

**XLAPI****Инструкция по установке**



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1. Установка системы

Все команды должны выполняться от имени пользователя root. **Сору и paste. Соблюдайте точный порядок действий!**

1.1. Операционная система

1.1.1 Поддерживаемая ОС

Версия DEBIAN >= 10

ASTRA Linux

Версия CentOS = 7

Рекомендуется: DEBIAN

1.1.2 Directory структура

Variables (Переменные)

```
# set the name of top-level directory (Leave this line as it is for default.)
XLAPI_DIR_DESTINATION="/"
```

Script (Скрипт)

```
# creating directory xlapi in destination
mkdir -p "${XLAPI_DIR_DESTINATION}xlapi"

# creating /xlapi link
if [[ ! -d "/xlapi" ]]; then
    ln -s "${XLAPI_DIR_DESTINATION}/xlapi" "/xlapi"
fi

# creating directory structure
mkdir -p /xlapi/bin/ifo_a
mkdir -p /xlapi/bin/ifo_b
mkdir -p /xlapi/bin/scripts
mkdir -p /xlapi/bulk
mkdir -p /xlapi/cdr/archive
mkdir -p /xlapi/cdr/local_a
mkdir -p /xlapi/cdr/tmp
mkdir -p /xlapi/export/local_a
mkdir -p /xlapi/log/ifo_a
mkdir -p /xlapi/tmp
mkdir -p /xlapi/trace
```



1.2 Системные модули

```
touch
/xlapi/export/local_a/{carr_fas,carr_sk,carrier_list,category_section,destination_list,fas_prfx_crr}.csv
touch
/xlapi/export/local_a/{holidays,info_presets,mnp_list,normalization,numbers_lists,parameter_list}.csv
touch
/xlapi/export/local_a/{prefix_destination,regions,rules,state_domains,subs_data,time_templates,timezone}.csv
touch
/xlapi/export/local_a/{xlstate_domain_settings,xlstate_profile,xlapi_auth,xlapi_bank_query,xlapi_iw_settings}.csv
touch
/xlapi/export/local_a/{content_list,domain_distribution,parameter_list_sms_fw}.csv
```

1.3 Установка XLAPI

Распакуйте дистрибутив `xlapi.tar.gz` в директорию `/home/xlapi_vrf`. Скопируйте из директории `/home/xlapi_vrf` следующие файлы:

- `xl_main`
- `start`
- `stop`
- `xlapi`

в папку `/xlapi/bin/ifo_a`.

Выполните следующие команды (При необходимости создайте поддиректории):

```
chown root:root /xlapi/bin/scripts/*
chmod +x /xlapi/bin/scripts/*

chown root:root /xlapi/bin/ifo_a/*
chmod +x /xlapi/bin/ifo_a/*
```

Первичный запуск.

- а. Запустите сервис:
`./start`
- б. Остановите сервис:
`./stop`
- в. В появившемся файле `XL_MAIN.INI` в поле `APP:0` впишите `'xlapi'`:



```
GLB:LOGGING=1
GLB:LOG_GENERAL=2
GLB:LOG_MAX_SIZE_MB=1024
APP:0=xlapi
```

Также в поле GLB:APP LOG впишите ‘/xlapi/log/ifo_a/xl_main_log.csv’

```
GLB:APP_LOG=/xlapi/log/ifo_a/xl_main_log.csv
GLB:LOGGING=1
```

- d. Запустите сервис:
./start
- e. Остановите сервис:
./stop
- f. В появившемся файле XLAPI_CFG.INI необходимо поменять все директории “/xl/...” на “/xlapi/...”
- g. Запустите сервис:
./start

