xE4	Time out of bill exit from lower chassis tract middle sensor is exceeded	JAM -> TRANSPORT
229	0xE5	Time out of bill entrance to lower chassis tract upper sensor is exceeded	JAM -> TRANSPORT
230	0xE6	Time out of bill exit from lower chassis tract upper sensor is exceeded	JAM -> TRANSPORT
VALIDATOR HEAD LINK ERROR WITH CENTRAL PROCESSOR			
231	0xE7	I2C-bus error – start condition	ERROR -> LINK1
232	0xE8	I2C-bus error – writing initialization	ERROR -> LINK1
233	0xE9	I2C-bus error – reading initialization	ERROR -> LINK1
234	0xEA	I2C-bus error – byte writing	ERROR -> LINK1
235	0xEB	I2C-bus error – byte reading	ERROR -> LINK1
236	0xEC	CRC error	ERROR -> LINK1
237	0xED	I2C-bus error – time out of packet reading	ERROR -> LINK1
VALIDATOR HEAD LINK ERROR WITH DEVICES LOADING PROGRAM			
240	0xF0	Error of the bill stacking.	ERROR -> HV
241	0xF1	Optical sensors don't work.	ERROR -> HV
242	0xF2	Magnetic sensors don't work.	ERROR -> HV
243	0xF3	Capactive sensors don't work.	ERROR -> HV
244	0xF4	Stacker motor doesn't work.	ERROR -> HV
245	0xF5	Interlink with sensor boxes don't work.	ERROR -> HV
246	0xF6	Jam in the Validator Head.	ERROR -> HV
247	0xF7	Transport motor doesn't work.	ERROR -> HV
248	0xF8	Alignment motor doesn't work.	ERROR -> HV
249	0xF9	Boot-program of the chassis doesn't work.	ERROR -> HV
250	0xFA	Boot-program of the dispenser doesn't work.	ERROR -> HV
251	0xFB	Boot-program of the 1st cassette doesn't work.	ERROR -> HV
252	0xFC	Boot-program of the 2nd cassette doesn't work.	ERROR -> HV
253	0xFD	Boot-program of the 3rd cassette doesn't work.	ERROR -> HV
254	0xFE	Drop cassette is full.	ERROR -> HV

13.5.10.1 MFL-0400 Error Codes by Flashing LED

As described before the error codes of MFL-0400 and B2B are displayed on Pocket Terminal or ZMS. But in addition the flashing LED (see table below) on the MFL-0400 mouthpiece displays also the errors of the note acceptor (not possible with B2B).

Furthermore a LED flashing green on red is indicating a CashCode software update problem. In such a case please look up in the separate table in the Section "Money Processing Units".

Number of status light flashes	Error description	Remedy action
1x red on black	Banknote safe is removed from banknote acceptor.	Check if banknote safe is installed correctly
2x red on black	Wrong Sense-A-Click type or communication with Sense-A-Click failed.	1. Disconnect power from banknote acceptor. 2. Open validator head, check if Sense-A-Click modules are properly installed 3. Verify that Sense-A-Click modules correspond to the correct software type / version
3x red on black	Banknote safe is full.	Remove, empty and reinsert banknote safe
4x red on black	a) Mechanical jam in banknote safe	a) Remove banknote safe from holder and extract crumpled or jammed banknote
	b) Stacker motor failure	b) Turn power on and check if stacker motor rotates
5x red on black	Failure of dielectric capacitance sensors	1. Check if Sense-A-Click module corresponds to the correct software type / version. 2. Replace Sense-A-Click module.
6x red on black	Failure of optical sensors	1. Open validator head guide, clean optical sensors. 2. Remove Sense-A-Click module, check connectors. 3. Change Sense-A-Click module
7x red on black	Failure of magnetic sensors	1. Open validator head guide, clean inductive sensors 2. Remove lower Sense-A-Click module with inductive sensors and check connectors. 3. Change lower Sense-A-Click module
8x red on black	Failure of transporting motor	1. Open validator head guide, clean path 2. Close validator head guide 3. If validator does not start, turn off power, release validator head and check receiving path 4. Insert validator head and turn power on
9x red on black	Speed of transporting motor is too fast	Check power supply voltage.
10x red on black	Failure in alignment mechanism.	1. Open validator head guide, check to see if path is clean. 2. Close validator head. 3. Turn off power. 4. After five seconds, turn power on; the self-alignment mechanism will self-adjust.
11x red on black	Banknote pathway is not empty	Open receiving path and check that it is free from obstructions and clean.
12x red on black	Banknote jam in entry slot of banknote safe. No credit issued.	Remove banknote safe from banknote acceptor device and clear path.
13x red on black	Overload of transport motor.	Open validator head guide and check to see if path is free from obstructions and clean.

