



## Installation and Configuration Manual

# Way4 Global Parameters

03.53.30

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# Contents

<b>1</b>	<b>"Additional Global Parameters" form</b>	<b>18</b>
<b>2</b>	<b>Document Acceptance</b>	<b>19</b>
2.1	ACCEPT_AFTER_CRYPT_VALIDATION	19
2.2	ACCEPT_CHANGE_FI	19
2.3	AMOUNT_FORMAT_FOR_DOC_TAG	19
2.4	AUTH_AMOUNT_DIFF_PCNT	20
2.5	AUTH_AMOUNT_DIFF_PCNT_RETAIL	20
2.6	AUTH_SAVING_PERIOD	20
2.7	AUTH_SKIP_TAGS_INHERIT	21
2.8	AUTH_TRANS_DATE_INTERVAL	21
2.9	BIN_ROUTING_TYPE	21
2.10	BLOCK_DISTRIBUTED_LIMIT	22
2.11	BLOCK_IF_AVAILABLE_FEE	22
2.12	CHANNEL_MAPPING	22
2.13	CHECK_SRN_CHANNEL_LIST	23
2.14	COND_INH_FOR_AFF	23
2.15	CREDIT_LIMIT_POSTING	23
2.16	DECLINE_NON_AUTHORIZED	24
2.17	DEFAULT_INST_ROUTING	24
2.18	DOC_SAVING_PERIOD	27
2.19	EXCEPTION_BINS	27
2.20	FINAL_AUTH_SAVING_PERIOD	28
2.21	FROM_SEC_TRANS_DATE	28
2.22	HOLD_REVERSAL	29
2.23	LATE_PRESENTMENT	29
2.24	MATCH_REVERS_INT	29
2.25	MULTI_AUTH_STRICT	29
2.26	NEGATIVE_ADJ_TO_DISPUTE	30
2.27	ORDER_PCNT_RULE	30
2.28	PATCH_REVERSAL_ACCOUNT	30
2.29	PAYMENT_TYPE_TAGS_TO_SO	31

2.30	POSTING_DATE_DELAY	31
2.31	PREAUTH_SAVING_PERIOD	31
2.32	PRESENTMENT_TRUST_AUTH_CODE	32
2.33	ROUNDED_FEES	32
2.34	SAVE_ARN_FOR_CHANNEL	32
2.35	SECONDARY_TRUST_AUTH_CODE	33
2.36	SET_DEFAULT_ACCOUNT	33
2.37	SKIP_TRANSIT_MTR	34
2.38	SKIP_ZERO_FEE_DOC	34
2.39	SUBTRACT_SURCH_AMT_TRN_TYPES	35
2.40	TRANSIT_AUTH_FOR_CHANNELS	35
2.41	UNIQUE_SLIP_NUMBER	35
2.42	VISA_FAST_FUNDS	35
<b>3</b>	<b>Currency Conversion</b>	<b>37</b>
3.1	AUTH_USE_DOMESTIC	37
3.2	CHANGE_CURRENCY	38
3.3	FX_MARGIN_MODE	38
3.4	FX_RATE_INVERSE	39
3.5	RESERVE_CALC_IN_LOCAL_CURRENCY	39
3.6	USE_AUTH_FX	39
3.7	USE_BRANCH_FX_ACC	40
3.8	USE_CROSS_FX	40
<b>4</b>	<b>Posting of Macrotransactions</b>	<b>41</b>
4.1	BALANCE_XF_CODE	41
4.2	BASE_AMOUNT_FX_RATE_TYPE	42
4.3	BRANCH_DELAY_ACC	42
4.4	CB_TERRITORY_ADDR	42
4.5	CB_TERRITORY_ADDR_TAG	43
4.6	CORP_STAT_CONF	43
4.7	DIRECT_OVL_NORMALIZATION	43
4.8	DM_ID_CACHE_LEN	44
4.9	DOC_STAT_BY_GL_DATE	44
4.10	DOC_STAT_BY RELATED	44

4.11	DUE_FOR_SKIP_DUE	44
4.12	DUE_FOR_WAIVED_PD	45
4.13	DUE_TO_WRK_DAY	45
4.14	FULL_TRANS_CODES	46
4.15	FX_MARGIN_CURRENT_RATE	47
4.16	HEADOFFICE_DELAY_ACC	47
4.17	INTERBRANCH_XF_CODE	47
4.18	INTERBRANCH_XF_CODE_OFFB	47
4.19	INTEREST_DELAY	48
4.20	INTEREST_IN_CYCLE	49
4.21	MULTICURRENCY_NORMALIZATION	50
4.22	NEW_INTERBRANCH_ROUTING	51
4.23	NO_DUE_DLQ_CODE	51
4.24	OFF_BALANCE_XF_CODE	51
4.25	ONLINE_NORMALIZATION	52
4.26	PATCH_REVERSE_INTEREST	53
4.27	PERS_FEE_CODES	53
4.28	POST_DUE	54
4.29	POST_REVERSED_MTR	54
4.30	SHIFT_DATE_FROM_TO_WRK_DAY	55
4.31	SHIFT_MTR_GL_DATE	55
4.32	SPC_NORM_CODES	56
4.33	STORNO_TYPE	56
4.34	SUSPEND_NEGATIVE_INTEREST	57
4.35	SYNC_ENTRY_GL_TRANS_CODE	57
4.36	USE_MONTH_WEIGHT	57
4.37	USE_TIME_ZONE	58

## 5 Procedure for Closing the Banking Day 59

5.1	CAN_RESET_NEW_DATE	59
5.2	CONTRACT_READY_RULE	59
5.3	DIRECT_REPLEN_TO_INT_REVENUE	60
5.4	FORCE_CDU	61
5.5	INTEREST_BY_CREDIT	62

5.6	MAIN_SUB_RECOVERY	63
5.7	MKH_DATE_FORMAT_STYLE	63
5.8	ORDER_IN_START_OF_DAY	64
5.9	PAYMENT_DUE_ADVANCE	64
5.10	RESERVE_IN_LOCAL_CURR	67
<b>6</b>	<b>Card Production</b>	<b>69</b>
6.1	AUTH_KEY_STORAGE_FORM	69
6.2	CARD_FEE_ALGORITHM	69
6.3	CARD_NAME_LENGTH	69
6.4	CARD_PROD_ENABLED_EVENTS	70
6.5	CARD_PROD_RESPONSE_DEFERRED_PROCESSING	70
6.6	CARD_RENEW_ADVANCE	70
6.7	CARD_RENEW_FROM_TODAY	71
6.8	CLIENT_STATUS_IGNORED_FOR_CONTRACT	73
6.9	COMPANY_NAME_LENGTH	73
6.10	INHERITE_LOST_CARD_DELIVERY_PRM	73
6.11	LOST_CARD_EVENT	73
6.12	MAX_CARD_EXPIRE	74
6.13	MIN_CARD_EXPIRE	74
6.14	MRK_DISABLE_DUPLICATE_CARD_EXPIRE	74
6.15	MRK_ERASE_SEC_VAL	75
6.16	MARK_INHERIT_LOST_CARD_EXPIRE	75
6.17	MRK_PRODUCE_LOCKED	75
6.18	PAN_LENGTH_CHECK	75
6.19	PM_KEY_EXPIRE_DFLT_PERIOD	76
6.20	PM_KEY_EXPIRE_WRN_EXT_PERIOD	76
6.21	PM_PIN_TRANSLATE	76
6.22	PM_TSK_LOAD_BANK_CHECK	76
6.23	RNP	76
6.24	RSP	78
6.25	SET_PIN_WHEN_REISSUING	79
6.26	SHIFT_CARD_EXPIRE_FROM	80
6.27	SHRINK_EXPIRE_TO	80

6.28	UNLOCK_CARDS_MODE	80
6.29	UNLOCK_PLASTIC_FOR_VALID_CONTRACT_ONLY	81
<b>7</b>	<b>Working with Contract and Client Records</b>	<b>82</b>
7.1	ADDR_CHECK_BY_CLASSIFIER	82
7.2	ADDR_SCHEME_DEFAULT	82
7.3	ALTERNATIVE_RELATION	83
7.4	APPROVE_IMMEDIATE	84
7.5	AUTH_ENABLE_EXPIRED	85
7.6	AUTH_ENABLE_EXPIRED_MIN_VAL	86
7.7	AUTH_ENABLE_EXPIRED_MONTHS	86
7.8	BLOCK_IF_AVAILABLE_FEE_DIFF	87
7.9	CHANGE_STATUS_STR	87
7.10	CHECK_CLIENT_EMBOSSING_DATA	87
7.11	CLEANOUT_TRANS_CODE_PATTERN	87
7.12	CLIENT_MOVE_FI_AFFILIATED	88
7.13	CLOSE_CONTRACT_STR	88
7.14	CREATE_ALL_ACCOUNTS	88
7.15	CREATE_FOR	89
7.16	CR_LIMIT_FX	89
7.17	EMAIL_NO_CHECK_ADDR_TYPES	89
7.18	ENABLES_SHIFT_DAY	89
7.19	GENERATE_LUHN	90
7.20	ISS_BILLING_LOG_HD_BALANCES	90
7.21	MAX_PREDICTION_PERIOD	91
7.22	MERCHANT_ADDRESS_TYPE_NL	91
7.23	PAST_DUE_BALANCE	91
7.24	POST_TO_INACTIVE_RELATIONS	91
7.25	PREDICTION_DATE_SHIFT	92
7.26	PREDICTION_MAX_AMOUNT	92
7.27	PREDICTION_MSG_CODE	92
7.28	PREDICTION_SOURCE	92
7.29	RENEW_ADDRESS_LINK	93
7.30	RESTORE_CARD_BALANCE	93

7.31	SHIFT_TO_WRK_DAY	93
7.32	SKIP_ROUTING	94
7.33	SYNC_MAIN_ACTIVE_DECISION	94
7.34	SYNC_SUPPL_ACTIVE_DECISION	94
7.35	UNIQUENESS_CLIENT_ITN	94
7.36	UNIQUENESS_CLIENT_NUMBER	95
7.37	UNIQUENESS_CLIENT_REG_NUMBER	95
7.38	UNIQUENESS_CLIENT_SOCIAL_NUMBER	95
7.39	UNIQUENESS_RBS_NUMBER	96
7.40	UNIQUE_CLIENT	96
7.41	UNIQUE_COUNTERPARTY_CODE	96
7.42	USE_CL_BASE_ADDR	97
7.43	USE_SYSTEM_ADDR_LANG	97
<b>8</b>	<b>Acquiring Parameters</b>	<b>99</b>
8.1	ALLOW_DUPL_TERMINAL_ID	99
8.2	ALLOW_PURCHASE_CASH_REVERSAL	99
8.3	ALLOW_REV_IN_TREE	99
8.4	ALLOW_UNDEFINED_RC	100
8.5	CONTRACT_OPEN_DATE_DELAY	100
8.6	CREATE_EMPTY_ACQ_KEYS	100
8.7	DECL_PURCHRET_IF_ERR	100
8.8	DEVICE_STATISTICS_HIST_LENGTH	101
8.9	DEVICE_TIMEOUT_MIN	101
8.10	DOC_USE_3RD_PARTY	101
8.11	DOUBLET_INTERVAL_MIN	101
8.12	ENABLE_COUNTRY_STATE_SUPPORT	102
8.13	ENABLE_DEVICE_STATISTICS	102
8.14	ENABLE_MERCHID_OVERRIDE	102
8.15	ENABLE_MERCH_NAME_VAR_LENGTH	102
8.16	ENABLE_MPД_COUNTRY_CODE	103
8.17	EXCLUDE_DEVICE_STATISTICS	103
8.18	ISS_FEE_ONLINE	103
8.19	LIST_REV_ON_CREDIT	104

8.20	MERCHANT_NAME_LENGTH	104
8.21	MERCHANT_NAME_LENGTH_X	104
8.22	MERCH_PARMS_COUNTRY_NOT_CHECK_FOR	104
8.23	MTT_INVALID_ATC_ALWD	104
8.24	MTT_SIC_LIST	105
8.25	MULTIPLE_ADJUSTMENTS	105
8.26	ONUS_TYPES_TO_IPS	105
8.27	ONUS_TYPES_TO_IPS_MODE	105
8.28	RETAIL_BRANCH_CODE_TO_ATM	106
8.29	RRN_FALLBACK_ALLOWED	106
8.30	SETTLE_MERCHANT_BY_POS_CYCLES	106
8.31	SOFT_BATCH_UPLOAD	106
8.32	TKN_AUTOREUSABLE	107
8.33	UNIQUE_DEV_NW_ADDR	107
8.34	USE_CUT_OFF_TIME	107
8.35	USE_SUBDEVICE_KEYS	108
8.36	WAIT_BATCH_UPLOAD	108
<b>9</b>	<b>Processing Online Operations</b>	<b>109</b>
9.1	3DS_MC_EXTRA_BRANDS	109
9.2	3DS_VISA_EXTRA_BRANDS	109
9.3	ADD_PACK_BT	109
9.4	ALIAS_AUTH_TYPE	109
9.5	ALLOWED_AUTH_SRC_CH_LST	110
9.6	ALTERNATIVE_CONTRACT_ID_TYPE	110
9.7	AUTH_CLIENT_CHCK	110
9.8	AUTH_CODE_ALGORITHM	110
9.9	AUTH_EMPTY_TRANS_DATE	111
9.10	AUTH_FIN_DOC_MODE	111
9.11	AUTH_ONLINE_TAGS	112
9.12	AUTH_REQ_ADD_AUTH_METHOD	112
9.13	AUTH_REQ_TOKEN_CHECK	112
9.14	AUTH_REQ_USE_BASIC_TOKEN	113
9.15	AUTH_RESP_BERTLV_MSG_TAG	113

9.16	AUTH_REV.REJ_FRAUD_FOR	113
9.17	AUTH_REV_MCC_CHECK_LIST	113
9.18	AUTH_SMS_CHCK	114
9.19	AUTH_TIMEOUT	114
9.20	AUTH_TOKEN_ACT_CODE METH	115
9.21	AUTH_TOKEN_ADDR_TYPE	115
9.22	AUTH_TOKEN_ANSW	115
9.23	AUTH_USE_FORCE_AMOUNT	116
9.24	BALANCE_TYPE_1, BALANCE_TYPE_2	116
9.25	BAL_FX_RATE_TYPE	116
9.26	CHCK_BASE_USAGES	117
9.27	CHCK_TKN_CARD_STATUS	117
9.28	CHIP_ATC_DEFERRED	117
9.29	CHIP_ATC_MAX_INCREMENT	118
9.30	CLEAR_BILLING_BLOCKED	118
9.31	CLOSE_PREV_PLASTIC	118
9.32	CSA_NO SUCH CARD IN HEADOFFICE	119
9.33	DECLINE_REV_AFTER_CHBK	119
9.34	EMV_ATC_CHECK	119
9.35	HIDE_NEGATIVE_BALANCE	119
9.36	INTRANET_SERVER	120
9.37	LOCKED_CARD_RC	120
9.38	LOG_MISSING_ATC_TO_DOC	120
9.39	MERCHANT_PREFERENCE_CASE_SENSITIVE	121
9.40	MSG_PRE_CACHE	121
9.41	NETSERVER_CHANNEL_<Message Channel Code>	121
9.42	NETSERVER_TIMEOUT Message Channel Code>	121
9.43	ONLINE_CREDIT_PENDING	121
9.44	ONLINE_STATEMENT_PERIOD	122
9.45	PARTIAL_APPROVAL_ENABLE	122
9.46	RM_USG_CHCK_MODE	123
9.47	SEC_VAL_COUNTS_TR_COND	123
9.48	SEND_PVV_2_PS	123
9.49	SKIP_TRANSIT_AUTH_SEARCH	123

9.50	STMT_SERV_CLASSES	124
9.51	STMT_SHOW_NOT_AM_AV	124
9.52	SUSP_VISA_TERM_TYPE_LST	124
9.53	TD_CHECK_ATN	124
9.54	USAGE_LIMITER_FOR_DUPLICATE	124
9.55	USAGE_LIMITER_LOG_STATE	125
9.56	USG_THRESHOLD_CALC_DELAY	125
9.57	WAIVED_PD_MODE	125
9.58	ZERO_CARD_SEQV_NUMBER_ALLOWED	126
<b>10</b>	<b>Mobile Banking</b>	<b>127</b>
10.1	SMS_ADDR_TYPE	127
<b>11</b>	<b>Advanced Applications Module</b>	<b>128</b>
11.1	APP_RESET_USAGE	128
11.2	APPL_ALLOW_CHANGE_NUMBER	128
11.3	APPL_ALLOW_NOT_READY	128
11.4	APPL_CHECK_EVNT	128
11.5	APPL_CHECK_UNIQUE_OBJECT	129
11.6	APPL_CLIENT_ID_TYPE	129
11.7	APPL_DEFAULT_ORDER	129
11.8	APPL_DEFERRED_APPROVE	130
11.9	APPL_EMPTY_DPRT	130
11.10	APPL_FORM_WF_STAGE	130
11.11	APPL_FRM_ACCEPT_STAGE	130
11.12	APPL_FULL_WF	131
11.13	APPL_IGNORE_REG_TYPE	131
11.14	APPL_NEW_CARD_IN_RESPONSE	131
11.15	APPL_NON_SAFE_ON_SECONDARY	131
11.16	APPL_OFFICER_DEFAULT_PASSWORD	132
11.17	APPL_ORDER_INDIVIDUAL	132
11.18	APPL_RESET_CARD_EXPIRE	132
11.19	APPL_SPLIT_RESPONSE	132
11.20	APPL_UNIQ_REG_NUMBER	133
11.21	APPL_USE_DFLT_CBS_MEMBID	133

11.22	CHECK_OPEN_APPL_CASE	133
11.23	CROSS_INST_CLIENT	133
11.24	DEFAULT_WF_STAGE	134
11.25	FILL_APPL_PRODUCT	134
11.26	PS_ADDRESS_TYPE	134
11.27	USE_NOT_READY	134
<b>12</b>	<b>Interchange</b>	<b>136</b>
12.1	COMPANY_ADDRESS_TYPE	136
12.2	CONVERT_ACQ_BIN	136
12.3	CONVERT_ACQ_BIN_CH	136
12.4	DEFAULT_MEMBER_FOR_CHANNEL_<Channel>	137
12.5	FINANCIAL_REJECTS	137
12.6	IC_ACCEPT_NON_EL_FOR_CHNL	137
12.7	IPS_CUT_OFF_TIME_GMT_E	137
12.8	IPS_DELIVER_TIME_E	138
12.9	MC_CALC_IRD	138
12.10	MC_CALC_IRD_CHECK_RATES_UTD	139
12.11	MC_CALC_IRD_FOR_ONUS	139
12.12	MC_CPI_GROUPS	139
12.13	MCC_LCC	139
12.14	MC_MPE_IRD_CRITERIA	140
12.15	MC_NO_IRD_ERR	140
12.16	MC_PRC_TA	140
12.17	MERCHANT ADDRESS TYPE	140
12.18	MERCH_PARMS_PS_CHECK_FOR	140
12.19	ROUTE_BY_FORWARDING_MEMBER_FOR_CHANNELS	141
12.20	SAFE_CHAIN_CHECK	141
12.21	SAFE_FDN_SEPARATE_DAY	141
12.22	SAFE_ONUS_PERMIT	142
12.23	SL_NETSERVER_ADDRESS	142
12.24	SL_NETSERVER_TIME_OUT	142
12.25	STOPLIST_ADD_CHANNELS	142
12.26	USE_ADD_ROUTE_CHECK	142

12.27	VISA_CALC_RA	143
12.28	VISA_CALC_RA_FOR_ONUS	143
12.29	VISA_NO_RA_ERR	143
<b>13</b>	<b>"High Availability" Module</b>	<b>144</b>
13.1	CDU_CHECK_FILTER	144
13.2	CHECK_QUE_EVENT_ON_SECONDARY	144
13.3	CONFIG_EXPIRE_SEC	144
13.4	COPY_DEBUG_CONN	144
13.5	DOC_RECORD_KEY_ATTRIBUTE	145
13.6	HA_DEFERRED_APPL_APPLY	145
13.7	HA_DEFERRED_APPL_APPLY_DELAY	146
13.8	HA_DEFERRED_DOC_APPLY	146
13.9	HA_DEFERRED_DOC_APPLY_DELAY	146
13.10	IN_FLIGHT_PERIOD_SECS	146
13.11	LAST_SCAN_MODE	147
13.12	MAX_SYS_INSTANCES	147
13.13	SI_APPLY_ERROR_DELAY	147
13.14	SI_APPLY_FETCH_SIZE	148
13.15	SI_APPLY_MAX_ATTEMPTS	148
13.16	SI_APPLY_MAX_SIZE	148
13.17	SI_APPLY_REPEAT_INTERVAL	148
13.18	SI_APPLY_VIEW_CHANGES_PERIOD	148
13.19	SI_COPY_DELAY	149
13.20	SI_COPY_KEEP_CONN_INTERVAL	149
13.21	SI_COPY_MAX_SIZE	149
13.22	SI_COPY_REPEAT_INTERVAL	149
13.23	SI_LOG_PROC_INTERVAL	149
13.24	SI_LOG_PROC_STAT_INTERVAL	150
13.25	SI_NODE_RECORD_GROUPS	150
13.26	SI_PARALLEL_THREADS_NUM	150
13.27	SW_CHECK_DELAY_THRESHOLD_SEC	150
13.28	SW_CHECK_FORCED_DELIVERY	151
13.29	SW_CHECK_MAX_DELAY_MS	151

13.30	SYNCH_REFRESH_LATENCY_INTERVAL	151
13.31	USG_LIM_COUNTER_MODE	151
<b>14</b>	<b>Dispute Assistant Module</b>	<b>153</b>
14.1	DISPUTE_CM	153
14.2	DISPUTE_MGMT_LEVEL	153
14.3	DSP_BACKUP_FX_TYPE	153
14.4	DSP_CASE_CLOSE_MODE	154
14.5	DSP_CASE_CREATION_MODE	154
14.6	DSP_FILE_EXT_ALLOWED_E	154
14.7	DSP_FILE_EXT_ALLOWED_V	155
14.8	DSP_RECLASSIFIED_CBKS_<channel code>	155
14.9	DSP_WRITEOFF_MODE	155
14.10	MC_HOST_REGION	156
<b>15</b>	<b>Other Parameters</b>	<b>157</b>
15.1	<Process Name>.NON_STOP_HOURS	157
15.2	<invoice_code>_OUT_PARMS	157
15.3	ALLOW_TRF_PERS	157
15.4	ALLOW_TRF_TEMPL	158
15.5	AMOUNT_ALERT_MODE	158
15.6	AUTO_STORNO_BPERIOD	158
15.7	AUTO_STORNO_PERIOD	159
15.8	BILL_TRANSLATE_LANGS	159
15.9	CHANGE_INST_ADV_FEE	160
15.10	CHECK_ACC_SCHEME_CODE	160
15.11	CLL_TO_KEEP_CLASS	161
15.12	CM_<DomainCategory>_AUTOCREATE_USER	161
15.13	CM_HSK_KEEP	161
15.14	CP_HANDBOOK_FILTER	162
15.15	CP_STATISTICS	162
15.16	DECISION_LOG_MODE	162
15.17	DEFAULT_CHANNEL_ACQ_BIN_<Channel>	163
15.18	DIFF_AMOUNT_TYPE	164
15.19	DO_NOT_SCAN_INVOICES	164

15.20	EXCL_PARTIAL_STATUS_FOR_<invoice code>	164
15.21	FX_CHCK_INH_TIME	164
15.22	GEN_ANALYTIC_TRANSFERS	165
15.23	GL_RENUMERATION_MODE	165
15.24	IGNORE_IPS_PRODUCT	165
15.25	INST_ACCOUNTING_INT_DELAY	166
15.26	INST_ADV_FEE_OPEN	166
15.27	INST_ADV_FEE_WAIVE_ON_CLOSE	167
15.28	INST_ALLOW_CLOSED_CYCLE	167
15.29	INST_APPROVE_PLANS	168
15.30	INST_AUTHCHECK_ACTION	168
15.31	INST_AUTH_ACTION	168
15.32	INST_AUTO_ER_BAL	169
15.33	INST_CREATE_FROM_SIMULATION	169
15.34	INST_CREATE_ON_ADJUSTMENT	170
15.35	INST_DAILY_INTEREST_CODES	170
15.36	INST_EVENT_INHERIT_TAGS	171
15.37	INST_EXPORT_GROUPING	171
15.38	INST_FIN_ACTION	171
15.39	INST_GROUP_TRANSFERS	172
15.40	INST_HOLIDAYS_FOR_OPEN	173
15.41	INST_INTEREST_FOR_OPEN	174
15.42	INST_INTEREST_TO_DUE	174
15.43	INST_ISSUER_TEXT	175
15.44	INST_MAX_DAYS_TO_CONVERT	175
15.45	INST_MAX_DUE_DATE_GAP	176
15.46	INST_MAX_HOLIDAYS_LEN	176
15.47	INST_MAX_SIMULATED_PLANS	176
15.48	INST_PAYIN	177
15.49	INST_RENEW_RATES	177
15.50	INST_REV_ACTION	178
15.51	INST_SCHEDULED_ER_BAL	178
15.52	INST_SEC_ACTION	179
15.53	INST_SHIFT_ER	179

15.54	INST_SIM_SAVE	180
15.55	INST_START_STATUS	180
15.56	INVOICE_POST_DUE	181
15.57	INV_DISTRIBUTE_OVERPAYMENT	181
15.58	INV_INHERIT_LIST	181
15.59	INV_PAYM_REF_MODE	182
15.60	ITEM_CYCLE_LENGTH	182
15.61	LINK_COPIED_PRODUCTS	182
15.62	NOT_GET_DCC_CURR_BY_COUNTRY	183
15.63	OFFICER_MAX_INACTIVITY_DAYS	183
15.64	ONLINE_REFRESH_CP_SEGMENT	183
15.65	PI_COLLECT_TAGS	183
15.66	PI_DOC_TAGS_TREE	184
15.67	PI_LOG_GL_TRACE_EXCPT	184
15.68	PREFIXED_ERRORS	184
15.69	RESEND_INV_INHERIT_TAGS	184
15.70	RESEND_PAYM_INHERIT_TAGS	184
15.71	SAVE_ACCOUNT_NUMBER	185
15.72	STAT_COLLECT	185
15.73	STAT_HIDE_REPOST	185
15.74	STMT_CL_NAME_FORMAT	185
15.75	STOPLIST_TS_CHANNELS	186
15.76	STORNO_AUTO_HIDE_GL_CORRECTION	186
15.77	STORNO_CANCEL_REVERSALS	186
15.78	STORNO_GL_TRANS_DISTINCTION	187
15.79	STORNO_INST_BALANCE_LOCK	188
15.80	STORNO_LOG_OBJECTS	188
15.81	STORNO_SKIP_HOLIDAYS	188
15.82	SUSPEND_ALL_PROCESSES	189
15.83	SYNC_PERSONAL_TARIFFS	189
15.84	TRIVIAL_GL_TRANSFER	189
15.85	USE_ANALYTIC	191
15.86	USE_AUTO_STORNO	191
15.87	VOICE_AUTH_RRN_PREFIX	191



Way4's additional global parameters allow users to configure system functions to execute certain procedures, for example, individual and consolidated accounting for contracts, interest accrual algorithms, and others. The global parameters dictionary can be accessed through the user menu path "Full → Configuration Setup → Main Tables → Additional Global Parameters".

These parameters significantly affect system functioning, so system parameters should only be changed with assistance from qualified OpenWay™ representatives. Changing global parameter values without consulting OpenWay may result in system malfunction and subsequent financial loss.

Note that DB Manager must be restarted after a global parameter value is changed so that the change takes effect. It is also necessary to restart NetServer after changing values of global parameters used for authorization.

This document is intended for WAY4 system administrators, bank or processing center employees and describes the possible values for WAY4 global parameters and their use.

The parameters described in this document are grouped according to functionality, such as document processing, card production, currency conversion, and others. Each group contains a list of parameters presented in alphabetical order.

The following notation is used in the document:

- Field labels in screen forms are shown in *italics*.
- Screen form button labels are shown in square brackets; for example [Approve].
- Sequences for selecting user menu items are shown using arrows as follows: "Issuing → Contracts Input & Update".



Warnings about potentially hazardous situations or actions are marked with a special icon and highlighted.



Information about important features, additional options, or the best use of certain system functions is marked with a special icon and highlighted.

# 1 "Additional Global Parameters" form

To access the dictionary of global parameters, use the menu item "Full → Configuration Setup → Main Tables → Additional Global Parameters". The "Additional Global Parameters" form will open, see [figure](#).

Additional Global Parameters			2 of 59	X
	Name	Value	System Instance	
→	ADDITIONAL_PARMS			
	ADDR_CHECK_BY_CLASSIFIER	N		
	ALLD_CYCLE_ON	Y		
	AUTH_SAVING_PERIOD	30		

**Ins** **Del** **Query**

"Additional Global Parameters" form

The form contains the following fields:

- *Name* – name of the global parameter.
- *Value* – value of the global parameter.
- *System Instance* – WAY4 system instance (database) for which this global parameter is used.  
Selected from the list set up in the "System Instances" form (Full → Configuration Setup → Main Tables → System Instances – Simple), see the section ""System Instances" Dictionary" of the document "WAY4 Dictionaries".

## 2 Document Acceptance

### 2.1 ACCEPT\_AFTER\_CRYPT\_VALIDATION

The global parameter ACCEPT\_AFTER\_CRYPT\_VALIDATION makes it possible to check the status of a smart card cryptogram before accepting the document. To execute the check, set the value of this parameter to "Y". The default value is "N".

### 2.2 ACCEPT\_CHANGE\_FI

When the value of this parameter is "Y", reversals and adjustments can be processed if the target financial institution changes. When a reversal/adjustment is received, macrotransactions are generated for the new financial institution and reversed fee amounts are also taken from the new financial institution's Product parameters.

To restore previous system behavior, when only reversals are processed in this situation, set the global parameter to "R".

When adjustments/reversals are received in the aforementioned situations, documents are processed with the 102 response code (Incorrect Chain).

The ACCEPT\_CHANGE\_FI parameter makes it possible to process reversals ad adjustments for both the original and secondary documents (including for dispute documents).

### 2.3 AMOUNT\_FORMAT\_FOR\_DOC\_TAG

Amounts received from clearing or online are stored in special tags in the add\_info field of a document. In particular, acquirer fee amounts and Cashback amounts (purchase with cash withdrawal) are stored in this way. The format for storing amounts in different tags differs – part of data is stored in ISO format (in "cents"), part in "dollars" (in decimal format with a decimal point).

When calculating fees, Services (WAY4) by default perceive the amounts from the corresponding tags of a document's add\_info field as "cents". In order for tag amounts to be understood by WAY4 as "dollars", additional setup is required. To do so:

- Determine tags used when calculating fees and stored in "dollars" in the add\_info field of a document. These tags include SURCHARGE\_AMOUNT, TACCESS\_FEE\_AMOUNT, and SACCESS\_FEE\_AMOUNT (reserved for future use). See the document "Setup Tags" for the list of tags for storing amounts that can be contained in a document's add\_info field.
- These tags must be entered in the list of values for the global parameter AMOUNT\_FORMAT\_FOR\_DOC\_TAG. Tags in the list are separated by commas.

## 2.4 AUTH\_AMOUNT\_DIFF\_PCNT

AUTH\_AMOUNT\_DIFF\_PCNT – This parameter defines the permissible percent difference between the financial transaction amount and the amount blocked when an authorization document is processed.

If the specified difference exceeds the value set by the parameter, when a financial document is posted, the corresponding error message will be generated and the difference between the authorization and financial document amount will be blocked.

The parameter value is a positive whole integer, and its default value is 15.

The parameter is used for all transactions with several financial documents for one authorization (these transactions may be made, for example, when renting a car or reserving a hotel room).

The global parameter can be redefined by the tag with the same name in a transaction subtype, Product, and in a financial institution (in descending order of priority). The tag in a transaction subtype has a higher priority.

## 2.5 AUTH\_AMOUNT\_DIFF\_PCNT\_RETAIL

AUTH\_AMOUNT\_DIFF\_PCNT – This parameter defines the permissible maximum percent difference between the financial transaction amount and the amount blocked when an authorization document is processed.

If the specified difference exceeds the value set by the parameter, when a financial document is posted, the corresponding error message will be generated and the difference between the authorization and financial document amount will be blocked.

The parameter value is a positive whole integer. The default value corresponds to the value of the AUTH\_AMOUNT\_DIFF\_PCNT parameter.

The parameter is used for all transactions except those with several financial documents for one authorization (car rental or hotel reservation transactions, for example). The global parameter AUTH\_AMOUNT\_DIFF\_PCNT is used for these exceptions.

The global parameter can be redefined by the tag with the same name in a transaction subtype, Product, and in a financial institution (in descending order of priority). The tag in a transaction subtype has a higher priority.

## 2.6 AUTH\_SAVING\_PERIOD

AUTH\_SAVING\_PERIOD – A parameter determining the interval in calendar days for which blocked amounts authorized on card accounts are saved.

The parameter value is a positive whole integer, the default value is "30".

Funds blocked by authorizations for which financial documents were not posted in this period can be unblocked by the procedure called by the menu item "Daily Procedures → Document Processing Step by Step → Clear Old Pending".

- (i) Funds blocked as a result of executing transactions offline (for smart cards) can be unblocked by a procedure called with the menu item "EMV Smart Cards → Documents → Clear Old Offline Pendencies".
  
- (i) The date funds are unblocked is calculated during authorization (and registered in the credit\_history table). If the value of this global parameter is changed, the new value will be considered during new authorizations. The changed value will not affect dates calculated earlier for unblocking funds. That is, for earlier authorizations, funds will be unblocked according to the date for unblocking calculated at the time of authorization.

This global parameter can be redefined in a Service, transaction subtype, and in a financial institution (in descending order of priority, that is the Service setup has a higher priority).

## 2.7 AUTH\_SKIP\_TAGS\_INHERIT

AUTH\_SKIP\_TAGS\_INHERIT – the parameter defines the list of tags whose values will not be considered when data from an authorization document are inherited to the corresponding financial document.

Tags in the list are separated by commas.

Default value of the parameter: CASHBACK\_CURR, CASHBACK\_AMOUNT, PURCHASE\_CURR, PURCHASE\_AMOUNT, POI\_CURR, POI\_AMOUNT, REP\_AMOUNT, ORIG\_AMOUNT, POI\_ORIG\_AMOUNT, ORIG\_AMOUNT\_R, ORIG\_ISS\_AMNT\_R, REST\_AMOUNT, REST\_TR\_AMOUNT, REPL\_AMNT.

By default, these tags are not inherited from an authorization document to a financial document.

## 2.8 AUTH\_TRANS\_DATE\_INTERVAL

The parameter allows additional document search conditions to be set. The parameter value determines the period of time in days within which it is permitted to match documents by PAN (card number) and authorization code (by the *Auth Code* field value). The default value is "2".

For more information, see the section "Matching Documents" of the document "Documents".

## 2.9 BIN\_ROUTING\_TYPE

BIN\_ROUTING\_TYPE – A parameter allowing Interchange Routing to be performed according to transaction currency.

The default value of the parameter is NULL.

If the parameter value is set to "T", the value of the *Currency* field in the Interchange Routing table will be considered as the transaction currency and not the settlement currency. This way, transactions of selected currencies may be routed to a separate routing contract.

## 2.10 BLOCK\_DISTRIBUTED\_LIMIT

BLOCK\_DISTRIBUTED\_LIMIT – This parameter manages how funds are blocked on bank contracts when credit limits are set on issuing contracts.

Parameter values:

- "Y" (Yes) – When a credit limit is set, funds will be blocked on the corresponding bank contract.
- "N" (No) – The credit limit will not change the amount available for the bank contract. This is the default value.

## 2.11 BLOCK\_IF\_AVAILABLE\_FEE

BLOCK\_IF\_AVAILABLE\_FEE – A parameter that controls how funds are blocked when a miscellaneous fee is charged whose fee type has the "Category" parameter set to "When Available".

Parameter values:

- "Y" (Yes) – when a miscellaneous fee is charged, the system immediately blocks the amount in the corresponding contract account. Funds are unblocked when the system processes the financial document that replenishes the account from which the fee is collected.
- "N" (No) – funds are not blocked. The miscellaneous fee is posted when the system processes the financial document that replenishes the account from which the fee is collected. This is the default value.

## 2.12 CHANNEL\_MAPPING

If non-standard code is used for the channel (value of the *Code* field in the "Message Channels" form), the global parameter CHANNEL\_MAPPING makes it possible to match the channel standard code with the non-standard code being used.



The parameter can be set only after OpenWay's approval.

The parameter's value is specified in the following format:

<Standard Channel Code1>:<Custom Channel Code1>,<Standard Channel Code2>:<Custom Channel Code2>,...<Standard Channel CodeN>:<Custom Channel CodeN>

Channel codes can consist of multiple characters.

For example, if code "U" is used instead of standard code "H" for the "CUP" channel, the CHANNEL\_MAPPING parameter will be assigned the "H:U" value.

## 2.13 CHECK\_SRN\_CHANNEL\_LIST

CHECK\_SRN\_CHANNEL\_LIST – This parameter allows the uniqueness of the SRN (Source Registration Number) parameter to be checked for incoming documents. A comma-delimited list of channels for which the check will be executed is specified as the parameter value.

## 2.14 COND\_INH\_FOR\_AFF

A financial document can inherit a number of parameters from an authorization document. In particular, document tags from the *Add Data* field and transaction conditions are inherited when posting financial documents for transactions made on our devices or with our cards, and for transactions made on the devices of affiliate banks (when posting financial documents in a sponsor bank). For documents for transactions made on the devices of an affiliate bank, inheritance can be disabled by setting the value of COND\_INH\_FOR\_AFF to "N".

The parameter's default value is "Y".

The global parameter can be redefined using the tag of the same name in a specific document.

## 2.15 CREDIT\_LIMIT\_POSTING

CREDIT\_LIMIT\_POSTING – the value of this parameter determines whether credit limits will be reflected on issuing contract accounts. When a credit limit is set, an authorization document is generated in the system. Credit limits are reflected in contract accounts by generating for this authorization document a macrotransaction transferring funds from a bank contract to the corresponding account of the issuing contract.

Parameter values:

- If the parameter is not set or has a null value, the mode set up on the financial institution or Account Scheme level is used for reflecting the credit limit on accounts.
- "N" – credit limits are not reflected on contract accounts (regardless of settings on the financial institution or Account Scheme level); this is the default value of the parameter.
- "Y" (Yes) – credit limits are reflected on contract accounts (regardless of settings in the financial institution or Account Scheme).

When the global parameter is disabled (if the parameter is not set or has a null value), the mode for reflecting a credit limit on accounts can be enabled on the financial institution or Account Scheme level in the *Cr Lim Posting* field of the "Details for <name of financial institution>" form or the "Details for <Account Scheme name>" form, respectively.

## 2.16 DECLINE\_NON\_AUTHORIZED

DECLINE\_NON\_AUTHORIZED – A parameter that affects how two types of financial documents are processed: when transactions are executed without an authorization code and their amount exceeds the floor limit set in the corresponding Service of the device contract; and when transactions are executed for which no authorization document was found.

Parameter values:

- "Y" (Yes) – Financial documents for which an authorization document was not found will be declined with the status "Decline".
- "N" (No) – Financial documents for which an authorization document was not found will be processed with an entry created in the process log that warns about potential errors. This is the default value.



The global parameter can be redefined for a financial institution or specific document.

## 2.17 DEFAULT\_INST\_ROUTING

DEFAULT\_INST\_ROUTING – the parameter is used in processing interbranch transactions and defines whether it is necessary to search for a Service for an interbranch routing contract required to determine source and target accounts.

The parameter is used when generating macrotransactions in branches. The financial institution's place in a "Parent/Child" hierarchy and the settlement "direction" (settlement with the parent institution or with the child institution) affects generation of macrotransactions (the need to search for an interbranch routing contract Service).

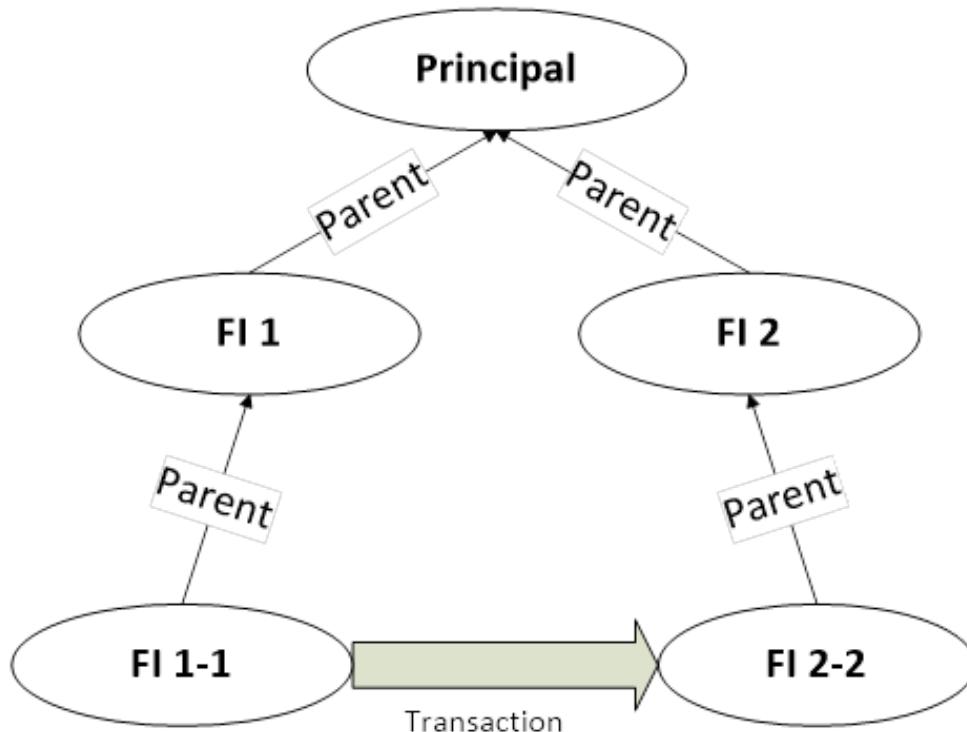
Note that a child financial institution can simultaneously be a parent institution for another financial institution (in [figure](#) these are institutions FI 1 and FI 2 in a three-level hierarchy; further, "Parent+Child" institution). In this case, in one transit macrotransaction (for example, a transit macrotransaction in FI 1 for settlement between Principal and FI 1-1) the need to search for an interbranch routing contract Service will be determined in different ways. For more information, see below.

DEFAULT\_INST\_ROUTING parameter values:

- "Y" (Yes):
  - A search is not made in a child institution for a Service for settlements with the parent institution. Accounts set by default according to interbranch routing settings are used for an interbranch routing contract.
  - A search for a Service for settlements with a child institution is made in the parent institution. It is possible that there is no Service for the parent institution's settlements with

the child institution. In this case, accounts set by default according to interbranch routing settings are used.

- For a three-level hierarchy when a transit macrotransaction belongs to the "Parent+Child" institution (FI 1 and FI 2 in Fig.) a search for a Service is only made on the side of settlements with the child institution. This is the parameter's default value ("Y").
- "N" (No) – a search is always made for an interbranch routing contract Service. If a Service is not found, the document is rejected (i.e. default accounts are not used).
- "S" – a search is always made for an interbranch routing contract Service. If a Service is not found, the document is posted using accounts set by default according to interbranch routing settings.



*A card for FI-2-2 is acquired in FI-1-1's device*

Search for a Service in macrotransactions in the example above:

- Source macrotransaction in FI 1-1:
  - A search is always made for a device contract Service (Source service).
  - The DEFAULT\_INST\_ROUTING parameter determines if a search will be made for an interbranch routing contract Target service:
    - "Y" – A search is not made for a Service. Default accounts are used (Interbranch Routing).
    - "N" – A search is made for a Service. If a Service is not found, the document is rejected.
    - "S" – A search is made for a Service. If a Service is not found, default accounts are used (Interbranch Routing)
- Target macrotransaction in FI 2-2:
  - A search is always made for a card contract Service (Target service).

