

INFOWATCH

TM 6.10 Configuration Files Guide

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1 Traffic Monitor configuration files

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1.1 adlibitum.conf

Content	Description
{	
"Logging": {...},	See General section Logging
"ThriftServers": {...},	See General section ThriftServers
"NookDir": "/opt/iw/tm5",	In this section, the module working directory is specified. By default – /opt/iw/tm5
"Discovery": {...}	See Common section Discovery
"Adlibitum": {	
"DomainParams": {	Domain parameters conversion section
"default": {	Conversion settings (default). The lowest priority.
"DnsRootDefault": "",	Domain address through which the System gets auth contacts of persons
"NetbiosNameDefault": ""	Domain name used for identification and the auth type contact generation
}	
},	
"ConfigDir": "etc/adlibitum/"	Domain synchronization configuration directory. Empty during the installation.
},	
"Startup": {...},	See Configuration general settings
"DebugBreak": false,	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.

`"ResourceLimits": {...},`	See General section ResourceLimits
`"Permissions": {...}`	See General section Permissions
`}`	

1.2 agent.conf

Content	Description
`{`	
`"Autoscan": {`	Automatic system information gathering settings section
`"Enabled": true,`	Enable auto-scan
`"StartTime": 0`	Scanning start time offset in minutes (once a day, starting from current start time)
`},`	
`"AutoscanTime": 0,`	Older versions support. The StartTime parameter is used in the up-to-date versions. Entirely equivalent.
`"DebugBreak": false,`	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
`"Discovery": {...},`	See Common section Discovery
`"Logging": {...},`	See General section Logging
`"NookDir": "/opt/iw/tm5",`	In this section, the module working directory is specified. By default – `/opt/iw/tm5`
`"Permissions": {...},`	See General section Permissions
`"ResourceLimits": {...},`	See General section ResourceLimits

`"Startup": {...},`	See Configuration general settings
`"ThriftServers": {...}`	See General section ThriftServers
`}`	

1.3 analysis_client.conf

Content	Description
`{`	
`"PASPort": 9989,`	**iw_pas** port
`"PASHost": "127.0.0.1",`	**iw_pas** daemon host address
`"CASPort": 9987,`	**iw_cas** port
`"CASHost": "127.0.0.1"`	**iw_cas** daemon host address
`"ChunkSize" : 8388608,`	Clipboard size (bytes) for data exchange with CAS service (optional).
`}`	

1.4 analysis.conf

Content	Description
`{`	
`"Analysis": {`	
`"HTTP": {`	
`"CharsetDetection": 0,`	Charset detection method. `0` by default. In this case the charset is detected using common method. After extracting in the context some POST-requests might be displayed incorrectly. To fix it you may set the value `1`.

`"DecodeHttpContent": true,`	Enable request content extracting if the value of the Content-Encoding header is one of the following: gzip, deflate, compress. `true` by default.
`"ExtractHttpEntity": false,`	Enable text extraction from encrypted request content using external decompressors. This procedure is used, if the internal decoding procedure crashes using zlib fails. `false` by default.
`"MaxFileMap": 131072,`	Maximum buffer size to read a http context file (bytes).
`"MaxMemoryBlock": 4096,`	Maximum amount of POST-request data (kilobytes), which could be stored in RAM. Large size blocks will be unloaded to temporary files. `4096` by default.
`"MaxReadBuf": 131072,`	Buffer size limit. 131072 by default.
`"MinHeader": 10,`	Minimum URL encoded text size (bytes) for one block of a variable, which will be sent to the content analysis server. `10` by default.
`"MinText": 0,`	Minimum text size (bytes), for which the content analysis will be performed. `0` by default. Changing this parameter enables to reduce the content analysis server load. It can be realised if refusing the context analisys of the text being so small to contain valuable messages.
`"OnlyPost": true,`	Only POST-requests interception. `true` by default.
`"ZimbraMail": false`	Zimra mail interception. `false` by default.
`},`	
`"TempDir": "tmp",`	Temporary files directory. `tmp` by default.

`"NumExtractorThreads": 0,`	• Value 0 - the old mode. When the number of extractors started is equal to the number of streams and every object is to be processed systematically via one stream (for example, 100 files archive). • Value >0 - the new mode. In this case if the object contains attachments (the same archive), they are to be processed by NumExtractorThreads streams maximum; thus, having a great number of working streams, only NumExtractorThreads of extractors is to be started at the same time.
`"WorkerThreads": 12`	Number of working streams. `12` by default.
`},`	
`"Bookworm": {...},`	see General section Bookworm
`"DebugBreak": false,`	To send or not to send SIGTRAP (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
`"ExtractorCache": {`	Parameters of extractors cache.
`"ExtractorCacheDepth": 0,`	Maximum number of objects, stored in cache, default value is 0 (cache is disabled).
`"ExtractorCacheClearExistingDir": true,`	Flag, indicating if the directory content of daemon cache should be deleted once started, if it's already existed and not the empty one. Defauls value is - true (to delete).
`"ExtractorCacheMaxSize": 107374182400,`	Cache maximum size, reserved on the disk (in bytes). Default value - 107374182400 (100 Gb).
`"ExtractorCacheFileMaxSize": 10485760,`	File maximum size to store in cache (in bytes). Default value - 10485760 (10 Mb).

`"ExtractorCacheShards": 0`	Number of streams to store data in cache. If the value is 0 - the number of System streams, otherwise - the number of specified streams, preferable that it wasn't bigger than the System streams number, default value is - 0.
`},`	
`"Logging": {...},`	see General section Logging
`"NookDir": "/opt/iw/tm5",`	In this section the module working directory is specified. By default – `/opt/iw/tm5`
`"Permissions": {...},`	see General section Permissions
`"ResourceLimits": {...},`	see General section ResourceLimits
`"Statistics": {...},`	see Genaral section Statistics
`"Startup": {...}`	see Configuration general settings
`}`	

1.5 blackboard.conf

Content	Description
`{`	
`"DebugBreak": false,`	If SIGTRAP (SIGBREAK to Windows) should be sent while any exception handling. Used for debugging purposes.
`"Discovery": {...},`	See Common section Discovery
`"ErrorsQueueDir": "queue/blackboard_errors",`	Path to the file queue with errors of **iw_blackboard** daemon

`"Logging": {...}`	See General section Logging
`"MessageQueueDir": "queue/blackboard",`	Path to the working file queue of **iw_blackboard** daemon
`"NookDir": "/opt/iw/tm5",`	In this section, the module working directory is specified. By default – `/opt/iw/tm5`
`"OpenMessagesMax": 100,`	Maximum number of simultaneously opened elements of **iw_blackboard** daemon message queue
`"Permissions": {...},`	See General section Permissions
`"ResourceLimits": {...},`	See General section ResourceLimits
`"Startup": {...},`	See Configuration general settings
`"ThriftServers": {...}`	See General section ThriftServers
`}`	

1.6 bookworm.conf

Content	Description
`{`	
`"Logging": {...}`	See General section Logging
`"ThriftServers": {...}`	See General section ThriftServers
`"NookDir": "/opt/iw/tm5",`	In this section, the module working directory is specified. By default – `/opt/iw/tm5`
`"Startup": {...},`	See Configuration general settings
`"DebugBreak": false,`	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
`"Discovery": {...},`	See Common section Discovery

"Compendiums": {	Paths to compendiums list
"OCRCompendium": {	Directory containing information about enabling OCR extraction for a specified service/ object type/ protocol.
"BaseXMLPath": "config-perm/bookworm/ocr.xml",	Basic OCR directory. It is to be overwritten when updating the RPM packages.
"CustomNodeXMLPath": [],	Custom OCR directory list for separate nodes. The highest rules priority.
"CustomXMLPath": "config-perm/bookworm/ocr-custom.xml",	Custom OCR options directory. The rules belonging to this section have higher priority over the corresponding rules from BaseXMLPath. This directory is not overwritten when RPM packages are updating.
"XSDPath": "compendiums/ocr.xsd"	Path to XML schema for OCR directory validation
},	
"ErrorCompendium": {	Localized processing errors directory
"XMLPath": "config-perm/bookworm/errors.xml",	Path to directory
"XSDPath": "compendiums/errors.xsd"	Path to XML schema for validation
},	
"ActionCompendium": {	Directory of actions related to interrupted events. Supporting localization.
"XMLPath": "config/bookworm/actions.xml",	Path to directory

"XSDPath": "compendiums/actions.xsd"	Path to XML schema for validation
},	
"FormatCompendium": {	Supported formats directory
"XMLPath": "config-perm/bookworm/formats.xml",	Path to directory
"XSDPath": "compendiums/formats.xsd"	Path to XML schema for validation
},	
"ExtractorCompendium": {	Directory for signature-based detection of mime-type, and suitable extractor determination.
"XMLPath": "config-perm/bookworm/extractors.xml",	Path to directory
"XSDPath": "compendiums/extractors.xsd"	Path to XML schema for validation
},	
"ProtocolCompendium": {	Localized protocols directory.
"XMLPath": "config/bookworm/protocols.xml",	Path to directory

"XSDPath": "compendiums/protocols.xsd"	Path to XML schema for validation
},	
"ServiceCompendium": {	Localized services and event types directory.
"XMLPath": "config/bookworm/services.xml",	Path to directory
"XSDPath": "compendiums/services.xsd"	Path to XML schema for validation
},	
"ValidatorCheck": true,	Enabling/disabling directory validation
},	
"ResourceLimits": {...},	See General section ResourceLimits
"Permissions": {...}	See General section Permissions
},	
"UnsafeHandlers": false	See Configuration general settings
}	

1.7 capstack.conf

Content	Description
{	
"Messed3": {	Object model for **iw_capstack** type Messed3 and its settings
"QueuePath": "queue/smtp",	Path to output queue
"Format": true	If formatting of XML file queue should be enabled
},	
"Statistics": {...}	See General section Statistics
"Logging": {...}	See General section Logging
"processors": {	Protocols processors (used processors are described in the section UsedProcessors)
"pop3": {	Pop3
"OperatingPorts": [	Ports
110	
]	
},	
"imap4": {	Imap4
"OperatingPorts": [	Ports

`143,`	
`993`	
`]`	
`},`	
`"nrpc": {`	NRPC
`"TrackExternal": true,`	If incoming/outgoing messages from/to IBM Lotus Domino should be parsed
`"OperatingPorts": [`	Ports
`1352`	
`],`	
`"TrackInternal": true`	If messages between internal addressees of IBM Lotus Domino should be parsed
`}`	
`},`	
`"NookDir": "/opt/iw/tm5",`	In this section, the working directory of the module is specified. By default – `/opt/iw/tm5`
`"UsedProcessors": {`	In this section, the protocols are specified which should be parsed by **iw_capstack**. The process parses the protocol and transforms it to the extension. Then, traffic is sent to **iw_messed** (see section processors for the valid protocol processors list).
`"pop3": true,`	Pop3 parsing. Default value: `true`