13.5.11 Error Code Table: Credit Card Reader UCD/ECV/CPM

 Credit Card Reader Errors: 000-000-**000**-000

ZEAG ERROR #	REASON FOR ERROR Credit Card/ECV/CPM READER	Remarks
0	No error	
1	Warning TPB responding	
2	Communication missing	
3	ECV hardware failing	
9	Card unreadable	
10	Indata error	
11	Card type not valid	
12	Invalid credit card number	
13	Date expired	
14	Card number in blacklist (local)	
15	Amount too high	
16	Amount too low	
17	Error processing card (local)	
18	Card number in blacklist (remote)	
19	Card rejected (local)	
20	Card rejected (remote)	
21	Date not yet valid	
22	Above max. limit	
23	Above daily card use money	
24	Above daily card use number	
25	Other error on authorizing card	
26	Error processing card (remote)	
27	Above floor-limit and host not available	
28	Host not available (in other cases)	
30	Parity error reading card	
31	Checksum error reading card	
32	Invalid authorization-request	
33	Other error on authorization-request	
34	Function aborted by operator using the 3C terminal keypad	
40	Indata error	
41	Card number error	
42	Amount error	
43	Time error	
44	TP disk error	
45	Disk full	
46	Other error on transaction-recording	
50	Bad time/date on start of payment-period	
51	Payment-period already started	
52	Other error on start of payment-period	
53	Undefined error on start of payment-period	
54	Bad time/date on end of payment-period	
55	Other error on end of payment-period	
56	Undefined error on end of payment-period	
60	Error low paper	
61	Credit too low	
62	Error communication to PM/ZMS	
63	Payment timeout on second CC	
94	Illegal message type reply	
95	Timeout clearing center	
96	Credit card module busy (too much online clearings)	
97	Credit card module out of service (error credit card task)	
98	UCD hardware error during CC payment (NAK received)	
99	Communication error (timeout during clearing)	

Remark: Readers with the ECV or CPM protocol are external readers that are used in place of the UCD for Credit Card reading.

13.5.12 Error Code Table: Cash Card Reader CH

Credit Card Reader Errors: 000-000-**000**-000

ZEAG ERROR #	REASON FOR ERROR Cash Card Reader CH (Switzerland)	Remarks
101	Amount exceeds the allowed maximum	Valid for Cash Card CH only
102	Stop key was pressed	Valid for Cash Card CH only
103	Payment interrupted due to card reader timeout	Valid for Cash Card CH only
104	Not enough money value on card	Valid for Cash Card CH only
105	Access to card reader not possible because clearing active	Valid for Cash Card CH only
106	Card reader is in service mode	Valid for Cash Card CH only
131	Transferring of statistics interrupted due to timeout	Valid for Cash Card CH only
149	Card reader was not in standard mode after payment	Valid for Cash Card CH only
150	Synchronization error in protocol	Valid for Cash Card CH only
161	No internal connection to data module	Valid for Cash Card CH only
162	No answer received within timeout	Valid for Cash Card CH only
163	No transmission possible in this status	Valid for Cash Card CH only
164	Invalid answer received	Valid for Cash Card CH only
165	Initialization was not possible	Valid for Cash Card CH only
171	Card reader requires manual intervention	Valid for Cash Card CH only
172	Invalid data in one of the fields	Valid for Cash Card CH only
173	Invalid data format	Valid for Cash Card CH only
174	Invalid length of the command	Valid for Cash Card CH only
196	No initialization possible in this status	Valid for Cash Card CH only
197	It was not possible to open the RS232 port	Valid for Cash Card CH only
198	NAK received	Valid for Cash Card CH only
199	No communication to card reader	Valid for Cash Card CH only