2. Конфигурация XLAPI

2.1 Описание файлов конфигурации XLAPI

Default Filename	Required	Type	Description
XLAPI_CFG.INI	Autogenerated	Autogenerated configuration file	Configuration of XLAPI - general
XLAPI_SS7.INI	Autogenerated	Autogenerated configuration file	Configuration of XLAPI - associations
/xlapi/export/local_a/xlapi_auth.csv	Yes (Reload trigger)	Manually edited	Xlapi authentication data
/xlapi/export/local_a/xlapi_bank_query.csv	Yes	Manually edited	Bank query data (domain data)
/xlapi/export/local_a/xlapi_iw_settings.csv	Yes	Manually edited	IW settings (domains, service keys, GTs)
/xlapi/export/local_a/xlapi_configuration_profile.csv	Yes	Manually edited	Per Bank API behavior settings (configuration profiles)
/xlapi/cdr/local_a/xlapi_cdr.csv	Output	XLAPI CDR	XLAPI CDR output
/xlapi/log/ifo_a/xlapi_log.csv	Output	Log	Log (M3UA, SCCP)
/xlapi/log/ifo_a/xlapi_app.csv	Output	Log	Log (GENERAL, RULE, TCAP, SIP)
/xlapi/log/ifo_a/xlapi_sctp_log.csv	Output	Log	Log (SCTP)



2.1.1 XLAPI_CFG.INI

Parameter	Description	Must set	Need restart
GLB:NUMLIST_FILE_COUNT=0	Number of numlist files	Maybe	
GLB:NUMLIST_FILE(_2...)=/xlapi/export/local_a/numbers_lists.csv	Number lists file filename	Maybe	
GLB:NUMLIST_COUNT_MAX=1000	Storage size for numberslists (max number of numberlist IDs)		Yes
GLB:AUTH_FILE=/xlapi/export/local_a/xlapi_auth.csv	Xlapi authorizations file filename		
GLB:BANK_QUERY_FILE=/xlapi/export/local_a/xlapi_bank_query.csv	Xlapi Bank query file filename		
GLB:IW_SETTINGS_FILE=/xlapi/export/local_a/xlapi_iw_settings.csv	Xlapi IW settings file filename		
GLB:CONFIGURATION_PROFILE_FILE=/xlapi/export/local_a/xlapi_configuration_profile.csv	Xlapi configuration profile file filename		
GLB:CDR_FILE=/xlapi/cdr/local_a/xlapi_cdr.csv	Xlapi CDR file filename		
GLB:STAT_FILE=/xlapi/export/local_a/xlapi_stat.csv	Xlapi stat file filename		
GLB:LOG_FILE=/xlapi/log/ifo_a/xlapi_log.csv	Xlapi log file filename		
GLB:APP_LOG=/xlapi/log/ifo_a/xlapi_app.csv	Xlapi app log file filename		
GLB:SCTP_LOG=/xlapi/log/ifo_a/xlapi_sctp_log.csv	Xlapi sctp log file filename		
GLB:LOGGING=0	Logging level (0 = all off, 1 = only LOG_GENERAL on, 2 = all on)	Yes	
GLB:LOG_GENERAL=1	Log type for level GENERAL (0 = off, 1 = file only, 2 = stdout and file)		
GLB:LOG_SCTP=0	Log type for level SCTP (0 = off, 1 = file only, 2 = stdout and file)		
GLB:LOG_M3UA=0	Log type for level M3UA (0 = off, 1 = file only, 2 = stdout and file)		
GLB:LOG_SCCP=0	Log type for level SCCP (0 = off, 1 = file only, 2 = stdout and file)		
GLB:LOG_RULE=1	Log type for level RULE (0 = off, 1 = file only, 2 = stdout and file)		
GLB:LOG_CALL=1	Log type for level CALL (0 = off, 1 = file only, 2 = stdout and file)		