`"imap4": true,`	Imap4 parsing. Default value: `true`
`"nrpc": false`	Nrpc parsing. Default value: `false`
`},`	
`"Startup": {... },`	See Configuration general settings
`"UsedSources": {`	Used data sources for **iw_capstack** are specified in the section. Iscp is the only supported element, but pcap could be used for debugging purposes, if required.
`"iscp": true`	At this time, `iscp` is only supported
`},`	
`"MemoryLimits": {`	Memory limits for **iw_capstack** (bytes). (0 - without restrictions. RejectSessionsLimit < DropSessionsLimit < StopAllocationLimit for not null values)
`"RejectSessionsLimit": 4294967296,`	Upon achieving the limit, new sessions could not be created
`"StopAllocationLimit": 0,`	Upon achieving the limit, memory allocation is no longer possible
`"DropSessionsLimit": 0`	Operation threshold, upon crossing which the session dropping mechanism is activated (starting with the most memory consuming).
`},`	
`"Sources": {`	Data source lists for **iw_capstack** are specified here
`"iscp": {`	InfoWatch Sniffer Connection Protocol (proprietary protocol)

`"ListenArea": "capstack",`	Listen area, used in **iw_sniffer**. If a listen area with the specified name is not configured in **iw_sniffer**, but it exists in **iw_capstack** or **iw_proxy**, the error "This area does not exist and interruption is not possible" will be written in the logs upon connection.
`"BaudRate": "max",`	Baud rate limit for `iscp`, "max" - do not set a limit (baud)
`"Niceness": -8,`	Priority value (nice) for threads-handlers of iscp
`"Host": "127.0.0.1",`	**iw_sniffer** IP address
`"Port": 4301`	**iw_sniffer** port
`},`	
`"script": {`	Source used for debugging. NOT USED. To get the script, make "sessiondump": true in *UsedProcessors* . Scripts are written in the `cs-dump` directory by default.
`"InputDir": "scripts"`	
`},`	
`"smtp": {`	NOT USED
`"Host": "127.0.0.1",`	
`"Port": 2525`	
`},`	
`"icap": {`	NOT USED

"Host": "127.0.0.1",	
"Port": 1344	
},	
"ssnitch": {	NOT USED
"Host": "127.0.0.1",	
"Port": 6338	
},	
"devmon": {	NOT USED
"Host": "127.0.0.1",	
"Port": 6559	
},	
"pcap": {	NOT USED. Could be used for debugging purposes. This processing differs from the sniffer processing. Therefore, it could be used only for totally correct dumps without violation of order/skips/double packages.
"Filter": "1:65535",	-
"Speed": "fast",	-

"DefragTimeoutInSec": 60,	-
"InputFile": "input.pcap"	-
}	
},	
"DebugBreak": false,	To send or not to send SIGTRAP (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
"HeartbeatTimeInMs": 257,	Asynchronous internal procedures call interval
"Sheme_liro": "bin/typedef-main.lso",	Path to file with LIRO scheme
"UsedObjectModels": {	Used object model (the only one model could be used)
"Messed3": true,	Use the Messed3 model
},	
"ResourceLimits": {...},	See General section ResourceLimits
"Permissions": {...}	See General section Permissions
}	

1.8 cas_config_compiler.conf

Content	Description
{	
"Logging": {...},	see General section Logging
"NookDir": "/opt/iw/tm5",	In this section the module working directory is specified. By default – `/opt/iw/tm5`
"Startup": {...},	see Configuration general settings
"Bookworm": {...},	see General section Bookworm
"DebugBreak": false,	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
"Analysis": {	
"ImageMatcherYml": "etc/config-perm/cas/image-matcher.yml",	Path to image processing technologies configuration.
"Researcher": {},	Section for "Text objects" technology. Not used.
"EnableSchemaCheck": true,	Enabling the check of xml on xsd (disabling substantially increases the configuration loading speed). `true` by default.
"Autoling": {	Autolinguist training configuration section.
"StatmodelConfig": {	Machine training parameters section. Not recommended to change without the skilled person.
"p": 0.0,	Set an epsilon in the epsilon-SVR function.
"C": 5.0,	The C parameter (restrictions violation cost) for SVM.
"SolverType": 1,	Classification type. Default value - 1 (L2-regularized L2-loss support vector classification (dual)).
"bias": -1.0,	Add the bias component with the specified value, if > = 0; If <0, the bias component is not added.

"eps": 9.9999999999999995e-07	Set admissibility for the exit criteria.
},	
"StatmodelFilename": "autoling_statmodel",	Path to the file with a trained classifier.
"DictionaryPath": "etc/config-perm/cas/dictionary"	Path to morphological dictionaries.
},	
"SchemaPath": "etc/cas_config.xsd",	Path the file with xml configuration schema.
"Stamper": {},	Reference document detector. Not used.
"ImageClassifier": {	Image classifier training settings section.
"NumClusters": 300,	Number of clusters for quantization.
"StatModel": {	Machine learning parameters section. Not recommended to change without the skilled person.
"C": 100.0,	The C parameter for some types of SVM (C-SVC, epsilon-SVR, and nu-SVR).
"probability": false,	If the probability of classifier training should be used.
"degree": 3,	The kernel of a classifier function degree.
"shrinking": false,	defining, if the shrinking heuristics should be used.
"eps": 9.9999999999999995e-07,	Set permissibility for terminating criteria.
"p": 0.10000000000000001,	Set a permissible error for terminating criteria.
"KernelType": 2,	The kernel of a classifier function type.

"cache_size": 1000.0,	Cache size (megabytes).
"coef0": 0.0,	Null coefficient for the kernel function.
"nu": 0.5,	The nu parameter for some types of SVM (nu-SVC, one-class SVM и nu-SVR).
"gamma": 0.5,	The gamma parameter for the kernel of a classifier function.
"SVMType": 0	SVM classifier type
},	
"NumDictionaryTrainDecriptors": 10000	Maximum number of training descriptors
},	
"Classifier": {	Text classifier section. The parameter contains:
"DictPath": "etc/config-perm/cas/",	Path to morphological dictionaries.
"LexerJson": "etc/config-perm/cas/lexer.json"	Path to morphological dictionaries configuration.
"TranslitConfigPath": "etc/config-perm/cas/onto_translit_table.conf",	Path to transliteration tables.
"Enabled": false	Enabling/disabling the option to add transliterated terms into ontology.
}	
},	
"ResourceLimits": {...},	see General section ResourceLimits
"Permissions": {...}	see General section Permissions
}	

1.9 cas.conf

Content	Description
`{`	
`"Logging": {...},`	see General section Logging
`"ThriftServers": {...},`	see Общая секция ThriftServers
`"NookDir": "/opt/iw/tm5",`	In this section the module working directory is specified. By default – `/opt/iw/tm5`
`"Startup": {...},`	see Configuration general settings
`"Bookworm": {...},`	see General section Bookworm
`"DebugBreak": false,`	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
`"Analysis": {`	
`"FormAnalysis": {`	Detector of forms.
`"MaxHighlightedRows": 50,`	Maximum number of rows of the form to be highlighted. Default value – `50`
`"StopWordsPath": "etc/config-perm/cas/form_stopwords.txt",`	Path to stop words dictionary.
`"Enabled": "True",`	Enabling (true) and disabling (false) of analysis technologies.

"LongFieldThreshold": 0.20000000298023224,	Long fields threshold (more then one word) in the intercepted form, used in the heuristic formula for comparison algorithm selection. Default value – `0.2`
"MinMatchedRows": 1	Minimum number of matched rows to activate the form. It has influence on all forms. Default value – `1`
},	
"Vector": {	Vector image analysis technology.
"Enabled": "True"	Enabling (true) and disabling (false) of analysis technologies.
},	
"Researcher": {	Text object detector.
"LuaReplacesPath": "etc/config-perm/cas/lua_replaces.json",	Path to the file with symbol list to be replaced for the specified ones before sending the text to the verification function.
"Enabled": "True",	Enabling (true) and disabling (false) of analysis technologies.
"ResultLimits": {	Event-context technology results limits.
"MaxEntriesPerInstance": 50,	Maximum number of text objects found to be written to the context. This means, how many times maximum the unique object can be found. From parameters `"MaxEntriesPerInstance"` and `"MaxInstancesPerTextObject"` it is used only in case the text object template is specified as a string. Default value – `50` **Note:** To perform analisys technologies correctly, the parameter value should be not less than the text object occurrence, specified within TM Management Console (more here)

"MaxInstancesPerTextObject": 50	Maximum number of text object occurrences to be written to the context. This means, how many different object values can be found. From parameters `"MaxEntriesPerInstance"` and `"MaxInstancesPerTextObject"` it is used only this one, in case the text object template is set asregular expression. Default value – `50`. **Note:** To perform analisys technologies correctly, the parameter value should be not less than the text object occurrence, specified within TM Management Console (more here)
}	
},	
"Autoling": {	Automatic linguistics analysis. Default value - `false`
"Enabled": "False",	Enabling (true) and disablings (false) of analysis technologies.
"Classifier":	
{	
"Type": "cosine",	Classification type. Available values: • svm - Support Vector Machine classifier; • cosine - cosine measure classifier.
"TermsNumLimit": 500	Maximum number of terms used by classifier. Available only for cosine.
};	
"Extractor":	
{	
"MaxTermSize": 1,	Maximum number of words in a term.

`"Dictionary":`	Dictionary
`[`	
`{`	
`"Type": "morpho",`	Dictionary type: • morpho - morphological; • simple - without morphology; • virtual - virtual, returning a hash of the term as ID.
`"Path": "etc/config-perm/cas/all_lang.dict"`	Path to dictionary.
`}`	
`],`	
`"Stopwords":`	Stop words.
`[`	
`{`	
`"Type": "morpho",`	Dictionary type: • morpho - morphological; • simple - without morphology; • virtual - virtual, returning a hash of the term as ID.
`"Path": "etc/config-perm/cas/stopwords.dat"`	Path to stop words dictionary.