- The DEFAULT\_INST\_ROUTING parameter determines if a search will be made for an interbranch routing contract Source service:
  - "Y" – A search is not made for a Service. Default accounts are used (Interbranch Routing).
  - "N" – A search is made for a Service. If a Service is not found, the document is rejected.
  - "S" – A search is made for a Service. If a Service is not found, default accounts are used (Interbranch Routing)
- Transit macrotransaction in FI1: the DEFAULT\_INST\_ROUTING parameter determines whether a search will be made for a Source service and Target service:
  - "Y" – A search is not made for a Service. Default accounts are used (Interbranch Routing).
  - "N" – A search is made for a Service. If a Service is not found, the document is rejected.
  - "S" – A search is made for a Service. If a Service is not found, default accounts are used (Interbranch Routing)
- Transit macrotransaction in FI2: the DEFAULT\_INST\_ROUTING parameter determines whether a search will be made for a Source service and Target service:
  - "Y" – A search is not made for a Service. Default accounts are used (Interbranch Routing).
  - "N" – A search is made for a Service. If a Service is not found, the document is rejected.
  - "S" – A search is made for a Service. If a Service is not found, default accounts are used (Interbranch Routing)
- Transit macrotransaction in Principal: the DEFAULT\_INST\_ROUTING parameter determines whether a search will be made for a Source service and Target service:
  - "Y" – A search is not made for a Service. Default accounts are used (Interbranch Routing).
  - "N" – A search is made for a Service. If a Service is not found, the document is rejected.
  - "S" – A search is made for a Service. If a Service is not found, default accounts are used (Interbranch Routing).

## 2.18 DOC\_SAVING\_PERIOD

DOC\_SAVING\_PERIOD – A parameter determining the interval in calendar days from the transaction date, during which the combination of values from the # (Source Registration Number) and Contract # fields of the document containing Request Category = "Advice" must be unique.

The value of the parameter is a positive whole number, and the default value is "400".

This parameter checks that the combination of values is unique for new documents whose # (Source Registration Number) field is not empty. It also ensures that the transaction type corresponds to that of the original document in the document chain, which means that there is no reference to the previous document.

If a document is not unique for the period specified by this parameter, it cannot be processed successfully.

Using this parameter guarantees that the original document can be found for reversal operations, as well as for dispute cycle operations within the period indicated by the DOC\_SAVING\_PERIOD parameter.



This parameter is used when the value of the [UNIQUE\\_SLIP\\_NUMBER](#) parameter is "Y".

## 2.19 EXCEPTION\_BINS

EXCEPTION\_BINS – A parameter used by affiliated banks in document acceptance if the transaction has been executed on a card with a bank BIN but the corresponding card contract is absent in the database.

Parameter values:

- Empty (NULL) – When processing a document for a transaction involving a card with a bank BIN whose number is absent from the database, the document will be declined. This value is the default value.
- Contract subtype codes separated by the ";" symbol – When processing a document for a transaction involving a card whose number is absent from the database and whose contract subtype is specified in the parameter value, the document will be sent to the target according to Interchange Routing rules (through the BIN table).

The same setup can be made in the contract subtype using the EXCEPTION\_BINS=Y; tag. That is, instead of adding a subtype code to the value of the global parameter, the EXCEPTION\_BINS=Y; tag can be specified in the Add Params field of this contract subtype.

## 2.20 FINAL\_AUTH\_SAVING\_PERIOD

FINAL\_AUTH\_SAVING\_PERIOD – this parameter specifies the time interval in calendar days during which fund blocking on card accounts according to final authorizations is saved.

The parameter value is a positive whole integer.

When a final authorization is received, a search is first made for the parameter FINAL\_AUTH\_SAVING\_PERIOD. If it is not found, a search is made for the parameter AUTH\_SAVING\_PERIOD. If neither of these parameters is set, the default value, "30", is used.

Funds blocked by authorizations for which financial documents were not posted in this period can be unblocked by the procedure called by the menu item "Daily Procedures → Document Processing Step by Step → Clear Old Pending".

- (i) Funds blocked as the result of offline transactions (for smart cards) can be unblocked by the procedure called by the menu item "EMV Smart Cards → Documents → Clear Old Offline Pending".
  
- (i) The date funds are unblocked is calculated during authorization (and registered in the credit\_history table). If the value of this global parameter is changed, the new value will be considered during new authorizations. The changed value will not affect dates calculated earlier for unblocking funds. This means that for authorizations made earlier, funds will be unblocked according the date for unblocking that was calculated at the time of authorization.

This global parameter can be redefined in a Service, transaction subtype, and in a financial institution (in descending order of priority, that is the Service setup has a higher priority).

## 2.21 FROM\_SEC\_TRANS\_DATE

The global parameter regulates generation of entries for secondary documents posted using Services with the FROM\_TRANS\_DATE marker.

When the value is "Y" (default value), entries for a secondary document will be generated with their own transaction date (secondary document's SEC\_TRANS\_DATE field).

When the value is "N", entries for a secondary document will be generated with the same transaction date as that of the original document – the date specified in the secondary document's *Trans Date* (TRANS\_DATE) field. In this case, SEC\_TRANS\_DATE is not used for a secondary document.

## 2.22 HOLD\_REVERSAL

The global parameter HOLD\_REVERSAL makes it possible to block amounts when accepting an authorization reversal for a financial document posted earlier.

To do so, set the value of the global parameter HOLD\_REVERSAL to "Y". In the *Service Details* field of Services for which funds must be blocked, set the "HOLD\_REVERSAL;" tag. By default (if this setting is not made) the amount available will be changed (funds returned) after posting reversal financial documents.

## 2.23 LATE\_PRESENTMENT

LATE\_PRESENTMENT – A parameter determining the maximum allowed interval in calendar days from the transaction date to the document processing date. If the interval from the transaction date to the document processing date exceeds the parameter value, the financial document for this transaction will be declined during processing.

The parameter value is a positive whole integer; the default value is 180.

The parameter value can be redefined using the FORCE\_TRANS\_DATE; tag in the *Add Data* (add\_info) field of the document. When this tag is set, if the interval between dates is greater than the value set by the LATE\_PRESENTMENT parameter, the document will be processed.

## 2.24 MATCH\_REVERS\_INT

MATCH\_REVERS\_INT – A parameter determining the maximum interval in calendar days between the original transaction date and the reversal document posting date. The default value is 180.

If the number of days between the transaction date and the reversal document posting date exceeds the parameter value, the document is declined.

## 2.25 MULTI\_AUTH\_STRICT

If the value of the global parameter MULTI\_AUTH\_STRICT is "Y", documents with the "Hotel/Motel", "Airline" and "Vehicle Rental" SIC groups are not considered as transactions with several financial documents for one authorization, if a multiple clearing tag sent by an acquirer is not present in these documents. When the value is "Y", these documents are considered as regular transactions and are processed according to the value of the global parameter AUTH\_AMOUNT\_DIFF\_PCNT\_RETAIL (see the section "[AUTH\\_AMOUNT\\_DIFF\\_PCNT\\_RETAIL](#)").

The default value of the MULTI\_AUTH\_STRICT parameter is "N". I.e. by default, these documents are processed according to the value of the AUTH\_AMOUNT\_DIFF\_PCNT parameter (see the section "[AUTH\\_AMOUNT\\_DIFF\\_PCNT](#)").

## 2.26 NEGATIVE\_ADJ\_TO\_DISPUTE

When an adjustment document is received whose amount exceeds the amount of the original document, by default the difference between amounts is recorded in a dispute account. This default behavior corresponds to the "Y" value of the global parameter NEGATIVE\_ADJ\_TO\_DISPUTE (i.e. "Y" is the default value).

For the difference to be recorded in the client's account, set the global parameter's value to "N".

## 2.27 ORDER\_PCNT\_RULE

ORDER\_PCNT\_RULE – This parameter determines the method for calculating the amount of a standing payment order transferring a specified percentage of an account balance. The document amount for such standing payment orders is determined by the value of the *Amount Percent* field.

Parameter values:

- Empty (NULL) – In this case, a document is generated for (100 – <contents of the *Amount Percent* field>) % of an account balance; this is the default value.
- "I" – a document is generated for <value of the *Amount Percent* field>% of an account balance.

For example, if the *Amount Percent* field of a standing payment order contains "20", when the default value of the global parameter is set, a document will be generated for 80% of the account balance; when the "I" value is set, for 20% of the account balance.



The amount for a "Downgrade To" or "Upgrade To" type payment order is calculated according to a different scheme:

- Empty (NULL) – in this case, the amount of funds on the account should be reduced to the value (100 – <contents of the *Amount Percent* field>)% . The document amount will be <contents of the *Amount Percent* field>% of the amount of funds in the account.
- "I" – in this case, the amount of funds in the account should be reduced to the value (<contents of the *Amount Percent* field>)% . The document amount will be (100 – <contents of the *Amount Percent* field>)% of the amount of funds in the account.

## 2.28 PATCH\_REVERSAL\_ACCOUNT

The PATCH\_REVERSAL\_ACCOUNT parameter is used to configure recording of the difference between the settlement amount of an original document and a reversal document. The parameter value is the code of the source contract account to which the difference between amounts will be transferred.

## 2.29 PAYMENT\_TYPE\_TAGS\_TO\_SO

The global parameter PAYMENT\_TYPE\_TAGS\_TO\_SO makes it possible for tags and their values set in the *Add Info* field of the "Payment on Account Types" form to be copied (inherited) to a document created by a payment order with the corresponding payment type.

To do so, the tags, delimited by commas, must be specified as the value of this global parameter.

## 2.30 POSTING\_DATE\_DELAY

The global parameter POSTING\_DATE\_DELAY specifies the maximum allowed time interval between the posting date received from external sources and the current banking date. If the interval from the posting date to the current banking date exceeds the parameter value, the document for this transaction will be declined during processing. The parameter is not applied to internal system documents generated on the basis of Events, standing payment orders, non-transaction fees.

The parameter value is set in calendar days from "1" to "30". By default, the parameter is not set. The global parameter POSTING\_DATE\_DELAY can be redefined using the FORCE\_POSTING\_DATE tag in the *Add Date (add\_info)* field of the document. When the value of this tag is set to "Y", if the interval between dates is greater than the value set by the POSTING\_DATE\_DELAY parameter, the document will be processed.

## 2.31 PREAUTH\_SAVING\_PERIOD

PREAUTH\_SAVING\_PERIOD – determines the time interval in calendar days during which fund blocking in card accounts according to "PreAuth" authorization results is saved.

The value of the parameter is a positive integer, the default value is "30".

Funds blocked by authorizations for which financial documents were not posted in this period can be unblocked by the procedure called by the menu item "Daily Procedures → Document Processing Step by Step → Clear Old Pending".



Funds blocked as the result of offline transactions (for smart cards) can be unblocked by the procedure called by the menu item "EMV Smart Cards → Documents → Clear Old Offline Pending".



The date for unblocking funds is calculated at the time of authorization (and is registered in the credit\_history table). If the value of this global parameter is changed, the new value will be considered during new authorizations. The changed value will not affect dates calculated earlier for unblocking funds. That is, for earlier authorizations, funds will be unblocked according to the date for unblocking calculated at the time of authorization.

This global parameter can be redefined in a Service, transaction subtype, and in a financial institution (in descending order of priority, that is the Service setup has a higher priority).

## 2.32 PRESENTMENT\_TRUST\_AUTH\_CODE

The global parameter PRESENTMENT\_TRUST\_AUTH\_CODE with the "N" value allows an additional check to be made when linking an authorization document with a financial document that was found according to an authorization code. In particular, the additional check is made according to the RRN, ps\_ref\_number, and ARN parameters. If the RRN, ps\_ref\_number, and ARN parameters of the financial and authorization document differ, the documents are not linked.

By default, no additional check is made (the parameter's default value is "Y").

## 2.33 ROUNDED\_FEES

ROUNDED\_FEES – A parameter used to indicate that the fee will be rounded to a unit of the fee currency.

Parameter values:

- Empty (NULL) – fees are not rounded when calculated; this is the default value.
- The value of a Service's Fee Code field – when a financial document is posted using the Service whose Fee Code field value is specified as the value of this parameter, the fee will be rounded during calculation. If necessary, rounding can be performed for several Services; their Fee Code field values separated by commas should be specified as the parameter value.

## 2.34 SAVE\_ARN\_FOR\_CHANNEL

The global parameter SAVE\_ARN\_FOR\_CHANNEL is used to configure the procedure for reposting a document for original transactions.

The ARN field of the reposted document is copied from the original document only when the following conditions are met:

- The document's Source Channel field contains a value for which the *Is On Us* marker in the "Message Channels" dictionary has one of the following values: "Yes" or "Affiliated".

- The value of the document's *Source Channel* field is missing from the comma-delimited list of the global parameter "SAVE\_ARN\_FOR\_CHANNEL" values.

In other cases, the *ARN* field of a reposted document remains empty.

## 2.35 SECONDARY\_TRUST\_AUTH\_CODE

The global parameter **SECONDARY\_TRUST\_AUTH\_CODE** with the "N" value allows an additional check to be made when linking a secondary financial document with an original document that was found according to an authorization code. In particular, the additional check is made according to the *RRN*, *PS Ref Number*, and *ARN* parameters.

By default, no additional check is made (the parameter's default value is "Y").

If documents could not be linked, a warning is recorded in the message log: "Reference number differs for reversal/adjustment, adj doc is not matched with fin". The *Return Code* field of the new document will have a return code that corresponds to the message "Reconcile error /Auth Not found".

When linking a Chargeback, this additional check is made before searching for a previous (duplicate) Chargeback.

## 2.36 SET\_DEFAULT\_ACCOUNT

**SET\_DEFAULT\_ACCOUNT** – A parameter affecting how contract relations behave during online operations. In the current version of WAY4, online operations, including those with account selection, are only supported for bank cards registered in the system database.

Parameter values:

- "Y" (Yes) – If a contract with a corresponding relation type is not found for the card or device contract when processing an online operation, the original card or device contract will be used to process the transaction. This is the default value.
- "N" (No) – If a contract with a corresponding relation type is not found for the card or device contract when processing an online operation, the transaction will be declined.
- "F" – If when processing online operations on the device of another payment system member or an affiliate bank's device the system does not find a related contract for the card contract, the original card contract is used for processing the transaction; in similar conditions, if the operation has been executed on a device registered in the DB, the transaction will be declined.
- "E" – If when processing online transactions on the device of another payment system member a contract with the appropriate peer-to-peer relation is not found for the card contract, the source card contract's accounts will be used to process the transaction. In similar conditions, when a transaction is made on a device that is registered in the DB or on an affiliate bank's device, the transaction is declined.

## 2.37 SKIP\_TRANSIT\_MTR

This parameter with the "Y" value makes it possible to deactivate generation of transit macrotransactions. This parameter can be used to decrease the size of the database and optimise the operation of WAY4.

The SKIP\_TRANSIT\_MTR=Y; tag can be used to redefine this parameter for a financial institution.



This parameter can only be used after OpenWay's approval.

## 2.38 SKIP\_ZERO\_FEE\_DOC

The global parameter SKIP\_ZERP\_FEE\_DOC with a value of "Y" eliminates the need to generate a document when charging Misc fees, if the fee does not involve debiting funds from a contract (i.e. when the fee is zero). This setup can be used, for example, for recurring fees, card production fees, interest accrual fees (see a description of the Interest Fee Type field in the section "Interest Properties" of the document "Way4 Account Schemes"). These fees can be configured to resolve technical tasks, for example when reissuing a contract, a Misc service can be created just to define the cards Production Event.



The global parameter is not used for non-recurring fees that are charged by an Event or when a limiter activates. For these fees, a document will be generated even when the amount is zero.

The global parameter can be redefined for a financial institution using the tag of the same name.

To enable this feature, set the tag SKIP\_ZERO\_FEE\_DOC=Y; for the corresponding transaction subtypes.



These settings can be used to optimize system performances when processing documents if a large number of Misc fees with zero values are set up in WAY4 and there is a small number of non-zero Misc fees. Conversely, when there is a small number of Misc fees with a zero value and a large number of non-zero Misc fees, these settings may increase fee processing time.

## 2.39 SUBTRACT\_SURCH\_AMT\_TRN\_TYPES

The SUBTRACT\_SURCH\_AMT\_TRN\_TYPES parameter is used when recalculating the transaction amount when the acquirer fee must be excluded from the transaction amount. The parameter's value is a list of transaction type identifiers separated by commas (according to the *Trans Type IDT* field, "Full→Configuration Setup→Transaction Types→Transactions – All") for which the transaction amount will be recalculated if this functionality is enabled by financial institution or contract settings (see description of the SUBTRACT\_SURCHARGE\_AMOUNT tag). By default, the parameter is not set (empty list).

## 2.40 TRANSIT\_AUTH\_FOR\_CHANNELS

TRANSIT\_AUTH\_FOR\_CHANNELS – This parameter makes it possible to configure the necessity of searching for an authorization document when a transit document is received on a certain channel (the certain channel of an affiliate bank). To do so, a comma-delimited list of channels is specified as the parameter value. An error message is generated for all presentments going through the listed channels for which no authorization document was found.

## 2.41 UNIQUE\_SLIP\_NUMBER

UNIQUE\_SLIP\_NUMBER – A parameter used to check the uniqueness of the combination of the # (Source Registration Number) and *Contract #* field values of documents where Request Category = "Advice".

Parameter values:

- "Y" (Yes) – In document approval, the parameter is used to check the uniqueness of this combination for the interval defined by the [DOC\\_SAVING\\_PERIOD](#) parameter; if the document does not meet the uniqueness condition, it cannot be successfully processed. This is the default value.
- "N" (No) – No check is performed.

The use of this parameter assures that the original document is found for reversal operations and dispute cycle operations during the interval indicated by the [DOC\\_SAVING\\_PERIOD](#) parameter.

## 2.42 VISA\_FAST\_FUNDS

To convert documents that were imported from the clearing file and are related to Fast Funds transactions (with Fast Funds Indicator) to information documents (Chain Type=Acknowledgement), set the "Y" value of the VISA\_FAST\_FUNDS global parameter. To convert all imported Original Credit Transactions to information documents regardless of availability of Fast Funds Indicator, use the "A"

value of the specified parameter (the default value). This value is recommended when Fast Funds authorization requests are processed as financial documents.

## 3 Currency Conversion

### 3.1 AUTH\_USE\_DOMESTIC

AUTH\_USE\_DOMESTIC – A parameter affecting how the blocked amount is determined during authorization.

- If this parameter is set to "Y" (Yes), the blocked amount is the transaction amount in the transaction currency if the transaction currency is the same as the FI's local currency.
- If this parameter is set to "C", the blocked amount is the transaction amount in the transaction currency if the transaction currency is the same as the FI's local currency and the transaction country is the same as the FI's country.
- If this parameter is set to "A" (All), the blocked amount is the transaction amount in the transaction currency if the transaction currency is the same as any of the currencies used in the FI.
- If the value "N" is set (the default value), the blocked amount will be the transaction amount in the settlement currency with the appropriate currency conversion, even if the transaction currency is the same as the FI's local currency and the contract's currency.



Instead of this parameter, it is recommended to use configurations based on the [CHANGE\\_CURRENCY](#) global parameter and USE\_TRANS\_AMOUNT tag (see the section "Additional FI Parameters" of the document "Financial Institutions").



This parameter can be redefined on the financial institution level in the *Special Parms* field of the form with additional information about the financial institution (Full → Configuration Setup → Main Tables → Financial Institutions → [Details]), on the Product level in the *Custom Data* field of the "Full Info for <name of Product>" or on the Service Package level in the *Special Parms* field of the form with additional information about the Service Package (Full → Configuration Setup → Products → Service Packs → [Details]).

## 3.2 CHANGE\_CURRENCY

CHANGE\_CURRENCY – if this parameter is set, the mode for using the USE\_TRANS\_AMOUNT parameter is enabled, which determines the way for calculating the amount debited from "on-us" cards when posting a financial document imported from a payment system, and the amount of funds blocked when processing an authorization request. If the CHANGE\_CURRENCY parameter is set, WAY4 checks the value of the USE\_TRANS\_AMOUNT tag on the level of the financial institution, Service Package or Product.

The global parameter's value is the code of the type of account used to record the difference between the Transaction Amount and Settlement Amount when these amounts are in the same currency.

The code of the account set as the CHANGE\_CURRENCY value is used to search for the account only in the event of different Transaction Amount and Settlement Amount amounts in the same currency.

When determining the debited/blocked amount in other situations, the value of the CHANGE\_CURRENCY global parameter will be considered exclusively as enabling the mode for checking the USE\_TRANS\_AMOUNT tag.

For more information, see the section "Calculating the Debited Amount (USE\_TRANS\_AMOUNT tag)" of the document "Financial Institutions".



It is not recommended to set the value of the CHANGE\_CURRENCY global parameter to "Y". This value remains for backward compatibility. If "Y" is specified, USE\_TRANS\_AMOUNT tag settings may be redefined (among other things, the tag's absence may be ignored). In particular, when USE\_TRANS\_AMOUNT=N and CHANGE\_CURRENCY=Y, if the transaction currency matches the settlement currency, the value of the USE\_TRANS\_AMOUNT tag will be redefined to "Y" (i.e. entries are generated as for USE\_TRANS\_AMOUNT=Y;).



These settings do not work for secondary transactions. I.e., these settings do not influence, for example, calculation of the amounts of secondary financial documents in a dispute cycle (Chargeback, Representment).

## 3.3 FX\_MARGIN\_MODE

The global parameter FX\_MARGIN\_MODE is used to configure recording (withholding) of the FX margin. To enable the FX margin mode, set the parameter value to "Y".

## 3.4 FX\_RATE\_INVERSE

FX\_RATE\_INVERSE – A flag to invert rates. If this parameter is set to "N" (No, the default value) the conversion rate (Buy, Sell, Middle, CB Rate) is indicated in units of the local currency to units of the conversion currency. For example, if the local currency is Danish krones, and the conversion currency is US dollars, then the middle rate may be indicated as 6.55 DKK/USD. If this parameter is set to "Y" (Yes), the conversion rates are indicated in units of the conversion currency to units of local currency. For example, if the local currency is Danish krones and the conversion currency is US dollars, the middle rate may be indicated as 0.15 USD/DKK.

## 3.5 RESERVE\_CALC\_IN\_LOCAL\_CURRENCY

This parameter is used when calculating a reserve for currency accounts.

- When the parameter value is "Y", the account balance is converted into the local currency, after which the reserve is calculated.
- When the parameter value is "N" (or if the value is not set), first a reserve for the account is calculated in a foreign currency and then converted into the local currency.

The parameter works for both group and individual reserving. In group reserving, the client account balances in one currency are totalled and then the RESERVE\_CALC\_IN\_LOCAL\_CURRENCY parameter is applied.

## 3.6 USE\_AUTH\_FX

USE\_AUTH\_FX – A parameter that determines by the date for the FX rate used in conversion when processing the financial document. If this parameter is set to "Y" (Yes), conversion will take place when posting the financial document according to the rate on the authorization date. If this parameter is set to "N" (No, the default value) conversion will take place according to the rate on the posting date.

If the USE\_AUTH\_FX parameter is set to "P", the USE\_AUTH\_FX tag is analysed to determine an FX rate. If the tag is set to "Y", the FX rate on the authorization document date is used. If the tag is set to "N" or not specified, the FX rate on the financial document date is used.

The USE\_AUTH\_FX tag can be set:

- On the Product level – in the *Custom Data* field of the "Full Info for <name of Product>" form.
- On the Service Package level – in the *Special Parms* field of the "Service Packs" form.
- On the financial institution level – in the *Special Parms* field of the "Details for <name of financial institution>" form.



On the financial institution level, the USE\_AUTH\_FX tag is checked regardless of the global parameter's value.

## 3.7 USE\_BRANCH\_FX\_ACC

The global parameter USE\_BRANCH\_FX\_ACC is used to specify special accounts for FX transaction calculations instead of "Trade Account" and "Reveal Account" specified in the FX Scheme.

This functionality is used in the following way:

- The value of the global parameter USE\_BRANCH\_FX\_ACC should be set to "Y".
- Create a bank contract "<bank contract number prefix>-FX" for the head financial institution.
- Create a bank contract "<bank contract number prefix>-FX\_<branch code>" for the branch.

These bank contracts will be used when making conversion entries:

- If the "Branch" parameter value for a client contract corresponds to the aforementioned \_<branch code>, the FX entry will be recorded on the bank contract "<bank contract number prefix>-FX\_<branch code>".
- If the "Branch" parameter is not specified for a client contract, the FX entry will be recorded on the contract "<bank contract number prefix>-FX".
- If for a client contract a branch code is specified for which the bank contract "<bank contract number prefix>-FX\_<branch code>" was not created, the entry will not be generated.

## 3.8 USE\_CROSS\_FX

USE\_CROSS\_FX – A flag to use the cross rate. This parameter determines how conversion will be made from one foreign currency to another. If this parameter is set to "Y" (Yes), conversion will be made directly between the conversion accounts of these currencies according to the cross rate calculated by the system across the rates of each foreign currency to the local currency. Conversion accounts in the local currency are not used.

If the parameter is set to "N" (No, the default value), the amount in the original foreign currency will be converted to the local currency, and the amount obtained will be converted into the second foreign currency.

A tag with the same name can be used to redefine the parameter for a financial institution.

# 4 Posting of Macrotransactions

## 4.1 BALANCE\_XF\_CODE

BALANCE\_XF\_CODE – A parameter used along with the global parameter [OFF\\_BALANCE\\_XF\\_CODE](#) to separate the balance and off-balance accounting subsystems.

If it is necessary to transfer funds from the contract's balance account to the off-balance account of the same contract, the system will make two entries (see [figure](#)):

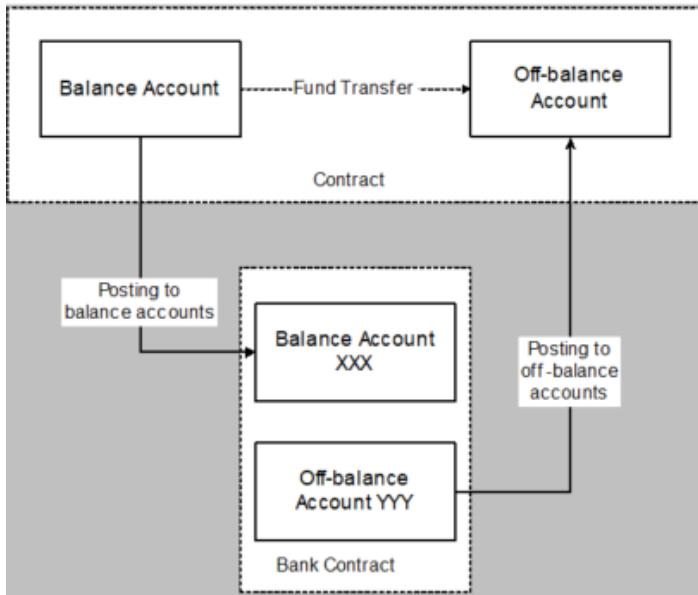
- From the original account to the balance account of the bank contract indicated as the interest contract in the original account's template.
- From the off-balance account of the above mentioned bank contract to the off-balance account of the original contract.

To execute these entries, it is necessary that: first, both accounts of the original contract refer to the same bank contract as the interest contract, and second, the accounts of the bank contract that will participate in the entries are indicated.

The bank contract's accounts that are required to execute these entries may be defined on the account template level of the original contract. If the bank contract's accounts are not indicated in the original contract's account templates, the system will use the values of the global parameters [BALANCE\\_XF\\_CODE](#) and [OFF\\_BALANCE\\_XF\\_CODE](#) to execute the entries.

The parameter [BALANCE\\_XF\\_CODE](#) is used to indicate the balance account of the bank contract (account XXX in [figure](#)). The parameter value is the account type code; the default value is empty (NULL).

The parameter [OFF\\_BALANCE\\_XF\\_CODE](#) is used to indicate the off-balance accounts of the bank contract (account YYY in [figure](#)). The parameter value is the account type code; the default value is empty (NULL).



*Separation of balance and off-balance accounting systems*

## 4.2 BASE\_AMOUNT\_FX\_RATE\_TYPE

The global parameter `BASE_AMOUNT_FX_RATE_TYPE` is used to support conversion of the fees Fee Base, Fee Min and Fee Max at the rate set in the *FX Rate Type* field of the contract's Service. To do so, the global parameter `BASE_AMOUNT_FX_RATE_TYPE` must be assigned the "SERVICE" value.

The global parameter's default value is "M". Conversion is made at the Middle rate.

The parameter can be set (redefined) in the Service using the tag of the same name.

## 4.3 BRANCH\_DELAY\_ACC

`BRANCH_DELAY_ACC` – A parameter used in time zone mode (see [USE\\_TIME\\_ZONE](#)).

The parameter's value is a letter that represents the code of a transit account type belonging to the FI's (branch's) routing contract. These transit accounts are used in asset-liability account pairs and used in posting documents to "delay" funds in order to standardize the bank date of FIs located in different time zones.

## 4.4 CB\_TERRITORY\_ADDR

`CB_TERRITORY_ADDR` – A parameter used to determine the geographical location of contracts when gathering statistics.

The parameter value is the Address Type used for determining the location of contracts when it is necessary to gather statistical data by location.

## 4.5 CB\_TERRITORY\_ADDR\_TAG

CB\_TERRITORY\_ADDR\_TAG – this parameter is used to specify the territory to which contracts belong when collecting statistics (for more information, see the document "WAY4™ Statistical Report Data Preparation"). Used together with the CB\_TERRITORY\_ADDR parameter. The value of the CB\_TERRITORY\_ADDR\_TAG parameter is a variable that delivers data from a specific field of the contract address table (the address type is set by the parameter CB\_TERRITORY\_ADDR). For more information on variables, see the document "Configuration of Client Messages" section.

Starting from version 03.34.30, the value of the CB\_TERRITORY\_ADDR\_TAG is set by default to:  
SUBSTR(%ADDR\_MUNICIPALITY\_CODE%,1,2).

This means that data for grouping will be taken from the first two places of the MUNICIPALITY\_CODE field of the additional address record registered for a contract or client (from the CLIENT\_ADDRESS table) with the address type set using the CB\_TERRITORY\_ADDR parameter.



In earlier versions, the default value of this parameter was %ADDR\_ZIP%, meaning data was grouped by the values of the ADDRESS\_ZIP field of the additional address record registered for a contract or client with the address type set using the CB\_TERRITORY\_ADDR parameter.

## 4.6 CORP\_STAT\_CONF

The global parameter CORP\_STAT\_CONF determines which *Service Class* values must be present in the macrotransaction to apply the conditions in the statistics scheme to statistics gathering.

The parameter value is the *Service Class* code with the addition of the symbol ";". For example, CORP\_STAT\_CONF = T; or CORP\_STAT\_CONF = T;M;;

## 4.7 DIRECT\_OVL\_NORMALIZATION

DIRECT\_OVL\_NORMALIZATION – determines what GL entries are generated during amount normalization if a deposit account has a negative balance and a zero credit limit.

Parameter values:

- "N" (No) – normalization is performed in two steps: first, funds are transferred to the loan account and then to the overdraft account (OVL). This is the default value.
- "Y" (Yes) – normalization is performed in one step: funds are transferred directly to the overdraft account.
- "S" – this value is used if there are several sets of current, loan and overdraft accounts (e.g. when accounting for retail and cash withdrawal transactions must be done separately); normalization is performed in two steps, as for the "N" value, but the priority of loan accounts is not considered.

- "B" – normalization is performed in one step; like with the "Y" value if a deposit account has a negative balance and a zero credit limit, funds are transferred directly to the overdraft account but if the "OVL" account is past due and a credit limit is increased: the "OVL" account balance is paid from the "CH Current/Credits" account, and not from the loan account. Then, a new loan is generated when funds are transferred from the "CH Current/Credits" account to a loan account.

## 4.8 DM\_ID\_CACHE\_LEN

DM\_RECORD\_ID field cache size.

The default value is 20.

It is recommended to increase the value of the parameter (for example, to set 1000) if blockings occur for the NUM\_SEQ\_RANGE table when a large volume of data is inserted into the DM\_RECORD table.

## 4.9 DOC\_STAT\_BY\_GL\_DATE

DOC\_STAT\_BY\_GL\_DATE – A parameter affecting how statistics are gathered on macrotransactions (financial documents).

Parameter values:

- "N" (No) – Statistics gathering takes place on the posting date; this is the default value.
- "Y" (Yes) – Statistics gathering takes place on the local date; that is, the date on which the macrotransaction is recorded in the General Ledger.

## 4.10 DOC\_STAT\_BY RELATED

DOC\_STAT\_BY RELATED – A parameter affecting how statistics are gathered for financial documents on additional online operations, for example, mobile phone service payments, pre-paid services, etc. at ATMs.

Parameter values:

- "Y" (Yes) – Statistics are gathered on related contracts (ATM Retail). This is the default value.
- "N" (No) – Statistics are gathered on contracts of the ATMs at which the operation was executed, and not on related contracts (ATM Retail).

## 4.11 DUE\_FOR\_SKIP\_DUE

The DUE\_FOR\_SKIP\_DUE parameter is used to set up rules for working with an Event (a hardcoded DUE\_FOR\_<account type code> Event), if funds are not transferred to the next delinquency account according to the configuration of the MIN\_DUE/MIN\_TOTAL\_DUE parameters (see the section "Reclassifying Delinquency" of the document "WAY4™ Advanced Tariff Management").

If a hardcoded DUE\_FOR\_<account type code> Event must not be opened, set the value of the global parameter to "N".

If a different Event must be opened, set the prefix of the corresponding Event type code (instead of the DUE\_FOR\_ prefix) as the value of the DUE\_FOR\_SKIP\_FOR global parameter. When normalization for an account is reversed, a search is made for the Event type with the code <specified prefix><code of the account type for which due normalization is reversed>.

## 4.12 DUE\_FOR\_WAIVED\_PD

The DUE\_FOR\_WAIVED\_PD parameter is used to set up rules for working with an Event (a hardcoded DUE\_FOR\_<account type code> Event) if correction of the delinquency level (return to the previous delinquency level) is not performed according to the configuration of the WAIVED\_PD and WAIVED\_PD\_MODE parameters (see the section "Reclassifying Delinquency" of the document "WAY4™ Advanced Tariff Management").

If a hardcoded DUE\_FOR\_<account type code> Event must not be opened, set the value of the global parameter to "N".

If a different Event must be opened, set the prefix of the corresponding Event type code (instead of the DUE\_FOR\_ prefix) as the value of the global parameter DUE\_FOR\_WAIVED\_PD. When normalization for an account is reversed, a search is made for the Event type with the code <specified prefix><code of the account type for which due normalization is reversed>.

## 4.13 DUE\_TO\_WRK\_DAY

DUE\_TO\_WRK\_DAY – A parameter affecting how due normalization macrotransactions are posted to accounts. The parameter's main use is to shift the normalization date to a working day if the normalization due date falls on a weekend or holiday.



The global parameter DUE\_TO\_WRK\_DAY works together with the PAYMENT\_DUE\_ADVANCE global parameter. For information about how various combinations of these parameter values affect the shift in the normalization date, see the description of DUE\_TO\_WRK\_DAY parameter values and the figures in the section "[PAYMENT\\_DUE\\_ADVANCE](#)".

Parameter values:

- "Y" (Yes) – When generating due normalization macrotransactions, if the posting date falls on a weekend or a holiday, the posting date and local date are determined as follows:
  - When the value of the global parameter PAYMENT\_DUE\_ADVANCE is "Y" – the date of the next working day (for example, Monday, if the normalization due date falls on a Saturday).
  - When the value of the global parameter PAYMENT\_DUE\_ADVANCE is "N" – if the normalization due date falls on a Saturday, Sunday, or Monday, the normalization date will be

shifted to Tuesday. If the due date falls on a Monday, the normalization date is shifted from Monday to Tuesday (when DUE\_TO\_WRK\_DAY="Y" and PAYMENT\_DUE\_ADVANCE="N") because Monday is often opened on Friday. In this case, normalization when opening Monday will not meet conditions set with these parameters.

For more information, see figures in the section "[PAYMENT\\_DUE\\_ADVANCE](#)".

If the "Contract Due" value is set in the *Due Type* field of the account template, the value of the DUE\_TO\_WRK\_DAY parameter is always interpreted as "Y" (regardless of the global parameter's settings) and can only be redefined on the date scheme level (see the document "Contract Functional Dates").

- "N" (No) – when generating a due normalization macrotransaction, if the posting date falls on a weekend or holiday, the posting date and local date are determined as follows:
  - When PAYMENT\_DUE\_ADVANCE="Y" – the date of the last working day before the weekend/holiday (if the normalization due date falls on a Saturday, for example, normalization is performed when closing Friday).
  - When PAYMENT\_DUE\_ADVANCE="N" – the macrotransaction date is set regardless of weekends and holidays. For example, if the normalization due date falls on a Saturday, the macrotransaction will be posted when Monday is opened, but Saturday will be specified as the Posting Date and Monday as the GL date. This is the default value of the parameter.

For more information, see figures in the section "[PAYMENT\\_DUE\\_ADVANCE](#)".



The global parameter DUE\_TO\_WRK\_DAY="N" together with the global parameter PAYMENT\_DUE\_ADVANCE="Y" affects how due normalization macrotransactions are posted on working days. Normalization is performed when closing the day that precedes the normalization due date (for example, when Due Date falls on a Wednesday, normalization will be performed when closing Tuesday). For more information, see the section "[PAYMENT\\_DUE\\_ADVANCE](#)".

The global parameter DUE\_TO\_WRK\_DAY affects calculation of an Event's End Date. For more information see the section "Closing Events" of the document "Events".

The global parameter DUE\_TO\_WRK\_DAY can be redefined using the *Due To Work Day* parameter in an account template.

## 4.14 FULL\_TRANS\_CODES

FULL\_TRANS\_CODES – when the value is "Y", the parameter makes it possible to generate transaction codes (the *GL Trans Code* field of the "GL Entries – Full Info" form (until 03.35.30, the "GL Transfer – All" form)) without truncating each of the three transaction code components to two characters. The default value is "N" (by default, transaction code components are truncated to two characters).

## 4.15 FX\_MARGIN\_CURRENT\_RATE

FX\_MARGIN\_CURRENT\_RATE – determines the date on which rates are taken for calculating the FX rate difference (Local Date or Posting Date). The parameter is used to configure calculation of the FX rate difference when reversing a transaction or posting a macrotransaction on a closed banking day during execution of internal system processes (for example, when accruing interest).

Parameter values:

- By default (if the parameter is not set or its value is "N"), rates for calculating the FX rate difference are taken on the macrotransaction's Posting Date. If a macrotransaction is reversed, rates will be calculated on the Posting Date of the original (being reversed) macrotransaction.
- When the value is "Y", the FX rate difference will be calculated based on the current rates of the country's Central Bank. If a macrotransaction is reversed, the FX rate difference will be calculated according to the rates on the current banking date (on the Local Date of the reversal macrotransaction) and not at rates on the Posting Date of the reversal macrotransaction.

## 4.16 HEADOFFICE\_DELAY\_ACC

HEADOFFICE\_DELAY\_ACC – A parameter used in time zone mode (see [USE\\_TIME\\_ZONE](#)).

This parameter's value is a letter that represents the code of a transit account type belonging to the FI's (head office's) routing contract. These transit accounts are used in asset-liability account pairs and used in posting documents to "delay" funds in order to coordinate the bank dates of FIs located in different time zones.

## 4.17 INTERBRANCH\_XF\_CODE

INTERBRANCH\_XF\_CODE – A parameter defining the FI's dispute contract account used for posting that becomes necessary after transferring a contract from one FI to another for transferring balances to client balance accounts.

To transfer a contract from one FI to another, the dispute contracts of both FIs must contain accounts with the code defined by this parameter.

The parameter value is the code of the dispute contract's account; the default value is NULL.

## 4.18 INTERBRANCH\_XF\_CODE\_OFFB

INTERBRANCH\_XF\_CODE\_OFFB – A parameter determining a financial institution's dispute contract account used for generating entries required after transferring a contract from one financial institution to another, for transferring balances to client off-balance accounts.

To transfer a contract from one FI to another, the dispute contracts of both FIs must contain accounts with the code defined by this parameter.

The parameter value is the code of the dispute contract's account; the default value is NULL.

## 4.19 INTEREST\_DELAY

INTEREST\_DELAY – This parameter affects how dates are determined for the following system processes:

- The parameter specifies the date from which interest is accrued and the date to which interest is accrued, and consequently, the posting date of interest accrual macrotransactions.
- This parameter also affects the date of posting due normalization macrotransactions at the end of a billing cycle.
- The parameter affects the Posting Date of recurring Misc fees (for example, fees with the "End Billing" value of the *Charge Event* field) that are taken at the end of a billing cycle. The GL Date of these fees is specified as the last date of the billing cycle that is being closed and the Posting Date depends on the INTEREST\_DELAY parameter.

INTEREST\_DELAY parameter values:

- "N" (No) – Interest is accrued from the day the account is replenished until the day before the day before the day funds are withdrawn from the account, inclusively; this is the default value.  
For example, 100 US dollars entered the account on the 5th day, and 100 US dollars were withdrawn from the account on the 15th day of the month, interest will be accrued for the funds held in the account from the 5th until the 14th day of the month.  
When the parameter is set to this value and funds are transferred to an account during one billing cycle and withdrawn from the account during another billing cycle, then interest is accrued up to the last day of a billing cycle (inclusively) when the billing cycle is closed and the processing date of the interest accrual macrotransaction is set to the first day of the next billing cycle. For example, when a billing cycle lasts 1 month (from the 1st to the 31st day) and INTEREST\_DELAY="N", the macrotransaction posting date will be the 1st day of the new billing cycle.  
For due normalization macrotransactions, the macrotransaction posting date will be the first day of the new billing cycle.  
For recurring Misc fees that are taken at the end of a billing cycle, the Posting Date is the first date of the new billing cycle.
- "Y" (Yes) – Interest is accrued from the day after the day the account is replenished until the day funds are withdrawn from the account inclusively.  
For example, 100 US dollars entered the account on the 5th day, and 100 US dollars were withdrawn from the account on the 15th day of the month, interest will be accrued for the funds held in the account from the 5th until the 14th day of the month.  
When the parameter is set to this value and funds are transferred to an account during one billing cycle and withdrawn from the account during another billing cycle, then interest is accrued up to the last day of a billing cycle (inclusively) and the interest accrual macrotransaction is posted on the last day of the closing billing cycle. For example, when a billing cycle lasts 1 month (from the 1st to the 31st day) and INTEREST\_DELAY="Y", the macrotransaction posting date will be the 31st day of the closing billing cycle.

For due normalization macrotransactions, the macrotransaction posting date will be the last day of the closing billing cycle.

For recurring Misc fees that are taken at the end of a billing cycle, the Posting Date is the last date of the closing billing cycle.

The global parameter can be redefined using a tag with the same name in the financial institution.



When the global parameter INTEREST\_DELAY with the "Y" value is used together with the USE\_DATE\_OPEN tag (the tag is specified in the *Special Params* field of the Account Scheme) interest on the account for the first billing cycle is accrued beginning from the day after the contract was opened.



When changing the current value of the Interest Delay parameter, note the following:

- This parameter determines the algorithm for calculating interest – the number of days for which interest on a transaction is calculated depends on the parameter. It is not recommended to change the parameter's value in the middle of a banking day, as this will cause some transactions to be processed according to one rule for calculating interest and some according to a different rule.
- The parameter can be changed ONLY after processing all transactions for the current banking day, before executing the "Contracts – Daily Update" procedure.
- When this condition is met, interest on transaction made in the new banking day will be calculated using the new algorithm.

## 4.20 INTEREST\_IN\_CYCLE

INTEREST\_IN\_CYCLE – A parameter determining in which billing cycle the macrotransaction for interest accrual will be reflected in the General Ledger and in a statement of the contract's accounts.