Parameter	Description	Must set	Need restart
GLB:LOG_MAX_SIZE_MB=1024	Max file size for log files in megabytes before rotating, negative number = unlimited		
GLB:SERVER_ID=1	ID for this server	Yes	
GLB:OWN_STATE_ROUTE=1	State route parameter for this server (origin route in State packets)		
GLB:WORKER_COUNT=4	Number of worker threads	Maybe	Yes
GLB:NUMLIST_MAX_SIZE=10000	Numlist storage capacity		
GLB:OPTIMIZE_QUESTIONMARK_NUMBERS=0	1 = use optimization for numbers ending with ?, requires different sorting on numbers_lists		
GLB:CDR_ENABLED=0	1 = enable writing of Xlapi CDR		
XLAPI:HTTP_PORT=8081	Port for HTTP server (incoming HTTP requests)	Yes	Yes
XLAPI:HTTP_AUTHENTICATION_REQUIRED=1	1 = require HTTP authentication (or return 403 Forbidden), 0 = don't		
XLAPI:HTTP_HEADER_HOST=127.0.0.1	Host HTTP header value to use for outgoing requests	Yes	
XLAPI:HTTP_VERIFYCALLSTATE_URI= http://127.0.0.1:5000/%s/VerifyCallState	URI for outgoing VerifyCallState requests, %s will be replaced by http_uri in xlapi_auth	Yes	
XLAPI:HTTP_EVENTOUT_URI= http://127.0.0.1:5000/%s/Event	URI for outgoing Event messages, %s will be replaced by http_uri in xlapi_auth	Yes	
XLAPI:HTTP_SOURCE_IP_FIELD=X-Forwarded-For	For incoming HTTP requests - HTTP header field to be used as source IP (for distinguishing banks)		
XLAPI:XLSTATE_TIMEOUT_MS=1300	Timeout for State server requests initiated by Api server		
XLAPI:VERIFYCALLSTATE_TIMEOUT_MS=1500	VerifyCallState request (and others) timeout in ms		
XLAPI:EVENT_OUT_BATCH_MODE=1	1 = send EventOuts in batches		
XLAPI:EVENT_OUT_BATCH_MODE_TIMER_MS=100	Period of sending of EventOut batches		



Parameter	Description	Must set	Need restart
XLAPI:HTTP_PROCESS_INCOMING_CALL_URI= http://127.0.0.1:5000/ProcessIncomingCall	ProcessIncomingCall method URI		
XLAPI:HTTP_PROCESS_INCOMING_CALL_INFO_URI= http://127.0.0.1:5000/ProcessIncomingCallInfo	ProcessIncomingCallInfo method URI		
XLAPI:HTTP_NOTIFY_OUT_URI= http://127.0.0.1:5000/%s/Notify	NotifyOut method URI		
XLAPI:PROCESS_INCOMING_CALL_ENABLED=0	1 = enable ProcessIncomingCall and related methods		
XLAPI:PROCESS_INCOMING_CALL_DOMAIN=50	DomainID for incoming State requests which result in ProcessIncomingCall		
XLAPI:PROCESS_INCOMING_CALL_BLOCK_DOMAIN=51	DomainID where call is advertised in order to be blocked		
XLAPI:PROCESS_INCOMING_CALL_TIMEOUT_MS=1000	ProcessIncomingCall request timeout		
XLAPI:PROCESS_INCOMING_CALL_INFO_TIMEOUT_MS=1000	ProcessIncomingCallInfo request timeout		
XLAPI:PROCESS_INCOMING_CALL_DEFAULT_RELEASE_CODE=34	ProcessIncomingCall default release code when not in response		
XLAPI:PROCESS_INCOMING_CALL_CRYPTO_KEY=0123456789abcdef	Key used for encrypting/decrypting data		
XLAPI:VERIFY_CLIENT_PAYMENT_STATE_DOMAIN_ID=-1	VerifyClientPaymentState incoming method DomainID		
XLAPI:VERIFY_CLIENT_PAYMENT_STATE_NUMLIST_ID=-1	VerifyClientPaymentState incoming method NumlistID1		
XLAPI:VERIFY_CLIENT_PAYMENT_STATE_NUMLIST_ID2=-1	VerifyClientPaymentState incoming method NumlistID2		
XLAPI:ADD_TO_NUMBER_LIST_ENABLED=0	1 = enable AddToNumberList interface		
XLAPI:ADD_TO_NUMBER_LIST_URI= http://127.0.0.1:5000/x1-fraud-api/OnlineFraud/StateServerAdd?num=%s&domainId=%d&apiKey=xlapi&apiSecret=3j2kb364kn23b6k2j13	AddToNumberList URI		
XLAPI:ADD_TO_NUMBER_LIST_TIMEOUT_MS=2000	AddToNumberList request timeout in ms		
XLAPI:DYNAMIC_NUMBER_LIST_URI= http://127.0.0.1:5000/x1-fraud-api/OnlineFraud/NumListAdd	Add to Dynamic number list URI		
XLAPI:DYNAMIC_NUMBER_LIST_HTTP_HEADER_HOST=127.0.0.1	Add to Dynamic number list Host HTTP header value		