}	
]	
}	
},	
"Classifier": {	Content analysis.
"RelevanceThreshold": 0.10000000000000001,	Relevance threshold. Default value – 0.10000000000000001
"Enabled": "True",	Enabling (true) and disabling (false) of analysis technologies.
"ResultLimits": {	Limits for the number of event-context technology results.
"MaxEntriesPerTerm": 50	Maximum number of terms entries for each category, which should be written to the context. Default value – 50
},	
"Speller": {	Speller. Technology is disabled by default
"Enabled": "true",	Enabling (true) and disabling (false) of analysis technologies.
"SpellerDictsPath": "etc/config-perm/cas/"	Path to directory containing morphological dictionaries
},	
"Translit": {	Translitiration. Technology is disabled by default

"TranslitConfigPath": "etc/config-perm/cas/translit_table.txt",	Path to the exchange tables for translitiration
"Enabled": "true"	Enabling (true) and disabling (false) of analysis technologies.
}	
},	
"Stamper": {	Reference document detector.
"Enabled": "True",	Enabling (true) and disabling (false) ofanalysis technologies.
"ResultLimits": {	Event-context technology results limits.
"MaxEntriesPerFingerprint": 50	Maximum number of reference documents entries to be written to the context. Default value – 50
}	
},	
"Images": {	Image detector.
"MatcherConfig": "etc/config-perm/cas/image-matcher.yml",	Path to analysis configuration file (image-matcher.yml).
"KeypointMatcher": {	Small image detector technology. Used for credit cards.
"Enabled": "True"	
},	

"ImageMaxWidth": 50000,	Maximum image width. If the image is wider, it will not be processed by the System. Default value – 50 000
"Barcode": {	Barcode recognition technology. Returns text.
"Enabled": "Off"	Enabling (on) and disabling (off) of analysis technologies.
},	
"StampDetector": {	Stamp detector.
"Enabled": "True"	Enabling (true) and disabling (false) of analysis technologies.
},	
"ResultLimits": {	Event-context technology results limits.
"MaxFingerprint": 50	Maximum number of found fingerprints to be written to the context. Default value – 50
},	
"ImageClassifier": {	Image classifier technology to work with passports, drawings, maps.
"Enabled": "True"	
},	
"ImageMaxHeigth": 50000	Maximum image height. If the image is higher, it will not be processed by the System. Default value – 50000
},	

`"Exclusions": {`	Eclusions.
`"Enabled": "False"`	Enabling (true) and disabling (false) of analysis technologies.
`},`	
`"TableAnalysis": {`	DB unloading detector.
`"MinWords": 10,`	Minimum number of words in a DB unloadings file, sufficient to detect unloading. All field names and data from the table are included in this value. It is required having an interword space. Default value – `10`
`"Enabled": "True",`	Enabling (true) and disabling (false) of analysis technologies.
`"MaxHighlightedWords": 50`	Maximum number of words from unloading to be highlighted. Default value – `50`
`}`	
`},`	
`"ResourceLimits": {...},`	see General section ResourceLimits
`"Config": {`	
`"EnableSchemaCheck": true,`	Enabling the check of xml on xsd (disabling substantially increases the configuration loading speed). `true` by default.
`"CacheMaxSize": 10000,`	Number of analysis results saved in the cache. Number of cache elements. Default value – `10000`
`"SchemaPath": "etc/cas_config.xsd",`	Path to xsd file, used for xml configuration validation. Default value – `etc/cas_config.xsd`

"Path": "etc/config/cas"	Path to the cas file. Default value – `etc/config/cas`
},	
"Permissions": {...}	see General section Permissions
}	

1.10 configerator.conf

Content	Description
{	
"Startup": {...},	see Configuration general settings
"Permissions": {...}	see General section Permissions
"Debug": false,	Switch to Debug mode (increases the logging level).
"ConfigurationsCount": 100,	Number of configurations saved in `etc/configerator/` (The value could be increased if the connections are too slow and the configurations do not reach DM. To save the disc space the value could be decreased). Default value - `100`
"WebSocketURL": "https://localhost/api/notify/publish/configUpdate",	URL, where the configuration update notifications are sent. It is recommended changing, if nginx has a non-standard configuration.
"Logging": {	Logging configuration.
"Backends": {	Backends list.
"DefaultDirectory": "/var/log/infowatch/",	Configuration saving directory.
"Descriptions": {	Format description for every logging type and specific settings.

"File": {	Separate file output (the directory to create a file in is specified in `DefaultDirectory`).
"FileName": "configerator.log"	File name (basename) to save a log.
}	
}	
}	
}	
}	

1.11 deliver.conf

Content	Description
{	
"DebugBreak": false,	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
"Deliver": {	Specific settings of **iw_deliver** daemon.
"IdleTimeoutInSec": 100,	Idle timeout in case of empty queue for sending before the next iteration (seconds).
"MaxPickObjectsCount": 20,	Maximum number of objects, picked by **iw_deliver** from database for sending.
"MaxSentAttempt": 10,	Maximum number of attempts to send an object in case of error occured.
"SentTimeoutInSec": 150	Object resend interval (seconds).
},	

`"Logging": {...}`	see General section Logging
`"NookDir": "/opt/iw/tm5",`	In this section the module working directory is specified. By default – `/opt/iw/tm5`
`"Permissions": {...},`	see General section Permissions
`"ResourceLimits": {...},`	see General section ResourceLimits
`"Startup": {...},`	see Configuration general settings
`}`	

1.12 expressd.conf

Content	Description
`{`	
`"Logging": {...}`	see General section Logging
`"NookDir": "/opt/iw/tm5",`	In this section the module working directory is specified. By default – `/opt/iw/tm5`
`"Expressd": {`	
`"HTTP": {`	HTTP objects interception configuration.
`"MaxFileMap": 131072,`	Maximum size of the memory mapped file (bytes).
`"MaxReadBuf": 131072,`	Buffer size limit. 131072 by default

"MinHeader": 10,	Minimum URL encoded text size (bytes) for one block of a variable, which will be sent to the content analysis server. `10` by default
"MinText": 0,	Minimum text size (bytes), for which content analysis will be performed. `0` by default. Changing this parameter enables to reduce the content analysis server load. It can be realised by refusal of text, which size is too small be able transferring significant messages.
"DecodeHttpContent": true,	Enable request content extracting if the value of the Content-Encoding header is one of the following: gzip, deflate, compress. `true` by default
"ZimbraMail": false,	Zimra mail interception. `false` by default
"ExtractHttpEntity": false,	Enable text extraction from encrypted request content using external decompressors. This procedure is used, if internal decoding procedure using zlib fails. `false` by default
"MaxMemoryBlock": 4096,	Maximum data size of POST-request (kilobytes), which could be stored in RAM. Large size blocks will be unloaded to temporary files. `4096` by default
"CharsetDetection": 0,	Charset detection method. `0` by default. In this case the charset is detected using routine method. After extracting in the context some texts of POST-requests might be displayed incorrectly. To fix it you could set the value `1`.
"OnlyPost": true	Only POST-requests interception. `true` by default
},	
"ExtractorCache": {	Extractor cache parameters.
"ExtractorCacheDepth": 0,	Maximum number of objects, stored in cache, default value is 0 (cache is disabled).
"ExtractorCacheClearExistingDir": true,	

`"ExtractorCacheMaxSize": 107374182400,`	Cache maximum size, reserved on a disk (in bytes). Default value - 107374182400 (100 Gb).
`"ExtractorCacheFileMaxSize": 10485760,`	File maximum size to store in cache (in bytes). Default value - 10485760 (10 Mb).
`"ExtractorCacheShards": 0`	Number of streams to store data in cache. If the value is 0 - the number of System streams, otherwise - the number of specified streams, preferable that it wasn't bigger than the System streams number, default value is - 0.
`},`	
`"ListenAddr": "0.0.0.0",`	Network interface address, where the objects listening process is started , outgoing from InfoWatch Device Monitor и DeviceLock. Default value `0.0.0.0`
`"ListenPort": 4101,`	Server port, on which the listening process starts. Default value `4101`
`"ThreadsNumber": 8,`	Maximum number of streams for concurrent **iw_expressd** process execution. Default value 4. Stremas increasing number improves the process performance, but increases the memory usage. **Attention!** To receive objects from InfoWatch Device Monitor correctly, set the same number of procesing streams as it was specified on InfoWatch Device Monitor server. The `NumberOfConnections` parameter is responsible to configure the number of InfoWatch Device Monitor processing streams in InfoWatch.DeviceMonitor.Server.exe.config configuration file.
`"DumpObjects": false,`	Enabling (true) or disabling (false) the possibility to save incoming objects in a queue. Default value `false`. **Note:** It is not recommended to change this value.
`"NumExtractorThreads": 0,`	• 0 value - an old mode. Thus, the number of extractors started is in accordance with the number of streams, and every object is to be totally, consistently processed by one stream (for example, a 100 files archive). • >0 value - a new mode. In this case, if the object contains the attachments (the archive), they are to be processed by maximum NumExtractorThreads streams; thus the maximum number of working streams can start at the same time only NumExtractorThreads umber of extractors.

"TempDir": "tmp",	Temporary files directory. Default value – /tmp
"MaxBinarySize": 1048576,	Maximum size of image object (bytes), which will be checked by the System whether it matches the installed fingerprints. Default value – 1048576
"DumpDir": "/tmp/dump",	Incoming objects queue directory (the DumpObjects parameter should be enabled). Default value –/tmp/dump
"FormatXmlContext": false,	Enabling (true) or disabling (false) XML context formatting. Used for improved readability. Default value false
"MaxLoadAvg": 10	Maximum system load average when the **iw_expressd** process is running (the threshold in nominal units). If the system load crosses the threshold, the process **iw_expressd** ceases to receive objects. As soon as the system load is below the threshold, receiving objects is resumed. Default value 10
},	
"Startup": {...},	see Configuration general settings
"Bookworm": {...}	see General section Bookworm
"DebugBreak": false,	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes
"ResourceLimits": {...},	see General section ResourceLimits
"Statistics": {...},	see General section Statistics
"Permissions": {...}	see General section Permissions
}	

1.13 extractors.conf

Content	Description
{	
"MaxRecursiveLevel": 100,	Maximum recursive level.
"TempDir": "tmp",	Temporary directory for decompreessed files.
"Dreamcatcher": "dreamcatcher"	Directory for files unable to decompress.
}	

1.14 filequeues.conf

Content	Description	Note
{		
"CheckPeriod": 1000,	File system timeout (seconds)	
"SMTPPath": "queue/smtp",	Path to the input queue **iw_messed**	
"ErrorPath": "queue/errors",	Path to the error queue	
"DBPath": "queue/db",	Path to the input queue **iw_x2x**	Output queue **iw_messed**
"AnalysisPath": "queue/analysis"	Path to the input queue **iw_analysis**	
}		

1.15 icap.conf

Content	Description
{	

"Logging" : {...}	see General section Logging
"NookDir" : "/opt/iw/tm5",	In this section the module working directory is specified. By default – /opt/iw/tm5
"Startup" : {...},	see Configuration general settings
"Bookworm": {...}	see General section Bookworm
"ExtractorCache": {	Extractors cache parameters.
"ExtractorCacheDepth": 0,	Maximum number of objects, stored in cache, default value is 0 (cache is disabled).
"ExtractorCacheClearExistingDir": true,	
"ExtractorCacheMaxSize": 107374182400,	Cache maximum size, reserved on the disk (in bytes). Default value - 107374182400 (100 Gb).
"ExtractorCacheFileMaxSize": 10485760,	File maximum size to store in cache (in bytes). Default value - 10485760 (10 Mb).
"ExtractorCacheShards": 0	Number of streams to store data in cache. If the value is 0 - the number of System streams, otherwise - the number of specified streams, preferable that it wasn't bigger than the System streams number, default value is - 0.
},	
"ICAP": {	