Parameter values:

- "Y" (Yes) – Interest for the billing cycle is accrued on the last day of the closing billing cycle, that is, the local date (i.e. the date when accounting entries are reflected in the General Ledger) is the last day of the closing billing cycle. Interest accrual will be reflected in the statement for the closing billing cycle.
- "P" – Interest for the billing cycle is accrued on the last working date of the closing billing cycle, that is, the local date (i.e. the date when accounting entries are reflected in the General Ledger) is the last working day of the closing billing cycle. Interest accrual will be reflected in the statement for the closing billing cycle.

- "N" (No) – Interest for the billing cycle is accrued on the first working day of the opening billing cycle, that is, the local date (i.e. the date when accounting entries are reflected in the General Ledger) is the first working day of the opening billing cycle. Interest accrual will be reflected in the statement for the opening billing cycle. This is the default value of the parameter.
- "B" – interest for a billing cycle is accrued on the first working day of the opening billing cycle, i.e. the date the entries are recorded in the General Ledger (Local Date) is the first working day of the opening billing cycle. Interest will be shown in a statement for the closing billing cycle.
- "D" – interest for a billing cycle is accrued on the first day of the opening billing cycle. Interest accrual will be reflected in the statement for the closing billing cycle.

The parameter INTEREST\_IN\_CYCLE can be redefined on the Account Scheme level using the INT\_IN\_CYCLE tag.

The EOM\_INT\_MODE tag redefines the global parameter INTEREST\_IN\_CYCLE (or the INT\_IN\_CYCLE tag set in an Account Scheme) with regard to specifying the GL Date of macrotransactions for accruing interest at the end of the month (see the section "EOM\_INT\_MODE" of the document "Interest Accrual", section "Special Params" of the document "WAY4 Account Schemes").

## 4.21 MULTICURRENCY\_NORMALIZATION

MULTICURRENCY\_NORMALIZATION – This parameter specifies how multi-currency normalization is performed.

- When this parameter is set to "N" (No), limit normalization will occur only using the accounts indicated in the normalization configuration. Contract accounts of the same type registered in other currencies will not be used in normalization.
- If this parameter is set to "Y" (Yes; the default value), normalization is executed by indirect multi-currency normalization. In this case, limit normalization for any account will also affect other contract accounts of the same type registered in other currencies. For example, if there are not enough funds on the deposit account registered in the local currency to repay a loan, additional funds for repayment may be taken from a deposit account registered in a foreign currency. During multi-currency normalization, currency may be converted either at a basic FX rate or at the rate of an additional FX type indicated in the Account Scheme.

The global parameter MULTICURRENCY\_NORMALIZATION can be redefined in an Account Scheme's *Special Norm* field (see the section "Special Norm" of the document "Account Schemes").



When there are normalizing standing payment orders, these payment orders are used for multi-currency normalization regardless of the value of the global parameter MULTICURRENCY\_NORMALIZATION. In this type of multi-currency normalization, currency may be converted either at the main rate or at an additional FX type rate specified in the Account Scheme. For more information, see the section "Multi-currency Normalization" of the document "Standing Payment Orders".

## 4.22 NEW\_INTERBRANCH\_ROUTING

The global parameter NEW\_INTERBRANCH\_ROUTING with the "Y" value enables the new Interbranch routing mode. When the value is "N", a new Interbranch routing mode is not enabled.

Special settings should be preconfigured in WAY4 (see the section "Configuring Interbranch Routing" of the document "Financial Institutions").



During initial installation of Way4 starting from version 03.40.10:

- The value of the global parameter NEW\_INTERBRANCH\_ROUTING is "Y" by default in standard configurations.
- For earlier versions, the parameter's default value is "N". That is, for earlier implementations, standard (new) interbranch routing mode is not enabled by default.



The global parameter NEW\_INTERBRANCH\_ROUTING specifies the mode for generating transit entries. When Account Schemes, bank contracts and the "Interbranch Routing" table are configured according to new routing standards, the new routing settings become effective immediately for documents whose "Source" or "Target" contract is in the head office.

## 4.23 NO\_DUE\_DLQ\_CODE

The parameter NO\_DUE\_DLQ\_CODE is used starting from version 03.48.30 for new installations of WAY4. The parameter determines the Dlq code for the "No Debts" value of the DLQ\_LEVEL classifier. By default, the global parameter's value is "0". The value can be redefined. Also see the description of the *Dlq Code* field in the section "Registering Balance Types" of the document "Balance Types" and section "Configuring the "DLQ\_LEVEL" System Classifier" of the document "WAY4 Client and Contract Classifiers".

## 4.24 OFF\_BALANCE\_XF\_CODE

OFF\_BALANCE\_XF\_CODE – A parameter used together with global parameter BALANCE\_XF\_CODE to separate the balance and off-balance accounting subsystems.

To use this parameter, see the description of the parameter [BALANCE\\_XF\\_CODE](#).

## 4.25 ONLINE\_NORMALIZATION

ONLINE\_NORMALIZATION – A parameter determining whether limit normalization will take place during posting.

Parameter values:

- "Y" (Yes) – Accounts used to create the macrotransaction will be normalized during posting; this is the default value.
- "N" (No) – Accounts will be normalized when a special user menu item ("Full → DB Administrator Utilities → Special Contract Utilities → Limit Normalization") is selected or when the contract and Account Scheme are approved.

## 4.26 PATCH\_REVERSE\_INTEREST

PATCH\_REVERSE\_INTEREST – A parameter used when reversing an operation in the event that limit normalization or due normalization was performed in the period from the creation of the original operation to its reversal.

When reversing a financial operation, if limit normalization or due normalization was not performed in the period from the creation of the original operation to its reversal, the posting date for the reversed document is the same as the posting date of the original document with the recalculation of accrued interest.

If limit normalization or due normalization took place in the period from the creation of the original operation to its reversal, the system generates a warning and the posting date for the reversed document is the value of the parameter PATCH\_REVERSE\_INTEREST.

Parameter values:

- "N" – the posting date of the reversed document is the same as the original document's posting date.
- "Y" (Yes) – The posting date of the reversed document will be the posting date of the original document, if during the period from the time the original transaction was registered to its reversal limit normalization or due normalization was not performed. If normalization was performed, the posting date of the reversal document is the same as the current banking date.
- "0" – The posting date of the reversed document will be the current banking date, this is the default value.

When this value is specified, interest is accrued for accounts during the period from the original document's posting date to the reversed document's posting date. Use the Reversal Management module to recalculate accrued interest. See the document "Reversal Management Limited" (module basic functionality) or the document "Reversal Management (full version of the module).



The full version of the Reversal Management module is provided according to an additional agreement OpenWay.

- "C" – The posting date of the reversed document will be determined using a custom procedure.

## 4.27 PERS\_FEE\_CODES

The global parameter PERS\_FEE\_CODES makes it possible to specify the account to which a fee will be transferred (Fee Account) within a client contract (usually a fee is transferred to the account of the bank contract specified in Service parameters). The value of the global parameter PERS\_FEE\_CODES is a comma-delimited list of Fee Codes for which this operation will be executed.

When processing a macrotransaction with Services of the specified type, the client contract is searched for an account with the same code as the bank contract account specified in the Service.

When this account is missing from the contract, an error message is displayed and the fee is transferred to the corresponding bank contract account.

## 4.28 POST\_DUE

POST\_DUE – A parameter affecting how pending macrotransactions for due normalization (on the local date, i.e. the date the macrotransaction is reflected in the General Ledger) of accounts with the normalization type "End Cycle Due" and "Quarter" are posted at the opening of a new billing cycle.

Parameter values:

- "Y" (Yes) – macrotransactions with the posting date that is the same as the opening date of a new billing cycle are posted on the last business day of the previous billing cycle: the local date (GL Date) of the macrotransactions will correspond to the closing date of the previous billing cycle, that is, these macrotransactions will affect the outgoing balance of the closing billing period and the incoming balance of the opening billing period. This is the default value.
- "P" – macrotransactions with the posting date that is the same as the opening date of a new billing cycle are posted on the last business day of the previous billing cycle: the local date (GL Date) of the macrotransactions will correspond to the last business day of the previous billing cycle.
- "N" (No) – Macrotransactions with a posting date that equals the opening date of the new billing cycle will be reflected on the first day of the new billing cycle and will not affect the balance of the closing billing cycle: the local date (GL Date) of the macrotransactions will correspond to the first day of the new billing cycle.
- "D" – Macrotransactions with a posting date that corresponds to the opening date of a new billing cycle will be reflected on the first day of the new billing cycle, even if this day falls on a non-business day: the local date (GL Date) of the macrotransactions will correspond to the first day of the new billing cycle.

## 4.29 POST\_REVERSED\_MTR

POST\_REVERSED\_MTR – determines how macrotransactions are processed if an adjustment or reversal is received when there are macrotransactions that have not yet been processed.

Parameter values:

- "N" (No) – macrotransactions for the original and reversal documents are not processed. For an adjustment document, when the value is "N", only one macrotransaction for the corrected (new) amount is processed, the macrotransaction for the original document and the macrotransaction for the adjustment document are not processed.
- "Y" (Yes) – macrotransactions for the original and adjustment documents are processed, and GL traces are generated; this is the default value. During processing of the original macrotransaction, limit normalization is not performed.

- "L" – macrotransactions for the original and adjustment documents are processed, and GL traces are generated. During processing of the original macrotransaction, limit normalization is performed and then reversed (the corresponding secondary macrotransactions are generated).

## 4.30 SHIFT\_DATE\_FROM\_TO\_WRK\_DAY

The parameter SHIFT\_DATE\_FROM\_TO\_WRK\_DAY makes it possible when defining a normalization period to shift the start date of this period to a work day if the original date falls on a non-working day. Parameter values:

- "Y" – enables the mode for shifting a normalization period start date to a working day. This mode can be redefined on the account template level using the SHIFT\_DATE\_FROM\_TO\_WRK\_DAY tag with the "N" value (disables date shifting in a certain template).
- "N" – a normalization period start date will not be shifted to a working day (default value). Settings in an account template with the SHIFT\_DATE\_FROM\_TO\_WRK\_DAY ("Y", "N") tag are ignored.
- "C" – the normalization period start date is calculated based on the account template. If the tag SHIFT\_DATE\_FROM\_TO\_WRK\_DAY ("Y", "N") is set in the template, these settings are used when calculating the normalization period. If the tag is not set, dates are not shifted and default system behaviour is supported.



If contract functional dates are used (see the document "Contract Functional Dates"), this global parameter is used in calculating the date if the *Shift Base Date* field in date calculation rules is not filled in and the *Base Date* date falls on a weekend/holiday. In this case, when the value of the global parameter is "N", there is no shift. When the value is "Y", the date is shifted to the first working day after the weekend/holiday. If contract functional dates are used, the global parameter can be defined for a tariff by using the tag SHIFT\_DATE\_FROM\_TO\_WRK\_DAY ("Y", "N", "P", "+", "-").

## 4.31 SHIFT\_MTR\_GL\_DATE

The SHIFT\_MTR\_GL\_DATE parameter allows shifting the date of posting a macrotransaction (entries within the macrotransaction) to GL accounts (Local Date) to a working day if this date falls on a non-working day according to the results of applying other system settings affecting Local Date (for example, INTEREST\_IN\_CYCLE, POST\_DUE).

Parameter values:

- When the "+" value is set, the GL Date is shifted to the first working (banking) day after the non-working days.
- When the "-" value is set, the GL Date is shifted to the last working date before the non-working days.

For example, for interest accrual entries, the parameter SHIFT\_MTR\_GL\_DATE is checked if the value of the INTEREST\_IN\_CYCLE is "Y" and the Local Date of the entry fell on a non-working day. If the value of the INTEREST\_IN\_CYCLE is "N", the SHIFT\_MTR\_GL\_DATE parameter is not checked.

This global parameter can be redefined on the standing payment order level using the tag of the same name. See the section "Tags used when processing standing payment orders" of the document "Setup Tags".

## 4.32 SPC\_NORM\_CODES

SPC\_NORM\_CODES – A parameter defining how codes for limit normalization macrotransactions or ageing macrotransactions are formed (Ageing).

Parameter values:

- "N" (No) – Limit normalization macrotransaction codes are created in the following format: <letter value indicating a Service class ID><code of normalized account>; this is the default value.
- "Y" (Yes) – Limit normalization macrotransaction codes are created in the following format: <letter value indicating a Service class ID><code of normalized account><code of account used for normalization>.
- "F" – ageing macrotransaction codes are created in the following format <letter value indicating a Service class ID><code of normalized account><code of account used for normalization>.

## 4.33 STORNO\_TYPE

STORNO\_TYPE – A parameter defining to which accounts posting will occur during a reversal operation on the accounts of an asset-liability pair.

Parameter values:

- "Y" (Yes) – Reversal operations on the account of an asset-liability pair will be posted to the same accounts as the original operation, that is, the system will reverse the entry; this is the default value.
- "N" (No) – Reversal operations on the account of an asset-liability pair will always be posted to the pairs of the accounts used in the original operation.
- "B" (Billing) – Operations reversing the current billing cycle's operations, excluding those executed on the first day of the billing cycle, will be posted to the same accounts as the original operation; that is, entries for the original operations will be reversed; reversals for operations executed during previous billing cycles and on the first day of the current billing cycle will be posted to the pairs of the accounts used in the original operation.
- "D" (Day) – Operations used to reverse operations executed on the current banking date (or a later date) will be posted to the same accounts used in the original operation; that is, entries for the original operations will be reversed; reversals for operations executed on previous days will be posted to the pairs of the accounts used in the original operation.

The global parameter can be redefined using the STORNO\_TYPE tag in the account template.

## 4.34 SUSPEND\_NEGATIVE\_INTEREST

The "Y" value of the SUSPEND\_NEGATIVE\_INTEREST parameter makes it possible to not pay negative interest from the deposit account (if a negative balance arises in the deposit account), and positive interest from the loan account (if a positive balance arises on the loan account).

Payment of interest is deferred to the next billing cycle.

## 4.35 SYNC\_ENTRY\_GL\_TRANS\_CODE

The global parameter SYNC\_ENTRY\_GL\_TRANS\_CODE with the "Y" value enables the mode to synchronise a code for an entry in the ENTRY table (trans\_code field) with the code for an entry in the GL\_TRACE table (gl\_trans\_code field). I.e. in this mode, the code for an entry from the GL\_TRACE table is inherited to the ENTRY table.

This mode can be enabled when the CUST\_TRANS\_CODE procedure is used. The procedure makes it possible to generate entry codes according to custom rules. For more information, see the section "Entry Codes" of the document "WAY4 Accounting".

The global parameter can be redefined using the tag with the same name for a financial institution.

## 4.36 USE\_MONTH\_WEIGHT

USE\_MONTH\_WEIGHT – A parameter affecting the interest accrual algorithm when the value of the global constant *Days in Year* = "360" ("Full → Configuration Setup → Main Tables → Global Constants") or the same value is set for the *Days in Year (for interest)* field in the "Financial Institution" form (Full → Configuration Setup → Main Tables → Financial Institution) for the financial institution.

Parameter values:

- "Y" (Yes) – For purposes of interest accrual, every month is counted as having the same value, that is, 1/12 of a year. For example, one day in February will accrue more interest than one day in January. This is the default value.
- "N" (No) – For purposes of interest accrual, months are counted as having different values relative to the number of days in the month. For example, one day in February will accrue the same amount of interest as one day in January.
- "B" – when accruing interest for a billing cycle that does not correspond to a calendar month, each billing cycle is considered to have a different weight according to the number of days in the cycle.

"B" can be set in an account template, Account Scheme or financial institution by using the USE\_MONTH\_WEIGHT=B; tag.

For more information, see the section "Determining a Daily Interest Rate" of the document "Interest Accrual".

## 4.37 USE\_TIME\_ZONE

USE\_TIME\_ZONE – this parameter is used to enable the mode for working with documents and contracts separately by financial institutions with regard for the time zone they are located in.

Parameter values:

- "Y" (Yes) – Time zone mode is active.
- "N" (No) – Time zone mode is inactive; this is the default parameter.

See the document "Time Zones".



A separate agreement with OpenWay is required to use time zone mode.

# 5 Procedure for Closing the Banking Day

## 5.1 CAN\_RESET\_NEW\_DATE

The CAN\_RESET\_NEW\_DATE parameter allows/denies the possibility to edit the banking date when opening a banking day:

- If this parameter has the value of "N", the date field in the "Set New Banking Date" form cannot be edited.
- If this parameter has the value of "Y" (the default value), the banking date is entered as usual (the date field in the "Set New Banking Date" form can be edited.)

## 5.2 CONTRACT\_READY\_RULE

This parameter defines when a fatal error will occur during "Contracts – Daily Update" procedures for unapproved contracts (the *Approval* field contains the "Not Ready" value).

Parameter values:

- "N" – when this value is used:
  - If "Contracts – Daily Update" procedures are performed on the day of closing a billing cycle, the fatal error "Unable to close billing for <>" will occur.
  - If "Contracts – Daily Update" procedures are performed in the middle of a billing cycle, the error "Contract <> is not approved. CDU skipped" will occur.
- "R" – when this value is used:
  - When "Contracts – Daily Update" procedures are performed on the day of closing a billing cycle, the fatal error "Unable to close billing for <>" will only occur if the contract has changed its Account Scheme, Service Package, contract currency, Liability contract, or Product. If another field changes, the error "Contract <> is not approved. CDU skipped" will occur.
  - If "Contracts – Daily Update" procedures are performed in the middle of a billing cycle, in all aforementioned cases the error "Contract <> is not approved. CDU skipped" will occur.
- "Y" – the error "Contract <> is not approved. CDU skipped" will occur. That is, the fatal error does not occur.

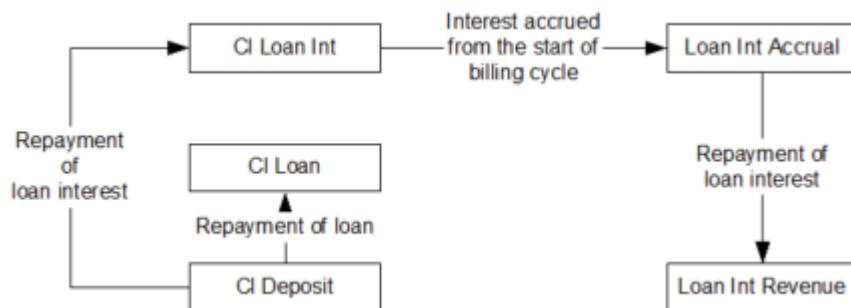
Error records are available in the process log.

## 5.3 DIRECT\_REPLEN\_TO\_INT\_REVENUE

**DIRECT\_REPLEN\_TO\_INT\_REVENUE** – A parameter defining how loan interest accrual is posted upon repayment. Loan interest accrual upon repayment is activated when the *Calc Int Mode* parameter in the account template is set to "Yes".

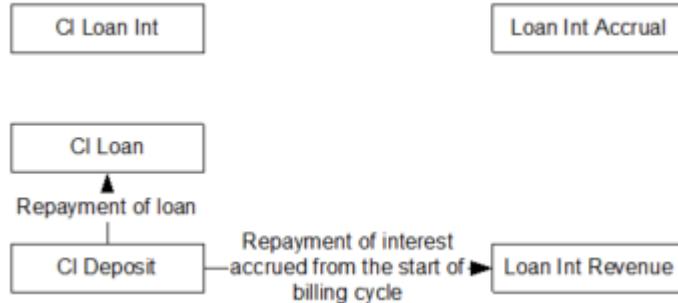
Parameter values:

- "N" (No) – This is the default value; if it is set, the following entries for a simple credit scheme will be created for accrued loan interest when the loan is repaid (see [figure](#)):
  - Accrued interest from the start of the current billing cycle will be transferred to the loan interest accrual account ("Loan Int Accrual") from the client loan interest account ("CI Loan Int").
  - The loan on the client loan account ("CI Loan") will be repaid from the client deposit account ("CI Deposit").
  - The loan interest on the client loan interest account ("CI Loan Int") will be repaid from the client deposit account ("CI Deposit").
  - Funds from the loan interest accrual account ("Loan Int Accrual") will be posted to the loan interest revenue account ("Loan Int Revenue") equal to the amount of the repaid loan interest.



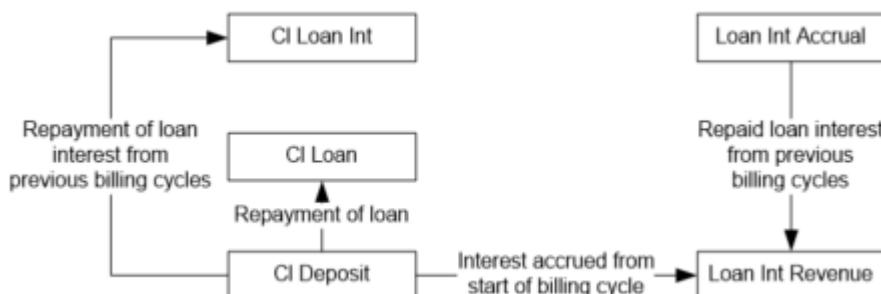
*Loan interest accrual scheme upon repayment when the value of the parameter  
DIRECT\_REPLEN\_TO\_INT\_REVENUE="No"*

- "Y" (Yes) – If this value is set, loan interest accrual upon repayment will be posted depending on whether interest was accrued for previous billing cycles.
  - If interest for previous billing cycles was not accrued, the following entries will be made for a simple credit scheme (see [figure](#)):
    - Interest accrued from the beginning of the current billing period will be directly repaid from the client deposit account ("CI Deposit") to the loan interest revenue account ("Loan Int Revenue").
    - The loan from the client loan account ("CI Loan") will be repaid from the client deposit account ("CI Deposit").



*Loan interest accrual scheme upon repayment when the value of the parameter  
DIRECT\_REPLEN\_TO\_INT\_REVENUE="Yes" and when no interest has been accrued for previous billing  
cycles*

- If loan interest has already been accrued for previous billing cycles, the following entries will be made for a simple credit scheme (see [figure](#)):
  - Interest accrued from the beginning of the current billing cycle will be transferred from the client deposit account ("CI Deposit") to the loan interest revenue account ("Loan Int Revenue").
  - Loan interest accrued on the client loan interest account ("CI Loan Int") will be repaid from the client deposit account ("CI Deposit") for previous billing cycles.
  - The loan on the client loan account ("CI Loan") will be repaid from the client deposit account ("CI Deposit").
  - Posting will be made to the loan interest revenue account ("Loan Int Revenue") from the loan interest accrual account ("Loan Int Accrual") for the amount of the repaid loan interest that had been accrued for previous billing cycles.



*Loan interest accrual scheme on repayment when the value of the parameter  
DIRECT\_REPLEN\_TO\_INT\_REVENUE="Yes" and loan interest has been accrued for previous billing cycles*

## 5.4 FORCE\_CDU

The global parameter FORCE\_CDU with the "Y" value allows, when processing transactions, forced execution of the "Contracts – Daily Update" (CDU) procedure for contracts for which this procedure was not executed (for example, when CDU was executed in daily procedures, the contract had the "Not Ready" status).

If the value of the parameter is "N" (the default value), CDU will not be forcibly executed. During processing, a transaction is declined with the error "Contracts daily update not finished yet".

The global parameter can be redefined in a financial institution using the tag of the same name in the *Special Params* field of the "Details for <financial institution name>" form (Full → Configuration Setup → Main Tables → Financial Institutions → [Details]).

## 5.5 INTEREST\_BY\_CREDIT

INTEREST\_BY\_CREDIT – A parameter determining how loan interest will be accrued upon repayment.

Parameter values:

- "Y" (Yes) – Loan interest does not exceed the deposited amount.
  - (i) If the value is "Y", when the deposited amount and predicted interest amount are compared, the possible amount of loan penalties is not included (account template's *Interest Fee Rate* field). The amount of penalties can be paid first; before interest. In this case, accrued interest may exceed the deposited amount.
- "N" (No) – Loan interest is accrued in full regardless of the deposited amount. This is the default value.
- The "F" and "I" values make it possible to include the amount of penalties (account template's *Interest Fee Rate* field) when accruing loan interest:
  - "F" – for this value, the deposited amount is first compared with the amount of penalties that are predicted:
    - If the deposited amount is less than the amount of penalties, the accrued amount of penalties is limited by the deposited amount. Interest is not accrued.
    - If the deposited amount is greater than the amount of penalties, the penalty is accrued in full. The remaining amount is used to accrue interest (i.e. the remaining amount limits the amount of accrued interest).
  - "I" – for this value, the deposited amount is first compared with the amount of predicted interest:
    - If the deposited amount is less than the amount of interest, the accrued amount of interest is limited by the deposited amount. Penalties are not accrued.
    - If the deposited amount is greater than the amount of interest, the interest is accrued in full. The remaining amount is used to accrue penalties (i.e. the remaining amount limits the amount of accrued penalties).

## 5.6 MAIN\_SUB\_RECOVERY

The parameter is used to regulate balances of Is Am Av = "Y" accounts of subordinate "Main/Sub" contracts.

The accounts of "Main/Sub" card subcontracts usually reflect card debit transactions; replenishment operations are normally posted using the main contract account and are not reflected in card accounts. As a result, a negative balance invariably accumulates in card accounts.

This global parameter is used to regulate the balances of such accounts.

When the parameter is set to "Y" (the default value), balances of Is Am Av = "Y" accounts of subcontracts are reset to zero when a billing cycle is closed. The system generates a special macrotransaction with the Service Class = "Due Norm" between accounts of the subcontract and the main contract. The macrotransaction does not generate GL traces between the contract accounts; only an entry for the subcontract account is registered.

When the parameter is set to "N" account balances do not change.

## 5.7 MKH\_DATE\_FORMAT\_STYLE

The parameter defines the code of the format for the banking date in the DB Manager status row.

By default, the parameter is not set (the "dd/MM/yyyy" template is used).

To change the default format of the banking date, do as follows:

- Create a formatting style in the "Formatting Styles" form (menu item "Full → Configuration → Setup → Client Classifiers → Formatting Styles") for the "Date/Time" variable. Examples of templates:
  - yyyy.MM.dd 'at' HH:mm:ss – 2016.09.14 at 12:08:56;
  - EEE, MMM dd, "yy, HH:mm – Thu, Feb 03, '11, 12:08;
  - EEE, dd MMM yyyy hh 'o'clock' a – Wed, 25 Feb 2009 12 o'clock PM;
  - dd.MM.yyyy – 14.09.2016;
  - M/d/yy – 9/14/16.
- Specify the format code (*Style Code* field value) in the MKH\_DATE\_FORMAT\_STYLE parameter.

If necessary, different formatting styles can be set for different languages. The system user's language will be used for display. This language is specified in the *Language* field of the "Constants for <user group name>" form opened by clicking the [Constants] button in the "User Groups and Users – View" form (Full → DB Administrator Utilities → Users & Grants → User Groups and Users – View). For example, create 2 formatting styles in the "Formatting Styles" form with the same format code value but with different languages in the *Language* field, the value in the *Country Code2* field must be empty. Specify the language for the required user groups in the "User Groups and Users – View" form.

## 5.8 ORDER\_IN\_START\_OF\_DAY

ORDER\_IN\_START\_OF\_DAY – A parameter defining the order in which standing payment orders are processed.

Parameter values:

- "Y" (Yes) – payment orders are processed during daily opening procedures; this is the default value.
- "N" (No) – Standing payment orders are processed when closing the banking day. This value may only be used if the bank uses Two-phased banking date mode (see the section "Two-phased banking date mode" of the document "Daily Procedures").

When the value is "N" for payment orders with the "Monthly" indicator, if the date for activating the order falls on a non-working day (according to the *Event Day* parameter):

- By default, the payment order will be processed when closing the last working day before the non-working days (when closing "Friday").
- If the tag DUE\_TO\_WRK\_DAY=Y; is set in the payment order, the order will be activated when closing the first working day after the non-working days (when closing "Monday").

When the value is "Y" for payment orders with the "Monthly" indicator, if *Event Day* is the last day of the month or exceeds the number of days in the current month (for example, the *Event Day* field's value is 31, and the current month is 30 days long), the order will activate when opening the last day of the month.

When the value is "N" for payment orders with the "Monthly" indicator, if *Event Day* is the last day of the month or exceeds the number of days in the current month (for example, the *Event Day* field's value is 31, and the current month is 30 days long), the order will activate when closing the next-to-last day of the month. For the payment order to active in this setup, when closing the last day of the month use the MONTH-END=Y; tag for the payment order.

## 5.9 PAYMENT\_DUE\_ADVANCE

PAYMENT\_DUE\_ADVANCE – A parameter used in daily contracts update and determining the posting date and local date for "Value Date Due", "Payment Due", "Long Payment Due", "Sliding" and "Sliding + Clear" and "Contract Due" due normalization.



The global parameter PAYMENT\_DUE\_ADVANCE works together with the DUE\_TO\_WRK\_DAY global parameter. For information about how various combinations of these parameter values affect the shift in the normalization date, see the description of PAYMENT\_DUE\_ADVANCE parameter values and the figures below.

PAYMENT\_DUE\_ADVANCE parameter values:

- "N" (No) – when the value is "N", normalization is always performed when opening the day (both in two-phased banking date mode, and in combined mode). The normalization date is shifted as follows:

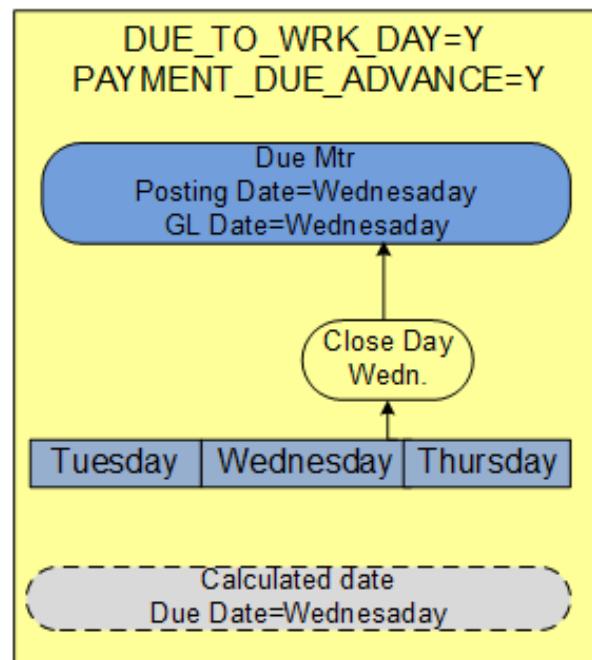
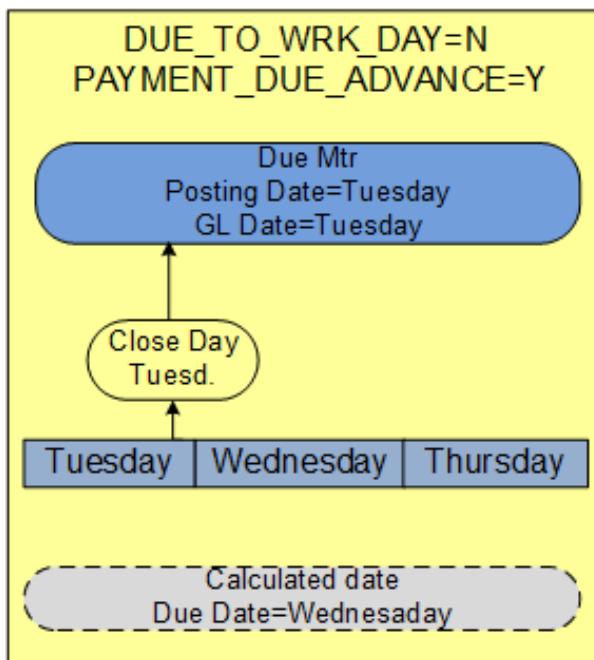
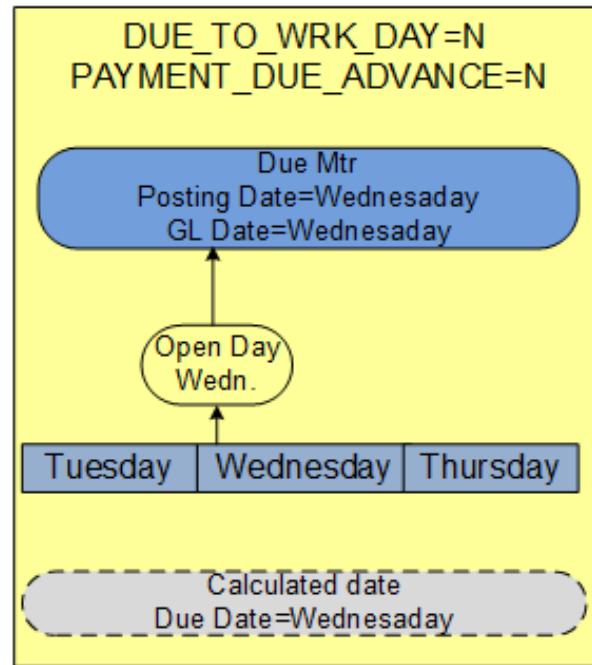
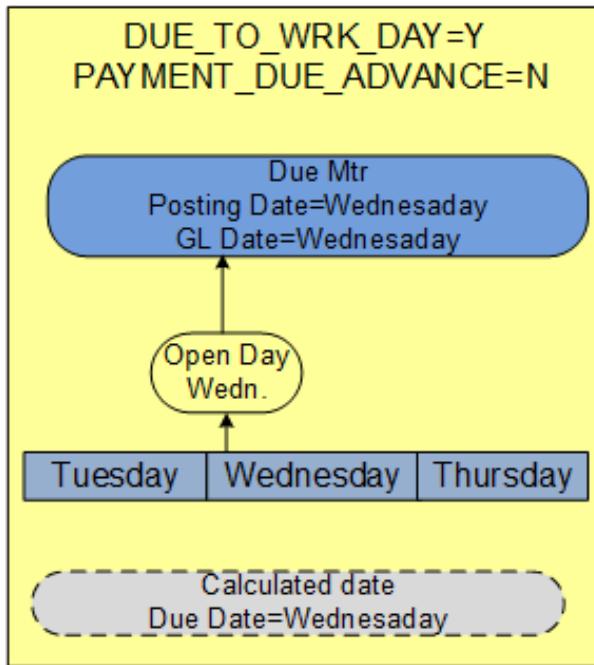
- If the normalization due date falls on a working day, this will be the posting date and local date. Normalization is performed when opening the day corresponding to the due date, see [figure](#).
- If the normalization due date falls on a weekend/holiday, the normalization date depends on the value of the DUE\_TO\_WRK\_DAY global parameter, see [figure](#):
  - When DUE\_TO\_WRK\_DAY="Y" – if the normalization due date falls on a Saturday, Sunday, or Monday, normalization is performed when opening Tuesday (entries are posted to accounts on Tuesday).



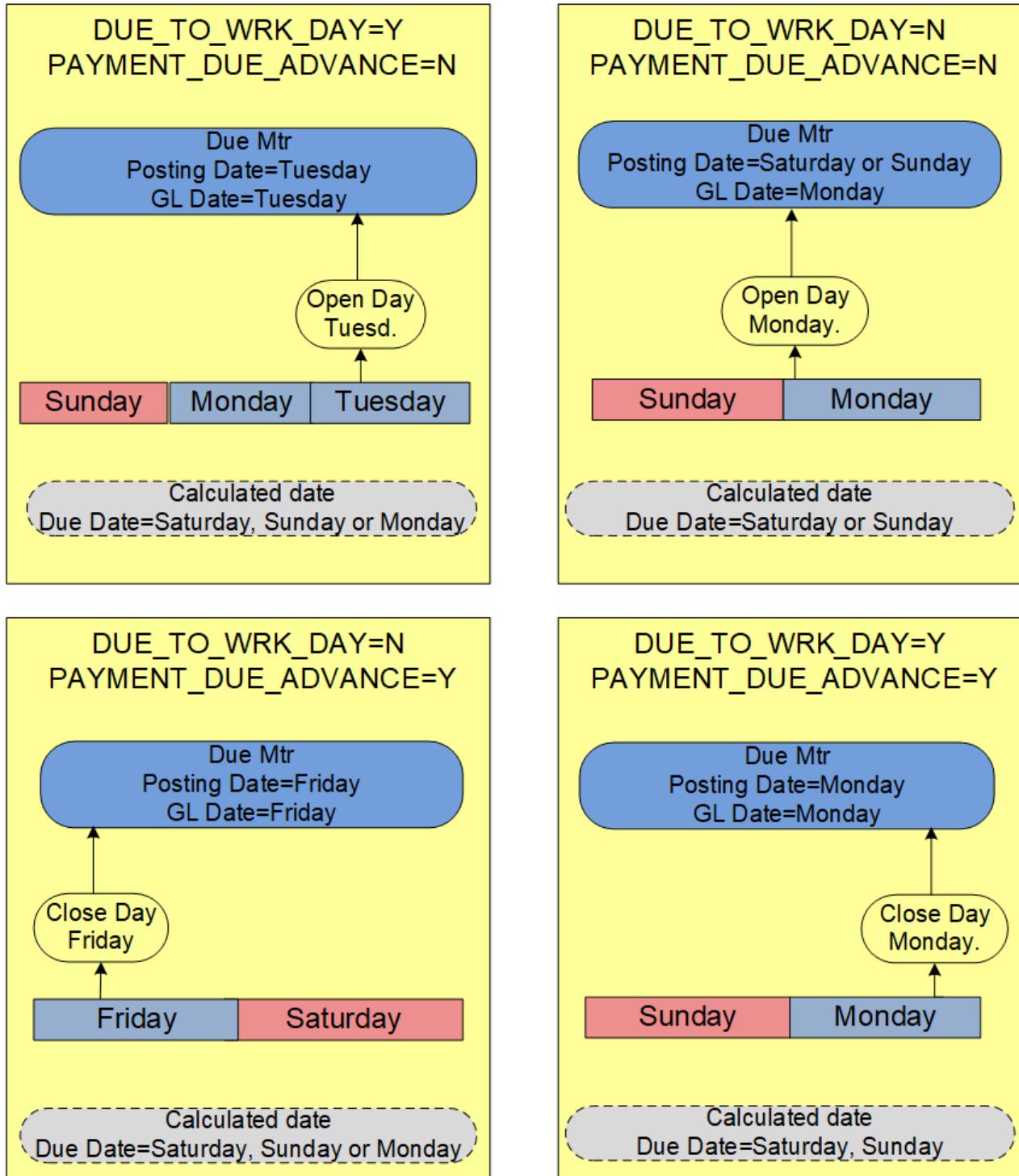
The normalization date is shifted from Monday to Tuesday (when DUE\_TO\_WRK\_DAY="Y", PAYMENT\_DUE\_ADVANCE="N") because Monday is often opened on Friday and in this case, normalization when opening Monday will not meet conditions set with these parameters.

- When DUE\_TO\_WRK\_DAY="N" – if the normalization due date falls on a weekend (Saturday/Sunday), the macrotransaction will be posted when opening Monday, but Saturday will be specified as the Posting Date and Monday as the GL date. The default value of the PAYMENT\_DUE\_ADVANCE parameter is "N".
- "Y" – when the value is "Y", normalization will always be performed when closing the day (this value is only allowed if the bank uses Two-phased banking date mode, see the section "Two-phased Banking Date Mode" in the document "Daily Procedures"). The shift in the normalization date depends on the value of the DUE\_TO\_WRK\_DAY global parameter, see figures below:
  - If the normalization due date falls on a working day:
    - When DUE\_TO\_WRK\_DAY="Y" – the normalization date is not shifted. Normalization is performed when closing the day corresponding to the normalization due date (for example if the due date falls on a Wednesday, normalization will be performed when closing Wednesday).
    - When DUE\_TO\_WRK\_DAY="N" – normalization is performed when closing the day preceding the normalization due date (for example, when the due date falls on a Wednesday, normalization will be performed when closing Tuesday).
  - If the normalization due date falls on a weekend/holiday:
    - When DUE\_TO\_WRK\_DAY="N" – normalization is performed on the last working day before the weekend/holiday (for example, if the due date falls on a Saturday, normalization will be performed when closing Friday). This rule also applies when the due date falls on a Monday.
    - When DUE\_TO\_WRK\_DAY="Y" – normalization is performed on the first working day after the weekend/holiday (for example, if the due date falls on a Saturday, normalization is performed when closing Monday).

The global parameter PAYMENT\_DUE\_ADVANCE can be redefined using the tag of the same name in an Account Scheme (see the section "Ageing" of the document "WAY4™ Account Schemes").



*Influence of the global parameters PAYMENT\_DUE\_ADVANCE and DUE\_TO\_WRK\_DAY on a shift in due date falling on a working day (due date on a Wednesday is used in the example)*



Influence of the global parameters PAYMENT\_DUE\_ADVANCE and DUE\_TO\_WRK\_DAY on a shift in due date falling on a weekend/holiday (and in a number of cases, on a Monday)

## 5.10 RESERVE\_IN\_LOCAL\_CURR

RESERVE\_IN\_LOCAL\_CURR – A parameter defining currency conversion rules when calculating the reserve in a foreign currency account.

**Parameter values:**

- "Y" (Yes) – This parameter value determines that conversion will be made separately for each account when calculating the reserve.
- "N" (No) – This parameter value determines that the reserve conversion will be made for the total reserve value calculated for all accounts in the foreign currency; this is the default value.

# 6 Card Production

## 6.1 AUTH\_KEY\_STORAGE\_FORM

The AUTH\_KEY\_STORAGE\_FORM parameter allows the selection of a required set (storage place) of keys from sets stored in the system and the use of this set for authorization.

The parameter value is the code for the key storage method:

- "HH" – HSM/Host/Hex keys
- "WH" – OWSem/Host/Hex keys

## 6.2 CARD\_FEE\_ALGORITHM

CARD\_FEE\_ALGORITHM – A parameter defining how fees are charged for issuing a card.

Parameter values:

- NULL – Default value.  
If this parameter has a value of NULL, the card issuing fee will be charged in a standard way, that is, for the amount indicated in the card contract's Service Package. The fee amount does not depend on the effective period of the card. That is, if the standard effective period for the card type is 12 months and the card was issued for 15 months or 10 months, the fee for issuing the card will be the same as that charged for a 12-month card.
- "P" – The card production fee will be proportional to the effective period of the card.  
If this parameter has a value of "P", the fee will be charged immediately when the card is issued. For example, if the standard effective period for the card is set as 12 months in the contract subtype but the actual effective period is 15 months, then the fee will be calculated as 15/12 of the standard fee and be withdrawn from the account when the card is issued.

## 6.3 CARD\_NAME\_LENGTH

CARD\_NAME\_LENGTH – A parameter defining the maximum length of the name embossed on the plastic and including the following components: title, first name, last name, and delimiters between the components. The parameter value must be a positive whole integer.

The parameter value is a positive whole integer; the default value is 24.

According to international payment system standards, the length of the company name must not exceed 24 characters.

This parameter can be redefined on the contract subtype level (see the description of the *Add Params* field in the section "Card Contract Subtypes Form" of the "Products and Contract Subtypes" document).



It is recommended that users not change the value of this parameter without consulting international payment organizations and OpenWay representatives.

## 6.4 CARD\_PROD\_ENABLED\_EVENTS

The global parameter CARD\_PROD\_ENABLED\_EVENTS is used in marking cards for issue/reissue. Parameter values are Production Event codes delimited by commas and set in the following format (a string must begin and end with a comma):

CARD\_PROD\_ENABLED\_EVENTS=,RALL,NCRD,

If such an event code is specified in a card production application, when marking the card the system will not check for the corresponding miscellaneous Service for charging a production fee in the Service Package of the corresponding card contract.

## 6.5 CARD\_PROD\_RESPONSE\_DEFERRED\_PROCESSING

If the value of the CARD\_PROD\_RESPONSE\_DEFERRED\_PROCESSING parameter is "Y", the "mrk.PLASTIC\_FROM\_PROD" procedure responsible for fee generation, changes in plastic status, etc., is not called during import of a response file from the card production system. This procedure is called in multi-thread mode after importing all response files (in execution of the menu item "Issuing → Send / Receive Production Batches → PIN Management Response File Import").