Parameter	Description	Must set	Need restart
XLAPI:DYNAMIC_NUMBER_LIST_TIMEOUT_MS=2000	Add to Dynamic number list request timeout		
XLAPI:TIMER_EVENTS=	Specify 0 or more auto-events, format: period_ms, l, bankid, domaintype, A, B, C		
GLB:MAX_INPUT_QUEUE_SIZE=3000	Capacity for input packet (SCTP part) queue		Yes
GLB:MAX_EVENT_OUT_COMPRESSION_STORAGE_SIZE=10000	Capacity of EventOut compression storage		Yes
GLB:EVENT_OUT_DELAYED_DISCONNECT_SIZE=50000	Capacity of EventOut delayed disconnect storage		Yes
GLB:VERIFY_CALL_STATE_HASH_SALT=BVNKNb3rsnr9wiut25	VerifyCallState hash salt (when using hashes)		
GLB:REQUEST_QUEUE_SIZE=100000	Capacity of total active requests		Yes
GLB:VERIFY_CLIENT_STATE_LIMIT_SIZE=50000	Capacity of VerifyClientState throttling storage		Yes
XLAPI:HTTP_VOLTE_STATUS_ENABLED=0	1 = on VerifyClientState request VoLTE and Multifon status		
XLAPI:HTTP_VOLTE_TOKEN_URI= http://127.0.0.1:5000/	VoLTE token retrieval URI		
XLAPI:HTTP_VOLTE_TOKEN_AUTHORIZATION=Token	VoLTE token request HTTP authorization		
XLAPI:HTTP_VOLTE_USERNAME=User	VoLTE query username		
XLAPI:HTTP_VOLTE_PASSWORD=Password	VoLTE query password		
XLAPI:HTTP_VOLTE_QUERY1_URI= http://127.0.0.1:5001/msisdn:%s	VoLTE query URI 1		
XLAPI:HTTP_VOLTE_QUERY2_URI= http://127.0.0.1:5001/msisdn:%s/?imsi=%s	VoLTE query URI 2		
XLAPI:VOLTE_REMOVE_PREFIX=1	1 = remove 7 from MSISDN when doing VOLTE query		
XLAPI:HTTP_MULTIFON_QUERY_URI= http://127.0.0.1:5002/sm/rest/subscribers/%s/current-state	Multifon query URI		
XLAPI:HTTP_MULTIFON_USERNAME_PASSWORD=SM_STATUS:password	Multifon query HTTP authentication		



Parameter	Description	Must set	Need restart
XLAPI:HTTP_RESPONSE_POOL_SIZE=1000	Max buffers used to recompose HTTP responses in multiple packets		Yes
XLAPI:IW_QUERY_TIMEOUT_MS=2000	Query timeout for IW requests		

2.1.2 XLAPI_SS7.INI

См. XLSIG_SS7.INI.

Параметры предназначены для внешних соединений SIGTRAN для IW и для соединений со state серверами (основными и вторичными).

Дополнительный параметр (*not in XLSIG_SS7.INI*):

Parameter	Description	Must set	Need restart
ASSOC#n:LOCAL_OWN_GT=	Alternative CallingGT (instead of GLB:OWN_GT) for this association when sending IW IDPs	Maybe	

2.1.3 xlapl_auth.csv - Данные банковской аутентификации

Field	Name	Full name	Description
1	bank_id	BankID	Number indicating which bank it is (must be between 1-31)
2	http_auth	HTTP Authentication	Authentication string for incoming requests (example user:password)
3	http_src_ip	HTTP Source IP	Source IP for incoming requests (in HTTP X-Forwarded-For header)
4	http_uri	HTTP URI	Outgoing URI part used in full URI specified by INI file
5	configuration_profile_id	Configuration Profile ID	Configuration profile ID used for this in/out connection (by convention same as BankID)

2.1.4 xlapl_bank_query.csv – Данные доменов банка



Field	Name	Full name	Description
1	bank_id	BankID	Bank ID of the entry
2	domain_type	Domain Type	Number which determines the meaning of the Domain ID, see values below
3	domain_id	DomainID	State server DomainID

В случае использования банковских уведомлений настройте следующие значения для банковских доменов:

- DT_CALL_BANK_TO_CLIENT = 1
- DT_CALL_RESTRICTED_BANK_TO_CLIENT = 2
- DT_CALL_SPOOFED_BANK_TO_CLIENT = 3
- DT_CALL_CLIENT_TO_BANK = 4
- DT_CALL_CLIENT_TO_RESTRICTED_BANK = 5
- DT_CALL_CLIENT_TO_SPOOFED_BANK = 6
- DT_CALL_FRAUD_TO_CLIENT = 7
- DT_CALL_CLIENT_TO_FRAUD = 8
- DT_CALL_IN_PROGRESS = 9
- DT_CALL_TO_CLIENT_REDIRECTED = 10
- DT_CALL_BANK_FRAUD_LIST_TO_CLIENT = 11
- DT_CALL_CLIENT_TO_BANK_FRAUD_LIST = 12
- DT_CALL_SUBSCRIBER_IN_ROAMING = 13
- DT_CALL_PILOT1_NUM_TO_CLIENT = 15
- DT_CALL_PILOT2_NUM_TO_CLIENT = 16
- DT_CALL_PILOT3_NUM_TO_CLIENT = 17
- DT_CALL_CLIENT_FRAUD_LIST_TO_USER = 18
- DT_CALL_USER_TO_CLIENT_FRAUD_LIST = 19
- DT_CALL_TEST_OPERATOR_TO_CLIENT = 20
- DT_CALL_SPOOFED_TO_CLIENT = 21
- DT_MESSENGER_CALL = 22
- DT_PHISHING_LINK = 23
- DT_CALL_GENERIC_TO_CLIENT_24 = 24
- DT_CALL_EVENT_25_TO_CLIENT = 25



- DT_CALL_GENERIC_TO_CLIENT_26 = 26
- DT_CALL_GENERIC_TO_CLIENT_27 = 27
- DT_CALL_GENERIC_TO_CLIENT_28 = 28
- DT_CALL_IN_PROGRESS_ALT = 29
- DT_CALL_GENERIC_TO_CLIENT_30 = 30
- DT_EVENT_OUT_CALL_BANK_TO_CLIENT = 51
- DT_EVENT_OUT_CALL_RESTRICTED_BANK_TO_CLIENT = 52
- DT_EVENT_OUT_CALL_SPOOFED_BANK_TO_CLIENT = 53
- DT_EVENT_OUT_CALL_CLIENT_TO_BANK = 54
- DT_EVENT_OUT_CALL_CLIENT_TO_RESTRICTED_BANK = 55
- DT_EVENT_OUT_CALL_CLIENT_TO_SPOOFED_BANK = 56
- DT_EVENT_OUT_CALL_FRAUD_TO_CLIENT = 57
- DT_EVENT_OUT_CALL_CLIENT_TO_FRAUD = 58
- DT_EVENT_OUT_CALL_TO_CLIENT_REDIRECTED = 60
- DT_EVENT_OUT_CALL_BANK_FRAUD_LIST_TO_CLIENT = 61
- DT_EVENT_OUT_CALL_CLIENT_TO_BANK_FRAUD_LIST = 62
- DT_EVENT_OUT_SIMULATE_BANK_EVENT = 63
- DT_EVENT_OUT_CALL_PILOT1_NUM_TO_CLIENT = 65
- DT_EVENT_OUT_CALL_PILOT2_NUM_TO_CLIENT = 66
- DT_EVENT_OUT_CALL_PILOT3_NUM_TO_CLIENT = 67
- DT_EVENT_OUT_CALL_CLIENT_FRAUD_LIST_TO_USER = 68
- DT_EVENT_OUT_CALL_USER_TO_CLIENT_FRAUD_LIST = 69
- DT_EVENT_OUT_TEST_OPERATOR_TO_CLIENT = 70
- DT_EVENT_OUT_CALL_SPOOFED_TO_CLIENT = 71
- DT_EVENT_OUT_MESSENGER_CALL = 72
- DT_EVENT_OUT_PHISHING_LINK = 73
- DT_EVENT_OUT_CALL_GENERIC_TO_CLIENT_24 = 74
- DT_EVENT_OUT_CALL_EVENT_25_TO_CLIENT = 75
- DT_EVENT_OUT_CALL_GENERIC_TO_CLIENT_26 = 76
- DT_EVENT_OUT_CALL_GENERIC_TO_CLIENT_27 = 77
- DT_EVENT_OUT_CALL_GENERIC_TO_CLIENT_28 = 78
- DT_EVENT_OUT_CALL_GENERIC_TO_CLIENT_30 = 80
- DT_EVENT = 100
- DT_VERIFYCALLSTATE = 110