`"SocketIoDump": false,`	Save all data passing through Icap, including protocol data.
`"SessionTimeoutSec": 330,`	Idle period (seconds), once it expires, the session is to be interrupted.
`"MinDataLength": 10,`	Minimum data length (bytes) of URL-variable, which will be included in the text block, being passed to the content analysis module.
`"ListenPort": 1344,`	Port, on which ICAP server listens for HTTP requests, outgoing from proxy server with ICAP client. It is fine to use port numbers starting from `1025`
`"IcapDumpPath": "",`	Path to saved objects, passed through Icap.
`"LogTimer": false,`	HTTP requests processing time logging. To enable logging set `true`
`"MaxAsyncThreads": 8192,`	Maximum number of streams for asynchronous processing of data interrupted by Icap (if "AsyncCheck": true).
`"MaxConnections": 100,`	Maximum number of connections
`"NumExtractorThreads": 0,`	• 0 value - an old mode. Thus, the number of extractors started is in accordance with the number of streams, and every object is to be totally, consistently processed by one stream (for example, a 100 files archive). • >0 value - a new mode. In this case, if the object contains the attachments (the archive), they are to be processed by maximum NumExtractorThreads streams; thus the maximum number of working streams can start at the same time only NumExtractorThreads number of extractors.
`"DisableIPv6": false,`	Disable (`DisableIPv6 = true`) or enable (`DisableIPv6 = false`) IPv6 connection support. If IPv6 support is disabled on the ICAP server, **iw_icap** will start and function in the normal mode only if `DisableIPv6 = true`

"AsyncCheck": true,	First, ignoring the data, then starting the data analysis. Default value `false`
"PathTemporary": "tmp/icap",	Path to ICAP server temorary files (default value`/opt/iw/tm5/tmp/icap`).
"ErrorHTML": "etc/error.html",	Path to HTML file, containing a message, to be displayed in web-browser, if a user request was blocked by the System. Default value `etc/error.html`. (Path is specified with regard to the current directory, which is the root directory of the System).
"ZimbraMail": false,	Zimbra mail server parameter.
"MaxMemoryBlock": 4096,	Maximum memory size, which is occupied by one object.
"LogBlock": false,	Blocked HTTP requests logging. Default value `false`
"ForceKeepAlive": true,	Use one TCP connection for sending and receiving multiple HTTP requests and responses instead of opening a new connection for every request-response pair.
"FormatXmlContext": false,	Enable (true) or disable (false) XML context formatting. Used for improved readability.
"AllMethods": false,	Enable all types of HTTP requests (POST and PUT requests) processing. Default value `false`
"MinTextLength": 5	Minimum text size (bytes), for which content analysis will be performed. Changing this parameter enables to reduce the content analysis server load. It can be realised refusing the textcontent analisys, which size is too small to contain valuable messages.
},	
"DebugBreak": false,	To send or not to send SIGTRAP (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.

"ResourceLimits": {...},	see General section ResourceLimits
"Statistics": {...},	see General section Statistics
"Permissions": {...}	see General section Permissions
}	

1.16 image2text_fre_batch.conf

Content	Description
{	
"DebugBreak": false,	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
"FREngine": {	OCR Abbyy Fine Reader engine settings.
"ImageFormats": {	Size limits for images to be processed.
"default": {	Default values
"MinHeightInPx": 12,	Minimum height of image (pixels).
"MinLengthInPx": 140,	Minimum length of image to be sent.
"MinSizeInKb": 200	Minimum size of image to be sent (Kb).
"MaxSizeInKb": 1536,	Maximum size of image to be sent (Kb).
}	
"GIF": {	Redefining of default values (section default) for gif format images.

"MinSizeInKb": 200	Minimum size of image to be sent (Kb).
},	
"PNG": {	Redefining of default values (section default) for png format images.
"MinSizeInKb": 200	Minimum size of image to be sent (Kb).
},	
"JPEG": {	Redefining of default values (section default) for jpeg format images.
"MinSizeInKb": 200	Minimum size of image to be sent (Kb).
}	
},	
"ABBYYProfile": "etc/FRProfile.ini",	Path to engine settings.
"Pwd": "Type password for serial here.",	Password:hsgsldk3we918nc
"SerNum": "Type serial number here."	Serial number: SWRD-1101-1004-3071-2095-4370
},	
"Logging": {...}	see General section Logging
"NookDir": "/opt/iw/tm5",	In this section the module working directory is specified. By default – /opt/iw/tm5
"Permissions": {...},	see General section Permissions
"ResourceLimits": {...},	see General section ResourceLimits

"Startup": {...},	see Configuration general settings
}	

1.17 image2text_ts.conf

Content	Description
{	
"DebugBreak": false,	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
"Logging": {...}	see General section Logging
"NookDir": "/opt/iw/tm5",	In this section the module working directory is specified. By default – `/opt/iw/tm5`
"Permissions": {...}	see General section Permissions
"ResourceLimits": {...},	see General section ResourceLimits
"Startup": {...},	see Configuration general settings
"Tesseract": {	OCR Tesseract engine settings.
"ImageFormats": {	Size limitation for images processed.
"default": {	Default values.
"MinHeightInPx": 12,	Minimum image height (pixels).
"MinLengthInPx": 140,	Minimum image lenght (pixels)

"MinSizeInKb": 200,	Minimum size of the picture to be sent (Kb).
"MaxSizeInKb": 1536,	Maximum size of the picture to be sent (Kb).
}	
"GIF": {	Redefining the default values (section default) for gif format images.
"MinSizeInKb": 4	Minimum size of the picture to be sent (Kb).
},	
"PNG": {	Redefining the default values (section default) for png format images.
"MinSizeInKb": 1	Minimum size of the picture to be sent (Kb).
},	
"JPEG": {	Redefining the default values (section default) for jpeg format images.
"MinSizeInKb": 2	Minimum size of the picture to be sent (Kb).
}	
},	
"DiagnosticMode": false,	Enable diagnostic mode. Error messages will be written by the extractor in an output file.
"TesseractDataPath": "ocr",	Path to Tesseract service data.
"TesseractLanguages": "eng,rus"	Recognizable languages addition.

`    }`	
`}`	

1.18 indexer.conf

Content	Description
`{`	
`    "Bookworm": {...}`	see General section Bookworm
`    "DebugBreak": false,`	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
`    "Indexer": {`	Indexer configuration is stored in the file. Indexing parameters are applied to **iw_indexer** module. In the `Indexer` section interaction with DB parameters and indexing methods are specified.
`        "ArchiveDir": "sphinx_archive",`	Path to the archived indexes directory. If the working index construction as per event areas is disabled (false), the words, found via full-text search will not be highlited.
`        "BuildIndexByContent": true,`	Enable extended indexing. If the working index construction as per event areas is disabled (false), the words found via full-text search will not be highlited in short form preview.
`"BuildIndexZoned": false,`	Zone index. Once enabled - new tablespaces are to be indexed only within the zone index. All the rest old indexes will be stored.
`        "DBPrefetchRowCount": 131072,`	Number of rows, fetched from DB at a time.
`        "DebugNoCleanTemp": false,`	Do not delete temporary files *.xmlpipe2*. (Use `true` only for debugging purposes).

`"ExpireDeltaSecs": 43200,`	After this period of time delta indexes are being deleted since the new tablespaces were added.
`"FetchConcurrency": 0,`	Number of connections with DB and streams for text objects loading and `xmlpipe2` files generation. Default value: 0 (is equal to `ProcManConcurrency`, divided into the number of index types being under construction (zonal index is not taken into consideration): • general index only; • general index and index by contents.
`"FetchSize": 1200,`	Number of objects, requested from DB by the service for later indexing .
`"IgnoreMalaysianDict": true,`	Disable malaysian morphology.
`"IndexExactWords": false,`	Exact match. The value affects the *compatible magic* index, i.e. reindexing is not required and not performed, but new documents are added to other indexes and the search does work in new and old index files.
`"IndexRotateTimeoutInMs": 60000,`	Index rotation time (msec).
`"MinWordLen": 1,`	The parameter affects the **min_word_len** value in the index configuration **searchd**. The value of the parameter determines the minimum word length to be indexed. If the length of a word is shorter than the value, the search by these words does not work. Nonetheless, it affects the indexed word distance, thus, it should be considered, when constructing search queries with the exact phrase match. Experimental parameter. It is expected that the 2 or 3 value will help to decrease the index file size with no sacrifice of search quality. Range: from 1 to 42. Exact match. The value affects the *compatible magic* index, i.e. reindexing is not required and not performed, but new documents are added to other indexes and the search does work in new and old index files.
`"PipeDir": "tmp/sphinx",`	Temporary files directory needed for index construction.
`"ProcManConcurrency": 0,`	Maximum number of concurrently started indexing processes (automatically determine from the number of CPU cores and equal to it).

`"SearchdPath": "/usr/bin/searchd",`	Path to **iw_searchd**. It can be different depending on RHEL or Astra Linux.
`"ServicePath": "/sbin/service",`	Path to the service script.
`"SphinxBaseDir": "/var/lib/sphinx",`	Directory for the **w_searchd** daemon index files. Default value: `/var/lib/sphinx`
`"SphinxConfigDir": "etc/sphinx",`	Directory for the **iw_searchd** daemon generated configuration files. Default value: `etc/sphinx`
`"SphinxTMConfigPath": "etc/sphinx.conf",`	Path to Sphinx systemic configuration. Default value: `etc/sphinx.conf`
`"TarPath": "/bin/tar",`	Path to a file archiver. Default value: `/bin/tar`
`"TextPrefetchSizeInMb": 1024,`	Indexed object size limit. Default value: `1024`
`"WaitTimeInSecs": 30`	Time between attempts to retrieve objects from BD. Default value: 30
`"CharTable": ""`	Table of symbols. Parameter enabling is optional. To be used when it is contained within the configuration file. Once is absent, the table of symbols is to be generated by default ("0..9, _, a..z, U+430..U+44F, U+451, A..Z->a..z, U+401->U+451, U+410..U+42F->U+430..U+44F").
`},`	

`"Logging": {...}`	see General section Logging
`"NookDir": "/opt/iw/tm5",`	In this section the module working directory is specified. By default – `/opt/iw/tm5`
`"Permissions": {...}`	see General section Permissions
`"ResourceLimits": {...},`	see General section ResourceLimits
`"Startup": {...},`	see Configuration general settings
`}`	

1.19 kicker.conf

Content	Description
`{`	
`"Startup": {...},`	see Configuration general settings
`"Permissions": {...},`	see General section Permissions
`"Logging": {`	Logging configuration.
`"Backends": {`	Backends list.
`"DefaultDirectory": "/var/log/infowatch/",`	Log files directory.
`"Descriptions": {`	Format description for every logging type and specific settings.
`"File": {`	Output into separate file (file creation directory is specified within `DefaultDirectory` parameter).
`"FileName": [`	Filename, where the log is to be written.

"web-console-error.log",	
"web-console-agent.log",	
"web-console-blackboard.log",	
"web-console-crawler.log",	
"web-console-notifier.log",	
"web-console-report.log",	
"web-console-selection.log"	
]	
}	
}	
}	
}	
}	

1.20 license.conf

Content	Description
{	
"Service": {	Section for license services settings.
"Name": "licserv"	Service name to register in **Consul**.