The default parameter value is "N".

## 6.6 CARD\_RENEW\_ADVANCE

CARD\_RENEW\_ADVANCE – A parameter whose value is indicated in months and is used as a threshold value when calculating the effective period for a reissued bankcard.

Parameter value: "0" or a positive integer, the default value is "1".

The parameter is used as follows. If the interval to the expiry date of the current plastic exceeds the value of CARD\_RENEW\_ADVANCE +1, when it is reissued, the new plastic will have the same expiry date.

For example, if the expiry date is in December and the value of the parameter CARD\_RENEW\_ADVANCE is 1, when the card is reissued in October the expiry date of the new plastic will be the same as the

current one, that is, December. If the card is reissued in November, the expiry date for the new plastic will be calculated from the [CARD\\_RENEW\\_FROM\\_TODAY](#) parameter's value.

If the value of parameter CARD\_RENEW\_ADVANCE is 2, then in the same case as above, the card when reissued in September will have the same expiry date as the current one, that is, December. If it is reissued in October, the expiry date for the new plastic will be calculated from the [CARD\\_RENEW\\_FROM\\_TODAY](#) parameter's value.

The CARD\_RENEW\_ADVANCE parameter can be redefined on the contract subtype level (see the description of the *Add Params* field in the section "Card Contract Subtypes Form" of the "Products and Contract Subtypes" document).

## 6.7 CARD\_RENEW\_FROM\_TODAY

CARD\_RENEW\_FROM\_TODAY – A parameter determining the date from which the effective period of a reissued card will be calculated.

Parameter value: integer, the default value is "0".

If the expiry date of the previous plastic was less than the current banking date for more than the number of months defined by the value of the parameter CARD\_RENEW\_FROM\_TODAY, the effective period for the new plastic will start from the current banking date. In all other cases, the effective period will start from the expiry date of the previous plastic.

The global parameter [CARD\\_RENEW\\_ADVANCE](#) controls how the expiry date of the new plastic is calculated from the date calculated through the global parameter CARD\_RENEW\_FROM\_TODAY.

Example 1:

The global parameter CARD\_RENEW\_FROM\_TODAY is equal to 0 (by default). The global parameter CARD\_RENEW\_ADVANCE is equal to 1 (by default); the current date is 01.01.2003; the plastic is issued for 12 months.

- If the previous plastic was active until 31.12.2002, the new one will be active until 31.01.2004.
- If the previous plastic was active until 31.01.2003, the new one will be active until 31.01.2004.
- If the previous plastic was active until 28.02.2003, the new one will be active until 28.02.2004.

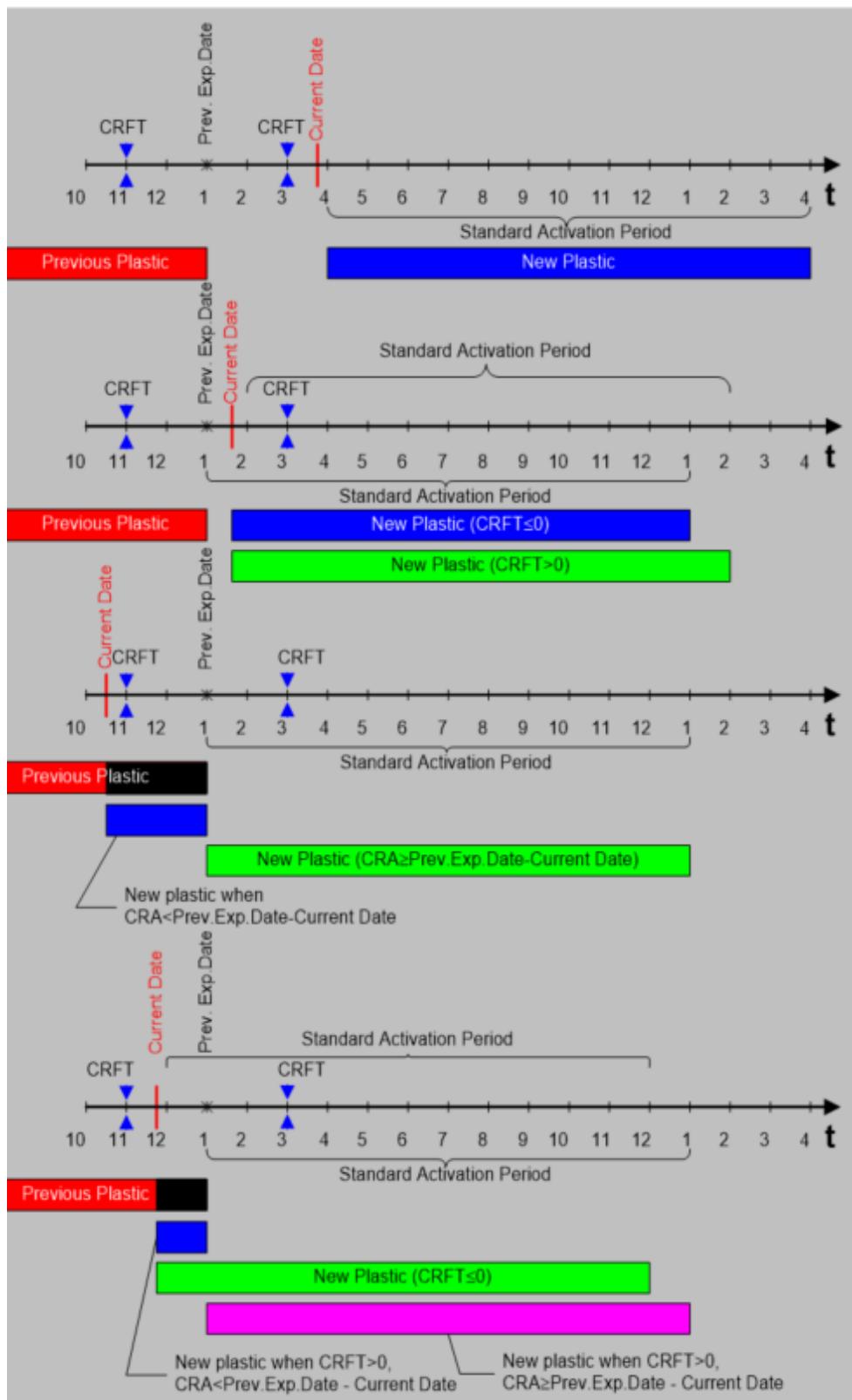
Example 2:

The global parameter CARD\_RENEW\_FROM\_TODAY is equal to -1. The global parameter CARD\_RENEW\_ADVANCE is equal to 1 (by default); the current date is 01.01.2003; the plastic is issued for 12 months.

- If the previous plastic was active until 31.12.2002, the new one will be active until 31.01.2004.
- If the previous plastic was active until 31.01.2003, the new one will be active until 31.01.2004.
- If the previous plastic was active until 28.02.2003, the new one will be active until 31.01.2004.
- If the previous plastic was active until 31.03.2003, the new one will be active until 31.03.2003.

The [figure](#) shows how expiry dates are determined for reissued plastics depending on the current date and values of the parameters CARD\_RENEW\_FROM\_TODAY and [CARD\\_RENEW\\_ADVANCE](#).

The CARD\_RENEW\_FROM\_TODAY parameter can be redefined on the contract subtype level (see the description of the *Add Params* field in the section "Card Contract Subtypes Form" of the "Products and Contract Subtypes" document).



How effective periods are determined for reissued plastics depending on the values of the global parameters CARD\_RENEW\_ADVANCE (CRA) and CARD\_RENEW\_FROM\_TODAY (CRFT)

## 6.8 CLIENT\_STATUS\_IGNORED\_FOR\_CONTRACT

The global parameter makes it possible to create a new card for a client who is in a stop list. To do so, the global parameter's value is specified as the code (codes) of the client's blocking status (see the value of the classifier with the STOP\_LIST\_STATUS code; this classifier's values correspond to response codes from the RESP\_CODE table) for which a card contract can be created.

By default (if the parameter is not set), a new card contract cannot be created for a client in stop list.

## 6.9 COMPANY\_NAME\_LENGTH

COMPANY\_NAME\_LENGTH – A parameter defining the maximum length of the company name embossed on the plastic. The parameter value must be a positive whole integer.

The parameter value is a positive whole integer; the default value is 24.

According to international payment system standards, the length of the company name must not exceed 24 characters.

This parameter can be redefined on the contract subtype level (see the description of the *Add Params* field in the section "Card Contract Subtypes Form" of the "Products and Contract Subtypes" document).



It is recommended that users not change the value of this parameter without consulting international payment organizations and OpenWay representatives.

## 6.10 INHERITE\_LOST\_CARD\_DELIVERY\_PRM

The global parameter INHERITE\_LOST\_CARD\_DELIVERY\_PRM allows inheritance of the value in the *Order To* field when a card is reissued due to its loss (inheritance is carried out from the record of the lost card). This function is active when the parameter has the value of "Y".

The parameter's default value is "N".

## 6.11 LOST\_CARD\_EVENT

The LOST\_CARD\_EVENT global parameter is used when reissuing a card to replace a lost card. A comma-delimited list of bankcard production event codes is specified (reissue reason codes) as a parameter value.

When marking the card, the event for which a Service is configured will be used from the list of this global parameter's values.

## 6.12 MAX\_CARD\_EXPIRE

MAX\_CARD\_EXPIRE – A parameter specifying the maximum effective period of a plastic in months.

After calculating the expiry date of plastic to be issued or reissued, the system checks that the effective period of the plastic does not exceed the value of this parameter. If this condition is not met, the plastic cannot be issued. The parameter value is a whole positive integer.

The default value is 60.

This parameter can be redefined on the contract subtype level (see the description of the *AddParms* field in the section "Card Contract Subtypes Form" of the "Products and Contract Subtypes" document).

## 6.13 MIN\_CARD\_EXPIRE

MIN\_CARD\_EXPIRE – A parameter determining the minimum effective period of a plastic in months.

After the expiry date is calculated for an issued or reissued plastic, the system checks that the effective period for the plastic exceeds the value of this parameter. If this condition is not met, the plastic cannot be issued. The parameter value is a whole positive integer.

The default value is 3.

The value of this parameter is used by the system to perform a check on the financial institution. The system checks that the effective period for the new or reissued plastic as defined in the card contract subtype exceeds the value of the parameter MIN\_CARD\_EXPIRE.

This parameter can be redefined on the contract subtype level (see the description of the *AddParms* field in the section "Card Contract Subtypes Form" of the "Products and Contract Subtypes" document).

## 6.14 MRK\_DISABLE\_DUPLICATE\_CARD\_EXPIRE

The global parameter MRK\_DISABLE\_DUPLICATE\_CARD\_EXPIRE is used in marking plastics for reissue.

When the value of this parameter is "Y", reissue of the plastic with the same expiry date is not permitted.

The parameter's default value is "N".

## 6.15 MRK\_ERASE\_SEC\_VAL

The global parameter MRK\_ERASE\_SEC\_VAL determines the order for inheritance of a plastic's properties when it is reissued.

If the value of this parameter is "Y", when a plastic is reissued with new parameters (in accordance with PCI DSS requirements), if the *PIN*, *PVV*, *CVC*, *CVC2* fields of the previous plastic were filled in, the values of these fields will not be inherited in the reissued plastic.

The parameter's default value is "N".



The global parameter MRK\_ERASE\_SEC\_VAL can be redefined using the ERASE\_SEC\_VAL tag in the *AddProdParms* field of the "Production Events" form (Full → Configuration Setup → Transaction Types → Production Events).

## 6.16 MARK\_INHERIT\_LOST\_CARD\_EXPIRE

If the value of the global parameter is set to "Y", when a lost card is reissued, the expiry date of the lost plastic will be used to calculate the expiry date of the new (replacement) card contract's card in the same way as when reissuing a plastic without the creation of a new card contract.

## 6.17 MRK\_PRODUCE\_LOCKED

The global parameter MRK\_PRODUCE\_LOCKED makes it possible to reissue (mark) locked cards. To do so, the value of this parameter must be set to "Y".

The parameter's default value is "N".



The MRK\_PRODUCE\_LOCKED global parameter can be redefined using the PRODUCE\_LOCKED tag in the *AddProdParms* field of the "Production Events" form (Full → Configuration Setup → Transaction Types → Production Events).

## 6.18 PAN\_LENGTH\_CHECK

The global parameter PAN\_LENGTH\_CHECK is used to check the length of a card number in accordance with the card production parameters specified in the *PAN MIN* and *PAN MAX* fields of the "PM Parameters" form.

The value of this parameter must be set to "Y" for the check to be performed. If the value is "N", the check is not made.

The parameter's default value is "N".

## 6.19 PM\_KEY\_EXPIRE\_DFLT\_PERIOD

This parameter is used to set the effective period of keys used in card production. The value is set in months.

The default value is 24.

## 6.20 PM\_KEY\_EXPIRE\_WRN\_EXT\_PERIOD

The PM\_KEY\_EXPIRE\_WRN\_EXT\_PERIOD parameter is used in generating warnings after the export of data on tasks executed in issuing bank cards. Warnings are generated if the number of months between the expiry date and the date in the *Ready Till* field of the "PM Parm" table (the "Parameters for <name of bank>" form) is less than that set by the PM\_KEY\_EXPIRE\_WRN\_EXT\_PERIOD parameter.

The value is set in months. The default value is 2.

## 6.21 PM\_PIN\_TRANSLATE

The "PM File Export" pipe supports sending PIN blocks encrypted under ZPK. The pipe "PM. Security Calc & Mailer Printing" pipe of the PIN Management module supports translating a PIN block encrypted under ZPK into a PIN block encrypted under LMK.

To use this function, the PM\_PIN\_TRANSLATE global parameter must be set to "Y", and the ISSUER\_PIN\_FORM='UNDER\_ZPK' tag must be specified in additional parameters (Full → Configuration Setup → Card Production Setup → Bank Production Parameters → [Parameters] → [Options]).

## 6.22 PM\_TSK\_LOAD\_BANK\_CHECK

PM\_TSK\_LOAD\_BANK\_CHECK – If this parameter is set to "N", the PIN Management module does not check the Bank fields in a task to issue a card (PM Task) and its job file (PM Job) for equivalence.

The parameter's default value is "Y".

## 6.23 RNP

By default, when a copy of a contract is created when reissuing a card, the last record for each classifier (i.e. the classifier's current value) is copied from the old contract to the new one.

Classifiers inherited from a Product have a default value that can also be used for the new contract when a contract is copied. When reissuing a card with a different Product, configure the global parameter RNP (Replace to New Product).



Classifiers configured for a Product and inherited with default values when contracts are created are classifiers that are configured in the form "Full → Configuration Setup → Products → Product Definition → Products → [Classifiers]" and have the value "Y" in the *SetToContract* field.

For example, three classifiers are configured for a Product: "Class1" with the default value "A1", "Class2" with the default value "B1", and "Class5" with the default value "F1":

- Contract 1 is created for the Product and inherits the following classifiers from the Product:
  - "Class1" with the value "A1"
  - "Class2" with the value "B1"
  - "Class5" with the value "F1"
- The value of the classifier "Class2" for the contract changes to "B2", the value of the classifier "Class5" for the contract changes to "F2".
- Product 2 is configured. For Product 2, two classifiers are set: "Class3" with the value "C1" and "Class5" with the value "F5".
- Card Contract 1 is reissued with its Product changed to Product 2 – Contract 2 is created. The way classifiers for the new contract are copied depends on the value of the global parameter RNP:
  - When the value is "RESET", the following classifiers are set for Contract 2:
    - "Class1" with the value "A1" (the current value from the original contract is copied).
    - "Class2" with the value "B2" (the current value from the original contract is copied).
    - "Class3" with the value "C1" (a new classifier is set with the default value from the new Product).
    - "Class5" with the value "F5" (the classifier's old value is reset and the default value from the new Product is set). I.e. if for old classifiers that were copied to a new contract the corresponding classifiers are found in the new Product, default values from the new Product are set. If corresponding classifiers are not found in the new Product, classifiers are copied unchanged from the original contract. Classifiers from the new Product are set as usual according to settings in the form "Full → Configuration Setup → Products → Product Definition → Products → [Classifiers]".
  - When the value is "SET\_IF\_ABSENT" (default value) – the following classifiers are set for Contract 2:
    - "Class1" with the value "A1" (copied unchanged from the original contract).
    - "Class2" with the value "B2" (copied unchanged from the original contract).
    - "Class3" with the value "C1" (a new classifier is set with the default value from the new Product).
    - "Class5" with the value "F1" (copied unchanged from the original contract). I.e. for the new contract, the missing classifiers will be set according to settings in the form "Full → Configuration Setup → Products → Product Definition → Products → [Classifiers]". Old

classifiers are copied from the original contract to the new contract without changes (i.e. with the current values).

- When the value is "SKIP" – the following classifiers are set for Contract 2:
  - "Class1" with the value "A1" (copied unchanged from the original contract).
  - "Class2" with the value "B2" (copied unchanged from the original contract).
  - "Class5" with the value "F1" (copied unchanged from the original contract). Old classifiers are copied from the original contract to the new contract without changes (i.e. with the current values). Classifiers from the new Product are ignored and are not set for the new contract

A tag of the same name can be used to redefine the global parameter for a specific classifier or Product.



If it is not necessary to copy a classifier from an old contract to a new one, use the SKIP\_FOR\_DUPLICATE; tag for the classifier.

## 6.24 RSP

By default, when a copy of a contract is created when reissuing a card, the last record for each classifier (i.e. the classifier's current value) is copied from the old contract to the new one.

Classifiers inherited from a Product have a default value that can also be used for the new contract when a contract is copied. To do so, when a lost card is reissued or in scheduled reissue with a new number, configure the global parameter RSP (Replace to Same Product).



Classifiers configured for a Product and inherited with default values when contracts are created are classifiers that are configured in the form "Full → Configuration Setup → Products → Product Definition → Products → [Classifiers]" and have the value "Y" in the SetToContract field.

For example, two classifiers are configured for a card Product: "Class1" with the default value "A1" and "Class2" with the default value "B1":

- Contract 1 is created for the Product and inherits the following classifiers from the Product:
  - "Class1" with the value "A1"
  - "Class2" with the value "B1"
- The value of the Class2 classifier value for the contract changes to "B2".
- A new classifier for the same Product is added, Class3 with the default value "C1". For Contract 1 this value is not set, since classifiers are inherited at the time of creating the contract.
- Card Contract 1 is reissued due to loss/expiry with a new number. Contract 2 is created. System behavior depends on the value of the global parameter RSP:

- When the value is "RESET", the following classifiers are set for Contract 2:
  - "Class1" with the value "A1" (the default value is copied from the Product).
  - "Class2" with the value "B1" (the default value from the Product is restored).
  - "Class3" with the value "C1" (a new classifier is set with the default value from the new Product). I.e for old classifiers that are active when the original contract was created and that are copied to the new contract, the current default value will be set. New classifiers are set as usual according to settings in the form "Full → Configuration Setup → Products → Product Definition → Products → [Classifiers]".
- When the value is "SET\_IF\_ABSENT" (default value) – the following classifiers are set for Contract 2:
  - "Class1" with the value "A1" (copied from the contract without changes).
  - "Class2" with the value "B2" (copied from the contract without changes).
  - "Class3" with the value "C1" (a new classifier is set with the default value from the new Product). I.e. for the new contract, the missing classifiers will be set according to settings in the form "Full → Configuration Setup → Products → Product Definition → Products → [Classifiers]". Old classifiers are copied from the original contract to the new contract without changes (i.e. with the current values).
- When the value is "SKIP" – the following classifiers are set for Contract 2:
  - "Class1" with the value "A1" (copied from the contract without changes).
  - "Class2" with the value "B2" (copied from the contract without changes). I.e. old classifiers are copied from the original contract to the new contract without changes (with the current values). New classifiers that appear after the original contract has been created are ignored and are not set for the new contract (in our example, the new classifier "Class3" with the value "C1" is not set for the contract 2).

A tag of the same name can be used to redefine the global parameter for a specific classifier or Product. This makes it possible, for example, to save old settings for card when reissuing them and use new settings for classifiers when creating new cards for a certain Product.



If it is not necessary to copy a classifier from an old contract to a new one, use the SKIP\_FOR\_DUPLICATE; tag for the classifier.

## 6.25 SET\_PIN\_WHEN\_REISSUING

The global parameter SET\_PIN\_WHEN\_REISSUING is used to allow PIN change after the card reissuing process has been started.

By default, PIN change during reissuing is prohibited in WAY4.

If the global parameter is set (SET\_PIN\_WHEN\_REISSUING=ENABLE), PIN change in a new plastic can be prohibited by specifying SET\_PIN\_WHEN\_REISSUING=DISABLE;:

- In the card's Product
- In a contract subtype (add\_parms)
- In the Event for reissuing (add\_prod\_parms).

## 6.26 SHIFT\_CARD\_EXPIRE\_FROM

**SHIFT\_CARD\_EXPIRE\_FROM** – A parameter indicating the day of the month and used as a threshold value in the algorithm for calculating the card's effective period in its initial issue.

The parameter value must be a whole integer from 0 to 99. The default value is "99".

The parameter is used as follows.

If the banking date on the date of the card's issue is later than the day of the month set by this parameter, the card is issued with an effective period for one month longer than the standard period set by the contract subtype.

If the banking date is less or equal to the day of the month set by this parameter, the card is issued with a standard effective period.

For example, if the parameter SHIFT\_CARD\_EXPIRE\_FROM has a value of 15, the card effective period by default is 12 months. The card is issued in April 2016. If the card is issued on the 15th of April, the expiry date will be calculated as 04.2017. If the card is issued on the 16th of April, the date will be calculated as 05.2017.

This parameter can be redefined on the contract subtype level (see the description of the *Add Params* field in the section "Card Contract Subtypes Form" of the "Products and Contract Subtypes" document).

## 6.27 SHRINK\_EXPIRE\_TO

This parameter determines the day of the month used as a threshold value in calculating the effective period of a bankcard when issuing and reissuing the card.

Parameter values are whole numbers from "0" to "99". The default value is "0".

The parameter is used as follows.

If the banking date on the day of card issue is less than the day of the month set by this parameter, the card is issued with an effective date of one month less than the standard one specified by the contract subtype.

If the banking date is more or equal to the day of the month set by the parameter, the card is issued with a standard effective period.

## 6.28 UNLOCK\_CARDS\_MODE

**UNLOCK\_CARDS\_MODE** – A parameter defining how to execute the procedure for batch unlocking of issued cards.

Issued cards are unlocked according to bank procedures after a file containing card production data is loaded into the database. The unlocking procedure is started by a special user menu path in the DB Manager program.

Parameter values:

- "A" (All) – All cards are unlocked, regardless of contract and plastic status.
- "C" (Card) – The unlocking procedure is executed separately for each card. If a card cannot be unlocked, for example, because of its contract or plastic status, it will not prevent other cards from being unlocked if file data on them has been received.
- "F" (File) – If a card cannot be unlocked, no other cards whose data is contained in the file will be unlocked. This is the default value.



For contract status to be considered in batch unlocking, the UNLOCK\_PLASTIC\_FOR\_VALID\_CONTRACT\_ONLY global parameter value must be "Y".

## 6.29 UNLOCK\_PLASTIC\_FOR\_VALID\_CONTRACT\_ONLY

UNLOCK\_PLASTIC\_FOR\_VALID\_CONTRACT\_ONLY – this parameter allows contract status to be considered when unlocking plastic cards. To do so, set the parameter to "Y". When this value is specified, the plastic will only be unlocked if the contract status has the "Valid" value in the *Is Valid* field (see the "Contract Statuses" form; "Full → Configuration Setup → Contract Types → Contract Statuses").

The parameter's default value is "N".

# 7 Working with Contract and Client Records

## 7.1 ADDR\_CHECK\_BY\_CLASSIFIER

The ADDR\_CHECK\_BY\_CLASSIFIER parameter is configured when the address classifier is used in WAY4.

This parameter determines the procedure for checking client addresses according to an address classifier (the check is performed when checking client records, checking addresses, and in approving contracts).

- If the value of this parameter is "N" (the default value), the system functions as usual and during a check addresses are not searched for in a reference book.
- If the value of this parameter is "Y", a search for addresses will be made in a reference book and missing parameters will be filled in (for example, postal codes). If an address is not found, the system will generate an error message.
- If the value of this parameter is "W", a search will be made and missing parameters filled in as for the "Y" value. If an address is not found, the system will generate a warning, but the address will not be declined.



The address classifier is not included in the WAY4 basic configuration and is supplied according to a separate agreement with OpenWay.

## 7.2 ADDR\_SCHEME\_DEFAULT

The ADDR\_SCHEME\_DEFAULT parameter is configured when the address classifier is used in WAY4. The code of the address scheme used should be specified as the value of the global parameter ADDR\_SCHEME\_DEFAULT.



The address classifier is not included in the WAY4 basic configuration and is supplied according to a separate agreement with OpenWay.

## 7.3 ALTERNATIVE\_RELATION

The ALTERNATIVE\_RELATION parameter with the "Y" value enables redefinition of the types of relations between contracts (Related Contracts) and makes it possible to redefine the standard relation type (with the code 10, 20, etc.) between the main card and related contract to an internal relation type. This allows the related contract with which a transaction will be made to be changed flexibly.

The parameter with the "Y" value is used together with the following parameters:

- Contract custom parameters specified by users in contracts related with the main card (related cards). These related contracts have an "internal" relation type (for example, 80, 81). Custom parameters can be specified using applications, manually, etc.:
  - REL#ACC\_TYPE=<code of the standard relation type>; – the parameter sets the standard relation type that will correspond to this contract's internal relation type.
  - REL#PRIM – when the value is "Y", the parameter defines this related contract as the default contract. The default contract is used, for example, if a related contract with the relation type specified in the document is not configured. The REL#PRIM=Y; parameter is set in one contract related with the card. The value of this parameter for the remaining related contracts must be "N". If a relation type is not set in an authorization document (the document's Spec field is not filled in), the default contract is used to post the authorization document, even if the value of the SET\_DEFAULT\_ACCOUNT parameter is "N".

When there is no related contract with the relation type specified in the document (the document's Spec field is filled in), use of a default related contract depends on the global parameter SET\_DEFAULT\_ACCOUNT. When the value of SET\_DEFAULT\_ACCOUNT is "N":

- Authorization requests are declined.
- The default related contract is used when posting authorization advices and financial documents (presentments).
- REL#SEQ\_N=<priority> – the parameter sets the priority for using this related contract when there are several related contracts with different types of internal relation, for which one standard relation type is specified. The priority is specified in numeric form (1, 2, etc.), and a lower value indicates a higher priority.

The custom parameters REL#PRIM, REL#ACC\_TYPE, REL#SEQ\_N must be registered in the "Contract Parameters Setup" list (see the section "Contract and Client Custom Parameters" of the document "Way4 Client and Contract Classifiers"). Internal relation types must be registered in the "Contract Relations" form (Full → Configuration Setup → Accounting Setup → Contract Relations) and specified in the *Relation* field of the corresponding related contracts.

- Technical custom parameters for contracts, which are automatically set in the base card and are recalculated when the aforementioned parameters of related cards change:
  - ASSIGN\_<code of standard relation type>=<code of internal relation type>. The tag is specified in the contract's ext\_date field. This tag shows redefinition of the relations set by the REL#ACC\_TYPE, REL#SEQ\_N parameters (see above), i.e. redefinition of the standard relation type to an internal relation type.
  - ASSIGN\_DEFAULT=<code of internal relation type> – the default related contract for this base card. The tag is specified in the contract's ext\_date field.

ASSIGN\_ technical custom parameters are recalculated when the parameters of related contracts change (REL#PRIM, REL#ACC\_TYPE, REL#SEQ\_N), in particular, when processing the corresponding applications to set custom parameters and when approving contracts, closing contracts, breaking the link between a related contract and base card (when the *Relation Tag* parameter value is "Inactive Related", see the section "Additional Product Parameters" of the document "Products").

When closing a related contract with the REL#PRIM=Y; parameter, a search is made for an active related contract with the same relation type, the parameter value for the contract that is found changes from "N" to "Y". Correspondingly, the ASSIGN\_DEFAULT parameter is recalculated in the main card. If a contract with the same relation type is not found, an existing related card with the REL#ACC\_TYPE parameter is used.

When closing a related contract, if there is no other related contract with the same REL#ACC\_TYPE=<code of the standard relation type> tag the ASSIGN\_<code of the standard relation type> tag in the main card is not recalculated. When posting a document (since no related contract was found), the default related contract is used (ASSIGN\_DEFAULT).

"ASSIGN\_" custom parameters are not registered in the "Contract Parameters Setup" list.

## 7.4 APPROVE\_IMMEDIATE

This parameter determines whether contracts are refreshed when their Service Packages, Account Schemes and Products are approved.

Parameter values:

- "Y" (Yes) – changes will be applied to corresponding contracts immediately when approving their Service Packages, Account Schemes and Products (regardless of the selected mode). This is the default value of the parameter.
- "N" (No) – changes will be applied to corresponding contracts when the user menu item "Full → Configuration Setup → Products → Apply Service Packs Changes", "Full → Configuration Setup → Products → Apply Account Scheme Changes" are selected for Service Packages and Account Schemes, respectively. To apply Product changes, go to the "Products" form (Full → Configuration Setup → Products\Product Definition → Products), click the [Approve] button and select the "Check and Apply" item from the context menu.

When the value is "N", changes are applied in all cases within the Contracts Daily Update.



Note that applying changes to a large number of contracts may take a considerable amount of time. To speed up the procedure, use parallel run mode, activated through the following menu items:

- Full → DB Administrator Utilities → Special OpenWay Utilities → Parallel Run → Apply Service Packs Changes – when Service Packages are modified.
- Full → DB Administrator Utilities → Special OpenWay Utilities → Parallel Run → Apply Account Schemes Changes – when Account Schemes are modified.
- Full → DB Administrator Utilities → Special OpenWay Utilities → Parallel Run → Apply Product Changes – when Products are modified.



Note that starting from version 03.44.19.28 on initial installation of WAY4, the global parameter APPROVE\_IMMEDIATE has been added to the "Additional Global Parameters" list with a value of "N". It is recommended to use the "N" value. When upgrading WAY4 to 03.44.19.28, if "Y" was set in the previous version of the system (or if the parameter wasn't set, which corresponds to the default value, i.e. "Y"), the value is not automatically changed to "N".

## 7.5 AUTH\_ENABLE\_EXPIRED



This parameter must be set up carefully. The parameter setup may affect security level when bank cards are used. Before setup, it is recommended to consult with OpenWay.

The global parameter AUTH\_ENABLE\_EXPIRED enables/disables checking a card's expiry date.

- "N" – authorizations for expired cards are prohibited.
- "Y" – authorizations for expired cards are allowed.
- "Z" (or any other value excluding aforementioned values) – the possibility to manage whether transactions are allowed with expired cards is configured on the transaction subtype or card subtype level.

For the functionality to work in card subtypes:

- Map card subtypes for which transactions with expired cards must be allowed with the ENABLE\_EXPIRED; parameter in the *Add Params* field.
- If authorization for expired cards must only be allowed for cards with the specified subtype, make sure that there is no mapping in transaction subtypes.

For the functionality to work in transaction subtypes:

- Map transaction subtypes for which transactions with expired cards must be allowed with the ENABLE\_EXPIRED; parameter in the *Fee Algorithm Options* field.

- If authorization for expired cards must only be allowed for cards with the specified transaction subtype, make sure that there is no mapping in card subtypes.



If the parameter is specified for both the transaction subtype and card subtype, an expired card can be used for all transactions with this card subtype and for all cards with which transactions with this subtype are performed.

For example: the ENABLE\_EXPIRED tag is specified for VISA GOLD card subtype and Retail transaction. After the card has been expired, ATM transaction is successfully made for VISA GOLD card subtype and Retail transaction is successfully made for VISA Classic card subtype.

- "C" – a check is made for the ENABLE\_EXPIRED contract parameter. If the parameter's value is "Y", the transaction will not be declined due to expiry of the plastic. When AUTH\_ENABLE\_EXPIRED=C; and no contract parameter ENABLE\_EXPIRED=Y; is specified, a check is made for ENABLE\_EXPIRED; in a card subtype. If the parameter is not specified, a transaction subtype is checked.



The AUTH\_ENABLE\_EXPIRED\_MIN\_VAL parameter affects the possibility to make transactions with expired cards.

## 7.6 AUTH\_ENABLE\_EXPIRED\_MIN\_VAL

The global parameter AUTH\_ENABLE\_EXPIRED\_MIN\_VAL defines a month in YYMM format. Transactions with cards that will expiry after the specified month will be allowed (subject to appropriate setup of the AUTH\_ENABLE\_EXPIRED parameter) during the period specified in the AUTH\_ENABLE\_EXPIRED\_MONTHS parameter. If the AUTH\_ENABLE\_EXPIRED\_MIN\_VAL parameter is not set, the AUTH\_ENABLE\_EXPIRED parameter does not have time constraints. The AUTH\_ENABLE\_EXPIRED\_MIN\_VAL parameter can be set in the financial institution settings.

## 7.7 AUTH\_ENABLE\_EXPIRED\_MONTHS

The global parameter AUTH\_ENABLE\_EXPIRED\_MONTHS sets the number of months passed after a month specified in the AUTH\_ENABLE\_EXPIRED\_MIN\_VAL parameter. During this interval, transactions with expired cards can be made. The parameter can be set using the tag of the same name in settings of a financial institution, Product, contract, or contract subtype (specified in the order of searching for a value). If AUTH\_ENABLE\_EXPIRED\_MONTHS is not set, request for an expired card is declined.

## 7.8 BLOCK\_IF\_AVAILABLE\_FEE\_DIFF

This parameter is used to configure how fees with the "When Available" category will be charged if the fee rate changed. If the account does not have sufficient funds to pay the fee at the new rate, and the percentage by which the fee at the new rate differs from the original amount exceeds the value specified using the BLOCK\_IF\_AVAILABLE\_FEE\_DIFF, the blocking amount is corrected.

The default value of the parameter (the percentage of the fee amount initially blocked) is 5.

The global parameter can be redefined using a tag with the same name in the financial institution.

## 7.9 CHANGE\_STATUS\_STR

The value of this parameter is the code prefix of the Event type that is opened when the contract status changes.

The default parameter value is "Change Status".

For example, if the system creates an Event type with the code "<value of parameter CHANGE\_STATUS\_STR>\_05", this Event will be opened when the contract status changes to "Card do not honor".

## 7.10 CHECK\_CLIENT\_EMBOSSING\_DATA

The CHECK\_CLIENT\_EMBOSSING\_DATA parameter with the "N" value disables the check of embossing data in client record fields when approving a client and contract.

The default value is "Y".

## 7.11 CLEANOUT\_TRANS\_CODE\_PATTERN

The CLEANOUT\_TRANS\_CODE\_PATTERN parameter is used during execution of the CLEAR\_ACCOUNT procedure when closing a contract (this procedure allows the balance on the account of a closed contract to be transferred to the bank contract account).

To do so:

- A bank contract must be configured whose accounts must have the same codes (account type code) as the accounts of the closed contract from which the balance will be transferred.
- Two transaction types must be configured (Full → Configuration Setup → Transaction Types → Transactions – All). One is for clearing the positive account balance, the second for clearing the negative account balance. The codes of these transaction types must differ from the codes of other transaction types and must have a common unique prefix.
- The CLEANOUT\_TRANS\_CODE\_PATTERN parameter value is a mask of the transaction type code according to which the two transaction types configured in the previous step must be unambiguously determined.

## 7.12 CLIENT\_MOVE\_FI\_AFFILIATED

The CLIENT\_MOVE\_FI\_AFFILIATED parameter influences the procedure for moving client data to another financial institution (when the value of the UNIQUE\_CLIENT global parameter is "N"). Possible values of the CLIENT\_MOVE\_FI\_AFFILIATED parameter:

- "Y" – when client data are moved, a new record is created in the CLIENT table (the "Client..." form) and in the AFFILIATED\_CLIENT table (the "Linked Clients..." form), i.e. a link is specified for the new client record with the client record in the original financial institution.
- "N" – when client data are moved, a new record is created only in the CLIENT table. The client record in the original financial institution becomes available for deletion. This is the default value. I.e. a new client record is not linked with the client record in the original financial institution.

## 7.13 CLOSE\_CONTRACT\_STR

The value of this parameter is the code of the Event type that opens when a contract is closed.

The default parameter value is "Close Contract".

## 7.14 CREATE\_ALL\_ACCOUNTS

CREATE\_ALL\_ACCOUNTS – A parameter that regulates how a contract's accounts are created.

Parameter values:

- "Y" (Yes) – All contract accounts for the contract are automatically created upon contract approval. This is the default value.
- "N" (No) – Upon contract approval, only contract accounts having templates with the value "First Approve" in the *Numeration Type* field will be automatically created. All other accounts will be created automatically as needed, for example, during posting of macrotransactions that refer to a corresponding contract account.



It is not recommended to change the parameter value from "N" (No) to "Y" (Yes) as in this case the system does not check whether a contract has the necessary account during transaction processing. As a result, an error will occur if the necessary account is absent. If it is necessary to change the parameter value, first specify the tag "CREATE=ALL;" in the *Template Details* field of all account templates.

## 7.15 CREATE\_FOR

The global parameter CREATE\_FOR is used to create a contract that is common to all the client's other contracts.

The value of the global parameter is a Product code (Liability Product code). When creating an issuing account contract for a certain client, a liability contract is automatically created (based on the Product with the code specified in the parameter and the Reporting relation type). If such a liability contract was already created for the client, its number is automatically specified in the *Liab Contract* field of the issuing account contract. I.e. one liability contract is created for issuing contracts belonging to the same client.

The global parameter can be redefined using the tag of the same name on the institution level (see the section "Tags used when working with financial institutions" of the document "Setup Tags").

## 7.16 CR\_LIMIT\_FX

The global parameter CR\_LIMIT\_FX with the "Y" value allows a contract credit limit to be set in a currency that differs from the contract currency. The credit limit amount is converted at the "Middle" rate at the time the credit limit is set.

The parameter's default value is "N".

## 7.17 EMAIL\_NO\_CHECK\_ADDR\_TYPES

EMAIL\_NO\_CHECK\_ADDR\_TYPES – A parameter that allows client email address verification to be cancelled. The system checks email addresses for correctness during a client record check.

If the parameter has the value "CLI\_OWN\_ADDR", then during a client record check the system will not check the email address specified in the parameters of the record (in the CLIENT table).

To cancel verification of email addresses specified during additional address setup (in the CLIENT\_ADDRESS table), assign the code of the corresponding address type to the parameter.

If it is necessary to assign several values to the parameter, the values must be separated by commas.

## 7.18 ENABLES\_SHIFT\_DAY

Use of the ENABLES\_SHIFT\_DAY parameter with the "Y" value in a production system makes it possible to open a non-working day as a banking day. If the date being opened cannot be later than the next working day. I.e. a non-working day following the current banking day (defined according to the table "Business Calendar"; "Full → Configuration Setup → Main Tables → Business Calendar") can be opened as a banking day.

The parameter's default value is "N".

The ENABLES\_SHIFT\_DAY parameter can be redefined in an institution's *Special Parms* field using the tag of the same name.

-  This parameter does not need to be set in test systems when working with the Product Inspector module. However, for manual testing in a test system (without the use of Product Inspector), the parameter must be set so that banking days can be opened out of sequence. If the system is marked as a test system, any banking date in the future can be opened (including a non-working day). The test system must be registered in the "System Instances – Simple" list and marked in this list as a test system (for more information, see the section ""System Instances" Dictionary" of the document "Way4 Dictionaries").

## 7.19 GENERATE\_LUHN

The global parameter GENERATE\_LUHN with the "Y" value makes it possible to restore previous system behavior when a check bit was used in numbering account contracts and device contracts if the *Numeration Type* field value was "Random". By default, the parameter is not set.

In the system's current behavior, a check bit is not used by default when numbering account contracts and device contracts (only when numbering card contracts, see the description of the "Random" value for the "Numeration Type" field in the section "Card Contract Subtypes Form" of the document "Products and Contract Subtypes").

## 7.20 ISS\_BILLING\_LOG\_HD\_BALANCES

The global parameter ISS\_BILLING\_LOG\_HD\_BALANCES makes it possible to save information with hardcoded balance types in the ACNT\_LOG table without registering balance types in the "Balance Types" form. Balance type codes separated by commas are specified as the parameter's value. The parameter's default value is "TOTAL\_BALANCE,CR\_LIMIT". That is, the history of balance types TOTAL\_BALANCE and CR\_LIMIT will be saved in the ACNT\_LOG table by default, without additional setup. Data on hardcoded balance types is saved in the ACNT\_LOG table at the end of the billing cycle.

The global parameter is used when configuring balance types for issuing contracts.

-  It is recommended to specify hardcoded balance types as the value of the ISS\_BILLING\_LOG\_HD\_BALANCES global parameter and to not register them in the "Balance Types" form. This setup makes it possible to reduce system load, since records in the ACNT\_BALANCE table are not generated for these balance types, and information about balance is not updated when making transactions.

## 7.21 MAX\_PREDICTION\_PERIOD

The global parameter MAX\_PREDICTION\_PERIOD is used in predicting a contract's balance. The global parameter's value is the maximum allowed period from the current date (in calendar days) during which calculation is possible.

The global parameter can be redefined for a financial institution using the tag of the same name.

If the global parameter is not set (this is the default), the calculation period for predicting a balance is not limited.

For more information about balance prediction, see the section "Predicting a Contract Balance" of the document "Special Contract Utilities".

## 7.22 MERCHANT\_ADDRESS\_TYPE\_NL

Merchant address type used if an address must be shown in a local language. Used when generating address tags in the NMAS\_DOC table to export merchant data to a payment system. This parameter contains an address code from the ADDRESS\_TYPE table.

## 7.23 PAST\_DUE\_BALANCE

The global parameter PAST\_DUE\_BALANCE is used to configure display of the date and term of a contract's delinquent debt in customer service workbench. As the parameter value, specify the code of the balance type for recording the total amount of debt. For more information, see the section "Configuring Display of Past Due Date and Past Due Days in Customer Service Workbench" of the document "Account Schemes" and section "Customer Service Form" of the document "Customer Service Manual".

## 7.24 POST\_TO\_INACTIVE\_RELATIONS

The global parameter POST\_TO\_INACTIVE\_RELATIONS with the "Y" value makes it possible to post a financial document to the same related card for which the authorization document was processed, even if this relation was not active at the time of processing the financial document.

If the *Target Spec* field (target\_spc) is filled in for the financial institution, and the specified contract differs from the related contract for which the authorization document was processed, the financial document will be posted in contract accounts from the financial institution's *Target Spec* field.

The global parameter can be redefined for a financial institution using the tag of the same name.

## 7.25 PREDICTION\_DATE\_SHIFT

The PREDICTION\_DATE\_SHIFT global parameter is used in balance prediction. See the section "Predicting a Contract Balance" of the document "Customer Service User Manual".

The parameter makes it possible to shift the date that is specified to calculate the predicted contract balance for to the working day if the date falls on a weekend.

- "P" – shift to the last working day before a weekend.
- "B" – shift to the nearest working day after a weekend.
- "N" (default value) – an error message will be generated.

A tag with the same name can be used to redefine the parameter for a financial institution.

## 7.26 PREDICTION\_MAX\_AMOUNT

The global parameter PREDICTION\_MAX\_AMOUNT is used when predicting a client's contract balance.

To calculate the amount to pay (ToPay), when predicting a balance, a technical payment is made to the client's contract. The technical payment is made, in particular, on the basis of this global parameter's value.

The global parameter PREDICTION\_MAX\_AMOUNT determines the technical amount used by the procedure when calculating the amount to pay on a specified date. The default value is "1000000000".

## 7.27 PREDICTION\_MSG\_CODE

The global parameter PREDICTION\_MSG\_CODE is used when predicting a client's contract balance.