- DT_VERIFYCALLSTATE_INCOMING_HASH = 112
- DT_NOTIFY_OUT = 120

2.1.5 xlapl_iw_settings.csv - Настройки возможностей IW

Field	Name	Full name	Description
1	type	Entry type	Type of entry (affects interpretation of following fields), see values below
2	domain_start	DomainID First	First DomainID of the domain range or DomainID for a single domain
3	domain_end	DomainID Last	Last DomainID of the domain range or -1 for a single domain
4	mode	Mode	0 = query (IDP + response etc.), 1 = advertise
5	gt	GT	CallingGT in received IDP for type == 1 (SIGTRAN input) and CallingGT used in output IDP for type == 11 (SIGTRAN output)
6	service_key	ServiceKey	ServiceKey in received IDP for type == 1(SIGTRAN input) and ServiceKey used in output IDP for type == 11 (SIGTRAN output)
7	output_group_index	Output Group Index	IW_GROUPS index used for output IDP for Entry type == 11 (SIGTRAN output)
8	query_type	Query type	if Entry type == 12 it is State server query type, otherwise unused

Тип:

- 1 - SIGTRAN input (IW)
- 2 - XLSIG input (State server)
- 3 - HTTP input
- 11 - SIGTRAN output (IW)
- 12 - XLSIG output (State server)
- 13 - HTTP output

ПРИМЕЧАНИЕ. Идентификаторы доменов, используемые в этом файле, не обязательно должны существовать в конфигурации state сервера — они используются для внутренней трансляции между строками input - output. олько если используется тип == 2 или тип == 12 (State server input/output) используется, когда DomainIDs соответствуют доменам State сервера.

2.1.6 xlapl_configuration_profile.csv – Конфигурация профиля для банка



Field	Name	Full name	Description
1	configuration_profile_id	Configuration Profile ID	number indicating profile ID, selected in xlapl_auth.csv, by convention the same as bank_id
2	event_type	Event Type	for Event scoped settings event type (1,2,3, etc.), for Global scope settings -1
3	setting	Setting Name	See Setting table below
4	value	Setting Value	See Setting table below

Setting table

Setting	Scope	Default	Description
AllowEventOutgoing	Global	1	0 - disable Event Outgoing method for the bank
AllowEventIncoming	Global	1	0 - disable Event Incoming method for the bank
AllowVerifyClientState	Global	1	0 - disable VerifyClientState method for the bank
AllowVerifyCallState	Global	1	0 - disable VerifyCallState method for the bank
AllowCallStateInEvent	Event	1	1 - callState can be included in event type
ApplicableForSendingHash	Event	1	1 - hashNumber for non client number can be sent as hash for this event type (if global setting is enabled)
VerifyClientStateThrottlingThreshold	Global	0	if > 0 sets the maximum number of VerifyClientState requests per second for a bank
VerifyCallStateThrottlingThreshold	Global	0	if > 0 sets the maximum number of VerifyCallState requests per second for a bank
EventOutThrottlingThreshold	Global	0	if > 0 sets the maximum number of EventOut messages per second for a bank
EventTranslation	Global	(empty)	a setting for Event type translation (e.g. 1,2,3,4,4,6,7,8,9,10 will translate events 5 to events 4 for EventOut messages)
VerifyCallStateMode	Global	1	Chooses format/behavior of VerifyCallState (1- phone number and calling number, 2 - call hash, 3 - phone number, 4 - recipient ID etc. (COUNTRYCOM))