"WaitIntervalInSec": 5,	Within this time interval (in seconds) repeated attempt to register in **Consul** is to be done, in case it was unavailable or not operating.
"Licensee": "Trial User",	Licensee name
"AttemptsCount": 200	Number of attempts to find the license server when starting the license client.
}	
}	

1.21 licensed.conf

Content	Description
{	
"DebugBreak": false,	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
"LicenseServer": {	Section for license server setting.
"Path": "etc/licenses"	Path from product root to licenses folder.
},	
"Logging": {...},	See General section Logging
"NookDir": "/opt/iw/tm5",	In this section the module working directory is specified. By default – `/opt/iw/tm5`.
"Permissions": {...}	See General section Permissions
"ResourceLimits": {...},	See General section ResourceLimits

"Discovery": {...}	See Common section Discovery
"Startup": {...},	See Configuration general settings
"ThriftServers": {...}	See General section ThriftServers
}	

1.22 lua.conf

Content	Description
{	
"Server": {	Server configuration block.
"Port": 9988,	Port
"Host": "127.0.0.1"	Host
}	
"Luaengine": {	Luaengine configuration block.
"NumRetries": 3	Number of trials to send an object into luaengined, if the processing is being interrupted due to server connection error.
}	
}	

1.23 luaengined.conf

Содержимое	Описание
{	

`"Ident": {`	Description of settings for data provider(LDAP, DNS).
`"CacheTTL": 60`	Data validity time iw_ident.
`},`	
`"Logging": {...}`	see General section Logging
`"ThriftServers": {...}`	see General section ThriftServers
`"NookDir": "/opt/iw/tm5",`	In this section the module working directory is specified. By default – `/opt/iw/tm5`.
`"Startup": {...},`	see Configuration general settings
`"Bookworm": {...}`	see General section Bookworm
`"ContextUnwinder": {`	Contex processing rules. Mostly they are groupped by service, object type and protocol.
`"ContextRules": "etc/rules.xml",`	Preset contex processing rules.
`"ContextCustomRules": "etc/custom_rules.xml"`	Custom rules of contex processing.
`},`	
`"Lua": {`	
`"Headers": "etc/config/lua/vademecums/headers.list",`	Used headers guide.
`"Vademecums": {`	Identification guides.
`"Perimeters": "etc/config/lua/vademecums/perimeters.bin",`	Perimeters identification guide.
`"GroupMembersCount": "etc/config/lua/vademecums/group_members_count.bin",`	Group membership guide.

"WorkstationContacts": "etc/config/lua/vademecums/workstation_contacts.bin",	Workstations guide.
"PersonContacts": "etc/config/lua/vademecums/person_contacts.bin",	Person's contacts guide.
"PerimeterWorkContacts": "etc/config/lua/vademecums/perimeter_work_contacts.bin",	Guide to identify perimeters by person's working contacts and groups.
"Applications": "etc/config/lua/vademecums/applications.bin",	Applications guide.
"Groups": "etc/config/lua/vademecums/groups.bin",	Groups guide.
"Webform": "etc/config-perm/lua/vademecums/webform.bin",	Web-form guide (used for POST-requests contents marking).
"IdentityStatus": "etc/config/lua/vademecums/identity_status.bin",	Status of Identification element (for example, "Under control", "On trial period", etc.).
"GroupContacts": "etc/config/lua/vademecums/group_contacts.bin",	Goups contacts guide.
"Resources": "etc/config/lua/vademecums/resources.bin"	Web-resources list by categories.
},	
"MaxThreads": 8,	Maximum number of processing streams.
"UserScript": "etc/scripts/process.lua",	User lua-script. To be performed after the system one.
"SystemScript": "etc/scripts/system.lua"	System lua-script.

`"SessionTimeoutInSec": 60,`	Session lifecycle in case it was not contacted within the period specified (In seconds). In case the value is "0", the session will not be deleted. Default value is 60.
`"DumpConf": {}`	Luaengined dumps filtering configuration section. For details, see Filtering of luaengined dumps
`},`	
`"DebugBreak": false,`	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
`"ResourceLimits": {...},`	see General section ResourceLimits
`"Permissions": {...}`	see General section Permissions
`}`	

1.24 messed.conf

Content	Descriptionx
`{`	
`"Messed" : {`	
`"HeloDomain": "smtp.company.com",`	HELLO SMTP-dialogue value. Default value is `smtp.company.com`
`"WorkerThreads": 8,`	Maximum number of streams to perform **iw_messed** parallel process. Default value is `8`. Strems increase will grow the process performance, but memory usage will also grow.
`"BookwormCacheDuration": 15,`	**Iw_bookworm** cash validity time (seconds).

"NumExtractorThreads": 0,	• 0 value - an old mode. Thus, the number of extractors started is in accordance with the number of streams, and every object is to be totally, consistently processed by one stream (for example, a 100 files archive). • >0 value - a new mode. In this case, if the object contains the attachments (the archive), they are to be processed by maximum NumExtractorThreads streams; thus the maximum number of working streams can start at the same time only NumExtractorThreads number of extractors.
"Relay": "127.0.0.1",	Full domain name of mail relay-server where e-mail is to be redirected. It is used to be identified within mail protocol. It is set during installation.
"RelayPort": 2020,	Mail relay-server port, where e-mail is redirected. It is set during the installation.
"Timeout": 1200,	Time, when attempts to deliver SMTP-mails are taken (seconds). Upon the expiry of time specified the e-mail is to be sent to DB. Default value is `1200`
"FormatXmlContext": false	XML formatting. Used to perform debugging. Default value is `–false`
},	
"ExtractorCache": {	Parameteres of extractors cache.
"ExtractorCacheDepth": 0,	Maximum number of objects, stored in cache, default value is 0 (cache is disabled).
"ExtractorCacheClearExistingDir": true,	
"ExtractorCacheMaxSize": 107374182400,	Cache maximum size, reserved on the disk (in bytes). Default value - 107374182400 (100 Gb).

`"ExtractorCacheFileMaxSize": 10485760,`	File maximum size to store in cache (in bytes). Default value - 10485760 (10 Mb).
`"ExtractorCacheShards": 0`	Number of streams to store data in cache. If the value is 0 - the number of System streams, otherwise - the number of specified streams, preferable that it wasn't bigger than the System streams number, default value is - 0.
`},`	
`"Statistics": {...}`	see General section Statistics
`"Logging": {...}`	see General section Logging
`"NookDir": "/opt/iw/tm5",`	In this section the module working directory is specified. By default `/opt/iw/tm5`.
`"Startup": {...},`	see Configuration general settings
`"Bookworm": {...},`	see General section Bookworm
`"DebugBreak": false,`	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
`"ResourceLimits": {...},`	see General section ResourceLimits
`"Permissions": {...}`	see General section Permissions
`}`	

1.25 oracle.conf

Content	Description
{	
"NLS_LANG": "AMERICAN_AMERICA.AL32UTF8",	Encoding, specifying DB localisation.
"Username": "iwtm_linux",	Linux-part account username.
"ORACLE_HOME": "/u01/app/oracle/product/db_1",	ORACLE_HOME environment veriable value.
"Password": "xxXX1234",	Linux-part account password.
"ConnString": "iwtm"	DB server connection line (server screen name from **tnsnames.ora** file).
}	

1.26 pas.conf

Content	Description
{	
"DebugBreak": false,	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
"Logging": {...},	see General section Logging
"NookDir": "/opt/iw/tm5",	In this section the module working directory is specified. By default – `/opt/iw/tm5`.
"Permissions": {...},	see General section Permissions
"ProtectedDocuments": {	
"ConfigPath": "etc/config/pas/protected_documents.xml",	Path to configuration file, containg the connections between elements of technology control and protection object.

"EnableSchemaCheck": true,	Xml check enabling on xsd (disabling increases greatly the configuration download speed). Default value – `true`
"SchemaPath": "etc/protected_documents/protected_documents.xsd"	Path to the file with xml configuration scheme.
},	
"ResourceLimits": {...},	see General section ResourceLimits
"Startup": {...},	see Configuration general settings
"ThriftServers": {...}	see General section ThriftServers
}	

1.27 postgresql.conf

Content	Description
{	
"DB": "postgres",	DB name
"Host": "localhost",	Host to be connected
"Password": "xxXX1234",	Linux-part user account password
"Port": 5433,	Port to be connected
"Username": "iwtm_linux"	Linux-part username
}	

1.28 proxy.conf

Content	Description
{	

`"Logging": {...},`	see General section Logging
`"NookDir": "/opt/iw/tm5",`	In this section the module working directory is specified. By default – /opt/iw/tm5.
`"NumExtractorThreads": 0,`	• 0 value - an old mode. Thus, the number of extractors started is in accordance with the number of streams, and every object is to be totally, consistently processed by one stream (for example, a 100 files archive). • >0 value - a new mode. In this case, if the object contains the attachments (the archive), they are to be processed by maximum NumExtractorThreads streams; thus the maximum number of working streams can start at the same time only NumExtractorThreads number of extractors.
`"Niceness": -8,`	Priority value (nice) for protocol stream-handlers.
`"Startup": {...}`	see Configuration general settings
`"Bookworm": {...}`	see General section Bookworm
`"MemoryLimits": {`	Memory limits restrictions.
`"RejectSessionsLimit": 4294967296,`	Maximum memory capacity, available to use, exceeding its limit new sessions receipt is rejected (0 - no limits).
`"StopAllocationLimit": 0,`	Maximum memory capacity, to be used for sessions processing (0 - no limits).
`"DropSessionsLimit": 0`	Maximum memory capacity, available to use, exceeding its limit one or more active session is to be over (0 - no limits).
`},`	

"DebugBreak": false,	If SIGTRAP should be sent (SIGBREAK on Windows) while any exception handling. Used for debugging purposes.
"AnalysisClient": {	Configuration of data analysis client
"Cas": {	Configuration for **iw_cas**
"SleepIntervalInSec": 5,	Interval between attempts to connect
"ConnectTryCount": 200	Number of attempts to connect to **iw_cas** service
},	
"Pas": {	Configuration for **iw_pas**
"SleepIntervalInSec": 5,	Interval between attempts to connect
"ConnectTryCount": 200	Number of attempts to connect to **iw_pas** service
}	
},	
"ExtractorCache": {	Parameteres of extractors cache
"ExtractorCacheDepth": 0,	Cache depth, default value is 0 (cache is disabled)

"ExtractorCacheClearExistingDir": true,	Flag, indicating if the directory content of daemon cache should be deleted once started, if it's already existed and not the empty one. Defauls value is - true (to delete)
"ExtractorCacheMaxSize": 107374182400,	Cache maximum size, reserved on the disk (in bytes). Default value - 107374182400 (100 Gb)
"ExtractorCacheFileMaxSize": 10485760,	File maximum size to store in cache (in bytes). Default value - 10485760 (10 Mb)
"ExtractorCacheShards": 0	Number of streams to store data in cache. If the value is 0 - the number of System streams, otherwise - the number of specified streams, preferable that it wasn't bigger than the System streams number, default value is - 0.
},	
"module": {	**Iw_proxy** modules list and its parameters.
"smtp": {	
"Statistics": {...}	see General section Statistics
"MaxMsgSize": 52428800,	SMP-message size (bytes), exceeding this message cannot be processed by System. Default value is – 52428800.
"iscp": {	Network data capture location, where **iw-sniffer** is running.
"TCPKeepaliveProbing": {	Monitoring of connection activity section