To calculate the amount to pay (ToPay), when predicting a balance, a technical payment is made to the client's contract. The technical payment is made, in particular, on the basis of this global parameter's value.

The global parameter PREDICTION\_MSG\_CODE sets the type of document created by this technical payment. The default value is "PAYACC".

## 7.28 PREDICTION\_SOURCE

The global parameter PREDICTION\_SOURCE is used when predicting a client's contract balance.

To calculate the amount to pay (ToPay), when predicting a balance, a technical payment is made to the client's contract. The technical payment is made, in particular, on the basis of this global parameter's value.

The global parameter PREDICTION\_SOURCE sets the bank contract from which the amount of the technical payment is paid to the client's contract. The default value is "001-TELLER".

## 7.29 RENEW\_ADDRESS\_LINK

Loading of tasks to update addresses in storage is enabled by default. Load is only performed if the value of the global parameter RENEW\_ADDRESS\_LINK is "Y".

To start the process, run the menu item "Full → DB Administrator Utilities → Object Tasks → Start Object Tasks Scheduler" once.

Primary load (Full → DB Administrator Utilities → Special OpenWay Utilities → Refresh external Client Addresses storage) is also only performed when the RENEW\_ADDRESS\_LINK parameter value is "Y".

## 7.30 RESTORE\_CARD\_BALANCE

When reissuing a lost card with the "Check" or "Billing Limit" authorization scenario, blocked amounts are restored in the new contract. In addition, account balances are restored for cards with the "Check" authorization scenario.

The following authorization messages are transferred from the credit\_history table to the new contract: "In Pending", "By Usage", "When Available", "When Credit", "Accounting".

The "Accounting" authorization message is transferred only for contracts with the "Check" authorization scenario if the blocked amount in the old contract's account is not null. After data have been transferred, the ACNT\_REPLACE tag is set for the old contract.

For more information about authorization message types, see the section "Changing a Contract's Amount Available" of the document "WAY4 Authorisation Subsystem".

The RESTORE\_CARD\_BALANCE parameter makes it possible to disable restoring financial information in a reissued card:

Values for the RESTORE\_CARD\_BALANCE parameter:

- "Y" (default value) or the parameter is not set. Financial information is restored in the reissued card.
- Any value other than "Y". Financial information is not transferred to the new contract.

## 7.31 SHIFT\_TO\_WRK\_DAY

The SHIFT\_TO\_WRK\_DAY parameter (with the "Y" value) allows the due date to be shifted for accounts with the "Payment Due" and "Sliding Due" due normalization type to the nearest working day.

If SHIFT\_TO\_WRK\_DAY is used (unlike the global parameter DUE\_TO\_WRK\_DAY), the date of activity in the contract account (Statement Entry) is corrected and the corrected value is shown in the statement.

The default value is "N".

The parameter can be redefined on the account template level using the tag SHIFT\_TO\_WRK\_DAY ("Y", "N").

-  If contract functional dates are used (see the document "Contract Functional Dates"), this global parameter is used in calculating the date if the *Shift Result Date* field in date calculation rules is not filled in and the calculated date falls on a weekend/holiday. In this case, when the value of the global parameter is "N", there is no shift. When the value is "Y", the date is shifted to the first working day after the weekend/holiday. If contract functional dates are used, the global parameter can be defined for a tariff by using the tag SHIFT\_TO\_WRK\_DAY ("Y", "N", "P", "+", "-").

## 7.32 SKIP\_ROUTING

The global parameter with the "Y" value (default value) makes it possible skip filling in the routing idt field in the acnt\_contract table when approving new contracts.

If "Distributed Processing" technology is used, when the routing idt field must be filled in for regular contracts, the value of the global parameter is set to "N". In this case, to skip filling in the routing idt field, for example, for cards that have been issued but haven't been sold yet, specify the custom parameter SKIP\_ROUTING with the "Y" value in the corresponding client. When issued, these cards are put in a special technical contract and then transferred to the bank's balance, i.e. put into real contracts (using applications, see the document "Advanced Applications R2").

## 7.33 SYNC\_MAIN\_ACTIVE\_DECISION

Used to set up a change in the Product line for the main and supplementary cards (see the section "Changing the Product Line for Main and Supplementary Cards" of the document "Products and Contract Subtypes").

The global parameter's value is the code of the decision used to select the main card for reissue.

## 7.34 SYNC\_SUPPL\_ACTIVE\_DECISION

Used to set up a change in the Product line for the main and supplementary cards (see the section "Changing the Product Line for Main and Supplementary Cards" of the document "Products and Contract Subtypes").

The global parameter's value is the code of the decision used to select supplementary cards for reissue.

## 7.35 UNIQUENESS\_CLIENT\_ITN

This parameter determines whether the uniqueness of a client's individual identifier (taxpayer ID) in a financial institution and client category will be checked. This number is specified in the *Individual Number* field (*Client Taxpayer Number*) of the form for entering and editing client information.

Parameter values:

- "N" (No) – the uniqueness of a client's individual identifier is not checked.
- "Y" (Yes) – the uniqueness of a client's individual identifier is checked as follows: if there is already a client registered with this individual number in the financial institution, the new record gets the "Not Ready" status when the "Check Client" procedure is performed.

The parameter's default value is "Y".

This parameter can be redefined using the tag of the same name in a financial institution.

## 7.36 UNIQUENESS\_CLIENT\_NUMBER

This parameter affects how the system checks the uniqueness of the client number. This number is shown in the *Client Number* field of the client data form.

Parameter values:

- "N" (No) – The system does not check for client number uniqueness.
- "Y" (Yes) – The system checks client number uniqueness as follows: if more than one record of clients with the same number is registered at the financial institution, during the approval procedure of the contracts of such clients an error message will be generated and the contracts will have the status "Not Ready". This is the default value of the parameter.

## 7.37 UNIQUENESS\_CLIENT\_REG\_NUMBER

This parameter affects how the system checks for the uniqueness of the client registration number during the "Check Client" procedure. This number is shown in the *Registration #* field of the client data form.

Parameter values:

- "N" (No) – The system does not check for the uniqueness of the client registration number.
- "Y" (Yes) – The system checks for the uniqueness of the client registration number as follows: if the financial institution has a client record with a registration number and client category that is the same as those of an existing record in that financial institution, the new record will receive the status "Not Ready" after the "Check Client" procedure. This is the default value of the parameter.

## 7.38 UNIQUENESS\_CLIENT\_SOCIAL\_NUMBER

The parameter affects how the system checks for the uniqueness of the social security number (SNILS for the Russian Federation). This number is shown in the *Social Security #* field of the client data form.

Parameter values:

- "N" (No) – The system does not check for a client's social security number uniqueness.

- "Y" (Yes) – the uniqueness of a client's social security number is checked as follows: if there is already a client category registered with this social security number in the financial institution, the new record gets the "Not Ready" status when the "Check Client" procedure is performed. For the list of registered client categories, see the *Client Category* field in the "Full → Configuration Setup → Client Classifiers → Client Types" form.

The parameter's default value is "Y".

This parameter can be redefined using the tag of the same name in a financial institution.

## 7.39 UNIQUENESS\_RBS\_NUMBER

UNIQUENESS\_RBS\_NUMBER – A parameter affecting how the system checks for the uniqueness of the contract RBS number and the automatic enumeration of the contract's accounts.

Parameter values:

- "Y" (Yes) – Upon contract approval, the system checks main contracts with the same RBS Member ID values as that contract to see whether there are any with the same RBS number that aren't affiliated with "Bank Accounting" type products. If any such contracts are found, the approval procedure will be interrupted and the system will generate an error message. The contract status will remain "Not Ready".
- "N" (No) – No system check is performed, this is the default value.

The algorithm that is used by the custom procedure to automatically enumerate contract accounts and is included in the standard WAY4 setup also depends on the value of the parameter UNIQUENESS\_RBS\_NUMBER. If this parameter has the value "Y", the unique part of the contract account number will be taken from the last six digits of the contract's RBS number. Otherwise (if the parameter is set to "N"), the unique part of the contract account number will be taken from the counter whose value is stored in the ACC\_NUMBER\_COUNTER field of the corresponding account template.

## 7.40 UNIQUE\_CLIENT

This parameter determines how clients and contracts are transferred from one financial institution to another.

If this parameter has the value "Y", when a contract is transferred a client is not copied and remains in the original financial institution.

If the "N" value is set (the default value) a new client record is created in the financial institution to which the contract is being moved.

## 7.41 UNIQUE\_COUNTERPARTY\_CODE

The global parameter UNIQUE\_COUNTERPARTY\_CODE with the "Y" value enables a check for the uniqueness of the payee's code for a client or contract – a check for the uniqueness of the record in the "Payees..." form among payees set up for a client or contract ("Full → Configuration Setup →

Transaction Types → Payment on Account Types → [Payees]"/"Full → Issuing → Contracts Input & Update → Clients (Private) → [Client – Edit] → [Payees]"). The check is made among records that are active at the time of the check. The check is made when checking a client, approving a contract, processing applications.

By default, the global parameter's value is "N".

The global parameter can be redefined for a financial institution using the tag of the same name.

## 7.42 USE\_CL\_BASE\_ADDR

The global parameter USE\_CL\_BASE\_ADDR is used to determine the rule for showing an address from a client record (from the Client table) in the user interface (for example, "Addresses for <client name>" form, menu item "Customer Service → Customer Service → [Active Addr] → Addresses for <client name>").

Parameter values:

- "Y" – the address specified for a client record (Client table) is shown in the user interface. The source of the address used, "From client record", will be specified for the address.
- A value other than "Y", or the parameter value is not set, or the parameter is not set – an address from the client record is not shown in the interface.

By default, the parameter is not set.

## 7.43 USE\_SYSTEM\_ADDR\_LANG

In the current implementation, the address language from the table with address information for a client and their contracts is used (the value of the LANGUAGE field in the CLIENT\_ADDRESS table).

If system settings require the use of an address from a client record (from the CLIENT table), selection of an address language is regulated by the global parameter USE\_SYSTEM\_ADDR\_LANG.

Parameter values:

- "Y" (or the parameter is not set, default behavior) – the language registered in the global constants dictionary is used as the address language, menu item "Full → Configuration Setup → Main Tables → Global Constants" (see the section "Global Constants" Dictionary" in the document "Way4 Dictionaries").
- "N" – the language is determined according to a client record in the CLIENT table (LANGUAGE field value in the CLIENT table), if:
  - The global parameter USE\_CL\_BASE\_ADDR is set, use the address from the client record.
  - The ADDRESS\_TYPE table contains a rule to search for a particular address type using the address registered in the client record (for this address type, the value of the USE\_CLIENT\_DEFAULT field in the ADDRESS\_TYPE table is "Y"). For more information about address search rules, see the section "Address Types" Dictionary" of the document "Way4 Dictionaries".

If no language is set in the client record (value in the LANGUAGE field of the CLIENT table), it is considered that the language is not defined.

The global parameter can be redefined for a financial institution.

## 8 Acquiring Parameters

### 8.1 ALLOW\_DUPL\_TERMINAL\_ID

The global parameter "ALLOW\_DUPL\_TERMINAL\_ID" with the "Y" value makes it possible for additional parameters to identify a contract (merchant ID, financial institution ID) to be stored in a document generated with a payment order. This setting is necessary to correctly generate documents with orders when there are terminals with the same number (Terminal ID) in different financial institutions.

When the value of ALLOW\_DUPL\_TERMINAL\_ID is "Y":

- If a device contract is the transaction source, the *Merchant ID*, *Source Member ID* and *SOURCE\_IDT\_SCHEME* (by default, this field is not shown in the form) fields are additionally filled in the document.
- If a device contract is the transaction target, the *Target Member ID* and *TARGET\_IDT\_SCHEME* (by default, this field is not shown in the form) fields are additionally filled in the document.

### 8.2 ALLOW\_PURCHASE\_CASH\_REVERSAL

The parameter is used to configure "Purchase with cashback" transactions.



Before configuring support of manual reversal of "Purchase with cashback" transactions, contact OpenWay Customer Support for further consultation.

To make it possible to reverse a "Purchase with cashback" transaction manually, register the ALLOW\_PURCHASE\_CASH\_REVERSAL global parameter with the "Y" value in the "Additional Global Parameters" form (Full → Configuration Setup → Main Tables → Additional Global Parameters). The default value is "N".

The value of the global parameter can be redefined for a specific device/merchant or financial institution by using a tag with the same name. The tag at the device contract level has a higher priority.

### 8.3 ALLOW\_REV\_IN\_TREE

This parameter is used to prohibit reversal of operations executed on one POS on another POS whose contract belongs to the same contract tree as the contract of the original POS.

- If the parameter value is set to "N", it is possible to reverse an operation only if the POS Merchant IDs are the same.

- If the parameter value is set to "Y" (default value), reversal of operations is possible if the POS Merchant IDs are the same and/or the contracts of both POSEs belong to one tree.

## 8.4 ALLOW\_UNDEFINED\_RC

If the parameter value is set to "Y", a response code not registered in the handbook that is returned to the device by the system will not be replaced with the "96-System Malfunction" code.

## 8.5 CONTRACT\_OPEN\_DATE\_DELAY

The CONTRACT\_OPEN\_DATE\_DELAY parameter is used to check new contracts when they are approved (the last\_scan field of this contract is empty; the last\_scan field is filled in when the first "Contracts Daily Update" procedure is executed for the contract. The time interval between the contract opening date (Open field) and current banking date is checked. The contract opening date cannot be earlier than the current banking date by more than the number of days specified as the CONTRACT\_OPEN\_DATE\_DELAY parameter's value.

The default value is "7".

When setting a large interval between the current banking date and the contract opening date, note that recurring fees, standing payment orders, and balances may be linked to the contract opening date. Therefore if the contract opening date is in the distant past, the first time the "Contracts – Daily Update" procedure is run, fees may be charged and orders activated for the new contract.

The parameter is not used for bank contracts and contracts that were created using applications during migration.

A tag of the same name can be used to redefine the global parameter for a Product or financial institution (the tag in a Product has a higher priority).

## 8.6 CREATE\_EMPTY\_ACQ\_KEYS

This parameter allows empty keys to be created when executing the first transaction on a device for which cryptographic keys are not configured:

- When this parameter has a value of "N", no empty keys are created for the device.
- If the parameter value is set to "Y" (the default value), empty keys are automatically created for the device.

## 8.7 DECL\_PURCHRET\_IF\_ERR

The parameter determines whether or not ("Y"/"N" values) Purchase Returns/Refunds must be declined if no information was found about the corresponding purchase or if the amount of the return exceeds the purchase amount. The default value is "Y". The parameter can be redefined (in ascending order of priority) in Service Package or contract settings.

## 8.8 DEVICE\_STATISTICS\_HIST\_LENGTH

DEVICE\_STATISTICS\_HIST\_LENGTH – A parameter defining the number of calendar days during which statistics are gathered from the fields of the DEVICE\_STAT table, used to collect statistics on operations executed on acquiring devices.

The default value is 90 calendar days and is the standard recommended by VISA for the given period.

## 8.9 DEVICE\_TIMEOUT\_MIN

DEVICE\_TIMEOUT\_MIN – A parameter setting the interval in minutes from the time an operation is executed on a POS or an ATM until timeout.

If the communication server receives a request from a device to execute an operation, it will send back a negative reply if the device is busy at the moment executing an operation (the *Current Doc* field of the device's registration entry is not empty) and the interval from the start of the previous operation to the current time does not exceed the value of this parameter.

If the server receives a request from the device to execute an operation, and the interval between the start of the previous operation and the current time exceeds the value of the parameter, the *Current Doc* field of the device's registration entry is cleared and the received request is processed.

The parameter's default value is "300".

## 8.10 DOC\_USE\_3RD\_PARTY

The DOC\_USE\_3RD\_PARTY parameter is analyzed when processing tokenized On-Us transactions and defines which counterparty contract will be used to search for a Service. Possible values:

- "N" – when a search is made for a Service, a counterparty contract that is specified in the document's *Source/Target* fields is used (default value).
- "Y" – a search for a Service is made considering properties of the card contract or device contract that are registered in Way4. Identifiers of these contracts are stored in the TGT\_3RD\_PARTY and SRC\_3RD\_PARTY tags in the document's *Add Data* field.
- "S" – a search for a Service is made according to its settings. The DOC\_USE\_3RD\_PARTY=Y; tag can be specified in Service settings when it is necessary to search for a Service considering contract properties of "our" card or "our" device, and not the payment system routing contract.

## 8.11 DOUBLET\_INTERVAL\_MIN

DOUBLET\_INTERVAL\_MIN – A parameter defining the interval in minutes between the payment terminal's transaction messages when processing a card belonging to another payment system member. If this interval is exceeded, the next message will be counted as a message belonging to a new transaction.

The parameter's default value is "0".

## 8.12 ENABLE\_COUNTRY\_STATE\_SUPPORT

The ENABLE\_COUNTRY\_STATE\_SUPPORT parameter defines whether information about the state (region) in which a transaction was made must be included in outgoing messages (for example, sent to payment systems). The code of the state (region) is determined from the message received from the terminal device, or (if the required data are absent) based on the corresponding device's parameters in the WAY4 database (the value of the State field in the device's address data).

Possible values:

- "Y" – information about the state (region) is included in outgoing messages.
- "N" – information about the state (region) is not included when generating outgoing messages.

The default value is "N".

## 8.13 ENABLE\_DEVICE\_STATISTICS

ENABLE\_DEVICE\_STATISTICS – A parameter that regulates how statistics on acquiring devices are gathered.

Parameter values:

- "N" (No) – Statistics are not gathered.
- "Y" (Yes) – Statistics are gathered on operations for all types of cards. This is the default value.
- "F" (Foreign) – Statistics are gathered only for operations involving cards of other payment systems members.

## 8.14 ENABLE\_MERCHID\_OVERRIDE

When the value is "N" (default value), specific values of device parameters (DEVICE\_OVERRIDES) for certain payment systems are not considered and MERCHANT\_ID is taken from the device contract.

When the value is "Y", specific values of device parameters (DEVICE\_OVERRIDES) for certain payment systems are considered and MERCHANT\_ID is taken from the document. Therefore, by default the transaction chain is built for one merchant\_id without considering specific values of device parameters (DEVICE\_OVERRIDES).

## 8.15 ENABLE\_MERCH\_NAME\_VAR\_LENGTH

The parameter enables the mode for limiting the maximum length of an acquirer device contract *Merchant Name* field value depending on the payment system channel.

Possible values:

- "Y" – the maximum length of the *Merchant Name* field value for a specific payment system channel is limited by the value of the corresponding global parameter (for example, see the description of the [MERCHANT\\_NAME\\_LENGTH\\_X](#) parameter).
- "N" – the maximum length of the *Merchant Name* field value is always limited by the value of the [MERCHANT\\_NAME\\_LENGTH](#) global parameter.

The default value is "N".

## 8.16 ENABLE\_MPД\_COUNTRY\_CODE

The [ENABLE\\_MPД\\_COUNTRY\\_CODE](#) parameter determines the mode for including the POS terminal country code in an outgoing message in ISO format for Mastercard.

Possible values:

- "Y" – when generating messages for Mastercard based on data from a POS terminal, the MPD tag set in the WAY4 database for the corresponding terminal type is modified.  
The country code received in a message from a POS terminal is set in positions 14-16 (F61.13) of this tag. Unused positions to the left are padded with zeros. An MPD tag obtained in this way is used to generate field N 61 of outgoing messages in ISO format to Mastercard.
- "N" – the MPD tag value is not modified by adding the country code received from the POS terminal.

The default value is "N".

## 8.17 EXCLUDE\_DEVICE\_STATISTICS

[EXCLUDE\\_DEVICE\\_STATISTICS](#) – A parameter that regulates what transaction types are excluded when gathering statistics on operations using acquiring devices (see [ENABLE\\_DEVICE\\_STATISTICS](#)).

Parameter value:

- "N" (No) – Statistics are gathered without any restrictions. This is the default value.
- "Y" (Yes) – ATM operations are excluded from statistics.
- "C" (Cash) – Cash withdrawal operations are excluded from statistics.

## 8.18 ISS\_FEE\_ONLINE

The global parameter [ISS\\_FEE\\_ONLINE](#) enables (when the value is "Y") the ability to transmit a transaction message with a transaction fee request online.

By default, the parameter is not set. The ability to transmit a transaction message can be enabled using the `ISS_FEE_ONLINE=Y;` tag for a financial institution, transaction subtype, Service or contract.

## 8.19 LIST\_REV\_ON\_CREDIT

The global parameter LIST\_REV\_ON\_CREDIT defines a list of payment system codes separated by commas. For these codes, Way4 will not process automatic reversals of CH Payment transactions.

Default values: "VISA,MC".

## 8.20 MERCHANT\_NAME\_LENGTH

MERCHANT\_NAME\_LENGTH – A parameter defining the maximum length of the value in the *Merchant Name* field in acquiring device contracts. This value is used when creating field 43 of ISO 8583 standard online messages.

The default value of this parameter is "24".



It is recommended that users do not change this parameter's value without consulting international payment organizations and OpenWay representatives.

## 8.21 MERCHANT\_NAME\_LENGTH\_X

The parameter defines the maximum length of the *Merchant Name* field value for the American Express and Diners Club International channels.

The default value is "83".

This limit is only set when the [ENABLE\\_MERCH\\_NAME\\_VAR\\_LENGTH](#) parameter is enabled (its value is "Y"). Otherwise, the [MERCHANT\\_NAME\\_LENGTH](#) parameter sets limits on the length of the *Merchant Name* field value.

## 8.22 MERCH\_PARMS\_COUNTRY\_NOT\_CHECK\_FOR

This parameter makes it possible to not check that the device postal code (device address ZIP field) is filled in when approving an acquiring contract. To do so, as the parameter value, specify the list of country codes (comma-delimited) for which this check will not be executed. This setting makes it possible to avoid the "Postal Code is empty" error.

## 8.23 MTT\_INVALID\_ATC\_ALWD

MTT\_INVALID\_ATC\_ALWD – the parameter disables (value "N") the mode for the MTT\_SIC\_LIST parameter. The default value is "Y" – algorithm for processing transport transactions is the same as an algorithm for MTT\_SIC\_LIST.

## 8.24 MTT\_SIC\_LIST

The MTT\_SIC\_LIST parameter defines a comma-separated list of SIC codes, for which transport transactions (Mass Transit Transaction (MTT)) with contactless cards with an incorrect value of the application transaction counter (ATC) cannot be made.

In Way4, these transactions are logged with a warning message, and an error code is not recorded in documents. In addition to a list for the MTT\_SIC\_LIST parameter, the same is applied to the following SIC codes: 4111,4112,4131.

## 8.25 MULTIPLE\_ADJUSTMENTS

When the value of the global parameter MULTIPLE\_ADJUSTMENTS is "Y", WAY4 supports processing several sequential partial reversals (with creation of a "Reversal" document) or adjustments (with creation of an "Adjustment" document) following the original authorization.

When the parameter's value is "N" (default value), after the first reversal or adjustment all subsequent adjustments or reversals will be rejected.

The parameter's value can be redefined in the device type configuration (*Special Configuration* field of the "POS Type" form) with the tag of the same name.

## 8.26 ONUS\_TYPES\_TO\_IPS

The global parameter ONUS\_TYPES\_TO\_IPS defines a list of card contract type codes (separated by commas) for which tokenized On-Us transactions are routed to payment systems. By default, the parameter is empty, that is, information about On-Us transactions is not sent to payment systems.

## 8.27 ONUS\_TYPES\_TO\_IPS\_MODE

The global parameter ONUS\_TYPES\_TO\_IPS\_MODE makes it possible to configure sending data on tokenized On-Us transactions to a payment system for contracts of the specified subtype. If the contract type is specified in the ONUS\_TYPES\_TO\_IPS global parameter and the ONUS\_TYPES\_TO\_IPS\_MODE parameter is set to "SUB", data on transactions will be sent to a payment system for contract subtypes for which the tag SEND\_TO\_IPS=Y is set.

The default value "ALL" means that data on tokenized On-Us transactions is sent to a payment system according to the ONUS\_TYPES\_TO\_IPS parameter regardless of contract subtype settings.

## 8.28 RETAIL\_BRANCH\_CODE\_TO\_ATM

This parameter controls how a financial institution's code is sent to the ATM controller (a financial institution's code, in particular, is used for printing advertising on ATMs):

- When the value of the parameter is "Y" the value of the *Branch Code* field of the financial institution in which the device contract is registered (the ATM owner's financial institution) is sent to the ATM controller.
- When the parameter value is "N" (the default value) the value of the *Branch Code* field of the financial institution in which the ATM Retail contract is registered is sent.

## 8.29 RRN\_FALLBACK\_ALLOWED

RRN\_FALLBACK\_ALLOWED – this parameter determines the procedure for linking documents for transactions made on a payment terminal:

- When the value is "Y" (the default value), documents are linked in the same mode (using RRN) without using the STAN parameter.
- When the value is "N", documents are linked using the STAN parameter. If a search using this parameter gave no results, linking is considered unsuccessful, and an additional search by RRN is not made.

On the POS terminal type level (Full → Configuration Setup → Merchant Device Setup → POS Types) the RRN\_FALLBACK\_ALLOWED tag can be set in the *Special Configuration* field, allowing the procedure for linking documents to be determined for a specific POS terminal type.

## 8.30 SETTLE\_MERCHANT\_BY\_POS\_CYCLES

SETTLE\_MERCHANT\_BY\_POS\_CYCLES – the parameter indicates whether it is necessary ("Y"/"N") to generate a payment to a merchant when a final message is received with data about online transactions ("0500" message type) made in a POS cycle. When the parameter's value is "Y", regardless of the cycle's reconciliation results, a job will be generated to pay the merchant and this job will be processed in the order of the existing queue. The default value is "N".

The parameter can be redefined with the tag of the same name (in ascending order of priority) for a specific financial institution or contract.

## 8.31 SOFT\_BATCH\_UPLOAD

SOFT\_BATCH\_UPLOAD – A parameter defining the order in which financial documents are posted on payment terminal operations where the devices were operating in dual message mode after the batch upload procedure.

Parameter values:

- "N" (No) – After the batch upload procedure, financial documents are assigned a "Waiting" status. This is the default value.
- "Y" (Yes) – After the batch upload procedure, posting of financial documents is suspended, the documents are assigned a "Suspended" status and an event with the event type code "POS\_RECON\_REVERSE" is opened.

## 8.32 TKN\_AUTOREUSABLE

The global parameter TKN\_AUTOREUSABLE enables (value "Y") to link the token to a new card contract if the payment system's message about completion of the tokenization process contains the token number that was earlier registered in Way4 for another card.

The functionality can also be enabled using the tag TKN\_AUTOREUSABLE=Y; in settings of a financial institution, Service Package or Product.

## 8.33 UNIQUE\_DEV\_NW\_ADDR

If the value of the UNIQUE\_DEV\_NW\_ADDR parameter is set to "Y", a check is performed on the uniqueness of the value of the "NW Address" parameter when approving an ATM contract. If the parameter's value is "N" (the default value), no check is performed.

## 8.34 USE\_CUT\_OFF\_TIME

USE\_CUT\_OFF\_TIME – A parameter regulating the *Cut-Off Time* parameter. This parameter is indicated in the device's registration entry and defines the period up until which operations using that device are processed with the current banking date.

Parameter values:

- "N" (No) – The *Cut-Off Time* parameter is not considered when processing an online transaction made on a device, or posting a document generated for the transaction; this is the default value.
- "Y" (Yes) – The *Cut-Off Time* parameter is considered when processing online transactions on the device. If the current system date of the communication server is later than the system banking date with the value of *CutOff Time* added, one workday will be added to the *Posting Date* for documents created online. The calendar of workdays is also considered. If the next day is a weekend, the posting date will be the date of the next workday.



It is not recommended to use this value to set the *Cut-Off Time* parameter together with the global parameter [WAIT\\_BATCH\\_UPLOAD](#).

- "B" (Batch Upload) – The *Cut-Off Time* parameter is considered when posting a document generated for a transaction made earlier on a device that supports financial cycles. If the global parameter [WAIT\\_BATCH\\_UPLOAD](#) has a value that requires waiting for a cycle to be closed, only documents for transactions that were confirmed by the results of reconciling the terminal's

financial cycle will be processed. These documents will be posted with consideration of the *Cut-Off Time* parameter. If the date on which a transaction was made on the terminal device is later than the system banking date plus the time specified in the *CutOff Time* parameter, the macrotransaction date (*Posting Date*) for documents being posted will be increased by one working day (with consideration of the business calendar).

## 8.35 USE\_SUBDEVICE\_KEYS

The parameter determines the mode to generate and search for subdevice keys:

- "Y" – for subdevices, their own keys are used.
- "N" – the "parent" device determines subdevice keys.

The default value is "N".

## 8.36 WAIT\_BATCH\_UPLOAD

WAIT\_BATCH\_UPLOAD – A parameter defining the acceptance order of documents for operations executed on payment terminals working in dual message mode.

Parameter values:

- "Y" (Yes) – Financial documents are not processed and are not sent until the batch upload procedure has been executed.
- "N" (No) – Financial documents with the request/alert category "Advice" are processed and sent within one day, "Reversal" category documents are processed only after the batch upload procedure has been executed. This is the default value.
- "R" – Financial documents with the request/alert category "Advice" and "Reversal" type documents for operations executed on on-us cards are processed and sent within one day, "Reversal" documents for "foreign" cards are only processed after the batch upload procedure has been executed.



When the value of the USE\_CUT\_OFF\_TIME parameter is "Y", processing of documents in the order defined by the WAIT\_BATCH\_UPLOAD procedure is not guaranteed. Simultaneous use of these parameter values is not recommended.

# 9 Processing Online Operations

## 9.1 3DS\_MC\_EXTRA\_BRANDS

This global parameter is used for support of the 3-D Secure protocol.

A list (comma-delimited) of identifiers of payment system additional products (the *Brand* field of the BIN table) processed by the MasterCard SecureCode system (except "MAST", "CRUS", "ECCR", ECHA", "ECMC", MAES") is specified as the parameter value.

## 9.2 3DS\_VISA\_EXTRA\_BRANDS

This global parameter is used for support of the 3-D Secure protocol.

A list (comma-delimited) of identifiers of payment system additional products (the *Brand* field of the BIN table) processed by the Verified By VISA system (except 'VISA', 'PLUS') is specified as the parameter value.

## 9.3 ADD\_PACK\_BT

The global parameter ADD\_PACK\_BT with the "N" value makes it possible to not analyse additional Service Packages when generating balances returned in a response to an authorization request.

The default value of the parameter is "Y", i.e. additional Service Packages are analysed.

This setting can be made for a specific Service Package, not all Packages, by specifying the ADD\_PACK\_BT=N; tag in the Service Package's *Special Params* field.

## 9.4 ALIAS\_AUTH\_TYPE

The ALIAS\_AUTH\_TYPE parameter defines which type of Alias identification scheme should be used when processing Alias management requests. The code of an identification scheme type corresponding to a code registered in the Way4 database is used as the parameter's value (Authentication Module → Authentication Types). For example, "VADS" (Visa Alias Directory Service). There is no default value. The parameter can be redefined for a specific financial institution (FI) by adding the same tag with a value in the *Special Params* field of the form with additional information about the financial institution (see the section "Additional FI Parameters" of the document "Financial Institutions").

## 9.5 ALLOWED\_AUTH\_SRC\_CH\_LST

This parameter allows authorization to be performed for specified channels, if no source contract and no routing contract (sending channel) was found during authorization. To do so, the parameter value must be a list of channels, separated by commas, for which authorization is permitted without a source contract.

If no routing contract was found during authorization and the source contract is absent in the list of channels specified as the value of this parameter, authorization is declined with the response code RC="3" (with the error "Device ID is not on file").

## 9.6 ALTERNATIVE\_CONTRACT\_ID\_TYPE

The global parameter ALTERNATIVE\_CONTRACT\_ID\_TYPE specifies the code of the identification scheme type used to search for contracts (Authentication Module\Identification Types).

If the contract number received in the request is not found in the ACNT\_CONTRACT table, and the identification type code is set using the global parameter ALTERNATIVE\_CONTRACT\_ID\_TYPE, a search will be made for this identifier in the TD\_AUTH\_SCH table.

## 9.7 AUTH\_CLIENT\_CHCK

If this parameter is set to "Y", the system checks whether a client is included in the stop list when authorizing on-us cards. The default parameter value is "N" (do not check if a client is included in the stop list).

## 9.8 AUTH\_CODE\_ALGORITHM

The global parameter AUTH\_CODE\_ALGORITHM is used to set the algorithm for generating authorization codes.

The parameter makes it possible to disable the use of current values in the table with authorization codes (CARD\_AUTH\_CODE\_DATA).

Methods for generating authorization codes:

1. AUTH\_CODE\_ALGORITHM=RANDOM – a transaction type classifier (Service Class) character and DBMS\_RANDOM.VALUE are used to generate authorization codes.
2. AUTH\_CODE\_ALGORITHM=HA\_NODE+CONTRACT\_COUNTER – this value is used for topologies with multiple nodes. The number of the node + the value of the counter stored in the contract is present in the code that is generated.
3. AUTH\_CODE\_ALGORITHM=MIXED\_NUMBER\_BY\_CONTRACT – DBMS\_RANDOM.VALUE and the value of the counter stored in the contract are used to generate authorization codes.

4. AUTH\_CODE\_ALGORITHM=RANDOM\_NUMBER – DBMS\_RANDOM.VALUE is used to generate authorization codes. In the authorization code, the transaction type classifier's (Service Class) character is replaced with a numeric value.
5. AUTH\_CODE\_ALGORITHM=PAN\_COUNTER+HA\_NODE – this value is used for topologies with multiple nodes. Base counters for generating authorization codes are stored in the table CARD\_AUTH\_CODE\_DATA. Each counter is uniquely linked with a PAN. One common counter is used for all contracts with the same PAN. The code that is generated contains the counter value + node number.

Note that when using these algorithms, duplication of code values is possible, which may lead to document matching errors.

By default, the parameter AUTH\_CODE\_ALGORITHM=BY\_PAN\_COUNTER. In this case, base counters for generating an authorization code are stored in the CARD\_AUTH\_CODE\_DATA table. Each counter is uniquely linked with a PAN. One common counter is used for all contracts with the same PAN.



This parameter should only be changed after consultation with OpenWay representatives.

## 9.9 AUTH\_EMPTY\_TRANS\_DATE

This parameter makes it possible to regulate filling in the transaction date field in the document (*Trans Date*) if date information is absent in incoming information on the transaction. Possible values:

- "DB\_DATE" (default value) – the system date is used as the transaction date (i.e. the date the issuer accepted the transaction message).
- "NW\_REF\_DATE" – the GMT date the payment system accepted the transaction message is used as the transaction date.

## 9.10 AUTH\_FIN\_DOC\_MODE

This parameter sets the mode for creating documents for authorization when an online message is received (transaction information exchange using the Single Message System service).

Parameter values:

- "SMS" – one document is created to check available funds, block and withdraw (a financial document with the "Advice" category).
- "FIN" – a financial document ("Advice" category) is created. Checking and blocking are not performed.
- "DUAL" – (default value). If checking and blocking are successful, an authorization document (with the "Request" category) and financial document (with the "Advice" category) are created.

This parameter can be redefined on the document or message type level using the DOC\_MODE tag (the tag's values are the same as the values of the global parameter AUTH\_FIN\_DOC\_MODE).

## 9.11 AUTH\_ONLINE\_TAGS

This parameter allows user-defined tags to be sent to NetServer when processing an authorization request.

Tags delimited by semi-colons (";") are used as a parameter value. These tags are searched for in the fields *Service Details* (in Service properties), *Fee Algorithm Options* (in transaction subtype properties) and *Add Params* (in contract subtype properties).

If tags are found, their values are sent in the parameter "ExtOutData".

## 9.12 AUTH\_REQ\_ADD\_AUTH\_METHOD

The parameter defines conditions according to which additional authentication is required during tokenization of a client card (specifying code 85 in the MDE39 field of the "Tokenization Authorization Response" response message). If the parameter's value is set to 1, the need for additional authentication is defined by Service Package settings (presence of the FORCE\_AUTH tag with the "Y" value, see the section "Configuring possible methods of additional authentication" of the document "WAY4 MDES Tokenization. Installation and Setup"). If the value of the AUTH\_REQ\_ADD\_AUTH\_METHOD parameter is other than 1, additional authentication is only required for processes of creating a token manually or based on merchant (internet store) data.

## 9.13 AUTH\_REQ\_TOKEN\_CHECK

AUTH\_REQ\_TOKEN\_CHECK – the parameter determines whether tokens must be checked for specific service providers when processing tokenized authorizations. If the parameter value has no value or its value is "Y" (default), the value of the same tag that is specified in the settings of the financial institution or subtype for the corresponding contract is analysed (in order of increasing priority):

- If the tag AUTH\_REQ\_TOKEN\_CHECK is not present in these settings, tokens are checked for all service providers.
- If the tag AUTH\_REQ\_TOKEN\_CHECK is set without a value, tokens are not checked for all service providers.
- If the tag AUTH\_REQ\_TOKEN\_CHECK contains a list of service provider codes separated by commas (for example, the code for ApplePay is 103), tokens are not checked for the corresponding service providers.

## 9.14 AUTH\_REQ\_USE\_BASIC\_TOKEN

List of payment system codes for which support of tokenization is disabled in WAY4. For tokenization requests from these payment systems, WAY4 tokenization procedures are not applied and the corresponding checks are not made. Possible values: VISA, MC, MIR, UPI, AMEX. By default, the parameter is not set (i.e. by default, the list is empty).

## 9.15 AUTH\_RESP\_BERTLV\_MSG\_TAG

This parameter allows informational messages to be sent together with the response to an authorization request (these informational messages are displayed on the screen of an ATM (kiosk) or printed on a check). The global parameter AUTH\_RESP\_BERTLV\_MSG\_TAG is used to turn on this function. It sets a higher-level tag container in which messages will be sent. It is recommended to use the "EF" value.

If the AUTH\_RESP\_BERTLV\_MSG\_TAG parameter is not specified, messages are not sent.



Additional settings are required to enable this functionality. For more information, contact OpenWay.

## 9.16 AUTH\_REV.REJ\_FRAUD\_FOR

The value of the AUTH\_REV.REJ\_FRAUD\_FOR parameter is a list of target channel codes (Code field of the form "Full → Configuration Setup → Main Tables → Message Channels") for which transit reversal or adjustment documents will be rejected if they did not pass an additional check enabled by the global parameter AUTH\_REV\_MCC\_CHECK\_LIST.

By default (if the global parameter AUTH\_REV.REJ\_FRAUD\_FOR is not set), these documents are sent to the recipient with the marker (tag) SUSP\_REV\_FRAUD;. For more information, see the section "["AUTH\\_REV\\_MCC\\_CHECK\\_LIST"](#)".



It is not recommended to use the AUTH\_REV.REJ\_FRAUD\_FOR parameter without consulting OpenWay representatives.

## 9.17 AUTH\_REV\_MCC\_CHECK\_LIST

The global parameter AUTH\_REV\_MCC\_CHECK\_LIST is used to prevent fraudulent reversals of authorizations (for example, reversal of authorization for a cash withdrawal transaction). The

parameter enables an additional check when an authorization reversal is received (in addition to the standard check that the "RRN" parameter matches) to check that the source\_member\_id and ps\_ref\_number parameters of the original authorization request and received authorization reversal match.



A transit document about a transaction reversal or adjustment is sent to the recipient even if the aforementioned parameters differ from the original document. The SUSP\_REV\_FRAUD tag is automatically set in the ADD\_INFO field for the document being sent. For some target channels, this default behavior can be changed with the global parameter AUTH\_REV.REJ\_FRAUD\_FOR (see the section "["AUTH\\_REV.REJ\\_FRAUD\\_FOR"](#)").

AUTH\_REV\_MCC\_CHECK\_LIST parameter values:

- The parameter value is a comma-delimited list of merchant category codes (the Code field of the "Full → Configuration Setup → Main Tables → SIC Codes" form) for which the additional check is performed (default merchant categories are also checked, see below).  
The default value of the parameter is "6011,6012,6536,6537,6538".
- To perform the additional check for all merchant category codes, set the "ALL" value.

## 9.18 AUTH\_SMS\_CHCK

The global parameter AUTH\_SMS\_CHCK makes it possible to optimise the authorization posting procedure when there are high loads on the system.

The global parameter is used when processing SMS (Single Message System) messages.

When the value is "N", after a financial document is generated for a message, the document is not checked.

The parameter's default value is "Y".

## 9.19 AUTH\_TIMEOUT

The global parameter AUTH\_TIMEOUT is used to specify the period in milliseconds for creating a response to an authorization request. If creation of the response takes longer, the record of the authorization request is deleted with a corresponding message in the system protocol. The default value is 0 (the parameter is turned off, tracing is not performed).



It is highly recommended that users do not change the value of this parameter without consulting OpenWay representatives.

## 9.20 AUTH\_TOKEN\_ACT\_CODE\_METH

The AUTH\_TOKEN\_ACT\_CODE\_METH parameter is used to set the list of available OTP methods.

Syntax is the same as for the AUTH\_TOKEN\_ANSW parameter (see the section "[AUTH\\_TOKEN\\_ANSW](#)"), values in the list are separated by commas. In the parameter, identification methods are listed for which OTP\_CODE can be used. By default, phone and mail (VDEP\_PN, VDEP\_EMA).

## 9.21 AUTH\_TOKEN\_ADDR\_TYPE

The address type (value of the ADDRESS\_TYPE table's Code field) used to identify a contract or client's address type when processing a Tokenization Authorization Request (TAR) is set in the AUTH\_TOKEN\_ADDR\_TYPE parameter.

This identification of a contract's (client's) address type is used for transactions made using NFC (phones, tokens, etc.).

## 9.22 AUTH\_TOKEN\_ANSW

This parameter defines the list (values separated by commas) of available authentication methods that is passed by WAY4 in response to TAR. Possible values for VDEP tokenization:

- VDEP\_PN – through an activation code sent by SMS to a client's mobile phone number (the number is masked when sent).
- VDEP\_EMA – through an activation code sent to a client in an email (the email address is masked when sent).
- VDEP\_OC – through a call to the phone number of an automated call center.
- VDEP\_CS – through a call to a call center's phone number.
- VDEP\_BA – through a mobile app.

Possible values for MDES tokenization:

- MDES\_PN – through an activation code sent by SMS to a client's mobile phone number (the number is masked when sent).
- MDES\_EMA – through an activation code sent to a client in an email (the email address is masked when sent).
- MDES\_ACN – through a call to the phone number of an automated call center.
- MDES\_CN – through a call to a call center's phone number.
- MDES\_WEB – through a website.
- MDES\_MA – through a mobile app.
- MDES\_MCN – through a call initiated by the bank to a client's phone number.

VDEP\_PN/MDES\_PN and VDEP\_EMA/ MDES\_EMA parameter values are filled in according to a client's address information, the type of which is defined by the global parameter AUTH\_TOKEN\_ADDR\_TYPE.

Values of the remaining parameters are defined explicitly according to the values of AUTH\_TOKEN\_ANSW. For example, the following parameter value:

AUTH\_TOKEN\_ANSW=VDEP\_PN=,VDEP\_CS=+1234567890123;

Indicates the ability to authenticate in two ways:

- By sending an activation code to the client's mobile phone number specified in address data, the type of which is set by the value of the global parameter AUTH\_TOKEN\_ADDR\_TYPE.
- By the client calling the bank's call center at the number set as the value of the VDEP\_CS parameter (i.e. +1234567890123).

The global parameter AUTH\_TOKEN\_ANSW can be redefined for a specific financial institution by adding the parameter of the same name to the *Special Params* field of the form with additional information about a financial institution (see the section "Additional FI Parameters" of the document "Financial Institutions").

## 9.23 AUTH\_USE\_FORCE\_AMOUNT

If the global parameter AUTH\_USE\_FORCE\_AMOUNT has a value other than the default value of "N", the tags FORCE\_AMOUNT and FORCE\_CURR specified in a Service's *Service Details* field will be processed. This way, for a Service it is possible to set the value of an amount that will be used instead of the value received in an authorization request.