Setting	Scope	Default	Description
VerifyCallStateRecipientId	Global	N/A	RecipientID when VerifyCallStateMode == 4
VerifyCallStateSenderId	Global	N/A	SenderId when VerifyCallStateMode == 4
VerifyCallStateEKey	Global	(empty)	EKey to be used when VerifyCallStateMode == 4 (used in CallHash1/2 calculations) - use 64 character x1 number (256 bit) with lower letters
AllowVerifyClientStateCallState	Global	1	1 - enable callState field in VerifyClientState response
AllowVerifyClientStateConversationDuration	Global	1	1 - enable conversationDuration or conversationDurationRange tag in VerifyClientState response
AllowVerifyClientStateVoLTECheck	Global	0	1 - enable sending VoLTE HTTP request to determine client busy state
VerifyClientStateConversationDurationDelayEnable	Global	1	1 - enable adding of a random delay to the value of conversationDuration and input to conversationDurationRange as per specification
VerifyClientStateConversationDurationCategories	Global	0	1 - use conversationDurationRange instead of (precise) conversationDuration in VerifyClientState response
VerifyClientStateOldCallState	Global	0	1 - use different callState enum in VerifyClientState response (0 no answer, 1 ended conversation, 2 active pending, 3 active in conv, 4 active in conv estimate, 5 unknown) if not ApiVersion >= 700
VerifyClientStateAllCategories	Global	0	1 - enable foundCodes field in VerifyClientState response (array of all found states)
VerifyClientPaymentStateMode	Global	0	1 - enable additional fields (payerRisk, recipientRisk etc.) in VerifyClientPaymentState reply
VerifyClientStateLimitEnabled	Global	0	1 - enable limiting of VerifyClientState requests per client number
VerifyClientStateLimitTime	Global	60	interval in seconds required between successful VerifyClientState requests for a particular client number if VerifyClientStateLimitEnabled == 1
AllowEventOutPing	Global	1	1 - enable sending of ping EventOut messages (eventType = 100) if no other events are sent in interval of 5 seconds
AllowEventOutCallingCalledNumber	Global	0	1 - enable sending of callingNumber and calledNumber fields in EventOut
AllowEventOutAdditionalCallingNumber	Global	0	1 - enable sending of additionalCallingNumber field in EventOut



Setting	Scope	Default	Description
AllowEventOutHashNumber	Global	0	1 - enable hashNumber field in EventOut to send hash of the non-client number involved in the call
AllowEventOutCallState	Global	1	1 - enable callState field in EventOut
TimeRandomizeAlgorithmForConversationEnd	Global	0	1 - enable delaying callState 2 EventOuts (add a random time delay based on call duration)
ApiVersion	Global	-1	set to e.g. 700 to enable various 7.0 API features for a particular bank (and 710 for 7.1 etc.)
ClientNumberListId	Global	-1	if >= 0 it is the Numberlist ID used to determine if a number in VerifyClientState request belongs to a bank client (should be set to BankClients number list ID for a particular bank to enable the check)
EventOutCallState3	Global	0	1 - enable sending of callState 3 (all clear) instead of callState 2 events
UseEventOutCompression	Global	0	1 - enable EventOut compression
EventOutCompressionInterval	Global	15	interval in seconds used for EventOut compression
AllowEventOutFullCallDuration	Global	0	enable duration of the call (in seconds) [To be used together with AllowEventOutFullCallDurationDelayEnable.]
AllowEventOutConversationDuration	Global	0	enable duration of the conversation (in seconds) [To be used together with AllowEventOutConversationDurationDelayEnable.]
AllowEventOutSessionID	Global	0	enable unique call ID
AllowEventOutTime	Global	0	enable event time (in UTC format)
AllowEventOutConversationDurationDelayEnable	Global	1	enable the random time delay for the conversation duration [To be used together with AllowEventOutConversationDuration.]
AllowEventOutFullCallDurationDelayEnable	Global	1	enable the random time delay for the call duration [To be used together with AllowEventOutFullCallDuration.]
BankPingRequestTimeLimitS	Global	0	enable the bank ping request monitoring to check if the connection exists. API sends a notification if the ping request from the bank is missing for a specified amount of time. Set this time limit in seconds. If the value is zero, it is disabled. The bank should periodically send ping requests to API using a HTTP request "VerifyClientState" with a special number with 15 zeros: "{\phoneNumber\": \"000000000000000\"}" . The API should return { "responseCode": 9999 } . The API sends alert PING_REQUEST_MISSINGX by xlmon for bank_Id X. It sends an email to the email address MAIL_DESTINATIONS written in XLMON_CFG.INI. Multiple email addresses should be separated by a comma with no spaces (,).
AllowVerifyRoaming	Global	0	1 - enable VerifyRoaming (url /verify/) HTTP request processing
AllowForwardEvent	Global	0	1 - enable ForwardEvent (url /ForwardEvent) HTTP request processing (forwarding of events) [Parameter eventType must be bigger than 100.]