`"ProbesIntervalSec": 2,`	The interval (seconds) that divides sending of keep alive packages
`"ProbesCount": 5,`	Number of keep alive packages being sent
`"StartProbingInSec": 15,`	The time (seconds) during wich no connection activity is detected and after it passes, the system starts sending keep alive packages
`"Enabled": true`	Whether the option is enabled or disabled
`},`	
`"ListenArea": "smtp",`	Filter name, defined in iw_sniffer configuration, which is to be used to get the data.
`"Host": "localhost",`	Server address, where **iw_sniffer** is running.
`"Port": 4301`	Port, used by **iw_sniffer** to connect to clients.
`},`	
`"DumpMode": 0,`	Number is a bit mask, which includes different dump logs in accordance with its binary representation. Default value is `0`. Possible values: • 1 - saving data, • 2 - saving blocks sizes of data, • 3 - saving data and blocks sizes of data
`"ReadBufferSize": 32768,`	Data size, got from **iw_sniffer** for once. Default value - `32768`

`"DumpPath": "dump.smtp",`	Path to dump file. Default value - `dump.smtp`
`"FormatXmlContext": false`	XML formatting. To perform checkout. Default value - `false`.
`},`	
`"icq": {`	
`"MessageWindow": 10,`	Number of dialogue mesages, reaching it ICQ-dialogue is to be stored in the file queue. Default value - `10`.
`"DataPoolSize": 1024,`	Allocated memory maximum capacity to process connections, Mbs. Default value - `1024`.
`"DefaultCodepage": "cp1251",`	ICQ incoming traffic coding. Default value - `cp1251`.
`"Statistics": {...},`	see General section Statistics
`"iscp": {`	Network data capture location, where **iw_sniffer** is running:
`"TCPKeepaliveProbing": {`	Monitoring of connection activity section
`"ProbesIntervalSec": 2,`	The interval (seconds) that divides sending of keep alive packages
`"ProbesCount": 5,`	Number of keep alive packages being sent

`"StartProbingInSec": 15,`	The time (seconds) during wich no connection activity is detected and after it passes, the system starts sending keep alive packages
`"Enabled": true`	Whether the option is enabled or disabled
`},`	
`"ListenArea": "icq",`	Filter name, specified in **iw_sniffer** configuration, which is to be used to get the data.
`"Host": "localhost",`	Server address, where **iw_sniffer** is running.
`"Port": 4301`	Port, used by **iw_sniffer** to connect to clients.
`},`	
`"FakeFileTransferPort": 62225,`	Port, used to block files transfer attempts when redirecting. Default value - `62225`
`"DialogTimeout": 5,`	Period (minutes), when it is required saving dialogue in the file queue after the last ICQ-message was intercepted. Default value - `5`
`"FormatXmlContext": false,`	XML formatting. Used for debugging purposes. Default value - `false`
`"DialogBytesCount": 500`	Dialogue size (bytes), when ICQ-dialogue is stored in the file queue reaching it. Default value - `500`
`},`	

`"http": {`	
`"FakeFileTransferPort": 62225,`	Port, used to block files transfer attempts when redirecting. Default value - `62225`
`"Statistics": {...},`	see General section Statistics
`"IcqIgnoreHosts": "",`	Disabling of ICQ sessions specific hosts intercept
`"DecodeHttpContent": true,`	Enabling of quiry content unpacking when Content-Encoding heading is present and its value is gzip, deflate or compress. default value - `true`
`"IcqDumpPath": "",`	Path to ICQ traffic dump file
`"iscp": {`	Network data interception location, where **iw_sniffer** is running:
`"TCPKeepaliveProbing": {`	Monitoring of connection activity section
`"ProbesIntervalSec": 2,`	The interval (seconds) that divides sending of keep alive packages
`"ProbesCount": 5,`	Number of keep alive packages being sent
`"StartProbingInSec": 15,`	The time (seconds) during wich no connection activity is detected and after it passes, the system starts sending keep alive packages
`"Enabled": true`	Whether the option is enabled or disabled

`},`	
`"ListenArea": "http",`	Filter name, set in **iw_sniffer** configuration to be used to get data.
`"Host": "localhost",`	Server address, where **iw_sniffer** is running
`"Port": 4301`	Port used by **iw_sniffer** to connect clients.
`},`	
`"AuthContext": 0,`	Disabling HTTP inqueries storage with no authentication. Possible values are: • `0` – storing queries with no authentication; • `1` – queries with "*407*" respond from proxy-server are not to be stored, • `2` – NTLM Type 1, or with no *Proxy-Authorization queries are not to be stored.* Thus SkipNegotiate parameter value is not important: System operates the way its value was On. Default value - `0`
`"MinHeader": 10,`	Minimum text size (bytes) for one block of URL coding variant to be sent to content analysis server. Default value - `10`.
`"DialogTimeout": 5,`	Period (minutes), when it is required saving dialogue in the file queue after the last ICQ-message was intercepted above HTTP. Default value - `5`
`"HttpDumpPath": "",`	Path to HTTP traffic dump file
`"MaxMemoryBlock": 4096,`	Maximum data size of POST-request (kilobytes) which could be stored in RAM. Large size blocks will be unloaded to temporary files. Default value - `4096`
`"CharsetDetection": 0,`	Charset detection method. `0` by default. In this case charset is detected using the general method. After extracting in the context some POST-requests might be displayed incorrectly. To fix it you could set `1`.

`"WCGAuthCache": false,`	Feature enabling authorised information caching function to integrate with WebSense WSG. To enable caching true value should be set. default value - `false`
`"StatusCheck": false,`	HTTP request delivery installation depending on status code, returned by web server or proxy server. If the value set is true, code analysis is performed to display true HTTP request delivery state. Default value - `false`
`"IcqFilter": true,`	ICQ-messages intercept option (if the value is true), delivered by proxy server (above HTTP). Option is enabled by default
`"DataPoolSize": 1024,`	Maximum RAM size for connection handling (Mb). Default value - `1024`
`"TransferTimeout": 300,`	Stop of active connection data transfer
`"InactiveConnectionTimeout": 172800,`	Closing of communication session since last time receiving data. By default - 172800 сек
`"SkipNegotiate": false,`	Disabling of NTLM Type 1 HTTP requests queue storage (required to remove inquiry dublicates). Default value - false. Implementing the deployment scheme, when HTTP traffic copy is intercepted via Sniffer, the value should be `false`.
`"HighVolumeErrors": {`	Error messages and HTTP protocol parser warnings limiter:
`"switchToNormalThreshold": 300,`	Threshold number of messages, displayed during the period specified in errorsWindow. Decrease of displayed messages to the specified number causes limitator swithing to normal mode, where every 5 minutes the number of errors occured in the last "errorsWindow seconds" is displayed.
`"errorsWindow": 300,`	Period, when efficient number of displayed messages is monitored. By default - 300 seconds

`"switchToFailingThreshold": 1500,`	Maximum number of messages handled in the mode "display every 5 minutes the number of error messages" during the period, specified in errorsWindow. Exceeding this number causes switching to "display all messages with no limits" mode until the number of messages in "errorsWindow seconds" is below switchToNormalThreshold value.
`"mode": "normal"`	Errors counting mode (- debug version) . By default - normal • debug - the rest parameteres are ignored, all error messages are displayed; • normal - until error messages in the last errorsWindow seconds are less than switchToFailingThreshold - display every 5 minutes the number of errors occured, when exceeding - start displaying all error messages until they are less than switchToNormalThreshold.
`},`	
`"MinText": 0,`	Minimum size of text block to send in **iw_cas**. Default value - `0`
`"OnlyPost": true,`	POST inquiries interception. Default value - `true`
`"LogBlock": false,`	Logging messages about block of HTTP inquiries. Logging is processed when the value is - true. By default logging is disabled – `false`
`"FormatXmlContext": false,`	XML formatting. Used for debugging purposes. Default value - `false`
`"LogAuth": false,`	Logging the binding of user log-in information and his/her POST inquiries. Default value - `false`
`"MessageWindow": 10,`	Number of dialogue messages, reaching it ICQ dialogue (when ICQ is intercepted over HTTP) to be stored in the file queue. Default value - 10
`"DefaultCodepage": "cp1251",`	ICQ incoming traffic coding. default value - `cp1251`

`"IcqKnownServers": "205.188.8.0/24:443, 64.12.30.0/24:443,`
 	
`205.188.3.0/24:443, 205.188.251.0/24:443,`
 	
`64.12.104.0/24:443, 64.12.28.0/24:443,`
 	
`205.188.210.0/24:443, 64.12.73.0/24:443,`
 	
`64.12.201.0/24:443, 205.188.248.0/24:443",`
	IP ranges for ICQ servers while intercepting ICQ over HTTP. Few ranges are listed with comma, for example: " `205.188.251.0/24:443, 64.12.30.0/24:443, 205.188.8.8:443` "

`"WCGAuthTTL": 900,`	Authorised information caching time, if `WCGAuthCache` parameter is set up (seconds). Default value - 900
`"ZimbraMail": false,`	Zimbra mail interception. Defaгде value - false
`"ExtractHttpEntity": false,`	Enabling text extraction procedure from inguiry coded information by means of external extractors. This procedure is applied while the fail of internal decoding procedure by means of zlib. Default value - `false`
`"IcqSessionTimeOut": 10800,`	ICQ session inactive time, when traffic interception is over (seconds). Default value - `10800`

`"SkipStat4XX": false,`	Disables HTTP inquiries storage in the queue with proxy serve respond "*4XX*", where *XX* – any numerals. Default value - `false` .
`"UnsafeMode": false,`	The mode where in the time of intercept error the process operation is disabled and dump file is created. By default - `false`
`"DialogBytesCount": 500`	Dialogue size (bytes), once it is reached ICQ dialogue (while ICQ intepcept over HTTP) is to be stored in the file queue. Default value `500`
`},`	
`"void": {`	
`"Statistics": {...},`	see General section Statistics
`"iscp": {`	Network location of data interceptor, where **iw_sniffer** is running:
`"TCPKeepaliveProbing": {`	Monitoring of connection activity section
`"ProbesIntervalSec": 2,`	The interval (seconds) that divides sending of keep alive packages
`"ProbesCount": 5,`	Number of keep alive packages being sent
`"StartProbingInSec": 15,`	The time (seconds) during wich no connection activity is detected and after it passes, the system starts sending keep alive packages
`"Enabled": true`	Whether the option is enabled or disabled
`},`	

`"ListenArea": "void",`	Filter name, set in **iw_sniffer** configuration, which is to be used to get data.
`"Host": "localhost",`	Server address, where **iw_sniffer** is running.
`"Port": 4301`	Port, used by **iw_sniffer** to connect the clients.
`},`	
`"Dump": false`	Saving obtained data on CD. Used for debugging purposes.
`}`	
`},`	
`"ProcessingThreads": 0,`	Number of streams, handling the data from **iw_sniffer**. If the value is 0, the number of used streams will calculated automatically by means of CPU.
`"ResourceLimits": {...},`	see General section ResourceLimits
`"Permissions": {...},`	see General section Permissions
`}`	