## 9.24 BALANCE\_TYPE\_1, BALANCE\_TYPE\_2

These global parameters can be used to specify hardcoded balance types, information on the values of which is sent in the response to an authorization request. A two-digit balance type code is specified as the parameter value. Possible values:

- "01" – own funds (balance type TOTAL\_BALANCE)
- "02" – available funds (balance type AVAILABLE)
- "90" – unused credit limit (balance type FIN\_LIMIT if the difference between the balances TOTAL\_BALANCE and BLOCKED is greater or equal to "0"; in other cases, the amount is calculated using the balance types TOTAL\_BALANCE, BLOCKED and FIN\_LIMIT)
- "91" – credit limit (balance type FIN\_LIMIT)
- "92" – amount of the contract's credit limit and additional authorization limit (balance type CR\_LIMIT)

Default values: The default values are "02" and "91".

## 9.25 BAL\_FX\_RATE\_TYPE

This parameter determines the type of FX rate used to calculate the balance of a contract with accounts in different currencies:

- If the value of this parameter is set to "M" (the default value), the balance on which information is given on a check after performing an operation or provided in response to a balance inquiry is calculated at the middle rate.
- If the value "B" is set for this parameter, the balance is calculated at the FX Sell rate.
- If this parameter has a value of S", the balance is calculated at the rate specified in the Service.

This global parameter can be redefined in the *Special Params* field of the Service Package using the tag of the same name.

## 9.26 CHCK\_BASE\_USAGES

If the value of the CHCK\_BASE\_USAGES parameter is "Y" (default value), when processing a request for a related card contract (Related Card), the limiters of this contract and of the "base" contract (Base Card) are checked.

When the value of this parameter is "N", previous system behavior is restored, when only the limiters of the related contract are checked.

This parameter can be redefined using the CHCK\_BASE\_USAGES=Y/N; tag in the *Special Params* field in the form with full information about a Service Package (Full → Configuration Setup → Products → Service Packs" → [Details]).

## 9.27 CHCK\_TKN\_CARD\_STATUS

The global parameter CHCK\_TKN\_CARD\_STATUS manages the ability to process a transaction using a payment token, if the status of the corresponding card contract prohibits authorization of the card (for example, if for some reason the card is blocked: "Card Do not honor", "Pick Up L 41", "Pick Up S 43" etc.). Possible values:

- "N" – tokenized transactions are processed.
- Any other value or the absence of the parameter is interpreted as a ban on processing tokenized transactions for cards in these statuses.

The parameter can be redefined using the same tag for a specific financial institution (see the section "Additional FI Parameters" of the document "Financial Institutions").

## 9.28 CHIP\_ATC\_DEFERRED

Processing of "deferred" authorization requests for smart card transactions. Parameter value:

- "ENABLE" – ATC (Application Transaction Counter) value ranges are logged in database and checked. If the ATC value received in a request exceeds the value stored in the database by more than 1, the transaction is permitted, and the range that is skipped (difference between the value in the database and the value from the request) is recorded in the database. If when processing the next authorization request for this smart card the ATC value falls in the stored range, the transaction is permitted, otherwise it is prohibited. This is the default value.

- "DISABLE" – the range of skipped ATC value is not logged and checked. If the ATC value in an authorization request is less than the value in the database, the transaction is rejected.

## 9.29 CHIP\_ATC\_MAX\_INCREMENT

The global parameter CHIP\_ATC\_MAX\_INCREMENT is used to set the maximum permissible difference between the ATC value (Application Transaction Counter (ATC)) in the database and the new value of this counter in a smart card when an online transaction is made using this card.

If the ATC value received in a request exceeds the value stored in the database by more than the amount set in this parameter, the transaction is declined.

## 9.30 CLEAR\_BILLING\_BLOCKED

CLEAR\_BILLING\_BLOCKED – this parameter determines the mechanism for blocking available funds in higher-ranking and subordinate contracts if the "Billing Limit" rule is used to calculate available funds (Auth Scenario="Billing Limit", "Main/Sub" contract hierarchy). For a "Billing Limit" scenario, all a subordinate contract's accounts are reset at the end of a billing cycle. In this way, the contract's amount available is restored each month. The CLEAR\_BILLING\_BLOCKED parameter is used to determine how blocked funds will be recorded:

- "Y" – at the end of a billing cycle, all funds blocked for subordinate card contracts are moved to the higher-ranking account contract. The operation is performed during the nearest Contracts – Daily Update procedure. Therefore, with the start of a new billing cycle, the entire amount of an individual credit limit becomes available in a subordinate contract.
- "N" – in a new billing cycle, the amount of available funds in a subordinate contract decreases by the amount blocked for transactions made in the previous billing cycle.

The parameter's default value is "Y".

## 9.31 CLOSE\_PREV\_PLASTIC

CLOSE\_PREV\_PLASTIC – A parameter used to solve problems arising due to the simultaneous use of old and reissued plastics.

Parameter values:

- "A" – the system locks the old plastic when the reissued plastic is unlocked.
- "Y" (Yes) – When the first operation with the new plastic is registered, the system locks the old plastic.
- "N" (No) – This is the default value and allows both the old and reissued plastics to be used.

The global parameter can be redefined using a tag with the same name in the financial institution, contract subtype.

## 9.32 CSA\_NO\_SUCH\_CARD\_IN\_HEADOFFICE

This parameter is used to configure the CSA – Card Suspect Activity Monitoring module.

When the "Y" value is set (the default value) the CSA – Card Suspect Activity Monitoring module registers authorization requests on absent cards in the dispute contract of the head financial institution. When the value is set to "N", the module registers authorization requests on absent cards in the contract with the appropriate subtype.

## 9.33 DECLINE\_REV\_AFTER\_CHBK

The parameter determines the need to generate an RC=58 response code (prohibit transaction) to the payment terminal during an attempt to reverse a disputed transaction (for example, a Chargeback was received earlier from the issuer). Indication that the original transaction is part of a dispute cycle is the existence of the corresponding document (Is Authorized = "Fin", Request Category = "Advice") with the status Posting Status = "Inactive".

Possible values for the parameter:

- "Y" – decline transaction reversal.
- "N" – process transaction reversal (default value).

The parameter's value can be redefined for a specific financial institution by specifying the same tag in the *Special Parms* field of the "Details for <financial institution name>" form.

## 9.34 EMV\_ATC\_CHECK

This parameter is used in fighting fraud. The parameter allows a check of the Application Transaction Counter (ATC) on smart card EMV applications. The ATC for each consecutive operation must be larger than for the previous operation. If this condition is not met, the operation is declined.

This function is active when the parameter value is set to "Y" (the default value). To turn off checking, the parameter must be set to "N".

If the EMV\_ATC\_CHECK global parameter is set to "C", a check is made for the presence of the EMV\_ATC\_CHECK tag and its value in a card contract subtype, and if the tag is not found in a subtype, the tag is checked in a financial institution. If the tag is not found, the transaction counter (Application Transaction Counter (ATC)) is checked.

## 9.35 HIDE\_NEGATIVE\_BALANCE

If the value of this parameter is "Y", when a balance inquiry is made on a contract with a negative balance, the response will show a zero balance.

If the value is "No", the response will show the actual balance.

## 9.36 INTRANET\_SERVER

When declining authorization with the code RC="01" (Call Issuer) forced authorization is performed (the authorization code is generated manually) according to the results of a call to the issuer. If the contract balance is not maintained in the WAY4™ system but in another banking system, it is necessary to send the appropriate information to this system. To do so, the global parameters INTRANET\_SERVER, NETSERVER\_CHANNEL\_<Message Channel Code>, and NETSERVER\_TIMEOUT\_<Message Channel Code> are used.

Parameter values are set in the following format:

- INTRANET\_SERVER = <Intranet Station Code>
- NETSERVER\_CHANNEL\_<Message Channel Code>=
- <NetServer Channel Code>=
- NETSERVER\_TIMEOUT\_<Message Channel Code>=
- <number of seconds>

The Message Channel Code (bank system channel code) is set in the table Full → Configuration Setup → Main Tables → Message Channels.

## 9.37 LOCKED\_CARD\_RC

A parameter containing the response code returned by the system to a device when an attempt is made to authorize a newly issued card that has a "Locked" status.

The default parameter value is 54 ("The card has expired").

The default value can be substituted with a custom value if the transaction does not lead to plastic being unlocked and its conditions make it possible.

Unambiguously identify a plastic, and this plastic is in "Locked" status.

Select an "appropriate" plastic, and this plastic is in "Locked" status.

## 9.38 LOG\_MISSING\_ATC\_TO\_DOC

LOG\_MISSING\_ATC\_TO\_DOC – log missing Application Transaction Counter (ATC) values for smart cards in document tags. Parameter values:

- "Y" – ATC values are specified in tags in the document's Add Info field:
  - If the counter value in a processed message is less than the value of the counter in the database, tags will be added to the document:
    - DEFERRED\_ATC – value received in the processed message.
    - LAST\_ATC – value stored in the database.
  - If the counter value in a transaction exceeds the counter value in the database by more than one unit, the following tags will be added to the document:

- OLD\_ATC – value stored in the database.
- NEW\_ATC – value received in the processed message.
- "N" or the parameter is not set – counter values are not logged in the document.

When setting up this parameter, setup of the [CHIP\\_ATC\\_DEFERRED](#) global parameter must be considered ([CHIP\\_ATC\\_DEFERRED](#) should be set to "ENABLE").

## 9.39 MERCHANT\_PREFERENCE\_CASE\_SENSITIVE

The parameter defines case sensitivity when checking preferred counterparties according to the MERCHANT\_ID, TRANS\_CITY, and MERCHANT\_NAME parameters and parameters set using the MI\_LIST and EXC\_MI\_LIST tags. The check can be made according to parameters set in the properties of the counterparty itself, and in "Custom Handbooks" handbooks (see the section "[Using "Custom Handbooks" to Configure Preferred Counterparty Parameters](#)" of the document "Preferred Counterparties").

The parameter's default value is "N". The parameter's default value is "N"; by default, checks are not case-sensitive.

## 9.40 MSG\_PRE\_CACHE

This parameter is used to force data caching before generation of a message. The default value is "Y". To increase productivity, this function can be turned off by setting the parameter value to "N".

## 9.41 NETSERVER\_CHANNEL\_<Message Channel Code>

For a description of this parameter, see the description of the "[INTRANET\\_SERVER](#)" parameter.

## 9.42 NETSERVER\_TIMEOUT Message Channel Code>

For a description of this parameter, see the description of the "[INTRANET\\_SERVER](#)" parameter.

## 9.43 ONLINE\_CREDIT\_PENDING

ONLINE\_CREDIT\_PENDING – A parameter regulating how the amount available is changed in the account of the card contract when credit operations are executed at ATMs and payment terminals.

Parameter values:

- "Y" (Yes) – When funds are deposited, the amount available on the card contract increases immediately when the operation is executed due to the blocking of a negative amount of funds in the account. This amount is unblocked when the financial document for the deposited funds has been posted.
- "N" (No) – The amount available on the card contract increases only after the financial document for the deposited funds has been posted. This is the default value.
- "L" – When transactions are performed with on-us cards on "on-us devices", the card contract's amount available increases immediately after the transaction; when transactions are performed with "on us" cards on "foreign" devices, the card contract's amount available increases only after the financial document is posted.



It is not recommended to use the global parameter ONLINE\_CREDIT\_PENDING with online credit transactions on an account with the Is Am Av=No flag. This setting is not correct as when a transaction is made the amount available does not change.

This global parameter can be redefined using the PENDING=<value>; tag on the transaction sub-type level (see the document "Documents").

## 9.44 ONLINE\_STATEMENT\_PERIOD

This parameter defines the length of time in calendar days, counted from the current calendar day, during which executed transactions will be shown in an ATM mini-statement.

The range of possible parameter values: 1...1000. The parameter's default value is "30".

Regardless of this parameter's value, mini-statements can contain no more than the 10 last transactions.

Transactions to be shown in the mini-statement are selected as follows. All authorization documents whose amounts are not yet unblocked are selected for the time period indicated by the parameter ONLINE\_STATEMENT\_PERIOD, as well as no more than the last ten financial documents by posting date. The selected documents are sorted by their transaction dates and no more than the last ten documents by transaction date are selected to be included in the mini-statement.

## 9.45 PARTIAL\_APPROVAL\_ENABLE

In standard system behavior, if an authorization request contains a flag that the merchant is ready to accept partial authorization (PARTIAL\_APPROVAL\_SUPPORT=Y;) and the available amount on the contract is less than required, the amount is corrected.

The global parameter PARTIAL\_APPROVAL\_ENABLE allows partial authorizations to be prohibited. To do so, set the parameter value to "N".

This global parameter can be refined on the Service Package or transaction subtype level.

## 9.46 RM\_USG\_CHCK\_MODE

This parameter determines how usage limiters with the "Risk Rule" type will be checked:

- If the value is "CSA" (the default value) the check is performed as part of the CSA – Card Suspect Activity Monitoring module check.
- If the value is "USG", the check will be performed during the check of the remaining usage limiters.

## 9.47 SEC\_VAL\_COUNTS\_TR\_COND

The global parameter SEC\_VAL\_COUNTS\_TR\_COND is used to specify the list of codes for methods allowing the number of transactions made with certain conditions to be limited. For example, without PIN entry, or without cardholder verification (No-CVM transactions).

Methods are set up in the authentication type dictionary (TD\_AUTH\_TYPE).

In each of these methods, a list of transaction conditions whose number must be limited (INCREMENT parameter) and a list of transaction conditions for which the counter must be reset (RESET parameter).

## 9.48 SEND\_PVV\_2\_PS

The global parameter SEND\_PVV\_2\_PS with the "Y" value makes it possible to generate a message to the payment system to send card PVV data when changing a PIN. A message is generated when changing a PIN through an online request and when accepting data from "PIN Management" if a new PIN is being issued (Reorder PIN).

The global parameter can be redefined in a contract subtype's *Add Params* field using the SEND\_PVV\_2\_PS tag (i.e., using the SEND\_PVV\_2\_PS=N; tag, sending PVV data to the payment system can be disabled on the contract subtype level).

The default value of the SEND\_PVV\_2\_PS parameter is "N".

## 9.49 SKIP\_TRANSIT\_AUTH\_SEARCH

The global parameter SKIP\_TRANSIT\_AUTH\_SEARCH with the "Y" value allows searches for transit authorizations to be switched off if they are not used in the system.

A list of channel codes separated by commas can be specified as the parameter's value. For financial documents received on these channels, no search will be made for a transit authorization.

The "N" value is used by default (by default, a search is made).

When the value is "N", no search is made when processing and accepting a financial document if the financial document was generated in WAY4 (if WAY4 online acquiring is used) and the transaction was made with an On-Us card.

## 9.50 STMT\_SERV\_CLASSES

The global parameter STMT\_SERV\_CLASSES specifies operations included in a statement.

Parameter values are transaction types (Service Class) separated by commas or without separation.

## 9.51 STMT\_SHOW\_NOT\_AM\_AV

The global parameter STMT\_SHOW\_NOT\_AM\_AV allows operations on contract accounts whose balance is not considered when calculating the amount available on the contract (Is Am Av = "No") to be hidden in a mini-statement. To use this function, the value of the STMT\_SHOW\_NOT\_AM\_AV parameter must be set to "No".

The default value is "Yes". When this value is set, the mini-statement will show operations on all accounts of the contract.

## 9.52 SUSP\_VISA\_TERM\_TYPE\_LST

The global parameter SUSP\_VISA\_TERM\_TYPE\_LST makes it possible to not accept reversals sent from suspicious VISA terminal types. To do so, set a comma-delimited list of such terminal types as the SUSP\_VISA\_TERM\_TYPE\_LST parameter value. For the list of possible values, see field 60.1 in the VISA specification.

Default value: "7" ("Telephone device (including Visa dial terminals)").

To disable this mode, specify "NONE" as the value of the global parameter.

## 9.53 TD\_CHECK\_ATN

When the TD\_CHECK\_ATN parameter has a "Y" value (the default value), an ATN (Authentic Tracking Number) check will be performed for 3D Secure transactions. The parameter must be set to "N" to turn off this function.

## 9.54 USAGE\_LIMITER\_FOR\_DUPLICATE

When a card is reissued and a new card contract is created (that is, a contract with a new number), by default, a usage limiter is moved from the old contract to a new one when the new contract is created (and counters in the old contract will be reset).

The global parameter USAGE\_LIMITER\_FOR\_DUPLICATE with the MOVE\_WHEN\_ACTIVATE value makes it possible to move a limiter to a new contract when it is activated (when the new plastic is unlocked), and not when it is created.

If this setting must not be used for all limiters, the global parameter is not used. In this case, the tag FOR\_DUPLICATE=MOVE\_WHEN\_ACTIVATE; should be used in the templates of those limiters that will be moved to the new contract when it is activated. The tag is set in a limiter's *Spc parms* field, see the section "Tags in a usage limiter's *Spc parms* field" of the document "Setup Tags".



If not all contracts are explicitly activated (unblocked) (for example, when a contract is created already in an active status), limiters for these contracts will not be moved when the value of the USAGE\_LIMITER\_FOR\_DUPLICATE parameter is MOVE\_WHEN\_ACTIVATE.

## 9.55 USAGE\_LIMITER\_LOG\_STATE

When the value of the global parameter USAGE\_LIMITER\_LOG\_STATE is "Y", the state of usage limiters when processing documents can be logged.

Limiter parameters, the current values of limiter counters (values of the Max Number, Max Amount, Current Number, Current Amount fields) and, if using cells, the "cell" state (Locked Amount, Locked Number, Res Amount, Res Number) are written to the corresponding fields of the USAGE\_HISTORY table at the time a document is processed. By default, the value of the global parameter is not set – limiter state is not logged.

The global parameter USAGE\_LIMITER\_LOG\_STATE can be redefined on the level of a particular limiter using the LOG\_STATE tag ("Y" and "N" values are possible) in the *Spc parms* field of the limiter template.

## 9.56 USG\_THRESHOLD\_CALC\_DELAY

The global parameter USG\_THRESHOLD\_CALC\_DELAY with the "Y" value allows average threshold values of a limiter to be calculated and activated after the end of a number of cycles set in the limiter's # Cycles field (the number of cycles to be averaged). Before this, fixed threshold values specified in the limiter template are effective (the fields *Max #*, *Max Amnt* and *Max Sngl Amnt*).

When the value is "N" (default value), the earlier scheme is kept – average values are calculated and activated beginning with the second cycle the limiter is effective (from the second cycle determined by the limiter parameters *Period Type* and *Period*).

The value of this global parameter can be redefined using the THRESHOLD\_CALC\_DELAY ("Y" and "N" values) in the *Spc parms* field of the limiter template.

## 9.57 WAIVED\_PD\_MODE

The global parameter WAIVED\_PD\_MODE is used when reclassifying delinquency (see the section "Reclassifying Delinquency" of the document "WAY4™ Advanced Tariff Management"). By default (if

the global parameter is not set), delinquency is reclassified if the delinquency account's balance is less than the amount set in the corresponding tariff.

If "<=" is set for the global parameter, delinquency will be reclassified if the delinquency account balance is less than or equal to the amount specified in the tariff.

The WAIVED\_PD\_MODE=<; tag can be used to set this condition for a specific financial institution.

## 9.58 ZERO\_CARD\_SEQV\_NUMBER\_ALLOWED

The global parameter ZERO\_CARD\_SEQV\_NUMBER\_ALLOWED specifies the order for searching for plastic when an authorization request is received:

- If the value is "Y", when the SEQV\_NUMBER parameter with a "0" value is received in a request, a search for plastic with the set number will be made. If there is no plastic with the number "0", another record will not be selected.
- If the value is "N" (default value), the standard mode of operation is maintained – when the SEQV\_NUMBER parameter with a "0" value is received in a request, a search under the contract is made for plastic with a number differing from "0".

# 10 Mobile Banking

## 10.1 SMS\_ADDR\_TYPE

SMS\_ADDR\_TYPE – A parameter used in providing services requested by SMS from a client's mobile phone. Such services can include balance inquiries by account, mini-statements, blocking cards, etc.

When processing incoming requests if the full number of the card is not indicated (only its last digits) a procedure is executed to find out the card's full number according to the sent digits and the sender's telephone number.

The parameter value is the address type code registered in the ADDRESS\_TYPE table in the database.

When fulfilling the request, the system checks that the phone number from which the request was received is shown in the *Address\_ZIP* field of one of the records in the CLIENT\_ADDRESS table, and the *Type* field of this record contains the same value as that of the SMS\_ADDR\_TYPE parameter.

# 11 Advanced Applications Module

## 11.1 APP\_RESET\_USAGE

This parameter determines how the parameters of a contract's Usage Limiters inherited from the Service Package are changed. If the value of this global parameter is "Y", when an application for changing the parameters of the limiter is processed, first parameter values set in the Service Package are restored and then parameter values are changed in accordance with the application.

If the value of this global parameter is "N" (default), when an application for changing the parameters of the limiter is processed, only the parameter values indicated in the application are changed.

The parameter is used for the Advanced Application R1 and R2 modules.

## 11.2 APPL\_ALLOW\_CHANGE\_NUMBER

APPL\_ALLOW\_CHANGE\_NUMBER – If this parameter is set to "N" (the default value), the system writes a record of the "Warning" type to the process log when processing an application to change a contract number. If the parameter is set to "Y", no record is written to the process log.

The parameter is used for the Advanced Applications R1 module.

## 11.3 APPL\_ALLOW\_NOT\_READY

APPL\_ALLOW\_NOT\_READY – the parameter is used for applications imported to WAY4 by the "XML Applications Import" pipe.

If the value of APPL\_ALLOW\_NOT\_READY is "Y", when approving applications, the status of Products, Account Schemes and Service Packages will not be checked. When accepting applications, a check will be made regardless of this parameter's value.

The parameter's default value is "N".

The parameter is used for the Advanced Applications R2 module.

## 11.4 APPL\_CHECK\_EVNT

The "Y" value of this parameter turns on application import mode, in which messages about errors occurring during event processing are generated as well as messages about errors occurring during application processing (error messages are recorded in a response file and are displayed on the screen). This functionality is only useful for events processed simultaneously.

The parameter is used for the Advanced Application R1 and R2 modules.

When the "N" value is set (the default value), event processing errors are ignored.

The default value for the Advanced Applications R1 module is "N", the default value for Advanced Applications R2 is "Y".

## 11.5 APPL\_CHECK\_UNIQUE\_OBJECT

If this parameter is set to "Y" (default value), the imported application is checked for uniqueness. Otherwise (when the parameter's value is "N"), the uniqueness will not be checked.



In the current version of Way4, a check for uniqueness of applications to add a new record (the application's *Action Type* field specifies "Add") is made with the following object types (*Object Type*): "Client", "Contract", "Officer", "OfficerGroup", "ClientAuthMethod", "ContractAuthMethod", "Preferred", "PaymentReceiver", "ClientAddress", "ContractAddress", and "ContractCounterparty".

The parameter is used for the Advanced Applications R2 module.

## 11.6 APPL\_CLIENT\_ID\_TYPE

APPL\_CLIENT\_ID\_TYPE – A parameter used to specify the criterion according to which a client record search is performed when working with applications entered directly from forms for working with database objects (clients, contracts, addresses).

If the parameter is set to "C", a search is made by client number; if it is set to "R" (the default value), by client registration number (Registration #).

The parameter is used for the Advanced Applications R1 module.

## 11.7 APPL\_DEFAULT\_ORDER

APPL\_DEFAULT\_ORDER – Parameter used to specify a bank department that has accepted a client application (Order Department) for all registered applications. The parameter value is the value of the CODE field in the BRANCH table. This parameter is used when entering applications directly from forms for working with database objects (clients, contracts, addresses).

The default parameter value is "0101".

This parameter value can be redefined in the settings of the menu item used to open the required form for working with a database object.

The parameter is used for the Advanced Applications R1 module.

## 11.8 APPL\_DEFERRED\_APPROVE

This parameter determines how the contract Approval operation is performed when the tree of applications is processed.

If the value of this parameter is "Y" (default), the contract to which the higher-ranked application refers to is approved after the processing of the last application in the hierarchy.

If the value of this parameter is "N", the contract is approved after the processing of every application in the tree that changes the properties of the contract.

The parameter is used for the Advanced Application R1 and R2 modules.

## 11.9 APPL\_EMPTY\_DPRT

If the value of this global parameter is "Y", the processing of applications with an empty *Order Department* field in the parent application is permitted.

If the parameter value is "N" (default), the processing of applications with an empty *Order Department* field in the parent application is prohibited.

This parameter can be redefined in a financial institution by adding the tag of the same name in the *Special Parms* field of the form with additional information about the financial institution (Full → Configuration Setup → Main Tables → Financial Institutions → [Details]).



Note that for applications to change a financial institution of the client or contract, the "APPL\_EMPTY\_DPRT" parameter must have the same values for a new and previous institutions.

The parameter is used for the Advanced Application R1 and R2 modules.

## 11.10 APPL\_FORM\_WF\_STAGE

This parameter is used to redefine the workflow of a manually entered application.

The parameter value is the code of the application workflow type (WF\_STAGE).

The default value is NULL.

The parameter is used for the Advanced Applications R1 module.

## 11.11 APPL\_FRM\_ACCEPT\_STAGE

This parameter is used for simultaneous processing of manually entered applications. The parameter determines the workflow stage at which such applications are accepted to enter changes in the DB.

The default value is "ACCEPT".

The parameter is used for the Advanced Applications R1 module.

## 11.12 APPL\_FULL\_WF

This parameter is used to enable the full Case Management mode for applications. This mode includes:

- Automatic determination of a case owner in case workflow according to Case Management settings.
- Saving calculated values of case parameters used when configuring rules.

The parameter's default value is "N".

The parameter is used for the Advanced Applications R2 module.

## 11.13 APPL\_IGNORE\_REG\_TYPE

The Advanced Applications module allows clients to be searched in the database by client registration number (Reg Number) without taking the registration number type (RegNumber Type) into account.

To activate this function, set the APPL\_IGNORE\_REG\_TYPE global parameter to "Y" (the default value is "N"). This function allows the processing of applications to change both client registration numbers and client registration number types.

The parameter is used for the Advanced Application R1 and R2 modules.

## 11.14 APPL\_NEW\_CARD\_IN\_RESPONSE

This parameter determines whether information about a new unique card number (PAN) will be contained in the response file generated by the "XML Applications Overall Response" and "XML Applications Response" pipes when applications are processed to reissue cards with a change in the card contract number.

When the value of this global parameter is "Y", when an application is processed, the response file will contain information about the new contract created as the result of the application, and about the new PAN.

If the value of this global parameter is "N" (default), when an application is processed, information about the old contract and old PAN will be included in the response file.

## 11.15 APPL\_NON\_SAFE\_ON\_SECONDARY

This parameter determines how applications will be posted in an HA secondary node in "no workflow" mode.

When the value of this parameter is "APPROVE" (default value), instead of being accepted, an application is approved. After synchronization in the primary node, the application will have the "Waiting" status and can be accepted.

When the value of this parameter is "DECLINE", applications will be declined (Posting Status = Declined).

The parameter is used for the Advanced Applications R2 module.

## 11.16 APPL\_OFFICER\_DEFAULT\_PASSWORD

The parameter contains the default password value for new users created with Advanced Applications R2 module applications (with new user identifiers not yet existing in the database).

If this global parameter is not set, the default password for new users will be "\*\*\*\*\*" (6 asterisks).

For information about adding new users, see the section "Applications to Work with User Records" of the document "Applications for Administering WAY4™ Users (Advanced Applications R2 Module)".

## 11.17 APPL\_ORDER\_INDIVIDUAL

This parameter allows personal payment orders to be created (or the parameters of personal payment orders to be changed) using applications. To turn on this function, the APPL\_ORDER\_INDIVIDUAL parameter value must be set to "Y".

If the parameter value is set to "R", several personal payment orders with different codes can be generated according to the template payment order. If the payment order code is not set, the code is generated automatically.

The parameter's default value is "N".

The parameter is used for the Advanced Application R1 and R2 modules.

## 11.18 APPL\_RESET\_CARD\_EXPIRE

APPL\_RESET\_CARD\_EXPIRE is a parameter that determines the way the Expiry Date of a card is set in a contract created as the result of an application's processing.

If the value of this parameter is "Y", the Expiry Date is set from the application. In addition, the value of the APPL\_OLD\_CARD\_PROD parameter must be set to "Y".

If its value is "N" (default), the Expiry Date is automatically set by the system.

The parameter is used for the Advanced Applications R1 module.

## 11.19 APPL\_SPLIT\_RESPONSE

APPL\_SPLIT\_RESPONSE is a parameter determining whether a deferred response file is generated for stand-alone applications split from higher-ranking application.

If the value of this parameter is "Y", a deferred response file is generated after all the applications split from higher-ranking applications have been processed. In this case, the file contains the results of processing the split applications.

If the value of this parameter is "N" (default), a deferred response file is generated without accounting for split applications.

The parameter is used for the Advanced Applications R1 module.

## 11.20 APPL\_UNIQ\_REG\_NUMBER

If the value of this parameter is "Y" (the default value), when the uniqueness of an application registration number is checked, applications of all levels are checked (main and subordinate applications). When this parameter has an "N" value, only higher-level applications are checked.

The parameter is used for the Advanced Applications R1 module.

## 11.21 APPL\_USE\_DFLT\_CBS\_MEMBID

To search for a contract according to the value of the *RBS Number* field, with an empty value in the *RBS Member ID* field, the Advanced Applications module uses the APPL\_USE\_DFLT\_CBS\_MEMBID parameter. Set the parameter value to "Y" to use the value of the *Branch Code* field of the financial institution record as the value of the *RBS Member ID* field. This makes it possible to search for the required contract when there are contracts with the same number (same value in the *RBS Number* field) in different financial institutions.

When the APPL\_USE\_DFLT\_CBS\_MEMBID parameter is enabled, the *RBS Member ID* field of the contract record must be filled in.

The default parameter value is "N".

The parameter is used for the Advanced Application R1 and R2 modules.

## 11.22 CHECK\_OPEN\_APPL\_CASE

The global parameter is used to configure how contracts are closed, depending on whether there are application cases for the contract. The global parameter is analysed if an Event with the CLOSE\_IF\_EMPTY=OPEN\_CASE\_LIST; tag is processed when an attempt is made to close the contract.

If the value of the global parameter CHECK\_OPEN\_APPL\_CASE is "Y", when closing a contract, open application cases for this contract will be analysed. If there are open cases, the contract will be closed only after the cases have been closed.

When the value is "N" (default value), the existence of open application cases for this contract is not checked when closing a contract.

## 11.23 CROSS\_INST\_CLIENT

CROSS\_INST\_CLIENT – a parameter defining how the system searches for a client record in the WAY4 database when processing applications.

Parameter values:

- "Y" – client records are searched in all financial institutions.
- "N" – client records are searched only in the financial institution referred to in the application; this is the default value.

The parameter is used for the Advanced Application R1 and R2 modules.

## 11.24 DEFAULT\_WF\_STAGE

DEFAULT\_WF\_STAGE – parameter used at the application loading stage.

The parameter value is the code of the workflow stage type (WF\_STAGE) set for the application in the event that an error occurs at the loading stage.

The default value is NULL.

The parameter is used for the Advanced Applications R1 module.

## 11.25 FILL\_APPL\_PRODUCT

FILL\_APPL\_PRODUCT is a parameter that determines the content of the *Product* field of the application form for applications loaded from files.

If the value of this parameter is "Y", the name of the Product corresponding to the application, will be entered in the *Product* field of the application form.

If the value of this parameter is "N" (default), the *Product* field of the application form will remain empty for the applications loaded from a file.

The parameter is used for the Advanced Applications R1 module.

## 11.26 PS\_ADDRESS\_TYPE

This parameter is used to show the type of address for which device parameters will be specified.

The default value is "OWS PS".

The parameter is used for the Advanced Application R1 and R2 modules.

## 11.27 USE\_NOT\_READY

USE\_NOT\_READY – A parameter defining whether an application associated with objects (client records, contracts, etc.) that have the status "Not Ready" may be processed.

- "Y" – it is permitted to execute operations with objects having the "Not Ready" status as a result of application processing.
- "N" – it is forbidden to execute operations with objects having the "Not Ready" status; when processing applications for these objects the system will generate an error message; this is the default value.

The parameter is used for the Advanced Applications R1 module.

# 12 Interchange

## 12.1 COMPANY\_ADDRESS\_TYPE

The global parameters MERCHANT\_ADDRESS\_TYPE and COMPANY\_ADDRESS\_TYPE are used to create address tags in the NMAS\_DOC table when exporting merchant data to the payment system. These parameters contain the address code from the ADDRESS\_TYPE table; for example, for the address type "Address for Payment Scheme", the code is "OWS PS".

## 12.2 CONVERT\_ACQ\_BIN

The parameter CONVERT\_ACQ\_BIN is set in a list of additional parameters as the value of the global parameter ADDITIONAL\_PARMS and specifies the need to redefine field N 32 (Acquiring Institution ID) of an ISO message that was received. If the message's source channel is indicated as on us or affiliated (an *Is On Us* field value other than "No"; "Full → Configuration Setup → Main Tables → Message Channels"), the value of field N 32 will be the value of the *Our Bin* field in the "Interchange Routing Contracts" form (Full → Configuration Setup → Routing → Interchange Routing Contracts).

The parameter value (in ascending order of priority) for a financial institution can be redefined using a tag with the same name or directly in routing settings (the *Custom Rules* field of the "Interchange Routing Contracts" form). In the former case, the tag CONVERT\_ACQ\_BIN is specified with either "Y" or "N", in the latter – with no value.

The value of an ISO message's field N 32 can be redefined another way: using the global parameter CONVERT\_ACQ\_BIN\_CH. The value of the parameter CONVERT\_ACQ\_BIN\_CH has a higher priority than the value of the parameter CONVERT\_ACQ\_BIN.

## 12.3 CONVERT\_ACQ\_BIN\_CH

The global parameter CONVERT\_ACQ\_BIN\_CH specifies the need to redefine field N 32 (Acquiring Institution ID) of an ISO message that was received. The parameter's value is a list of channel codes (separated by commas) for which the field value will be replaced

If the message's source channel is indicated as on us or affiliated (an *Is On Us* field value other than "No"; "Full → Configuration Setup → Main Tables → Message Channels"), for the channels specified in the global parameter, the value of field N 32 will be the value of the *Our Member ID* field from the "Interchange Routing Contracts" form (Full → Configuration Setup → Routing → Interchange Routing Contracts).

The parameter value (in ascending order of priority) for a financial institution can be redefined using a tag with the same name or directly in routing settings (the *Custom Rules* field of the "Interchange Routing Contracts" form). In the latter case, the tag CONVERT\_ACQ\_BIN\_CH tag has no value.

If the parameter is not set, field N 32 is redefined according to the value of the global parameter CONVERT\_ACQ\_BIN.

## 12.4 DEFAULT\_MEMBER\_FOR\_CHANNEL\_<Channel>

The global parameter DEFAULT\_MEMBER\_FOR\_CHANNEL\_<Channel> is used to determine the default Member ID code used when no Member ID is found during routing. The parameter value is set in the following format: DEFAULT\_MEMBER\_FOR\_CHANNEL\_<Channel>=<Default Member Id>. The default code must be specified in the BIN table (Full → Configuration Setup → Routing → BIN Groups → [BIN Table]).

## 12.5 FINANCIAL\_REJECTS

The global parameter FINANCIAL\_REJECTS is used to support recording of financial documents rejected by payment systems:

- If this parameter has a value of "Y", the financial mode of processing rejects for all payment systems is turned on. For more information, see the section "Working with Financial Documents Rejected by a Payment System" of the document "Documents".
- The default value of the parameter is "N". When this value is set, the financial mode of processing is turned off and non-financial recording of rejects is supported.



In the mode for non-financial recording of reversals (when the value of the FINANCIAL\_REJECTS parameter is "N") fund activity in accounts will not take place when rejected documents are posted.

## 12.6 IC\_ACCEPT\_NON\_EL\_FOR\_CHNL

The global parameter IC\_ACCEPT\_NON\_EL\_FOR\_CHNL allows "non-electronic" transactions to be made using electronic cards on certain channels. The parameter value is the codes of channels for which such transactions are permitted, separated by commas:

IC\_ACCEPT\_NON\_EL\_FOR\_CHNL=<Ch1>,<Ch2>,...,<ChN>.

This parameter is applied in interacting with the Mastercard payment system.

## 12.7 IPS\_CUT\_OFF\_TIME\_GMT\_E

IPS\_CUT\_OFF\_TIME\_GMT\_E – time (GMT) before which transaction messages must be exported to Mastercard; parameter format – <HHMM>, default value – "1400" (corresponds to 08:00 by St. Louis time when the sixth clearing cycle of MC is completed). If the member chose a non-standard

configuration of clearing cycles, the parameter must be set a value that corresponds to the time when the last clearing cycle for the clearing date is completed. This parameter is used together with the IPS\_DELIVER\_TIME\_E parameter.

The parameters are used as follows:

- Before starting to process transaction documents, a value of the Current Time by GMT is totalled with the IPS\_DELIVER\_TIME\_E parameter's value.
- Then, the following condition is checked:

Current Time+IPS\_DELIVER\_TIME\_E<=IPS\_CUT\_OFF\_TIME\_GMT\_E

If the condition is not met, this means that export of transaction messages may be completed after the time set by the IPS\_CUT\_OFF\_TIME\_GMT\_E parameter. In this case, when calculating IRD (Interchange Rate Designator) according to payment system criteria without consideration of the FX rate, the "Timeliness" parameter's value is increased by one (one day is added) and IRD is calculated considering a new value of the "Timeliness" parameter.

## 12.8 IPS\_DELIVER\_TIME\_E

The global parameter IPS\_DELIVER\_TIME\_E specifies an interval (in hours) from the start of document posting to the end of transaction message export to Mastercard; the default value is "0". This parameter is used with the global parameter IPS\_CUT\_OFF\_TIME\_GMT\_E.

These parameters are used as follows:

- Before starting to post transaction documents, the GMT current time is added to the value of the IPS\_DELIVER\_TIME\_E parameter.
- Then, the following condition is checked:

Current Time+IPS\_DELIVER\_TIME\_E<=IPS\_CUT\_OFF\_TIME\_GMT\_E

If this condition is not met, it means that export of transaction messages can finish after the end time that is set by the IPS\_CUT\_OFF\_TIME\_GMT\_E parameter. In this case:

1. When calculating IRD (Interchange Rate Designator) according to the payment system's criteria without consideration of the FX rate, the "Timeliness" parameter's value increases by one (one day is added) and IRD is calculated considering the new value of the "Timeliness" parameter.
2. When calculating IRD with consideration of the FX rate, transaction document posting is delayed until this condition is met due to possible absence of up-to-date values for the FX rate.
3. When calculating an interchange fee amount for each transaction (Fee Prediction), transaction document posting is delayed until this condition is met due to possible incorrect prediction of the interchange fee.

## 12.9 MC\_CALC\_IRD

This parameter's "Y" value enables IRD calculation.

The default value is "N".

## 12.10 MC\_CALC\_IRD\_CHECK\_RATES\_UTD

The parameter makes it possible to enable a check for Mastercard up-to-date FX rates when calculating IRD. The default value is "N", the check is not made, WAY4 uses the last FX rate that was imported.

## 12.11 MC\_CALC\_IRD\_FOR\_ONUS

If Interchange fees must be calculated for transactions that are processed in WAY4 between payment system members (issuer and acquirer) registered in the same instance of WAY4 (On-Us transactions) and for transactions between a sponsor (acquirer) and affiliate (issuer), use the global parameter MC\_CALC\_IRD\_FOR\_ONUS.

Parameter values:

- "Y" – calculation for On-Us transactions.
- "A" – calculation for transactions with affiliates.
- "B" – calculation for On-Us transactions and for transactions with affiliates.

## 12.12 MC\_CPI\_GROUPS

This parameter is used by the pipe for loading BIN tables (com.openwaygroup.pipe.mc.mpe\_import.jar) run using the menu items "OpenWay → MasterCard → MC. Daily Procedures → MC. Load Bin Table and Handbooks → MC MPE Daily Files Import" and "OpenWay → MasterCard → MC. Daily Procedures → MC. Load Bin Table and Handbooks → MC MPE Daily Files Import with Conversion".

The parameter is used to separate BIN table records into BIN groups.



It is mandatory to set a value for the parameter; otherwise, an error message will be generated when loading the BIN table.

The recommended value is "M=CIR,MSI".

## 12.13 MCC\_LCC

The global parameter MC\_LCC is used to determine the location of the Local Clearing Center (LCC). The parameter value is the code of the country in which the LCC is located.

## 12.14 MC\_MPE\_IRD\_CRITERIA

The global parameter MC\_MPE\_IRD\_CRITERIA contains country code values for countries in which the bank provides acquiring services. This parameter must be set if the bank imports the IRD configuration from Mastercard MPE files.

## 12.15 MC\_NO\_IRD\_ERR

If the value of the MC\_NO\_IRD\_ERR parameter is "Y" (default value), a document for which IRD cannot be calculated when posting is declined and gets the "Decline" status. This situation may occur, for example, due to errors in settings for calculating IRD. The "Decline" status means that the document cannot be exported to the payment system without reposting. If the parameter value is "N", when IRD cannot be calculated, the document can be posted and a corresponding warning will be generated. The required IRD value can be added manually to this document, after which the document can be exported to the payment system.



If the bank uses calculation of Interchange fees (fee prediction), the "N" value of the parameter should not be used since an Interchange fee will not be calculated for documents for which it was not possible to calculate IRD.

## 12.16 MC\_PRC\_TA

The MC\_PRC\_TA parameter with the "Y" value (default value) makes it possible to calculate values for a number of IPM format transaction message fields (for example, DE22) using a special procedure before clearing data are exported. When the value is "N", these fields are filled in immediately before exporting data using the IPM Outward Processing.dll" and "IPM Inward Processing.dll pipes.

## 12.17 MERCHANT ADDRESS TYPE

For a description of this parameter, see the description of the [COMPANY\\_ADDRESS\\_TYPE](#) parameter.

## 12.18 MERCH\_PARMS\_PS\_CHECK\_FOR

The system checks for the Merchant Address and Postal Code during approval of an acquiring module contract. This check can be performed with consideration for the requirements of the corresponding payment system. To do so, the global parameter MERCH\_PARMS\_PS\_CHECK\_FOR is used, the values of which are separated by commas (for example, VISA, MASTERCARD). The name of the payment system in the parameter value means that the system will check contract parameters with

consideration for this payment system's requirements. The absence of a parameter or its empty value means a check will be made according to the requirements of all payment systems.

In the current version of the system, this parameter only works with the Mastercard payment system.

## 12.19 ROUTE\_BY\_FORWARDING\_MEMBER\_FOR\_CHANNELS

To comply with the requirements of the section "Global 558—Customer Identification for Bridged Transactions" of the Mastercard document "Release 14.Q4 Document" the value of the global parameter ROUTE\_BY\_FORWARDING\_MEMBER\_FOR\_CHANNELS must be set to "E".

If the parameter's value is "E", routing will be performed according to the transaction message field DE 33 value (Forwarding Institution ID Code) saved by the pipe in the original\_doc.source\_member\_id field.

If the parameter is not set, Mastercard transactions are routed according to the transaction message field DE 94 value (Transaction Originator Institution ID Code), that after import is saved to the doc.source\_member\_id field by the IPM Inward Processing pipe

## 12.20 SAFE\_CHAIN\_CHECK

The SAFE\_CHAIN\_CHECK parameter is used when working with SAFE/FRS documents. When the value of this parameter is set to "Y", a check is performed of the chain of documents of any type ("Add", "Change", "Delete", "Confirm", "Reactivate") related to one financial document. When the parameter value is "N" (the default value), no check is performed.

## 12.21 SAFE\_FDN\_SEPARATE\_DAY

The SAFE\_FDN\_SEPARATE\_DAY parameter specifies a day of a month and is used as a threshold value during generation of fraud negative reports.