13.5.13 Error Code Table: Credit Card Reader EFTPOS

Credit Card Reader Errors: 000-000-**000**-000

ZEAG ERROR #	REASON FOR ERROR Credit Card Reader EFTPOS	Remarks
4	Error initializing	
5	Timeout; no answer	
98	Zeag internal transfer error	
100...200	Warnings (no actual errors)	
201	Zeag internal error: invalid command	
202	Zeag internal error: transfer error read	
203	Zeag internal error: transfer error send	
206	Zeag internal error: access error read	
207	Zeag internal error: access error send	
210	Zeag internal error: no channel	

13.5.14 Error Code Table: Card Reader Thales EMV and Campus

See possible error codes and descriptions as follows:

Device	Offset	Range
Cashless 1	100	100 – 399
Cashless 2	500	500 – 799 For future use only

Credit Card Reader Errors: 000-000-**000**-000

Error Code	Description
0	Device has just been reset
1	Payment declined due to insufficient funds
2	Card has been removed
3	Vend failed
4 – 15	-
16	Transient media error
17	Invalid payment media
18	Tamper error
19	Transient manufacturer defined error
20	Non transient communication error
21	Reader requires service
22	-
23	Non transient manufacturer defined error
24	Reader failure
25	Persistent communication error
26	Payment media jammed
27	Manufacturer defined error
28	Refund error
29	-
30	-
31	-

13.5.15 Error Code Table: Coin Return Device Hopper SH-400 (RCU 5&6)

Money Return Device Errors: 000-000-000-**000**

ZEAG ERROR #	REASON FOR ERROR SH-400 (RCU5 & RCU6)
100	Hopper 1 empty (warning)
101	Hopper 1 low (warning)
102	Hopper 1 near full (warning)
103	Hopper 1 full (warning)
104	Hopper 1: Current exceeded
105	Hopper 1: Coin jam
106	Hopper 1: Fraud error
107	Hopper 1: Short circuit
108	Hopper 1: Blocked
109	Hopper 1: Power up
110	Hopper 1: Error disable
111	Hopper 1: No communication
112	Hopper 1: Correct counter too high
113	Hopper 1: Correct counter too low

300	Hopper 3 empty (warning)
301	Hopper 3 low (warning)
302	Hopper 3 near full (warning)
303	Hopper 3 full (warning)
304	Hopper 3: Current exceeded
305	Hopper 3: Coin jam
306	Hopper 3: Fraud error
307	Hopper 3: Short circuit
308	Hopper 3: Blocked
309	Hopper 3: Power up
310	Hopper 3: Error disable
311	Hopper 3: No communication
312	Hopper 3: Correct counter too high
313	Hopper 3: Correct counter too low

ZEAG ERROR #	REASON FOR ERROR SH-400 (RCU5 & RCU6)
200	Hopper 2 empty (warning)
201	Hopper 2 low (warning)
202	Hopper 2 near full (warning)
203	Hopper 2 full (warning)
204	Hopper 2: Current exceeded
205	Hopper 2: Coin jam
206	Hopper 2: Fraud error
207	Hopper 2: Short circuit
208	Hopper 2: Blocked
209	Hopper 2: Power up
210	Hopper 2: Error disable
211	Hopper 2: No communication
212	Hopper 2: Correct counter too high
213	Hopper 2: Correct counter too low

400	Hopper 4 empty (warning)
401	Hopper 4 low (warning)
402	Hopper 4 near full (warning)
403	Hopper 4 full (warning)
404	Hopper 4: Current exceeded
405	Hopper 4: Coin jam
406	Hopper 4: Fraud error
407	Hopper 4: Short circuit
408	Hopper 4: Blocked
409	Hopper 4: Power up
410	Hopper 4: Error disable
411	Hopper 4: No communication
412	Hopper 4: Correct counter too high
413	Hopper 4: Correct counter too low

ZEAG ERROR #	REASON FOR ERROR SH-400 (RCU5 & RCU6)
500	Hopper 5 empty (warning)
501	Hopper 5 low (warning)
502	Hopper 5 near full (warning)
503	Hopper 5 full (warning)
504	Hopper 5: Current exceeded
505	Hopper 5: Coin jam
506	Hopper 5: Fraud error
507	Hopper 5: Short circuit
508	Hopper 5: Blocked
509	Hopper 5: Power up
510	Hopper 5: Error disable
511	Hopper 5: No communication
512	Hopper 5: Correct counter too high
513	Hopper 5: Correct counter too low