1.29 qmover_client.conf

Content	Description
`{`	

`"ChannelWidth" : 128,`	Channel width, data downloading speed in Traffic Monitor, kilobits per sec. Can be indirectly limited by `WindowSize` parameter.
`"DebugBreak": false,`	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
`"ListenerIP": "127.0.0.1",`	Host party IP-address is - **qmover_server**.
`"Logging": {...},`	see General section Logging
`"MaxFrameSize" : 1400,`	Data block maximum size, sent at a time.
`"NookDir": "/opt/iw/tm5",`	In this section the module working directory is specified. By default – `/opt/iw/tm5`.
`"Permissions": {...},`	see General section Permissions
`"Port": 16888,`	Server port. By default: `16888`
`"Queue": "queue/db",`	Objects queues directory, appropriate to this particular agent.
`"ResourceLimits": {...},`	see General section ResourceLimits
`"Startup": {...}`	see Configuration general settings
`"WindowSize": 100`	Data blocks maximum number, which can be sent with no confirmation.
`}`	

1.30 qmover_server.conf

Content	Description
`{`	

`"Clients": [`	Pairs massive "IP/Queue" (agent/directory).
`{`	
`"IP": "127.0.0.1",`	IP-address of the maintained agent.
`"Queue": "queue/db"`	Object queues directory according to this particular agent.
`}`	
`],`	
`"DebugBreak": false,`	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
`"Logging": {...},`	see General section Logging
`"NookDir": "/opt/iw/tm5",`	Module working catalogue is specified in the section. By default – `/opt/iw/tm5`.
`"Permissions": {...},`	see General section Permissions
`"Port": 16888,`	Server port. By default: `16888`
`"ResourceLimits": {...},`	Limits for Linux network settings are specified in the section.
`"Startup": {...}`	see Configuration general settings
`}`	

1.31 rammer.conf

Содержимое	Описание
`{`	
`"DebugBreak": false,`	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
`"Logging": {...},`	see General section Logging

`"NookDir": "/opt/iw/tm5",`	In this section the module working directory is specified. By default – `/opt/iw/tm5`.
`"Permissions": {...}`	see General section Permissions
`"Rammer": {`	
`"Mail": {`	
`"DeleteAfterSending": true,`	Delete objects after sending (true) or relocate into queue/final-errors (false).
`"Notifications": {`	Notifications sending control.
`"NotificationTextPath": "config-perm/rammer/notification_mail_pattern.xml",`	Notification mail pattern.
`"Officer": "officer@tester.com",`	Security officer's e-mail to send the notification.
`"Sender": "sender@tester.com"`	E-mail address where from the initial message containing notification of sending from error queue will be sent
`},`	
`"Relay": {`	Relay server setup.
`"RelayHost": "localhost",`	Full domain name of mail relay server, where the message is redirected. It is used to be identified within mail protocol. To be set during the installation.
`"RelayPort": 2020`	Port of mail relay server, where the message is redirected. To be set during the installation.
`},`	
`"SendOnDeliveryAbsence": true,`	To send object messages with unknown DeliveryState (true).

"SendOnTransportModeAbsence": true	To send object messages with unknown TransportMode (true).
},	
"QueuesPaths": {	Folders with the queues, where the daemon gets the objects from.
"ErrorQueues": [	Errors queues.
"queue/x2x-errors",	
"queue/errors",	Path to errors queue.
"queue/x2x_loader-errors"	
],	
"OutputQueue": "queue/final-errors"	Final queue, where the objects fall after the component processing.
},	
"TempDir": "tmp",	Path to temporary service files.
"WaitTimeSec": 5	Time slot, defining how often the component checks the file queues for events.
},	
"ResourceLimits": {...},	see General section ResourceLimits
"Startup": {...},	see Configuration general settings
}	

1.32 sample_compiler.conf

Content	Description
`{`	
`"Statistics": {...},`	See General section Statistics
`"Logging": {...},`	See General section Logging
`"ThriftServers": {...},`	See General section ThriftServers
`"Discovery": {...}`	See Common section Discovery
`"NookDir": "/opt/iw/tm5",`	In this section, the module working directory is specified. By default, `/opt/iw/tm5`.
`"Startup": {...},`	See Configuration general settings
`"Bookworm": {...},`	See General section Bookworm
`"EnableOCR": false,`	Enabling OCR extractor, able to store scanned standard documents like a text content standard. Default value - `false` **Note:** it is required to enable OCR in **warpd.conf** configuration file (`warp` section, value `EnableOCR:true`).
`"ErrorHandlers": {`	Errors processing strategy description for each technology.
`"autoling": "NoErrorsAllowedHandler",`	Is not used at present time.
`"exclusion": "NoErrorsAllowedHandler",`	Is not used at present time.

"form": "AtLeastOneSuccessHandlerWithCleanup",	Reference blanks. Default value - AtLeastOneSuccessHandlerWithCleanup (the compilation is considered to be successful if any reference document was successfully compiled. Reference document is considered to be compiled if any component of this document was successfully compiled. Choosing this strategy should admit that separate contents error information is wiped from the result and a client can get only successful contents compilations info).
"image_learn": "NoErrorsAllowedHandler",	Is not used at present time
"normal": "AtLeastOneSuccessHandlerNoCleanup",	Reference documents. Default value - AtLeastOneSuccessHandlerNoCleanup (similar to "AtLeastOneSuccessHandlerWithCleanup", but the content compilations error information is to be provided in conjuction with result).
"stamp": "NoErrorsAllowedHandler",	Reference stamps. Default value - NoErrorsAllowedHandler (any compilation error of any content results in an error of the whole compilation).
"table": "NoErrorsAllowedHandler"	Reference unloadings from DB. Default value - NoErrorsAllowedHandler (any compilation error of any content results in an error of the whole compilation).
},	
"UnsafeSignalHandlers": false,	If the processing details should be sent after the changes have been implemented. Used for debugging purposes.
"ExtractorCache": {	Extractors cache parameters
"ExtractorCacheDepth": 0,	Maximum number of objects stored in cache, default value - 0 (cache is disabled).
"ExtractorCacheClearExistingDir": true,	Flag specifying if the daemon cache directory content should be removed once started if it exists and not empty. The default value is - true (to remove).

`"ExtractorCacheMaxSize": 107374182400,`	Maximum size of cache on the drive (in bytes) The default value is 107374182400 (100 GB).
`"ExtractorCacheFileMaxSize": 10485760,`	Maximum file size to be placed into cache (bytes). The default value is 10485760 (10 MB).
`"ExtractorCacheShards": 0`	Number of streams to store data in cache. If 0 is specified the number of System's streams is considered, otherwise - the number of streams specified, preferable that it wasn't bigger than the system's streams number. Default value is - 0.
`},`	
`"DebugBreak": false,`	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
`"OutChunkSizeLimit": 1048576,`	Maximum size of chunk where the compilation results are returned. Default value - `1048576`
`"ResourceLimits": {...},`	See General section ResourceLimits
`"ThreadsCount": 5,`	Number of handling streams
`"Technologies": {`	Separate technologies configuration section
`"FingerprintMinBinFileSize": 256,`	Minimum size of binary reference document (bytes)
`"FormDelimitersPath": "etc/config-perm/cas/form_delimiters.json",`	Path to delimiters file. Used for reference form technology

`"FormStopWordsPath": "etc/config-perm/cas/form_stopwords.txt",`	Path to stop words glossary (ignored words) used to analyze forms (documents containing fields to be filled in).
`"FormMinRows": 2,`	Minimum number of fields in reference blank form
`"FingerprintMaxBinFileSize": 31457280,`	Maximum size of binary reference document
`"FingerprintMinTextFileSize": 256,`	Minimum size of text reference document (bytes)
`"ImageMatcherConfig": "etc/config-perm/cas/image-matcher.yml",`	Path to configuration of technology image analysis
`"TableStopWordsPath": "etc/config-perm/cas/table_stopwords.txt",`	Path to stop words glossary to analyze DB unloadings
`"FingerprintMaxTextFileSize": 31457280,`	Maximum size of text sample document (characters)
`"TableMinRows": 2,`	Minimum number of rows in a sample table for DB unloadings
`"TempDir": "tmp/analysis",`	Directory to store temporary files. Default value - `tmp/analysis`
`"VectorObjectMinSize": 800`	Minimum number of primitives to be extracted from vector image to be considered the standard ones. If it is extracted less than the number specified, the error occures: "File does not fit the standard".
`},`	

`"Permissions" : {...},`	See General section Permissions
`}`	

1.33 smtpd.conf

Content	Description
`{`	
`"Logging": {...},`	see General section Logging
`"NookDir": "/opt/iw/tm5",`	In this section the module working directory is specified. By default – `/opt/iw/tm5`.
`"Startup": {...},`	see Configuration general settings
`"DebugBreak": false,`	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
`"SMTPD": {`	**Iw_smtpd** daemon settings section.
`"Domain": "smtp.company.com",`	Full domain name of hosting SMTP-server, used for identity inside mail protocol. It is recommended to use TM server name, where **iw_smtpd** process is running.
`"MaxThreads": 8,`	Maximum number of streams to perform **iw_smtpd** parallel process. Default value is - `8`. Strems number growing will increase process performance, but memory usage will also grow.
`"MaxMsgSize": 104857600,`	E-mail maximum size (bytes). Default value is - `104857600`
`"ListenPort": 2025,`	Server port, where listening process is running. It is set during the installation.
`"ListenAddr": "0.0.0.0"`	Server network interface address, where listening process is running.It is set during the installation.
`},`	

"ResourceLimits": {...},	see General section ResourceLimits
"Permissions": {...}	see General section Permissions
}	

1.34 sniffer.conf

Content	Description
{	
"Use": {	
"SessionDump": false	If the intercepted packs, distributed by sessions are to be saved. Used for debugging purposes. SessionDump configuration part 1.
},	
"Statistics": {...},	see General section Statistics
"Logging": {...},	see General section Logging
"iscp": {	
"TCPKeepaliveProbing": {	Monitoring of connection activity section
"ProbesIntervalSec": 2,	The interval (seconds) that divides sending of keep alive packages
"ProbesCount": 5,	Number of keep alive packages being sent
"StartProbingInSec": 15,	The time (seconds) during wich no connection activity is detected and after it passes, the system starts sending keep alive packages

`"Enabled": true`	Whether the option is enabled or disabled
`},`	
`"ListenHost": "0.0.0.0",`	Network interface to get iscp connected. By default INADDR_ANY - for any interface to get.
`"ListenPort": 4301`	Server port, where listening process is running. Default value - `4101`
`},`	
`"NookDir": "/opt/iw/tm5",`	In this section the module working directory is specified. By default – `/opt/iw/tm5`.
`"Niceness": -15,`	Priority value (nice) for streams handling iscp-protocol.
`"UsedAreas": [`	Active filters from the list in the below section ListenAreas. Alternative, where every agent is to be connected to any ListenArea, is performed by title (set within sniffer client configuration - capstack or proxy). Inactive filters are assumed ("pcap").
`"capstack",`	
`"http",`	
`"icq",`	
`"smtp"`	
`],`	
`"Startup": {...},`	see Configuration general settings
`"DebugBreak": false,`	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.