Parameter values are integers from "0" to "31". The default value is "0".

The parameter is used as follows.

If a report is generated on a banking date that precedes the day of the month specified by the parameter, the system will check whether there are SAFE documents for the previous calendar month, otherwise, for the current one.

For example, if the value of SAFE\_FDN\_SEPARATE\_DAY is set to "10" and a user attempts to generate a report on the 9th day of a month, the system will check that there were no SAFE documents for the previous calendar month. If a user attempts to generate a report on the 11th day of a month, the system will check that there were no SAFE documents from the 1st to the 11th day of the current calendar month. If there were no SAFE documents for the checked period, the report will be successfully generated.

## 12.22 SAFE\_ONUS\_PERMIT

SAFE\_ONUS\_PERMIT – If this parameter is set to "Y", a SAFE document based on On-Us transactions can be generated. When generating a SAFE document of this type, the Members ID field value will be determined according to Interchange routing tables (BIN Table, Interchange Routing), and an ARN will be generated.

## 12.23 SL\_NETSERVER\_ADDRESS

This parameter is used to indicate the NetServer address to which requests are sent for placing in stop lists.

If the value of this parameter is not specified, the system uses the value of the INTERNET\_SERVER tag set in the user menu item that starts the procedure for sending this information to the corresponding payment system.

## 12.24 SL\_NETSERVER\_TIME\_OUT

This parameter is used to set the period within which a response to the request for placing in stop lists must be received from NetServer. The parameter value is indicated in seconds.

If no value is specified for this parameter, the system uses the value of the TIMEOUT tag set in the user menu item that starts the procedure for sending the given information to the corresponding payment system.

## 12.25 STOPLIST\_ADD\_CHANNELS

The global parameter STOPLIST\_ADD\_CHANNELS is used to set additional channels for sending requests for placing in stop lists (the main channels are international payment system channels; additional channels are Host-to-Host channels).

The parameter value is set in the following format:

STOPLIST\_ADD\_CHANNELS=CHANNEL\_<WAY4MessageChannel>=<NetServerChannel>;

## 12.26 USE\_ADD\_ROUTE\_CHECK

The global parameter USE\_ADD\_ROUTE\_CHECK is used for an additional validity check of a card's routing for the VISA channel according to Combined Routing Table data. The parameter must have a value of "Y" for the check to be performed.

When the parameter value is "N" (the default value), no check is performed.

## 12.27 VISA\_CALC\_RA

The global parameter VISA\_CALC\_RA makes it possible to activate RA (Reimbursement Attribute) calculation. The default value is "N".

## 12.28 VISA\_CALC\_RA\_FOR\_ONUS

If Interchange fees must be calculated for transactions that are processed in WAY4 between payment system members (issuer and acquirer) registered in the same instance of WAY4 (On-Us transactions) and for transactions between a sponsor (acquirer) and affiliate (issuer), use the global parameter VISA\_CALC\_IRD\_FOR\_ONUS.

Parameter values:

- "Y" – calculation for On-Us transactions.
- "A" – calculation for transactions with affiliates.
- "B" – calculation for On-Us transactions and for transactions with affiliates.

## 12.29 VISA\_NO\_RA\_ERR

If the VISA\_NO\_RA\_ERR parameter value is "Y" (default value), a document for which RA (Reimbursement Attribute) cannot be calculated when posting is declined and gets the "Decline" status. This situation may occur, for example, due to errors in settings for calculating RA. The "Decline" status means that the document cannot be exported to the payment system without reposting. If the parameter value is "N", when RA cannot be calculated, the document can be posted, and a corresponding warning will be generated. The required RA value can be added manually to this document, after which the document can be exported to the payment system.



If the bank uses calculation of Interchange fees (fee prediction), the "N" value of the parameter should not be used since an Interchange fee will not be calculated for documents for which it was not possible to calculate RA.

# 13 "High Availability" Module

## 13.1 CDU\_CHECK\_FILTER

The parameter defines the filter for distributing contracts being processed between nodes. The parameter is used in the "Distributed Processing" solution for distributed execution of the "Contracts – Daily Update" (CDU) procedure.

It is recommended to use a filter for the ROUTING\_IDT field of the ACNT\_CONTRACT table according to which partitioning is performed, for example:

```
routing_idt in ('c0_1') or routing_idt is null
```

Specify the necessary node in the *System Instance* field.

By default, the parameter is not set.

## 13.2 CHECK\_QUE\_EVENT\_ON\_SECONDARY

The parameter makes it possible to check Events in a secondary node for their reproduction in a primary node:

- "Y" – check Events. The "SAFE" tag must be specified in the *Special Parameters* field, otherwise an error message will be generated.
- "N" – do not check.

The parameter's default value is "Y".

## 13.3 CONFIG\_EXPIRE\_SEC

The parameter defines the interval (in seconds) for updating the configuration cache in an Oracle session, including global parameters and the list of services for the high availability solution.

The default value is "600".

## 13.4 COPY\_DEBUG\_CONN

Output of additional diagnostic information for the "W4R Copy" process to PROCESS\_MESS ("Y" value). When the parameter value is changed between "N" and "Y", the process must be restarted.

The default value is "N".

Affects the "Copy" process.

## 13.5 DOC\_RECORD\_KEY\_ATTRIBUTE

Changes in data applied by the Apply process are grouped (in action groups). An action group defines rules for separating data into threads for parallel execution.

The DOC\_RECORD\_KEY\_ATTRIBUTE group determines the rule for grouping changed data in the DOC table. DOC table data can be grouped by the following attributes:

- ID
- SOURCE\_NUMBER
- TARGET\_NUMBER
- SOURCE\_CONTRACT
- MERCHANT\_ID

The value DOC\_RECORD\_KEY\_ATTRIBUTE=CUSTOM can also be used. In this case, a CUST\_GET\_DOC\_RECORD\_KEY function is used in which the user implements a custom algorithm for generating an attribute to group changed data based on the aforementioned attributes and the IS\_AUTHORIZATION attribute.

The default value of the parameter is ID.

This parameter influences generation of an action group only when synchronising changes:

- From a secondary node to the primary node (for Distributed Processing).
- From a secondary node to the primary node (for HA Cluster topology).
- From the StandIn node to the production node (for StandIn topology).

For HA Switch topology, this parameter will set the same grouping rules for replicating changes from each Online node to Back-Office as well as between both (all) Online nodes.

## 13.6 HA.DEFERRED\_APPL\_APPLY

The parameter makes it possible to process applications using a mechanism for deferred execution of tasks during the "Object Task Scheduler" process.

Possible values:

- "Y" – processing applications using a mechanism for deferred execution of tasks is enabled.
- "N" – processing applications using a mechanism for deferred execution of tasks is disabled.

The parameter's default value is "N".



If running several "Object Task Scheduler" instances is configured, the "ACCEPT\_APPL" task type must be in the same group of actions as the "APPLY\_AUTH" task type.

For a detailed description of the mechanism for deferred execution of tasks, see the document "Object Tasks Scheduler".

## 13.7 HA.DEFERRED\_APPL\_APPLY\_DELAY

The parameter determines the delay (in seconds) in posting applications after it has been received by the deferred apply process.

The default value is "0".

## 13.8 HA.DEFERRED\_DOC\_APPLY

The parameter makes it possible to defer processing authorization documents when they are moved from a secondary node to the primary node.

Possible values:

- "Y" – deferred posting of authorization documents is enabled.
- "N" – deferred posting of authorization documents is disabled.

When deferred records are moved, they are processed by a separate process (the process is started using the menu item "Full → DB Administrator Utilities → Object Tasks → Start Object Tasks Scheduler" and stopped using "Full → DB Administrator Utilities → Object Tasks → Stop Object Tasks Scheduler").

If before this process is completed, an authorization request is received for a contract from a contract tree in which there are already documents that have been moved but not processed, the respective documents are processed "jumping the queue", and then the authorization request that was received is processed.

The parameter's default value is "N".

## 13.9 HA.DEFERRED\_DOC\_APPLY\_DELAY

The parameter determines the delay (in seconds) in posting a document after it has been received by the deferred apply process.

The default value is "0".

## 13.10 IN\_FLIGHT\_PERIOD\_SECS

IN\_FLIGHT\_PERIOD\_SECS – period of time in seconds during which it is possible to continue processing In-Flight operations in the node where the Service was being processed before switching.

The default value is "10".

This global parameter can be redefined on the Service level (*In-Flight Period* field, "Services" form, menu item "Synchronising Systems → Configuration Setup → Services") (see the section "Configuring Switching of Service Processing Between Nodes" of the document "Monitoring the State of High Availability Nodes").

## 13.11 LAST\_SCAN\_MODE

The parameter determines the table used during the "Contracts – Daily Update" (CDU) procedure. The parameter is used in the "Distributed Processing" solution for distributed execution of CDU.

If the parameter is not set or its value is "T", the ACNT\_CONTRACT table is used during CDU. If the parameter is set and has a value other than "T", the ACNT\_CDU table is used in CDU.

By default, the parameter is not set.

## 13.12 MAX\_SYS\_INSTANCES

The parameter sets the maximum number of nodes in a "High Availability" solution.

The parameter is used when determining a step to synchronize sequences depending on the specific number of nodes in the SYNCH\_SYS\_INSTANCE table and on the parameter value:

- If no node is set in the SYNCH\_SYS\_INSTANCE table, the value "1" is used as a step to synchronize sequences.
- If at least one node is set in the SYNCH\_SYS\_INSTANCE table, and the MAX\_SYS\_INSTANCES parameter value is less than or equal to 10, the value "10" is used.
- If at least one node is set in the SYNCH\_SYS\_INSTANCE table, and the MAX\_SYS\_INSTANCES parameter value is less than or equal to 100, the value "100" is used.

The default value is "10".



When registering nodes (by clicking on the [Register] button) in the "System Instances" form, it is checked that the value set in the *ID suffix* field +1 is not greater than the value set in the parameter.

The parameter affects generation of various numbers in a "High Availability" solution, for example, RRN (Retrieval Reference Number) and others. The original range of numbers is split into as many parts as specified in this parameter.

## 13.13 SI\_APPLY\_ERROR\_DELAY

The parameter sets the delay (in seconds) between attempts to apply changed data. The delay between subsequent attempts will be calculated as the product of this parameter by 2 to the power (the number of the last unsuccessful attempt is 1).

The parameter's default value is "5".

Affects the "Apply" process.

## 13.14 SI\_APPLY\_FETCH\_SIZE

The parameter sets the number of records simultaneously sent from the SI\_LOG\_SRC table from the source through database link.

The parameter's default value is "1000".

Affects the "Apply" process.

## 13.15 SI\_APPLY\_MAX\_ATTEMPTS

The parameter sets the maximum number of attempts to apply changed data.

The parameter's default value is "10".

Affects the "Apply" process.

## 13.16 SI\_APPLY\_MAX\_SIZE

The parameter sets the maximum number of records accepted from the SI\_LOG\_DST table.

The parameter's default value is "1000".

Affects the "Apply" process.

## 13.17 SI\_APPLY\_REPEAT\_INTERVAL

Pause (in seconds) between attempts to apply changes, if all changes have already been applied. If there are still unapplied changes, the process runs without any pause.

Increasing this parameter reduces system load volume but increases latency. Therefore, a value of more than 3 seconds is not recommended.

The parameter's default value is "1".

Affects the "Apply" process.

## 13.18 SI\_APPLY\_VIEW\_CHANGES\_PERIOD

The parameter sets the period (in days) for which rejected changes or changes that have not yet been applied in the destination node are shown in DB Replication Console. Used to enhance performance of heavy queries for the SI\_LOG\_DST table.

The parameter's default value is "5".

Affects the "Apply" process.

## 13.19 SI\_COPY\_DELAY

The parameter determines the delay (in seconds) between the time a record of changed data is created in the source node and the time data copying to the destination node is started.

The parameter's default value is "1".

Affects the "Copy" process.

## 13.20 SI\_COPY\_KEEP\_CONN\_INTERVAL

The time interval (in seconds) between W4R Copy process polls of "sleeping" sessions (i.e. those for which LAST\_NOT\_EMPTY\_DT of the SI\_CONN\_DST table is more than 5 minutes ago).

The default value is "300".

Affects the "Copy" process.

## 13.21 SI\_COPY\_MAX\_SIZE

The parameter sets the maximum number of records simultaneously copies from the SI\_LOG\_SRC table in the source node to the SI\_LOG\_DST table in the destination node.

The parameter's default value is "100000".

Affects the "Copy" process.

## 13.22 SI\_COPY\_REPEAT\_INTERVAL

Pause (in seconds) between attempts to copy records from SI\_CONN\_SRC, if all data have already been copied to SI\_CONN\_DST. If there are still data that have not been copied, the process runs without any pause.

Increasing this parameter reduces system load volume but increases latency. Therefore, a value of more than 3 seconds is not recommended.

The parameter's default value is "1".

Affects the "Copy" process.

## 13.23 SI\_LOG\_PROC\_INTERVAL

The parameter sets the interval (in seconds) to log "Copy" and "Apply" results into the SYNCH\_PROCESS\_INSTANCE\_LOG table.

The parameter's default value is "3".

Affects the "Copy" and "Apply" processes.

## 13.24 SI\_LOG\_PROC\_STAT\_INTERVAL

Interval (in seconds) to log statistic details of synch processes run details (table SYNCH\_PROCESS\_INSTANCE\_LOG). Used to calculate synch speed, latency and estimated time to complete synch.

The parameter's default value is "30".

Affects the "Copy" and "Apply" processes.

## 13.25 SI\_NODE\_RECORD\_GROUPS

This parameter sets the number of logical groups into which each table being synchronised is separated. Each group, depending on the number of apply threads can be processed by a different apply thread. For an RAC cluster, the number of groups is obtained by multiplying the value of this parameter by the number of nodes in the cluster. To reduce the probability of various groups falling into one apply thread, it is recommended to use a prime number as the parameter value. The number of groups must correspond to the number of apply threads.

The parameter's default value is "31".

Affects the "Capture" process.

## 13.26 SI\_PARALLEL\_THREADS\_NUM

The parameter sets the number of parallel threads. For "Apply" – either equal to the SI\_NODE\_RECORD\_GROUPS value or the closest prime number larger than the result of division by a small integer. For example, if the value of the SI\_NODE\_RECORD\_GROUPS parameter is "31", recommended values are "31", "17", "11", "7". For "Copy" – the closest prime number larger than the number for "Apply" divided by 4. For example, if "Apply" has "17", "Copy" will have "5".

The parameter's default value is "1".

Affects the "Copy" and "Apply" processes.

## 13.27 SW\_CHECK\_DELAY\_THRESHOLD\_SEC

The minimum time services can be inactive, in seconds, after which a delay is activated when they are polled.

The default value is "0" (a delay happens only once after a connection has been established). The recommended value is "300".

## 13.28 SW\_CHECK\_FORCED\_DELIVERY

In "Emergency" mode, the parameter manages the check that a delay in a synchronization thread from the current node to the new node of a service being switched does not exceed ten seconds. If the parameter's value is "N", no check is made.

By default, the parameter is not set (a check is made).



If the parameter's value is "N", but for some reason neither the mechanism for replicating the state of nodes and services with the Transaction Switch application (HABroadcasting) nor WAY4Replication is working, a situation is possible when services will be deactivated in the secondary node, which leads to a long failure in service. Therefore, when setting this parameter, it is necessary to monitor the operation of critical services.

## 13.29 SW\_CHECK\_MAX\_DELAY\_MS

Maximum time of the delay when polling services, in milliseconds.

The default value is "0" (no delay). The recommended value is "300". The actual delay is selected randomly from 0 to the value set in the parameter.

## 13.30 SYNCH\_REFRESH\_LATENCY\_INTERVAL

The parameter determines the minimum interval (in seconds) for refreshing data from the SYNCH\_PROC\_INSTANCE\_LOG table in each session.

The parameter's default value is "3".

The parameter can be set as an "Object Task Scheduler" process parameter (for more information, see the description of the global parameter HA.DEFERRED\_DOC\_APPLY), or as a global parameter.

## 13.31 USG\_LIM\_COUNTER\_MODE

This parameter manages the ability to synchronise update of usage limiter counters in secondary nodes when reversing transactions.

Possible values:

- "SYNC" – limiter counters are updated.
- "LAZY" or not set – counters are not updated.
- By default, the parameter is not set.

When a Deadlock related to limiter update occurs, it is necessary to set the tag "COUNTER\_MODE=LAZY;" in the *Spc Parm*s field of the limiter template.

The parameter does not apply to limiters using "cells".

# 14 Dispute Assistant Module

## 14.1 DISPUTE\_CM

This parameter defines which version of the Dispute Assistant module is used.

Parameter values:

- "N" – the Case Management platform is not used (the default value).
- "Y" – the Case Management platform is used.

## 14.2 DISPUTE\_MGMT\_LEVEL

This parameter defines which documents will be processed by the Dispute Assistant module.

Parameter values:

- "Y" (All) – all dispute documents are processed:
  - Primary document with a response code other than "0".
  - Secondary document (Chargeback, Retrieval Request).
  - Presentment Reversal or Presentment Adjustment.
  - Interbank document.
  - Document from a document chain if a dispute case was opened for the previous document.
- "F" (Foreign) – all dispute documents for transactions made using the devices or cards of other members of a payment system (non-on-us) are processed.



When the Dispute Assistant module based on the Case Management platform is used, documents for transactions made using "our" devices or "our" cards (on-us) will be also processed if this is a secondary document, reversal or adjustment for an initial presentment, Fee Collection or a document rejected by a payment system.

## 14.3 DSP\_BACKUP\_FX\_TYPE

This parameter determines the FX rate used to calculate the amount of issued presentments and expected reimbursements. It is only used when there is no payment system rate.

The parameter value is the FX Type code.

By default no additional rates are used.

## 14.4 DSP\_CASE\_CLOSE\_MODE

This parameter determines how the second phase of closing a dispute cycle is executed.

- AUTO – a dispute cycle is closed automatically (the default value).
- MANUAL – a cycle is closed manually.

## 14.5 DSP\_CASE\_CREATION\_MODE

This parameter defines how a dispute cycle is opened for documents marked with the DISPUTE\_MGMT\_LEVEL parameter.

Parameter values:

- "MANUAL" – dispute cycle is opened manually (the default value).
- "AUTO" – dispute cycle is opened automatically for the following documents:
  - By an issuer:
    - for incoming presentments if any errors are detected when processing a document, that is, there is an "Error" message in the "Messages" form (Full → Process Log → Messages)
    - for payment system's notifications on an outgoing chargeback that was created in his name.
  - By an acquirer – for chargebacks and retrieval requests that were received from the payment system via a clearing channel or an online interface (Visa RTSI – for Visa, Mastercom API – for Mastercard).
  - By an issuer and acquirer – for incoming fee collections.

## 14.6 DSP\_FILE\_EXT\_ALLOWED\_E

The global parameter DSP\_FILE\_EXT\_ALLOWED\_E defines a list of permitted file extensions that are added to a Mastercard message document when it is created. If the file extension does not satisfy restrictions that are set in the parameter, an error message will be generated when adding the file. A check of the file name extension is made to determine whether a file type corresponds to the list of file types supported by the payment system.

File extensions are separated by commas.

Default value of the parameter: "JPG,JPEG,TIF,TIFF,PDF,ZIP".

The parameter is used in the Way4 Mastercom API solution.



The Way4 Mastercom API solution is supplied according to an additional agreement with OpenWay.

## 14.7 DSP\_FILE\_EXT\_ALLOWED\_V

The global parameter DSP\_FILE\_EXT\_ALLOWED\_V defines a list of permitted file extensions that are added to a Visa message document when it is created. If the file extension does not satisfy restrictions that are set in the parameter, an error message will be generated when adding the file. A check of the file name extension is made to determine whether a file type corresponds to the list of file types supported by the payment system.

File extensions are separated by commas.

Default value of the parameter: "JPG,JPEG,TIF,TIFF,PDF".

The parameter is used in the Way4 RTSI solution.



The Way4 RTSI solution is supplied according to an additional agreement with OpenWay.

## 14.8 DSP\_RECLASSIFIED\_CBKS\_<channel code>

The DSP\_RECLASSIFIED\_CBKS\_<channel code> global parameter is used when processing duplicates of incoming dispute documents (duplicate chargeback, 2nd presentment, or 2nd chargeback). The global parameter is used if the payment system allows chargebacks to be reclassified (when in response to a 2nd presentment, a chargeback with a different reason code is sent).

When the value is "Y" (default value), the DSP\_DUPL=Y tag indicating a duplicate is not set for a duplicate dispute document. For example, a new chargeback (when the dispute cycle has a chargeback and 2nd presentment that have not been reversed) goes into the same dispute cycle and is further considered as the first chargeback for the original transaction.

When the value is "N", a 2nd chargeback with a different reason code is marked with the DSP\_DUPL=Y tag.

When the "Dispute Assistant" module is used, if a duplicate document is found (DSP\_DUPL=Y), a new dispute case is created that belongs to the same original transaction.



The "Dispute Assistant" module is not included in the basic configuration of WAY4 and requires an additional license from OpenWay.

## 14.9 DSP\_WRITEOFF\_MODE

This parameter determines how the WRITE\_OFF operation is executed when closing a dispute cycle.

Parameter values:

MANUAL – the operation is only executed manually (the default value).

AUTO – the operation is executed automatically and the next phase of closing the cycle is entered.

NONE – the bank does not use the WRITE\_OFF operation, the next phase of closing the cycle is automatically entered.

## 14.10 MC\_HOST\_REGION

This parameter allows the determination of transaction interaction borders (regions), to separate intraregional and interregional transactions. The parameter is used when interacting with the Mastercard payment system.

The value of the global parameter MC\_HOST\_REGION is the region in which the processing center is located. The default value is "D" – Europe.

## 15 Other Parameters

### 15.1 <Process Name>.NON\_STOP\_HOURS

This parameter allows configuration of the possibility to execute long processes in the Housekeeping module (more than 24 hours) without interruption.

The number of hours during which this process can be run uninterrupted is specified as the parameter's value. The default value is 24 hours.

### 15.2 <invoice\_code>\_OUT\_PARMS

The global parameter <invoice\_code>\_OUT\_PARMS is used when working with invoices in WAY4. When invoice parameters change, a search is made for the global parameter <invoice\_code>\_OUT\_PARMS whose <invoice\_code> code corresponds to the invoice code. If a global parameter with the corresponding code is found:

- If the global parameter's value is "bank\_code", a search is made for a collection with the code that corresponds to a value in the financial institution's *BankCode* field for registration of the invoice in this collection (for subsequent export). If the collection is not found, a collection with this code will be created.
- When the value of this global parameter is "branch\_code", a search is made for a collection with the code corresponding to the financial institution's *BranchCode* field for registration of the invoice in this collection (for subsequent export). If the collection is not found, a collection with this code will be created.

### 15.3 ALLOW\_TRF\_PERS

The global parameter is used in the tariff module to configure creation of personal tariffs, if a template personal domain and a standard domain are set at the same time in a Product (see the section "Personal Tariff Based on a Template Tariff" of the document WAY4 Advanced Tariff Management).

If a template personal domain and a standard domain are set in a Product, personal tariffs based on a tariff from the standard domain or based on the template domain can be created for a contract.

Creation of personal tariffs can be regulated by the ALLOW\_TRF\_PERS global parameter or the ALLOW\_TRF\_PERS tag that is set in a Product in the *Custom Data* field:

- When the value is "G" (default value) or if the parameter is not set – personal tariffs can be created based on template domain and standard domain tariffs.
- When the value is "T" – personal tariffs can only be created on the basis of template domain tariffs.



Starting from version 03.47.09.14, WAY4Cards is delivered with the "T" value predefined for the global parameter ALLOW\_TRF\_PERS. I.e. for new clients, personal tariffs are only created on the basis of template tariff domains. To change the behavior, change the ALLOW\_TRF\_PERS parameter's value.

## 15.4 ALLOW\_TRF\_TEMPL

The global parameter ALLOW\_TRF\_TEMPL is used when configuring Contract Groups. The functionality is supplied according to a separate agreement with OpenWay.

The global parameter ALLOW\_TRF\_TEMPL with the "GROUP" value makes it possible to create individual tariffs for contracts in certain group. Individual tariffs can be created based on the template domain tariffs. A template domain tariff can be specified using the TEMPL\_DOMAIN=<DOMAIN\_CODE>; tag in the *Additional Tags* field of a contract group.

This mode can be enabled either with the global parameter or with the ALLOW\_TRF\_TEMPL=GROUP; tag in a Product.

## 15.5 AMOUNT\_ALERT\_MODE

The global parameter AMOUNT\_ALERT\_MODE with the TRANS\_AMOUNT value makes it possible to generate a notification when a threshold for a tariff with the AMOUNT\_ALERT code is exceeded according to the difference between amounts in the transaction currency of the authorization and financial documents. When difference is calculated, transaction amount without a fee is considered.

If the global parameter is not set, difference between the amounts of authorization and financial documents in the contract currency is compared with the threshold value. Transaction fees are considered.

When a tariff with the "Threshold" role is configured with the AMOUNT\_ALERT code in AMOUNT\_ALERT\_MODE=TRANS\_AMOUNT, difference is calculated based on the *Threshold Percentage* field. The *Threshold Amount* field is not used.

The parameter can be defined in the financial institution settings using the tag of the same name.

See the section "Client notification when the debited amount exceeds the authorization amount" of the document "Tariff Management".

## 15.6 AUTO\_STORNO\_BPERIOD

The global parameter AUTO\_STORNO\_BPERIOD is used when working with the Reversal Management module in the mode of automatic transaction reversal/adjustment (see the description of the USE\_AUTO\_STORNO global parameter).

The global parameter AUTO\_STORNO\_BPERIOD defines the number of billing cycles during which transactions can be automatically adjusted. For example, if the value is "0", transactions can only be adjusted for the current billing cycle. When the value is "1", transactions can be adjusted for the current billing cycle and for the previous billing cycle, etc.

The tag AUTO\_STORNO\_BPERIOD can be used to redefine the global parameter for a transaction subtype, Product, or financial institution (in descending order of priority).

For more information, see the documents Reversal Management, Reversal Management Limited.



The Reversal Management module is not included in the WAY4 basic configuration and is supplied according to a separate agreement with OpenWay.

## 15.7 AUTO\_STORNO\_PERIOD

The global parameter AUTO\_STORNO\_PERIOD is used when working with the Reversal Management module in the mode of automatic transaction reversal/adjustment (see the description of the [USE\\_AUTO\\_STORNO](#) global parameter).

The parameter's value specifies the duration of the period (in calendar days) during which automatic transaction reversal/adjustment is available.

If the [USE\\_AUTO\\_STORNO](#) parameter is set, when an adjustment or reversal document is received, the current banking date and posting date of the original document (posting date of original macrotransactions) are compared.

Automatic transaction reversal/adjustment is performed if the period between the posting date of the original document (posting date of original macrotransactions) and current banking date does not exceed the number of days specified using the parameter.

The global parameter can be redefined using a tag with the same name in a transaction subtype, Product, and in a financial institution (in descending order of priority).

## 15.8 BILL\_TRANSLATE\_LANGS

The global parameter BILL\_TRANSLATE\_LANGS supports the ability to translate messages that are generated by WAY4 at the end of a billing cycle (BILL\_REP), such as the following:

- Funds blocked
- Authorisation reversed
- Authorisation expired
- Processed
- Reversed
- Reversal
- Adjustment
- PS Rate

- cross rate

These messages will be translated into a local language if the following conditions are met:

1. This language is registered in WAY4 (LANG table, menu item "Full → Configuration Setup → Languages and Localisation → Languages").
2. This language is a system user's language. A system user's language is set in the Language field of the "Constants for <user group name>" form that is opened by clicking the [Constants] button in the "User Groups and Users – View" form, menu item "Full → DB Administrator Utilities → Users & Grants → User Groups and Users – View".
3. The two-letter code for this language (value of the CODE\_2 field in the LANG table) is set in the global parameter BILL\_TRANSLATE\_LANGS.

First make sure that the "Message Dictionary" contains the appropriate records (MESS\_DICT table). To generate the necessary records in the "Message Dictionary", contact OpenWay.

## 15.9 CHANGE\_INST\_ADV\_FEE

The global parameter CHANGE\_INST\_ADV\_FEE is used when working with the WAY4 Instalments module. The parameter regulates how Advance Fees are charged when a plan is changed. The parameter works in the same way as the INST\_ADV\_FEE\_OPEN parameter but when an instalment plan is changed due to early partial repayment or payment holidays, etc.

Fees from the start of the current billing cycle (Advance Fees) to the date of the change are not charged for simple fees such as "Flat Fee", "Annual Fee", and "Portion Fee". For other fees, it is possible to regulate the procedure for charging Advance Fees when a plan is changed.

When the CHANGE\_INST\_ADV\_FEE global parameter's value is "Y", fees are charged with the current date. When the parameter's value is "N" (default value) or the parameter is not set, these fees are charged together with the first portion of the new plan.

The global parameter can be redefined for a financial institution.

For more information, see the document "Instalment Loans in WAY4". The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.10 CHECK\_ACC\_SCHEME\_CODE

When this parameter is set, the uniqueness of the Account Scheme code is checked when approving an Account Scheme. Possible values:

- "ALL" – Account Schemes for all Product categories are checked (uniqueness is checked in each category of Product).
- "<comma-delimited list of Product categories>" – Account Schemes are checked in each specified category of Product. Product categories:
  - "M" – Products for acquiring contracts ("Acquiring" category).

- "A" – bank system contract Products ("Accounting" category). This value is left for backward compatibility.
- "C" – Products for issuing contracts ("Issuing" category).
- "B" – Products for bank contracts ("Bank Accounting" category).

## 15.11 CLL\_TO\_KEEP\_CLASS

CLL\_TO\_KEEP\_CLASS – determines the way WAY4 Consumer Collections cases are reclassified.

Parameter values:

- "Y" (Yes) – the rules corresponding to the current class are checked first during reclassification. If the parameters comply with the rule, the case is not moved to another class.
- "N" (No) – during reclassification, the check starts with the first row of the list of classification scheme rules ("Definition for <name of classification scheme>") from top to bottom and does not consider the current class. This is the default value.

## 15.12 CM\_<DomainCategory>\_AUTOCREATE\_USER

The global parameter CM\_<DomainCategory>\_AUTOCREATE\_USER sets the mode for automatically creating Case Management users, where <DomainCategory> is the Case Management domain category.

- When the parameter's value is "Y", the mode for automatically creating Case Management users is enabled. In this mode a check is made of whether the WAY4 user is registered as a domain user (the search is made among domain users according to the value of the *Connected As* field). If a corresponding domain user was not found, a user will be created with the following parameters:
  - If the domain user group name is specified by the AUTO\_CREATE\_IN\_GROUP=CM User Group; tag in the *Add Info* field of the group to which the WAY4 user belongs, a domain user record will be linked to this group. If a group name is not specified, the record created for the domain user will belong to the "Default" group.
  - If the domain user group specified by the AUTO\_CREATE\_IN\_GROUP=CM User Group; tag (or the "Default" group) has a template user record (record with an empty value in the *Connected As* field and "TEMPLATE" in the *User Type* field), a new domain user record will be created according to the parameters set for the template record. If a template record does not exist, it will be created and linked to a new "Autocreated: All Activities" role.
- When the value is "N" (default value) users are not automatically created.

## 15.13 CM\_HSK\_KEEP

The CM\_HSK\_KEEP global parameter defines the mode for protecting Case Management documents from deletion by Housekeeping:

- If the parameter's value is "Y", when closing a case, documents related to it save the HSK\_KEEP tag value set for them and thereby are protected from deletion by Housekeeping.
- If the value is "N" (default), when closing a case, documents related to it are freed from the HSK\_KEEP tag and will be deleted by Housekeeping.

## 15.14 CP\_HANDBOOK\_FILTER

The global parameter CP\_HANDBOOK\_FILTER is used to set the mode for filtering handbooks in the WAY4 Customer Profile module:

- If the parameter's value is set to "STRONG" (default value), a check is made of whether the filtering handbook contains the value (ParentCode) passed for filtering the handbook. If the handbook doesn't contain the value, the cps\_api.getHandbook query returns a "No such ParentCode" error and the return code (RetCode) "7".
- If the parameter's value is set to "WEAK", and the value (ParentCode) passed for filtering doesn't exist in the filtering handbook, the entire handbook without filtering will be returned.

## 15.15 CP\_STATISTICS

The CP\_STATISTICS parameter determines if statistics will be gathered on the use of WAY4 Customer Profile services:

- Setting the parameter value to "Y" turns on maintenance of counters for service requests.
- When the parameter value is "N" (the default value), statistics are not gathered.

## 15.16 DECISION\_LOG\_MODE

The global parameter DECISION\_LOG\_MODE determines the mode for logging the history of changes to calculated classifiers (Decisions) in the CS\_DECISION\_LOG table. The logging mode can be set globally or for specific decisions.

The history of changes to calculated classifier values is logged, for example, to optimise the export of data to external systems, for example to the Datamart module. The module is not included in the basic configuration of WAY4 and is supplied according to a separate agreement with OpenWay.



Before version 03.46.30, history was logged in deferred mode after running the menu item "Full → DB Administrator Utilities → Object Tasks → Start Object Tasks Scheduler" once. Starting from version 03.46.30, decisions are not logged by default.

Possible values for the global parameter:

- "SKIP" – changes are not logged.
- "IMMEDIATE" – a change is logged immediately when a linked classifier changes.

- "DEFERRED" – changes are logged in deferred mode after running the menu item "Full → DB Administrator Utilities → Object Tasks → Start Object Tasks Scheduler" once. In deferred logging mode, a classifier value is calculated in the background over the course of the day, not at the time of the corresponding request.



For the "SKIP", "IMMEDIATE", and "DEFERRED" values, the logging mode is not checked for specific classifiers, meaning these values only work globally. These values do not affect the mode for logging decisions exported to Datamart.

- "CHECK\_SKIP" – used if the logging mode is determined individually for specific decisions. When this value is specified, a check is made for the LOG\_MODE tag in the classifier. If the tag is not set, the default mode is used (in this case, "SKIP").
- "CHECK\_IMMEDIATE" – used if the logging mode is determined individually for separate decisions. When this value is specified, a check is made for the LOG\_MODE tag in the classifier. If the tag is not set, the default mode is used (in this case, "IMMEDIATE").
- "CHECK\_DEFERRED" – used if the logging mode is determined individually for separate decisions. When this value is specified, a check is made for the LOG\_MODE tag in the classifier. If the tag is not set, the default mode is used (in this case, "DEFERRED").

The LOG\_MODE=<value> tag is set in a decision's *Add Info* field. The tag can have one of the three following values:

- "SKIP" – changes are not logged (see the description of the same value for the global parameter "DECISION\_LOG\_MODE").
- "IMMEDIATE" – a change is logged immediately when a linked classifier changes (see the description of the same value for the global parameter "DECISION\_LOG\_MODE").
- "DEFERRED" – changes are logged in deferred mode (see the description of the same value for the global parameter "DECISION\_LOG\_MODE").



Decisions that are exported to Datamart are always logged, and logging cannot be disabled for them or incorrect data will be imported to Datamart. It is recommended to set up logging mode for these classifiers individually (only for those that are included in export to Datamart). Only one of the following modes can be selected for them: CHECK\_IMMEDIATE (used by default) or CHECK\_DEFERRED (see the description above).

## 15.17 DEFAULT\_CHANNEL\_ACQ\_BIN\_<Channel>

The parameter DEFAULT\_CHANNEL\_ACQ\_BIN\_<Channel> (where <Channel> is the source channel code) is used to search for a routing contract when processing authorization requests if Member ID is unknown. A contract search is made based on the BIN table record (Full → Configuration Setup → Routing → BIN Table) in which the Member ID value matches the value of this parameter.

## 15.18 DIFF\_AMOUNT\_TYPE

The DIFF\_AMOUNT\_TYPE parameter defines the amount of which document will be the base amount when calculating a threshold for the AMOUNT\_ALERT tariff (see the section "Client notification when the debited amount exceeds the authorization amount" of the document "Tariff Management").

Possible values:

- "FIN" – a threshold for opening an Event is determined according to the financial document amount.
- "AUTH" (default value) – a threshold for opening an Event is determined according to the authorization document amount.

The parameter can be defined in the financial institution settings using the tag of the same name.

## 15.19 DO\_NOT\_SCAN\_INVOICES

The global parameter DO\_NOT\_SCAN\_INVOICES determines the procedure for contacting the INVOICE\_LOG table during the daily procedure from processing contracts (Contracts Daily Update, CDU). Possible values for the parameter:

- "Y" – scanning of invoices in the INVOICE\_LOG table is skipped.
- "N" – invoices in the INVOICE\_LOG table are scanned during CDU. This is the default value.

The "Y" value is recommended to optimise (speed up) CDU if invoices are not used in WAY4 (invoices are used, for example, when working with instalment loans).

## 15.20 EXCL\_PARTIAL\_STATUS\_FOR\_<invoice code>

The global parameter EXCL\_PARTIAL\_STATUS\_FOR\_<invoice code> is used when working with invoices in WAY4.

If an invoice code is specified as the value of this parameter, during partial payment of an invoice, its status does not change.

## 15.21 FX\_CHCK\_INH\_TIME

The global parameter FX\_CHCK\_INH\_TIME is used in the "Interactive currency exchange between WAY4 cardholder accounts" feature that is provided according to an additional agreement with OpenWay.

When an offer is received ("AuthCheck" authorization document), the client can use the offered FX rates for the period that is set with the global parameter FX\_CHCK\_INH\_TIME.

The parameter's value is a time (in hours) during which rates from an "AuthCheck" authorization document can be inherited to a Fin Request. I.e. the time difference between the AMND\_DATE dates of these documents must not be greater than the value that is specified.

By default, the parameter's value is "24".

## 15.22 GEN\_ANALYTIC\_TRANSFERS

This parameter is used to enable generation of subsidiary GL entries for expanded subsidiary ledger accounting. To do so, set the parameter to "Y".



The WAY4 basis configuration does not include expanded subsidiary ledger accounting. This functionality is provided according to a separate agreement with OpenWay.

## 15.23 GL\_RENUMERATION\_MODE

The GL\_RENUMERATION\_MODE parameter is set when the Datamart module is used, and GL accounts data is exported in Datamart.

The GL\_RENUMERATION\_MODE parameter with the "FULL" value makes it possible to export information about changes to GL account numbers in Datamart correctly.

## 15.24 IGNORE\_IPS\_PRODUCT

The IGNORE\_IPS\_PRODUCT global parameter is used to disable validation of card contract subtype fields (including to disable filling in the *BIN Record* and *IPS Product* fields). To disable validation for all financial institutions, set "ALL" as the value of the IGNORE\_IPS\_PRODUCT global parameter.

The parameter can be set (redefined) for a specific financial institution by using the IGNORE\_IPS\_PRODUCT=ALL; tag in the *SpecialParms* field.

The parameter can be set (redefined) for a specific subtype by using the IGNORE\_IPS\_PRODUCT; tag in the *AddParms* field.

When the IGNORE\_IPS\_PRODUCT parameter is set (i.e. when validation of subtype fields is disabled), a Product will be approved (and an institution validate) when the *BIN Record* and *IPS Product* fields are not filled in or filled in incorrectly. A "Warning" message will be generated (i.e. an message about an error that it is not mandatory to fix).



Note that when the IGNORE\_IPS\_PRODUCT parameter is set (i.e. if the BIN Record and IPS Product fields are not filled in or filled in incorrectly), WAY4 Datamart ETL processes (processes for loading data to WAY4 Datamart), "QMR" and "QOC" reports, and statistics reports for the Russian Central Bank (for example, form 0409250 reports) will work incorrectly.

## 15.25 INST\_ACCOUNTING\_INT\_DELAY

The global parameter INST\_ACCOUNTING\_INT\_DELAY regulates whether to include interest for the date of the "Effective Date" in the current effective instalment or in the next instalment.

The parameter is used when the value of the INT\_DELAY tag in the instalment scheme is "Y" or when the value of the global parameter "INTEREST\_DELAY" is "Y".

When the value of the global parameter INST\_ACCOUNTING\_INT\_DELAY is "Y", interest for the date of the "Effective Date" is included in the current effective instalment. This is the default value.

When the value of the global parameter INST\_ACCOUNTING\_INT\_DELAY is "N", interest for the date of the "Effective Date" is included in the next instalment (before version 03.42.30, this was the default behavior; starting from version 03.42.30, the "Y" value of the global parameter INST\_ACCOUNTING\_INT\_DELAY is used by default).

For more information, see the section "Instalment Plan" of the document "Instalment Loans in WAY4™").

The global parameter can be redefined using a tag with the same name in the financial institution.

The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.26 INST\_ADV\_FEE\_OPEN

The global parameter INST\_ADV\_FEE\_OPEN is used in the WAY4 Instalments module to set up rules for "Advance Fee" fees (fee from the start of the current billing cycle to the payment date) when performing early repayment:

- If an "Advance Fee" must be additionally accrued and made effective when performing early repayment, set the parameter value to "Y".
- If the value is "N", the "Advance Fee" is moved to the first instalment of a new instalment plan.
- If the value is "W", the "Advance Fee" is waived when performing early repayment or when a plan is recalculated.

The parameter's default value is "N".

The global parameter can be redefined using a tag with the same name in the financial institution.

The CHANGE\_INST\_ADV\_FEE parameter regulates how Advance Fees are charged when a plan is changed.

For more information, see the document "Instalment Loans in WAY4". The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.27 INST\_ADV\_FEE\_WAIVE\_ON\_CLOSE

The global parameter INST\_ADV\_FEE\_WAIVE\_ON\_CLOSE is used to set up rules for working with "Advance Fee" fees (fee from the start of the current billing cycle to the payment date) when closing an active instalment plan.

- If "Advance Fee" must be waived when closing a plan, set the parameter value to "Y".
- When the parameter's value is "N", "Advance Fee" will become effective according to settings in the instalment scheme. This is the default value.
- When the parameter's value is "A", all unpaid fees for the plan, including Advance Fee, for all cycles will become effective.
- When the value is "1" – "Advance Fee" from the start of the current billing cycle up to the payment date will become effective, as well as "Advance Fee" for the next portion.

The INST\_ADV\_FEE\_WAIVE\_ON\_CLOSE parameter can be redefined using the INST\_ADV\_FEE\_WAIVE\_ON\_CLOSE=Y; tag in a Product or financial institution.

The INST\_ADV\_FEE\_WAIVE\_ON\_CLOSE parameter can be redefined when closing a specific plan.

For more information, see the document "Instalment Loans in WAY4". The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.28 INST\_ALLOW\_CLOSED\_CYCLE

The global parameter INST\_ALLOW\_CLOSED\_CYCLE is used in the WAY4 Instalments module.

To enable the ability to create an instalment plan for a transaction or balance in a closed billing cycle, set the value of the global parameter INST\_ALLOW\_CLOSED\_CYCLE to "Y".



This feature is available when the Reversal Management module is used. The module is supplied according to an additional agreement with OpenWay.

For more information, see the document "Instalment Loans in WAY4". The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.29 INST\_APPROVE\_PLANS

The global parameter INST\_APPROVE\_PLANS is used in the WAY4 Instalments module. This parameter determines whether it is necessary to manually approve a plan created manually for a transaction or balance:

- When the value is "Y", a plan is created in "Preview" status and requires manual approval.
- When the value is "N", the plan is created in "Waiting" or "Inactive" status and does not require manual approval. In this case, the plan's initial status ("Waiting" or "Inactive") is set using the global parameter [INST\\_START\\_STATUS](#).

The parameter's default value is "N".

A tag with the same name can be used to redefine the global parameter for a financial institution.

For more information, see the document "Instalment Loans in WAY4". The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.30 INST\_AUTHCHECK\_ACTION

The global parameter INST\_AUTHCHECK\_ACTION is used in the WAY4 Instalments module.