631	Error Tag hopper 1
632	Error Tag hopper 2
633	Error Tag hopper 3
634	Error Tag hopper 4
635	Error Tag hopper 5
636	Error Tag hopper 6

ZEAG ERROR #	REASON FOR ERROR SH-400 (RCU6 only)
600	Hopper 6 empty (warning)
601	Hopper 6 low (warning)
602	Hopper 6 near full (warning)
603	Hopper 6 full (warning)
604	Hopper 6: Current exceeded
605	Hopper 6: Coin jam
606	Hopper 6: Fraud error
607	Hopper 6: Short circuit
608	Hopper 6: Blocked
609	Hopper 6: Power up
610	Hopper 6: Error disable
611	Hopper 6: No communication
612	Hopper 6: Correct counter too high
613	Hopper 6: Correct counter too low

13.5.16 Error Code Table: Coin Return Device Hopper Coin Control

Money Return Device Errors: 000-000-000-**000**

ZEAG ERROR #	REASON FOR ERROR HOPPER COIN CONTROL	REMARKS
100	Hopper 1 empty	
200	Hopper 2 empty	

13.5.17 Error Code Table: Note Return Device De La Rue

Money Return Device Errors: 000-000-000-**000**

ZEAG ERROR #	REASON FOR ERROR Note Return Device DE LA RUE	REMARKS
300	De La Rue 1 empty	
302	No communication De La Rue 1	
400	De La Rue 2 empty	
402	No communication De La Rue 2	
500	De La Rue 3 empty	
502	No communication De La Rue 3	

13.5.18 Error Code Table: Note Return Device Fujitsu F53

Money Return Device Errors: 000-000-000-**000**

Note: The internal F53 ERROR #, shown in the second column in the table below, cannot be displayed on the Pocket Terminal or the Alarms module. The corresponding Zeag ERROR #, shown in the first column, is displayed instead.

This internal F53 ERROR # will be displayed on the 7-segment display of the F53 main board. There it shown (use it for service purposes only) as a 4 digits long Hex code number (the column below shows only the first two digits).

Due to the limited space between APS side wall and the F53 the 7-segment display can be seen only while the F53 is removed from its socket and turned.

ZEAG ERROR #	F53 ERROR #	REASON FOR ERROR Note Return Device Fujitsu F53	REMARKS
1	-	Error initialization	
11	-	No communication with F53 unit	
801	-	Box 1 (top) empty	
802	-	Box 2 (middle) empty	
803	-	Box 3 (bottom) empty	
811	-	Box 1 (top) low	
812	-	Box 2 (middle) low	
813	-	Box 3 (bottom) low	
900	-	internal F53 error	
Cassette Error			
902	10	Box 1 (top) not present	Appears only during dispensing
903	18	Box 1 (top) pickup error	
904	20	Box 2 (middle) not present	Appears only during dispensing
905	28	Box 2 (middle) pickup error	
906	30	Box 3 (bottom) not present	Appears only during dispensing
907	38	Box 3 (bottom) pickup error	
Bill pool section			
908	50	home position error	Not used in Orion XR
909	51	upper position error	Not used in Orion XR
910	52	no bill in poll section	Not used in Orion XR
Transfer section			
911	70	Bill stocked during transportation	
912	76	Bill manually pulling out during transportaion	
913	78	Bill jammed after leaving cassettes	Between Cassettes and Sensor DFSS
914	7A	Bill jammed in upper part of the F53	Between DFSS and BPS
915	7B	Bill jammed during dispensing in Rejection Tray or Rejection-Sensor turned on when there was no bill	
916	7C	Bill jam during dispensing in pool section	Not used in Orion XR
917	7D	EJSF sensor Error during dispensing in poos section	Not used in Orion XR
Bill check error			
918	82	Bill length error: Bill to long	
919	83	Bill length error: Bill to short	
920	84	Bill thickness error: Thickness abnormal	
921	85	Bill was dispensed from wrong cassette	Bills were feed from a cassette that is not specified during count operation.
922	86	abnormal spacing	Spacing between picking bills is less than the specified value
923	88	Count mismatch	There are not the same Nr. of bills dispensed as requested
924	89	Potentiometer error	Calibration issue
Ejection			
925	A0	front shutter option is no setup	Hardware Error
926	A1	front shutter option error	Hardware Error
927	A2	front shutter close error	Hardware Error
928	A4	front no bills in the ejection opening	Hardware Error