The parameter is used to set up generation of an instalment plan based on an "AuthCheck" pre-authorization document. Parameter values:

- "CHECK" – the ability to generate an instalment plan is checked. An instalment plan is not generated. This is the default value.
- "CREATE\_INACTIVE" – an instalment plan is generated in an inactive state (the status of invoices generated on the basis of the instalment plan is "Inactive").
- "CREATE\_PREVIEW" – an instalment plan is generated in the "Preview" status and requires manual approval. The plan's status after approval ("Inactive" or "Waiting") depends on the value of the global parameter [INST\\_START\\_STATUS](#).
- "SIMULATE" – when an authorization document is received, possible instalment plans for this document are generated. Plans are generated with the "Simulated" status and are of an informational nature.

The same tag can redefine the global parameter for a financial institution, Service, or document.

For more information, see the document "Instalment Loans in WAY4". The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.31 INST\_AUTH\_ACTION

The global parameter INST\_AUTH\_ACTION is used in the WAY4 Instalments module.

The parameter is used to set up rules for automatically creating an instalment plan when processing authorization documents. Parameter values:

- "CHECK" – the ability to generate an instalment plan is checked. An instalment plan is not generated. This is the default value.
- "CREATE\_INACTIVE" – an instalment plan is generated in an inactive state (the status of invoices generated on the basis of the instalment plan is "Inactive"). In this case, the instalment plan can be activated automatically when the corresponding financial document is posted (to do so, the "ACTIVATE" value must be set for the [INST\\_FIN\\_ACTION](#) global parameter).



If an instalment plan created when an authorization is posted must not affect the amounts of limits in accounts, use the CREATE\_INACTIVE value.

- "CREATE\_PREVIEW" – an instalment plan is generated in the "Preview" status and requires manual approval. The status of the plan after approval ("Inactive" or "Waiting") depends on the value of the [INST\\_START\\_STATUS](#) global parameter.

The same tag can redefine the global parameter for a financial institution, Service, or document.

For more information, see the document "Instalment Loans in WAY4". The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.32 INST\_AUTO\_ER\_BAL

The global parameter INST\_AUTO\_ER\_BAL is used in the WAY4 Instalments module to set up automatic early repayment.

To set up automatic early repayment, a balance type can be configured that differs from the default one (balance type with a code other than INST\_ER). For example, if different accounts are used for automatic and scheduled early repayment, different balance types are set up for them. The code of a balance type used for automatic early repayment (other than INST\_ER) must be set as the value of the global parameter INST\_AUTO\_ER\_BAL.

The global parameter can be redefined with the same tag, INST\_AUTO\_ER\_BAL in an Account Scheme's *Special Parameters* field or in the *Special Params* field of the financial institution.

For more information, see the document "Instalment Loans in WAY4". The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.33 INST\_CREATE\_FROM\_SIMULATION

The global parameter INST\_CREATE\_FROM\_SIMULATION is used in the WAY4 Instalments module to set up automatic early repayment.

To configure creation of an instalment plan when a financial document is received using an instalment plan in the "Simulated" status created earlier for an authorization document, set the value of the global parameter `INST_CREATE_FROM_SIMULATION` to "Y". By default, the parameter's value is "N".

The global parameter can be redefined using a tag with the same name in the financial institution.

For more information, see the document "Instalment Loans in WAY4". The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.34 INST\_CREATE\_ON\_ADJUSTMENT

The global parameter `INST_CREATE_ON_ADJUSTMENT` is used in the WAY4 Instalments module.

To automatically create an instalment plan when an adjustment is received, set the value of the global parameter `INST_CREATE_ON_ADJUSTMENT` to "Y".

A new instalment plan will be created for the corrected amount.

This mode is disabled by default – by default the value of the global parameter `INST_CREATE_ON_ADJUSTMENT` is "N".



It is mandatory to set the "ACTIVATE\_RECALC" value for the `INST_FIN_ACTION` global parameter if the "Y" value of the parameter `INST_CREATE_ON_ADJUSTMENT` is used.

For more information, see the document "Instalment Loans in WAY4". The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.35 INST\_DAILY\_INTEREST\_CODES

The global parameter is used to enable daily accrual of interest on instalment loans. The codes of fees (value of the *Fee Code* field of the instalment scheme fee) that must be accrued daily should be specified, separated by commas, as the value of the global parameter `INST_DAILY_INTEREST_CODES`.

The global parameter can be redefined for a financial institution using the tag of the same name.

To enable daily accrual of loan interest, additional settings are required. See the section "Invoice Events" Form" of the document "Instalment Loans in WAY4™". The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.36 INST\_EVENT\_INHERIT\_TAGS

The global parameter INST\_EVENT\_INHERIT\_TAGS is used to set up inheritance of tags from an instalment plan (from the POSTING\_DETAILS field of the INVOICE\_LOG table) to a document. Tags that should be inherited are specified (separated by commas) as the parameter's value.

When a document is generated by a record in the "Invoice Events" form or a record in the "Invoice Event Fees" form, if the instalment plan contains this tag, the tag is added to the document's *Add Data* field.

The global parameter can be redefined for a financial institution using the tag of the same name.

## 15.37 INST\_EXPORT\_GROUPING

The global parameter INST\_EXPORT\_GROUPING is used to configure the mode for exporting instalment plans using the "Instalment Plans Export" pipe.

The global parameter is set is the mode for exporting changes is used (the EXPORT\_MODE pipe parameter value is "DIFF"). In this case, to enable to mode for gathering data about changes in instalment plans, set one of the following values for the global parameter INST\_EXPORT\_GROUPING:

- "BANK\_CODE" – information about changes in instalment plans will be gathered separately for each Bank Code identifier of a financial institution.
- "BRANCH\_CODE" – information about changes in instalment plans will be gathered separately for each Branch Code identifier of a financial institution.



Note that the "BANK\_CODE" or "BRANCH\_CODE" value, not the actual code of the financial institution (for example, 0001) is set as the value of the INST\_EXPORT\_GROUPING parameter.

For more information about exporting plans, see the document "Exporting Instalment Plans in UFX Format".

## 15.38 INST\_FIN\_ACTION

The global parameter INST\_FIN\_ACTION is used in the WAY4 Instalments module.

The parameter is used to set rules for automatically creating an instalment plan when posting financial documents. Parameter values:

- "CHECK" – the ability to generate an instalment plan is checked. An instalment plan is not generated.
- "ACTIVATE" – when a financial document is received, it is possible to activate an instalment plan that was created in an inactive state on the basis of an authorization document (the status of invoices generated on the basis of the instalment plan changes from "Inactive" to "Waiting". This

value is used together with the "CREATE\_INACTIVE" value of the global parameter INST\_AUTH\_ACTION.

- "CREATE\_INACTIVE" – an instalment plan is generated in an inactive state (the status of invoices generated on the basis of the instalment plan is "Inactive").
- "CREATE\_ACTIVE" – an instalment plan is generated in an active state (the status of invoices generated on the basis of the instalment plan is "Waiting"). This is the default value.
- "CREATE\_PREVIEW" – an instalment plan is generated in the "Preview" status and requires manual approval. The status of the plan after approval ("Inactive" or "Waiting") depends on the value of the [INST\\_START\\_STATUS](#) global parameter.
- "ACTIVATE\_RECALC" – this value makes it possible when a financial document is received to recalculate and activate an instalment plan that was created in an inactive state based on an authorization document. The instalment plan is recalculated according to parameters received in the financial document. If the plan created according to authorization was closed before the financial document is received (for example, when authorizations are unblocked using the "Clear Old Pending" procedure; "Full → Daily Procedures → Document Processing Step by Step → Clear Old Pending"), a new plan will be created when a financial document is received.

This value is used along with the "CREATE\_INACTIVE" or "CREATE\_PREVIEW" value of the global parameter "INST\_AUTH\_ACTION".



It is mandatory to set the "ACTIVATE\_RECALC" value if the "Y" value of the parameter INST\_CREATE\_ON\_ADJUSTMENT is used.

The same tag can redefine the global parameter for a financial institution, Service, or document.

For more information, see the document "Instalment Loans in WAY4".

The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.39 INST\_GROUP\_TRANSFERS

The global parameter INST\_GROUP\_TRANSFERS is used when working with the WAY4 Instalments module (module for managing instalment loans).

If a large number of instalment plans is created for one contract and a large number of such contracts exists in Way4, the "Contracts – Daily Update" (CDU) procedure can take a significant amount of time. The global parameter INST\_GROUP\_TRANSFERS is used to optimize the procedure for processing these contracts. The parameter makes it possible to create and process aggregating documents and macrotransactions for several instalment plans of the same contract. An aggregating macrotransaction groups entries that are generated for different plans but for the same accounts. A separate macrotransaction is not created for each plan, which speeds up contract processing.

The values of the INST\_GROUP\_TRANSFERS global parameter:

- "N" – grouping is disabled (default value).
- "Y" – grouping is enabled for all processes that are performed for instalment plans.

- The parameter's value can be the process code or codes of several processes (separated by commas) executed during "CDU" for which grouping is performed:
  - "U" – change of statuses on "CDU" – when the effective date or due date arrives. Grouping is performed when transferring funds to the due account or overdue loan account respectively when the accounts match.
  - "t" – scheduled early repayment during "CDU".
  - "e" – automatic early repayment during "CDU".
  - "p" – repayment of overdue and due amounts that is made using limit normalization settings.
  - "s" – automatic early repayment according to a document.
  - "c" – close a plan according to a system classifier with the code "DLQ\_LEVEL" that defines the level of a contract's delinquency.

Entries created according to records in the "Invoice Events" form are grouped when codes of payment orders and accounts for entries match.

For aggregating documents for these entries, the INV\_BATCH\_UPDATE; tag and INV\_P\_TYPE tag with a value corresponding to the process code are set.

Tags with instalment and invoice identifiers are not set for aggregating documents. Note this when working with custom statements.

When it is necessary to save a breakdown of amounts by invoices for the process of changing statuses during "CDU" and closing plans according to the DLQ\_LEVEL classifier, set the INV\_LOG\_ORDER\_DOCS parameter to "S". Additional records will be created in the invoice\_log table for each invoice.

For other processes, the breakdown by invoices is saved in invoice\_log table records by default.



To save the breakdown of entries for standing orders that activated when changing the status of a loan, orders must be configured using the *Standing Order* field of the "Invoice Events" form. When setting up standing orders in the old mode using Events, breakdown will not be performed.

The global parameter can be redefined using a tag with the same name in the financial institution.

The WAY4 Instalments module is not included in the basic configuration of Way4 and is supplied according to an additional agreement with OpenWay.

## 15.40 INST\_HOLIDAYS\_FOR\_OPEN

The global parameter INST\_HOLIDAYS\_FOR\_OPEN is used in the WAY4 Instalments module. The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

The INST\_HOLIDAYS\_FOR\_OPEN global parameter regulates work with a plan's instalments that have the "Open", "Partially Paid", and "Overdue" statuses when payment holidays are granted:

- When the value is "Y" (the default value) – instalments will be restructured and will be assigned the "Waiting" status in a new plan.
- When the value is "N" – instalments with the "Open", "Partially Paid", and "Overdue" statuses are transferred to a new instalment plan with no changes (i.e. with the same status and amount).
- The global parameter can be redefined in a financial institution.

## 15.41 INST\_INTEREST\_FOR\_OPEN

The global parameter INST\_INTEREST\_FOR\_OPEN is used in the WAY4 Instalments module.

Starting from version 03.42.30, it is possible to calculate (accrue) interest for an open principal portion (in the "Open" status). This mode is enabled by the "Y" value of the global parameter INST\_INTEREST\_FOR\_OPEN. Moreover, the fee for the portion in the "Waiting" status and for the fee portion in the "Open" status is included in the instalment plan.

By default (if the parameter is not set, or its value is "N"), interest for a principal portion in the "Open" status is accrued (calculated in the instalment plan) from the date the portion opens to the "Due Date". If the principal portion in the "Open" status is paid before the "Due Date", the instalment plan is recalculated.

The global parameter can be redefined using a tag with the same name in the financial institution.

The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.



This mode can be enabled for schemes to accrue interest based on a daily interest rate.

## 15.42 INST\_INTEREST\_TO\_DUE

The global parameter INST\_INTEREST\_TO\_DUE with the "Y" value enables the mode for calculating loan interest linked to Due Date (from/to Due Date). The parameter works as follows:

- The fee amount in the first portion is calculated from the plan's date of creation until the first Due date.
- For subsequent portions, the fee for each portion is calculated from the Due Date of the previous portion to the Due date of the current portion.
- The fee becomes effective on the Effective Date and is not recalculated if payment is made before the Due Date up to which interest was calculated.

The INST\_INTEREST\_TO\_DUE parameter with the "Y" value is used when capitalizing interest for a shift period (see the section "Capitalizing Interest for a Shift Period" of the document "Instalment Loans in WAY4").

If the INST\_INTEREST\_TO\_DUE parameter is not set (or its value is "N"), interest is capitalized on the Effective Date.

The global parameter can be defined for a financial institution using the tag of the same name.

In an instalment scheme, the global parameter can be redefined with the INT\_TO\_DUE tag.

The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.43 INST\_ISSUER\_TEXT

The global parameter INST\_ISSUER\_TEXT is used in the WAY4 Instalments module.

The parameter makes it possible to set an arbitrary text message that will be sent in response to an authorization request together with information about instalment plan simulation. The parameter is used for Mastercard. By default, the parameter is not set, that is, the text message is not sent.

The global parameter can be redefined using a tag with the same name in the financial institution.



Text message in the document is not saved.

The WAY4 Instalments module is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.44 INST\_MAX\_DAYS\_TO\_CONVERT

The global parameter INST\_MAX\_DAYS\_TO\_CONVERT is used in the WAY4 Instalments module. The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

The global parameter INST\_MAX\_DAYS\_TO\_CONVERT makes it possible to set the maximum number of days from a transaction date (or from a balance date, to create a plan for a balance in a closed billing cycle) during which an instalment plan can be created for this transaction (balance). Documents (transactions) for which an instalment plan can be created are filtered on the basis of the INST\_MAX\_DAYS\_TO\_CONVERT parameter.

The "0" value (default value) means there are no limitations.

The number of days from the date of a transaction (balance) during which an instalment plan can be created can be additionally configured in a particular instalment scheme. This is done using the MAX\_DAYS\_TO\_CONVERT tag in the instalment scheme's *Special Params* field. This setting will only work if the value specified with the tag is less than the value of the global parameter (first transactions are filtered according to the global parameter's settings and then the tag is checked when a plan is created for a particular instalment scheme).

The tag INST\_MAX\_DAYS\_TO\_CONVERT can be used to redefine the global parameter for a financial institution.

## 15.45 INST\_MAX\_DUE\_DATE\_GAP

The global parameter INST\_MAX\_DUE\_DATE\_GAP is used when working with the WAY4 Instalments module.

The global parameter INST\_MAX\_DUE\_DATE\_GAP makes it possible to limit the shift in Due Date for a plan's open portion with the "Extra Fee from Principal" value. The maximum number of calendar days from the current date by which Due Date can be shifted is set as the parameter value.

The global parameter can be redefined by the tag with the same name in a financial institution.

For more information, see the section "Limiting Due Date Shift for a Plan with the "Extra Fee from Principal" Attribute" value of the document "Instalment Loans in WAY4". The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.46 INST\_MAX\_HOLIDAYS\_LEN

The global parameter INST\_MAX\_HOLIDAYS\_LEN is used in the WAY4 Instalments module.

The global parameter INST\_MAX\_HOLIDAYS\_LEN is used to set the maximum number of billing cycles for which payment holidays can be granted.

The default value of the parameter is "0". When the value is "0", payment holidays cannot be granted.

The global parameter can be redefined for an instalment scheme (in the *Special Params* field) using the MAX\_HOLIDAYS\_LEN tag. The tag INST\_MAX\_HOLIDAYS\_LEN can be used to redefine the global parameter for a financial institution.

For more information, see the document "Instalment Loans in WAY4". The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.47 INST\_MAX\_SIMULATED\_PLANS

The global parameter INST\_MAX\_SIMULATED\_PLANS is used when working with the WAY4 Instalments module. The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

The global parameter INST\_MAX\_SIMULATED\_PLANS is used to limit the maximum number of instalment plans with the "Simulated" status that can be calculated for a contract on one transaction.

The parameter's default value is "12".

For more information, see the document "Instalment Loans in WAY4".

## 15.48 INST\_PAYIN

The global parameter is used when generating a response to an authorization request from a terminal that supports MasterCard Instalments. The global parameter is used in instalment plan simulation.

Possible values:

- "I" – only generation of an instalment plan is possible (default value).
- "B" – standard payment and generation of an instalment plan are possible.

The global parameter can be redefined in a financial institution, Product, Service.

See the section "Selecting a Transaction Payment Method (MasterCard Instalment)" of the document "Instalment Loans in WAY4™".

The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.49 INST\_RENEW\_RATES

The global parameter INST\_RENEW\_RATES determines which rates for fees from an Instalment Scheme will be used when secondary plans are created – current rates or the rate that were used when the original plan was created. Secondary instalment plans are created when an instalment plan is changed, when granting payment holidays, partial repayment, when a plan is recalculated due to a shift in the Billing Date, when the business calendar is changed. Rates can be changed in any way: through tariffs, or in the Instalment Scheme.

The parameter can have one of the following values:

- When the value is "Y", the parameter makes it possible to apply new interest rates to existing instalment plans when secondary instalment plans are created.

 The global parameter INST\_RENEW\_RATES with the "Y" value makes it possible to save the original instalment plan's number of portions when the plan is recalculated due to a shift in the Billing Date or in early repayment. In other cases, the portion amount is saved. The parameter is used if the tag (contract parameter) AUTO\_ER\_KEEP is not set.

- When the value is "K", the parameter makes it possible to use the original interest rates when secondary instalment plans are created.

When the activity to change an Instalment plan is performed (Change Instalment Terms), the original interest rates are applied if the following conditions are met:

- If only the number or size of portions are being changed.
- If the instalment Scheme and Instalment Option do not change.

- If the parameter is not set (or its value is "N"), the original rates will be used. This is the default value. An exclusion is the activity to change an instalment plan (Change Instalment Terms), when the parameter's value is "N", new rates are used.

The global parameter can be redefined using a tag with the same name in the financial institution.

The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.50 INST\_REV\_ACTION

The INST\_REV\_ACTION parameter with the "REJECT" value is used to split rules for working with an instalment plan when a reversal and adjustment document are received. The INST\_REV\_ACTION parameter is configured if the INST\_SEC\_ACTION parameter used for adjustment documents has the EARLY\_REPAYMENT value.

If the value is "REJECT", when a reversal document is received, the instalment plan is closed (the "Closed" status is set for it).

The parameter can be set globally or using the INST\_REV\_ACTION tag for a Service or financial institution.

If the INST\_REV\_ACTION tag is not set, the value of the INST\_SEC\_ACTION tag is used for reversal documents.

If the INST\_SEC\_ACTION parameter with the "EARLY\_REPAYMENT" value is used for reversal documents, configure the Service's SEC\_ACC\_CODE=<account type code> tag. This tag defines the technical account from which early repayment will be made, both for reversal and adjustment documents. For adjustment documents, a separate account for early repayment can be specified using the REV\_ACC\_CODE tag.

The global parameter INST\_REV\_ACTION is used when the value of the global parameter INST\_CREATE\_ON\_ADJUSTMENT is "N", if the Reversal Management module is not used.

For more information, see the section "Advanced functionality for working with an instalment plan when an adjustment or reversal document is received" of the document "Instalment Loans in WAY4"

## 15.51 INST\_SCHEDULED\_ER\_BAL

The global parameter INST\_SCHEDULED\_ER\_BAL is used in the WAY4 Instalments module to set up scheduled early repayment. To set up scheduled early repayment, a balance type can be configured that differs from the default one (balance type with a code other than INST\_ER). For example, if different accounts are used for automatic and scheduled early repayment, different balance types are set up for them. The code of a balance type used for scheduled early repayment (other than INST\_ER) must be set as the value of the global parameter INST\_SCHEDULED\_ER\_BAL.

The global parameter can be redefined with the same tag, INST\_SCHEDULED\_ER\_BAL in an Account Scheme's *Special Parameters* field or in the *Special Params* field of the financial institution.

The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.52 INST\_SEC\_ACTION

The global parameter INST\_SEC\_ACTION makes it possible to specify the action performed with the original instalment plan when an adjustment document or reversal is received. Possible values:

- "REJECT" (default value) – the original instalment plan is closed (the plan gets the "Closed" status).
- "EARLY\_REPAYMENT" – early repayment is made for the original plan (the old plan is closed and a new one is created). The amount of the adjustment document is considered to be the payment amount (as a credit operation). Early repayment is made fully or partially, depending on the payment amount.

The global parameter INST\_SEC\_ACTION can be redefined using the same tag for a service or financial institution. If the tag is not found for the Service or financial institution, the global parameter is checked when the Service has the tag INVOICE\_ACTION=INSTALMENT;.

The INST\_SEC\_ACTION parameter with the "EARLY\_REPAYMENT" value should be used along with the tag SEC\_ACC\_CODE=<account type code>. This tag defines a technical account from which early repayment is made for adjustment and reversal documents. For reversal documents, an account can be defined separately using the tag REV\_ACC\_CODE=<account type code>.

For an adjustment document, rules for working with an instalment plan can be configured separately. The global parameter INST\_REV\_ACTION is used to do so.

The global parameter INST\_SEC\_ACTION is used when the value of the global parameter INST\_CREATE\_ON\_ADJUSTMENT is "N", if the Reversal Management module is not used.

For more information, see the section "Advanced functionality for working with an instalment plan when an adjustment or reversal document is received" of the document "Instalment Loans in WAY4"

## 15.53 INST\_SHIFT\_ER

The global parameter INST\_SHIFT\_ER is used in the WAY4 Instalments module to set up automatic early repayment.

By default, early repayment is made during the "Contracts – Daily Update" procedure when opening a banking day. By default, the INST\_SHIFT\_ER parameter's value is "N".

The global parameter INST\_SHIFT\_ER with the "P" value makes it possible to make early repayment when the banking day closes if two-phased banking date mode is used.

Moreover:

- Entries related to early repayment are posted on the banking date that is being closed.
- When the INST\_ADV\_FEE\_OPEN global parameter's value is "Y", interest is accrued before the past working day (before the day being closed) considering the Interest Delay parameter.
- If a new instalment plan is generated during early repayment, its creation date will be the past closed day.

The global parameter can be redefined using a tag with the same name in the financial institution's *Special Params* field.

When the "P" value of the INST\_SHIFT\_ER parameter is used for records in the "Invoice Events" form that are related to auto early repayment, it is necessary to specify the "No Shift" value in the *Posting Date Shift* field. Instead of *Posting Date Shift* parameter, POST\_DUE or INVOICE\_POST\_DUE global parameters can be used to do so, or the *Post Due Mode* field of the financial institution.

The WAY4 Instalments module is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.54 INST\_SIM\_SAVE

The global parameter INST\_SIM\_SAVE makes it possible to configure how the data of simulated instalment plans are saved. Possible values:

- "F" – a plan's full data are saved (default value).
- "P" – plans are partially saved. When this value is specified, the plan's main record and detailed information for the plan's components – data for Principal and Fee amounts, interest rate used in calculation, etc., (see the "Subtotals" form; "Instalments → Invoices & Instalments for Contracts → [Simulated] → [Subtotals]) is saved. Information about instalments is not saved in this mode.
- "M" – a plan's minimum data are saved. When this value is specified, the plan's main record is saved (without detailed information about plan components and without information about instalments)
- "N" – plans are not saved.

By default, full data for simulated plans are saved (the value of the INST\_SIM\_SAVE parameter is "F"). To optimise the process of simulating plans, it is recommended to set the value of INST\_SIM\_SAVE to "P".

If the INST\_SIM\_SAVE parameter's value is "F", when an instalment plan is created for a financial document (based on a simulated plan), data of the original simulated plan is used. For other values of the INST\_SIM\_SAVE parameter, only a part of parameters of the original simulated plan is used to generate an actual plan, for other parameters, current system parameters are used.

The global parameter INST\_SIM\_SAVE can be redefined by the tag of the same name in the Service.

The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.55 INST\_START\_STATUS

The global parameter INST\_START\_STATUS is used in the WAY4 Instalments module. This parameter determines the status of an instalment plan generated manually for a transaction or balance and that does not require approval (the plan is created when the [INST\\_APPROVE\\_PLANS](#) parameter value is "N"):

- When the value is "W" (default value), an instalment plan created manually for a transaction or balance is assigned the "Waiting" status.

- When the value is "I", an instalment plan created manually for a transaction or balance is assigned the "Inactive" status.

The global parameter can be redefined using a tag with the same name in the financial institution.

The WAY4 Instalments module (module for managing instalment loans) is not included in the basic configuration of WAY4 and is supplied according to an additional agreement with OpenWay.

## 15.56 INVOICE\_POST\_DUE

The global parameter INVOICE\_POST\_DUE is used when working with invoices in WAY4.

The global parameter INVOICE\_POST\_DUE influences how an Event is processed that opens when an invoice status changes at the end of a billing cycle.

Parameter values:

- "Y" (Yes) – when an Event opens during the procedure for opening the first banking day of a new billing cycle, the Posting Date of this Event is equal to the date of the banking day being opened minus one day. When an Event opens during the procedure for closing the last day of a past billing cycle, the Posting Date of this event is equal to the billing cycle closing date. This is the default value.
- "P" – the Posting Date of the Event is equal to the date of the last working day of the past billing cycle.
- If the value is not specified, the value of the financial institution's *Post Due* field is used as the value of the global parameter INVOICE\_POST\_DUE. If the field is not filled in, the value of the global parameter POST\_DUE is used as the value of the global parameter INVOICE\_POST\_DUE.

## 15.57 INV\_DISTRIBUTE\_OVERPAYMENT

When making a payment for a certain invoice (when the tag "INVOICE\_REF\_NUM= <invoice ID>" is set in a financial document's *Add Info* field), if the document amount exceeds the amount of the specified invoice, by default, the amount remaining is used to pay other invoices in the "Open" status (to do so, an Event must be configured with the code EXTRA\_PMNT\_<invoice code>).

When the value of the global parameter INV\_DISTRIBUTE\_OVERPAYMENT is "N", only the specified invoice will be paid.

If the specified invoice is not found (or already paid), the payment will be processed according to the setting of the global parameter [INV\\_PAYM\\_REF\\_MODE](#).

## 15.58 INV\_INHERIT\_LIST

The global parameter INV\_INHERIT\_LIST allows tags from a document and Service to be inherited by an invoice when it is created. Tags that should be inherited are specified (separated by commas) as the parameter's value. When an invoice is created, if the ADD\_INFO field of the document or the

SERVICE\_DETAILS field of the SERVICE\_APPROVED table contain this tag, the tag is added to the POSTING\_DETAILS field of the invoice (in the INVOICE\_LOG table).

A tag in the POSTING\_DETAILS field of an invoice may be used, for example, to set an additional condition for opening an Event when the invoice status changes: if the *Additional Condition* field of the "Invoice Events" form (Invoices → Invoice Events) is filled in, this value must be contained in the POSTING\_DETAILS field of the invoice for the Event to activate.

## 15.59 INV\_PAYM\_REF\_MODE

When making a payment for a certain invoice (when the tag "INVOICE\_REF\_NUM= <invoice ID>; is set in a financial document's *Add Info* field), if this invoice cannot be found, by default, the payment is distributed among all open invoices (for this to happen, an Event must be configured with the code EXTRA\_PMNT\_<invoice code>).

When the value of the global parameter INV\_PAYM\_REF\_MODE is STRICT, a payment will not be processed. The following message will be registered in the error log: "Invoice not found by ref # <invoice ID, ref # field value>".

This setting can be made for a separate document using the tag PAYMENT\_MODE=STRICT; in the document's *Add Info* field.

## 15.60 ITEM\_CYCLE\_LENGTH

The global parameter ITEM\_CYCLE\_LENGTH is used if the ITEM table is partitioned. The parameter determines the period in calendar days for which future partitions must be created in the ITEM table (accordingly, if the ITEM table is partitioned, it must always contain future partitions for the specified period).

The default value is "1000".

When a record is created in the ITEM table, the CYCLE\_DATE\_TO field is checked. When the default value is used, if the value in the CYCLE\_DATE\_TO field exceeds 1000 calendar days from the current system date, the record is created with the "L" value of the PARTITION\_KEY field and is put into the appropriate partition.

## 15.61 LINK\_COPIED\_PRODUCTS

The global parameter LINK\_COPIED\_PRODUCTS is used to copy settings of financial institutions (see the section "Copying Basic FI Configurations of the document "Financial Institutions").

When the value is "Y" if the *Template Product* field is filled in the Product being copied (i.e. there is a link to the Product in another institution), this link is kept in the new Product.

If the parameter is not set or its value is "N", the link in the *Template Product* field is not copied to the new Product (the field will be empty in the new Product).

## 15.62 NOT\_GET\_DCC\_CURR\_BY\_COUNTRY

This global parameter can list transaction channel codes for which DCC is not supported if for this channel's range of numbers, the CH\_BILL\_CURR tag with a currency value is not specified in the BIN\_DETAILS field of the BIN\_TABLE table.

For example, NOT\_GET\_DCC\_CURR\_BY\_COUNTRY=V,S. In this case, if the CH\_BILL\_CURR tag with a currency value for this channel's range is present, DCC for this number range is supported. If the CH\_BILL\_CURR tag is absent, DCC for this number range is not supported.

By default, the parameter is not set. This means that if the CH\_BILL\_CURR tag is absent for a number range in the BIN\_TABLE table, the currency code is determined according to the country code; DCC for this number range is supported.

## 15.63 OFFICER\_MAX\_INACTIVITY\_DAYS

The global parameter OFFICER\_MAX\_INACTIVITY\_DAYS is used when blocking unused user accounts. The parameter's value is the number of days from the last time the user logged into the system after which this user account should be blocked.

By default, the value of this parameter is "90" in accordance with PCI DSS 8.5.5 requirements.

## 15.64 ONLINE\_REFRESH\_CP\_SEGMENT

The global parameter ONLINE\_REFRESH\_CP\_SEGMENT is intended to optimize the procedure for client segmentation in the WAY4 Customer Profile module:

- If the value of this parameter is set to "Y" (the default value), calculation results of segmentation rules are saved in the system and are used in processing requests to execute operations.
- If the parameter has an "N" value, calculation results are not saved. Calculation is performed each time requests are processed.

## 15.65 PI\_COLLECT\_TAGS

The global parameter PI\_COLLECT\_TAGS is used when working with the Way4 Product Inspector module. The parameter enables a mechanism for collecting information about tags used when executing test scripts. To activate collection, set the global parameter's value to "Y".

Information about the tag, its value and place in the code where it is used is logged to the Process Log with the Type = "X" field value.

The parameter's default value is "N".

## 15.66 PI\_DOC\_TAGS\_TREE

The global parameter PI\_DOC\_TAGS\_TREE is used when working with the Way4 Product Inspector module. The parameter enables writing tags from the document template's *Add Info* field to a separate subtree of the Product Inspector script log (see the section "Viewing Script Execution Journals" of the document "Product Inspector Module"). To activate writing of tags, set the global parameter's value to "Y".

The parameter's default value is "N".

## 15.67 PI\_LOG\_GL\_TRACE\_EXCPT

The global parameter PI\_LOG\_GL\_TRACE\_EXCPT is used in the Way4 Product Inspector. The parameter affects processing of the tag "LOG\_MODE=GL\_TRACE\_EXCPT;" – that is, logging information from the GL\_TRACE\_EXCPT table where information goes about service entries posted to contract accounts and about macrotransactions for past dates.

If the global parameter is not set or its value is "Y", information from the GL\_TRACE\_EXCPT table is always logged, i.e. regardless of whether the tag "LOG\_MODE=GL\_TRACE\_EXCPT;" is set. If the value of the global parameter "PI\_LOG\_GL\_TRACE\_EXCPT" is "N", the tag "LOG\_MODE=GL\_TRACE\_EXCPT;" should be set to log information.

For more information, see the section "Scripts" of the document "Way4 Product Inspector Module".

## 15.68 PREFIXED\_ERRORS

PREFIXED\_ERRORS – If this parameter is set to "Y", all displayed error messages are prefixed with a message code.

The parameter's default value is "N".

## 15.69 RESEND\_INV\_INHERIT\_TAGS

The global parameter RESEND\_INV\_INHERIT\_TAGS is used when working with invoices in WAY4.

The global parameter's value is a list of tags, separated by commas, that will be inherited from the previous (original) invoice to a new invoice when resending a document. For example,  
RESEND\_INV\_INHERIT\_TAGS=BATCH\_ID,PAYME.

## 15.70 RESEND\_PAYM\_INHERIT\_TAGS

The global parameter RESEND\_INV\_INHERIT\_TAGS is used when working with invoices in WAY4.

The global parameter's value is a list of tags, separated by commas, that will be inherited from the previous (original) invoice to a new invoice when resending a document. For example, RESEND\_INV\_INHERIT\_TAGS=BATCH\_ID,PAYME.

## 15.71 SAVE\_ACCOUNT\_NUMBER

This parameter makes it possible to specify the procedure for renumbering subsidiary GL accounts when an account's GL number changes.

- If the value is "N" (default value), when the GL number of an account is changed, the subsidiary GL accounts numbers corresponding to this GL number are changed.
- If the value is "Y", subsidiary GL accounts are not renumbered.

For more information, see the document "WAY4 Accounting".

## 15.72 STAT\_COLLECT

This parameter is used to set a list of service classes codes considered when generating quarterly statistics on macrotransactions.

## 15.73 STAT\_HIDE\_REPOST

The global parameter STAT\_HIDE\_REPOST allows repost and adjustment documents to be hidden in statistics reports. To turn on this function, set the parameter value to "Y".

When the value of the parameter is "N" (the default value) these document types will be included in the report. For example, a repost document will appear in the report as one reversal document and two advice documents.

## 15.74 STMT\_CL\_NAME\_FORMAT

The value of the parameter STMT\_CL\_NAME\_FORMAT defines the format of client names as shown in statements.

Parameter values may be ASCII symbols and the following variables in any order:

- %CONTRACT\_NAME%
- %CONTRACT\_NUMBER%
- %TITLE%
- %CLIENT\_LAST\_NAME%
- %CLIENT\_FIRST\_NAME%
- %FATHER\_S\_NAME%
- %ACNT\_ADD\_INFO\_01%
- %ACNT\_ADD\_INFO\_02%.

## 15.75 STOPLIST\_TS\_CHANNELS

When using a Transaction Switch platform solution to send requests to put cards in exception lists, the value of the global parameter STOPLIST\_TS\_CHANNELS must be set to "V,X,E".

See the section "Generating Requests to Add Cards to Exception Lists" of the document "WAY4™ Stop Lists".

## 15.76 STORNO\_AUTO\_HIDE\_GL\_CORRECTION

The global parameter STORNO\_AUTO\_HIDE\_GL\_CORRECTION is used when working with the Reversal Management module.

The parameter is used to hide the following entries:

- When correcting entries whose data have not yet been exported to the CBS, it is possible to not export the original and reversal entry to the CBS and not show them in forms.
- When the value of this parameter is "Y" (default value), original entries and their reversals are marked in the process of correction as entries not intended for export (the *For Export* field for such entries has the "No" value). Only the correction entry is exported to the CBS.
- When the value of this parameter is "N", all entries affected by the correction process are exported to the CBS – original entries, their reversals and correction entries (in this case, the *For Export* field for such entries has the "Y" value).
- To hide entries that were reversed and reposted without any changes (not affected by the original operation's change or reversal).
  - When the value of this parameter is "Y" (default value), only the original entry is exported to the CBS (if it had not yet been exported to the CBS at the time changes were made). The reversal and new entry for the same amount are marked as not intended for export (the *For Export* field for such entries has the "No" value).
  - When the value of this parameter is "N", all entries are exported to the CBS.



The Reversal Management module is not included in the WAY4 basic configuration and is supplied according to a separate agreement with OpenWay.

## 15.77 STORNO\_CANCEL\_REVERSALS

The global parameter STORNO\_CANCEL\_REVERSALS is used when working with the Reversal Management module.

The default value of this parameter is "N" (recommended value). When this value is set, if the original and reversal entry fall in a correction plan's effective period, these entries will be cancelled and reapplied.

If an original document and its reversal are reposted when applying a correction plan (these documents have the same *Posting Date* date), these documents (document macrotransactions) are posted together and limit normalization will be performed after they have been posted. Any chain of documents with the same *Posting Date* date, where reversal macrotransactions are present will be posted in the same way. For example, several adjustment documents with the same *Posting Date* date will be posted together, one after another, and then limit normalization will be performed.



The "N" value of the global parameter STORNO\_CANCEL\_REVERSALS makes it possible to calculate data for specific balances related to reversals.

When the value is "Y", these entries (original and reversal entries) are reversed and are not made again.



Note that when the value is "Y", an original transaction and reversal are not shown in a statement (i.e. separate balances related to reversals are not kept).

## 15.78 STORNO\_GL\_TRANS\_DISTINCTION

The global parameter STORNO\_GL\_TRANS\_DISTINCTION is used when working with the Reversal Management module.

The global parameter STORNO\_GL\_TRANS\_DISTINCTION allows configuration of the way GL entries are generated in the GL\_TRANSFER table when correcting transactions:

- When the value is "C" [*Common*], reversal and correction entries for contract accounts are recorded in GL entries in standard mode. In this case, entries generated as a result of corrections are not distinguished from other entries.
- When the value is "D" [*Distinct*] (default value), entries generated in the transaction correction process can be recorded in separate GL entries. The *Order\_Type* field in the GL\_TRANSFER table is used to separate entries. The following values may be entered in this field:
  - "R" [*Reversal*] – a GL account reversal entry generated in the transaction correction process.
  - "C" [*Correction*] – a GL account correction entry.
  - "S" [*Standard*] – a GL account "standard" entry.
- The parameter value "P" [*Partial*] – entries generated in the transaction correction process are recorded in separate GL entries or standard GL entries depending on the status of the corrected source transaction's entries.
  - When correcting a transaction whose entries are closed and exported to the CBS (in the "Closed" status), reversal and correction entries are generated and exported in the same way

as when the value STORNO\_GL\_TRANS\_DISTINCTION parameter has the "D" value. That is, reversal and correction entries are generated and exported separately from standard entries.

- When correcting a transaction whose entries are in the "Active" or "Extracted" status, reversal and correction entries are generated and exported in the same way as when the value of the STORNO\_GL\_TRANS\_DISTINCTION parameter is "C". That is, reversal and correction entries are generated and exported like standard entries.

The global parameter can be redefined using a tag with the same name in the financial institution.



The Reversal Management module is not included in the WAY4 basic configuration and is supplied according to a separate agreement with OpenWay.

## 15.79 STORNO\_INST\_BALANCE\_LOCK

The global parameter STORNO\_INST\_BALANCE\_LOCK with the "Y" value is used when working with the Reversal Management module and the WAY4 Instalments module when creating an instalment plan by a balance.

The global parameter makes it possible when correcting operations with Reversal Management module tools to create a plan again using the plan's original amount, even if the balance amount changed.

## 15.80 STORNO\_LOG\_OBJECTS

The global parameter makes it possible to expand logging of changes made when operations are performed using the Reversal Management module. Possible values:

- "C" – changes to classifiers are logged.
- "B" – changes to balance types are logged.
- "I" – changes to instalment loans are logged.

Several values separate by commas can be specified as the global parameter's value.

## 15.81 STORNO\_SKIP\_HOLIDAYS

The global parameter STORNO\_SKIP\_HOLIDAYS is used when all days, including weekends and holidays are opened in WAY4. In this case, when revising a contract's lifecycle, weekends/holidays in the period being revised must also be considered in recalculation. To do so, set the value of the global parameter STORNO\_SKIP\_HOLIDAYS to "N".

When the value is "Y" (default value), weekends/holidays for the period are skipped when revising a contract's lifecycle.

The global parameter can be redefined using a tag with the same name in the financial institution.

## 15.82 SUSPEND\_ALL\_PROCESSES

This parameter is used to stop a number of processes being executed in WAY4. When the parameter value is "Y", processes for which the "Current Number" counter is used are stopped (for these processes, the value of the *Current Number* field in the form "Full → Process Log → Process Log" is more than zero, see the section "Process Log" Menu Item" of the document "DB Manager Manual"). The parameter is used, for example, to increase the performance of system processes.

The parameter's default value is "N".



After resolving the corresponding system performance tasks, the SUSPEND\_ALL\_PROCESSES parameter must be set to its initial value of "N" to renew execution of processes in WAY4.

## 15.83 SYNC\_PERSONAL\_TARIFFS

The global parameter SYNC\_PERSONAL\_TARIFFS is used when synchronizing template tariff data and the data of personal tariffs created earlier on the basis of these templates (see the document "WAY4™ Advanced Tariff Management").

- When SYNC\_PERSONAL\_TARIFFS parameter value is "Y", synchronization is performed.
- When the value is "N" (default value), synchronization is not performed.

The SYNC\_PERSONAL\_TARIFFS=N; tag can be used to redefine the "Y" value of this global parameter for a Product.

## 15.84 TRIVIAL\_GL\_TRANSFER

The parameter TRIVIAL\_GL\_TRANSFER influences how GL entries are generated and represented:

- When the value is "N" (default value) – if the same GL account (GL\_NUMBER) is used as the debited and credited account, when account templates and subsidiary GL account numbers (ACCOUNT\_NUMBER) match, GL entries (records in the GL\_TRANSFER table) and journal entries (records in the GL\_TRACE table) **are not generated**.  
If these entries must be shown in GL accounts, use the "A" value of this global parameter.
- When the value is "A", GL entries (records in the GL\_TRACE and GL\_TRANSFER tables) are generated and shown without the aforementioned conditions and restrictions. When closing GL entries, no check is made that the numbers of accounts and templates match.
- When the value is "S", records in the GL\_TRANSFER and GL\_TRACE tables are generated as for the "N" value. However, when the value is "S", GL entries (GL\_TRANSFER) with the same GL account number (GL\_NUMBER) for debit and credit are not included in turnover for the corresponding GL accounts in the GL\_ACCOUNT and GL\_ITEM tables

The global parameter can be redefined using a tag with the same name in the financial institution.

## 15.85 USE\_ANALYTIC

This parameter is used to enable/disable expanded subsidiary ledger accounting. By default, the parameter value is "N", i.e. this mode is disabled. To enable the mode, set the parameter value to "Y".

This parameter can be redefined on the financial institution level using the tag of the same name (in the *Special Params* field of the financial institution form – "Full → Configuration Setup → Main Tables → Financial Institutions → [Details]").



WAY4 expanded subsidiary ledger accounting functionality is provided according to a separate agreement with OpenWay.

## 15.86 USE\_AUTO\_STORNO

The global parameter USE\_AUTO\_STORNO is used when working with the Reversal Management module. For more information, see the documents Reversal Management, Reversal Management Limited.



The Reversal Management module is not included in the WAY4 basic configuration and is supplied according to a separate agreement with OpenWay.

## 15.87 VOICE\_AUTH\_RRN\_PREFIX

VOICE\_AUTH\_RRN\_PREFIX – A parameter used when creating a unique RRN (Retrieval Reference Number) in the database when performing a voice authorization.

The parameter value is a positive two-digit integer.

When a value is set for this parameter, it will be used as a prefix during voice authorizations when creating the transaction's reference number, instead of the default prefix, 99.

This parameter is used by affiliated banks when exchanging data through a host-to-host channel with a sponsoring bank.

## 15.88 WAIVE\_INT\_ROUNDING

During interest accrual, rounding errors may occur (related to rounding to the minimum fractional currency unit; for example, for dollars, this is two digits after the comma). The global parameter WAIVE\_INT\_ROUNDING with the "N" value allows the amount of the rounding error arising during interest accrual to be considered in the next accrual of interest (if interest is accrued several times

during one billing cycle – for example, when accruing interest on an instalment loan). When interest is next accrued in the same billing cycle, the amount of the rounding error not considered earlier is added to the calculated amount. When this global parameter's value is "Y", the amount of the rounding error is not considered.

This parameter can be redefined using the tag of the same name on the account template level in the *Template Details* field.