ZEAG ERROR #	F53 ERROR #	REASON FOR ERROR Note Return Device Fujitsu F53	REMARKS
929	A7	front open shutter	Hardware Error
930	A8	rear shutter option is no setup	Hardware Error
931	A9	rear shutter option error	Hardware Error
932	AA	rear shutter close error	Hardware Error
933	AC	rear no bills in the ejection opening	Hardware Error
934	AF	rear open shutter	Hardware Error
Rejection			
935	B5	Reject Box overfull	Reject Box was full
936	B8	front capture box option is no setup	Not used in Orion XR
937	B9	front capture box is not set	Not used in Orion XR
938	BA	front capture box overflow	Not used in Orion XR
939	BC	rear capture box option is no setup	Not used in Orion XR
940	BD	rear capture box is not set	Not used in Orion XR
941	BE	rear capture box overflow	Not used in Orion XR
Download error			
942	C0	sequence error	Illegal Command sent
943	C1	download error	Error during Downloading Firmware
944	C2	command received except RT,LD & LE	Error during Downloading Firmware
945	C3	download error	Error during Downloading Firmware
D-level error			
946	E0	ras command undefined	Undefined RAS command was executed
947	E1	parameter not registered	
948	E4	bill information not provided	Wrong Settings for Bill length or thickness
949	E5	specification error	Amount is not possible to dispense or max. count of bills to dispense reached.
950	E6	parameter ISO code error	Error in the ISO code of parameters, error during communication
951	E8	bill length/thickness error	Configured length or thickness of the bill is too high or too small
952	EA	parameter error	Parameter out of specification
953	EC	FS error	
954	EE	command format error	Command was sent in wrong format
955	EF	command execution impossible	
BD Controller			
956	F1	over current error	Over current of the pulse motor was detected. -> Stopped Motor
957	F2	option setup is unusual	Not used in Orion XR
958	F3	front option setup is unusual	Not used in Orion XR
959	F4	rear option setup is unusual	Not used in Orion XR
960	F6	log data checksum error	F53 Internal Log
961	F8	sensor error	General Sensor Error during initialisation
962		error illegal operation	
963		error power off	
996		Internal Communication timeout	
997		Invalid Command to F53 sent	
998		Invalid Command to F53 received	
999		Error from F53 not in list	

13.6 List of Warning Codes for Transaction 13

The table below is a list of transactions 13 that can be used by service engineers who wants to trouble shoot any warning codes on transaction level.

Note:

In addition to the listed transactions 13 also e.g. transactions 3 (out of order) and 50 (MPS errors) are sent in case of peripheral station errors. Further details regarding these transactions you can also find in the ZMS module “PMGTPParams” >= V3.3. There click on the menu button “Alarm definitions).

Code	Description Transaction 13
0	door (intercom button)
1	ticket low (on paystations) ticket low (NOT on paystations)
2	Paper low
3	out of paper
4	coin safe almost full
5	note safe almost full
6	Buco 1 empty
7	Buco 2 empty
8	Buco 1 almost empty
9	Buco 2 almost empty
34	Tag not in
35	Tag out of date
36	Tag invalid
38	barrier still open
39	barrier not closed
40	VIS theft response
41	return device 1 is low
42	return device 2 is low
43	return device 3 is low
44	return device 4 is low
45	return device 5 is low
46	VIS general error
47	VIS no answer in timeout
48	Tag: Error
49	Tag system: System down
50	Tag system: Reader error
51	RCU Jam Channel 1
52	RCU Jam Channel 2
53	RCU Jam Channel 3
54	RCU Jam Channel 4
55	RCU Jam Channel 5
56	Tag System: Command timeout
57	Tag System: Polling timeout
61	Hopper 1 empty
62	Hopper 2 empty
63	Hopper 3 empty
64	Hopper 4 empty
65	Hopper 5 empty
66	Hopper 6 empty
71	Hopper 1 almost full
72	Hopper 2 almost full
73	Hopper 3 almost full

Code	Description Transaction 13
74	Hopper 4 almost full
75	Hopper 5 almost full
76	Hopper 6 almost full
81	Hopper 1 full
82	Hopper 2 full
83	Hopper 3 full
84	Hopper 4 full
85	Hopper 5 full
86	Hopper 6 full
91	Hopper 1 broken
92	Hopper 2 broken
93	Hopper 3 broken
94	Hopper 4 broken
95	Hopper 5 broken
96	Hopper 6 broken
101	Hopper 1 overfull
102	Hopper 2 overfull
103	Hopper 3 overfull
104	Hopper 4 overfull
105	Hopper 5 overfull
106	Hopper 6 overfull
111	Error Mars to Hopper 1
112	Error Mars to Hopper 2
113	Error Mars to Hopper 3
114	Error Mars to Hopper 4
115	Error Mars to Hopper 5
116	Error Mars to Hopper 6
121	Error Mars to Safe 1
122	Error Mars to Safe 2
123	Error Mars to Safe 3
124	Error Mars to Safe 4
125	Error Mars to Safe 5
126	Error Mars to Safe 6
131	No com to Hopper 1
132	No com to Hopper 2
133	No com to Hopper 3
134	No com to Hopper 4
135	No com to Hopper 5
136	No com to Hopper 6
141	Wrong event counter Hopper 1
142	Wrong event counter Hopper 2
143	Wrong event counter Hopper 3



Code	Description Transaction 13
144	Wrong event counter Hopper 4
145	Wrong event counter Hopper 5
146	Wrong event counter Hopper 6
151	Mars separator 1 wrong channel
152	Mars separator 2 wrong channel
153	Mars separator 3 wrong channel
154	Mars separator 4 wrong channel
155	Mars separator 5 wrong channel
156	Mars separator 6 wrong channel
161	Hopper 1 not ready to dispense
162	Hopper 2 not ready to dispense
163	Hopper 3 not ready to dispense
164	Hopper 4 not ready to dispense
165	Hopper 5 not ready to dispense
166	Hopper 6 not ready to dispense
170	Reboot Mars
171	Reboot Hopper 1
172	Reboot Hopper 2
173	Reboot Hopper 3
174	Reboot Hopper 4
175	Reboot Hopper 5
176	Reboot Hopper 6
181	Error dispense Hopper 1
182	Error dispense Hopper 2
183	Error dispense Hopper 3
184	Error dispense Hopper 4
185	Error dispense Hopper 5
186	Error dispense Hopper 6
191	Hopper 1 broken on payout
192	Hopper 2 broken on payout
193	Hopper 3 broken on payout
194	Hopper 4 broken on payout
195	Hopper 5 broken on payout
196	Hopper 6 broken on payout
201	Hopper 1 no answer on payout
202	Hopper 2 no answer on payout
203	Hopper 3 no answer on payout
204	Hopper 4 no answer on payout
205	Hopper 5 no answer on payout
206	Hopper 6 no answer on payout
211	Missing event counter Hopper 1
212	Missing event counter Hopper 2
213	Missing event counter Hopper 3
214	Missing event counter Hopper 4
215	Missing event counter Hopper 5

Code	Description Transaction 13
216	Missing event counter Hopper 6
221..249	Accepted late coin (channel 1..28)
250	Warning ticket generation
251	UCD error no ticket
252	UCD error reader
253	Error UCD verify
254	Error UCD escrow
255	UCD error issue
256	UCD error read
257	UCD error write
258	UCD error write DP
259	UCD error Feeder
260	UCD error invalid card position
261	UCD error invalid command
262	UCD error (C)
263	UCD error (D)
264	UCD error (E)
265	UCD error no com (F)
266	Error UCD User holds Ticket
267	Error UCD read ticket
268	Error UCD reread 1 ticket
269	Error UCD shift out ticket
270	Set swallow ignore
277	CashCode safe full
278	CashCode reset
279	CashCode No communication
280	Cashcode Collision detect
281	Cashcode NAK received
282	Cashcode invalid command
283	Clock stopped
284	FC task restarted
286	RCU timeout on dispense
287	RCU timeout on enable
288	RCU timeout on test
289	RCU timeout on sorter
290	RCU line dropped
291	Security stopped (not working, is broken)
292	Security Key exchange
293	Security Warnign CC not encrypted
294	Security Warning did not get Key
297	Parameter File does not exists
298	Parameter File to small (not 216)
299	Parameter File corrupt
301..332	Warning sorter to safe
351..382	Warning sorter to hopper

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