`"SessionDump": {`	SessionDump configuration part 2.
`"BaseDirectory": "snif-sessions"`	Intercepted sessions storage location (if SessionDump = true).
`},`	
`"DumpFileDir": "dump-all",`	NOT USED
`"ResourceLimits": {...},`	see General section ResourceLimits
`"ListenAreas": {`	Every ListenArea - is a filter to select handling packs. The source of packs is a network interface (through tmcap core module) or pcap-file. ListenArea names are used by agents while connecting to sniffer.
`"capstack": {`	
`"MaxClient": 16,`	The number of clients to be connected to one ListenArea at one time.
`"Rules": [`	Chain of applied in sequence rules to choose the packs, captured for ListenArea given. The first rule is applied for every pack, where it suits.
`{`	
`"LoPort": 110,`	Range of ports, where thy given rule is applied to. Port affiliation to the range is verified this way: LoPort <= portnum <= HiPort.
`"IP": "0.0.0.0",`	If IP and Mask are not equal to zero, the following condition should be met: IP & Mask == IP, where & - bit-by-bit multiplication.
`"HiPort": 110,`	Range of ports, where the given rule is applied to. Port affiliation to the range is verified this way: LoPort <= portnum <= HiPort.

`"Policy": "ACCEPT",`	The rules are applied in sequence and when one of them is affected the rest are not applied, so if one pack is suitable for 2 rules, where one is DROP and the other is ACCEPT - the first from the list to be applied. From operation only ACEEPT and DROP are supported: • ACCEPT - stop checking the rest of rules, pass the pack for handling • DROP - stop checking the rest of rules, stop handling the pack
`"Mask": "0.0.0.0"`	Subnet mask
`},`	
`{`	
`"LoPort": 143,`	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
`"IP": "0.0.0.0",`	If IP and Mask are not equal to zero, the following condition should be met: IP & Mask == IP, where & - bit-by-bit multiplication.
`"HiPort": 143,`	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
`"Policy": "ACCEPT",`	The rules are applied in sequence and when one of them is affected the rest are not applied, so if one pack is suitable for 2 rules, where one is DROP and the other is ACCEPT - the first from the list to be applied. From operation only ACEEPT and DROP are supported: • ACCEPT - stop checking the rest of rules, pass the pack for handling • DROP - stop checking the rest of rules, stop handling the pack
`"Mask": "0.0.0.0"`	Subnet mask
`},`	
`{`	

`"LoPort": 993,`	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
`"IP": "0.0.0.0",`	If IP and Mask are not equal to zero, the following condition should be met: IP & Mask == IP, where & - bit-by-bit multiplication.
`"HiPort": 993,`	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
`"Policy": "ACCEPT",`	The rules are applied in sequence and when one of them is affected the rest are not applied, so if one pack is suitable for 2 rules, where one is DROP and the other is ACCEPT - the first from the list to be applied. From operation only ACEEPT and DROP are supported: • ACCEPT - stop checking the rest of rules, pass the pack for handling • DROP - stop checking the rest of rules, stop handling the pack
`"Mask": "0.0.0.0"`	Subnet mask
`},`	
`{`	
`"LoPort": 1352,`	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
`"IP": "0.0.0.0",`	If IP and Mask are not equal to zero, the following condition should be met: IP & Mask == IP, where & - bit-by-bit multiplication.
`"HiPort": 1352,`	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.

"Policy": "ACCEPT",	The rules are applied in sequence and when one of them is affected the rest are not applied, so if one pack is suitable for 2 rules, where one is DROP and the other is ACCEPT - the first from the list to be applied. From operation only ACEEPT and DROP are supported: • ACCEPT - stop checking the rest of rules, pass the pack for handling • DROP - stop checking the rest of rules, stop handling the pack
"Mask": "0.0.0.0"	Subnet mask
}	
],	
"Balancer": "IpPref",	Selecting balanced type of workload for Traffic Monitor servers, to avoid data processing delay and data packs loss. • By default InPref - traffic distribution between few server instances is performed basing on source_ip intercepted session (all client's traffic is processed by only one server), maximum number of agents, where the traffic is to be distributed is set by MaxClient parameter. • In Easy mode there are no limits on intercepted sessions distribution between servers, and the server with the lowest load is taken (not by CPU, but the amount of traffic from sniffer).
"Timeouts": {	Timeouts to handle TCP-connections, intercepted for the given ListenArea.
"OpenInSec": 120,	Time to get approval for session opening (response SYN,ACK).
"TailInSec": 15,	After the connection is closed, confirmations and replays may occur. Packs with the same parameters that the closed session has, coming after the closure within the period specified will belong to the closed one.
"CloseInSec": 120,	Time to get approval for session closure (response FIN).
"LiveInSec": 3600	Maximum time break between new packs arrival for open sessions.

} ,	
" QueueMemorySizeInBytes": 67108864,	Data memory capacity, ready to upload and collected within the given ListenArea. This memory is to be distributed between connected agents.
" Interface": "eth1"	Network interface name, where the core module will collect traffic for the given ListenArea.
},	
"pcap": {	
" Timeouts": {	Timeouts to handle TCP-connections, intercepted for the given ListenArea.
"OpenInSec": 120,	Time to get approval for session opening (response SYN,ACK).
"TailInSec": 15,	Packs expectation time (sec) to be delivered after the connection closure. In this case confirmations and replays may occur. Packs with parameters, similar to closed session parameters and coming after the closure within the period specified will belong to the closed one.
"CloseInSec": 120,	Time to get approval for session closure (response FIN).
"LiveInSec": 3600	Maximum time break between new packs arrival for open session.
} ,	
" PcapFile": "input.pcap",	Path to dump traffic file (PcapFile or Interface can be specified at a time).

"MaxClient": 16,	Number of agents to be connected at a time to one ListenArea.
"Balancer": "IpPref"	Selecting balanced type of workload for Traffic Monitor servers, to avoid data processing delay and data packs loss. By default - InPref (traffic distribution between few server instances).
},	
"icq": {	
"MaxClient": 16,	Number of agents to be connected at a time to one ListenArea.
"Rules": [	Chain of packs selection rules, consistently applied, captured for the given ListenArea. Every pack is under the first rule capable for it.
{	
"LoPort": 443,	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
"IP": "0.0.0.0",	If IP and Mask are not equal to zero, the following condition should be met: IP & Mask == IP, where & - bit-by-bit multiplication.
"HiPort": 443,	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
"Policy": "ACCEPT",	The rules are applied in sequence and when one of them is affected the rest are not applied, so if one pack is suitable for 2 rules, where one is DROP and the other is ACCEPT - the first from the list to be applied. From operation only ACEEPT and DROP are supported: • ACCEPT - stop checking the rest of rules, pass the pack for handling • DROP - stop checking the rest of rules, stop handling the pack
"Mask": "0.0.0.0"	Subnet mask

`},`	
`{`	
`"LoPort": 5190,`	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
`"IP": "0.0.0.0",`	If IP and Mask are not equal to zero, the following condition should be met: IP & Mask == IP, where & - bit-by-bit multiplication.
`"HiPort": 5190,`	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
`"Policy": "ACCEPT",`	The rules are applied in sequence and when one of them is affected the rest are not applied, so if one pack is suitable for 2 rules, where one is DROP and the other is ACCEPT - the first from the list to be applied. From operation only ACEEPT and DROP are supported: • ACCEPT - stop checking the rest of rules, pass the pack for handling • DROP - stop checking the rest of rules, stop handling the pack
`"Mask": "0.0.0.0"`	Subnet mask
`}`	
`],`	
`"Balancer": "IpPref",`	Selecting balanced type of workload for Traffic Monitor servers, to avoid data processing delay and data packs loss. • By default InPref - traffic distribution between few server instances is performed basing on source_ip intercepted session (all client's traffic is processed by only one server), maximum number of agents, where the traffic is to be distributed is set by MaxClient parameter. • In Easy mode there are no limits on intercepted sessions distribution between servers, and the server with the lowest load is taken (not by CPU, but the amount of traffic from sniffer).

"Timeouts": {	Timeouts to handle TCP-connections, intercepted for the given ListenArea.
"OpenInSec": 120,	Time to get approval for session opening (response SYN,ACK).
"TailInSec": 15,	After the connection is closed, confirmations and replays may occur. Packs with the same parameters that the closed session has, coming after the closure within the period specified will belong to the closed one.
"CloseInSec": 120,	Time to get approval for session closure (response FIN).
"LiveInSec": 86400	Maximum time break between new packs arrival for open session.
},	
"QueueMemorySizeInBytes": 67108864,	Data memory capacity, ready to upload and collected within the given ListenArea. This memory is to be distributed between connected agents.
"Interface": "eth1"	Interface name, where the core module will collect traffic for the given ListenArea.
},	
"smtp": {	
"MaxClient": 16,	Number of agents to be connected at a time to one ListenArea.
"Rules": [	Chain of packs selection rules, consistently applied, captured for the given ListenArea. Every pack is under the first rule capable for it.
{	

`"LoPort": 25,`	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
`"IP": "0.0.0.0",`	If IP and Mask are not equal to zero, the following condition should be met: IP & Mask == IP, where & - bit-by-bit multiplication.
`"HiPort": 25,`	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
`"Policy": "ACCEPT",`	The rules are applied in sequence and when one of them is affected the rest are not applied, so if one pack is suitable for 2 rules, where one is DROP and the other is ACCEPT - the first from the list to be applied. From operation only ACEEPT and DROP are supported: • ACCEPT - stop checking the rest of rules, pass the pack for handling • DROP - stop checking the rest of rules, stop handling the pack
`"Mask": "0.0.0.0"`	Subnet connection
`}`	
`],`	
`"Balancer": "IpPref",`	Selecting balanced type of workload for Traffic Monitor servers, to avoid data processing delay and data packs loss. • By default InPref - traffic distribution between few server instances is performed basing on source_ip intercepted session (all client's traffic is processed by only one server), maximum number of agents, where the traffic is to be distributed is set by MaxClient parameter. • In Easy mode there are no limits on intercepted sessions distribution between servers, and the server with the lowest load is taken (not by CPU, but the amount of traffic from sniffer).
`"Timeouts": {`	Timeouts to handle TCP-connections, intercepted for the given ListenArea.
`"OpenInSec": 120,`	Time to get approval for session opening (response SYN,ACK).

"TailInSec": 15,	After the connection is closed, confirmations and replays may occur. Packs with the same parameters that the closed session has, coming after the closure within the period specified will belong to the closed one.
"CloseInSec": 120,	Time to get approval for session closure (response FIN).
"LiveInSec": 3600	Maximum time break between new packs arrival for open session.
},	
"QueueMemorySizeInBytes": 67108864,	Data memory capacity, ready to upload and collected within the given ListenArea. This memory is to be distributed between connected agents.
"Interface": "eth1"	Interface name, where the core module will collect traffic for the given ListenArea.
},	
"http": {	
"MaxClient": 16,	Number of agents to be connected at a time to one ListenArea.
"Rules": [	Chain of packs selection rules, consistently applied, captured for the given ListenArea. Every pack is under the first rule capable for it.
{	
"LoPort": 80,	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
"IP": "0.0.0.0",	If IP and Mask are not equal to zero, the following condition should be met: IP & Mask == IP, where & - bit-by-bit multiplication.

`"HiPort": 80,`	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
`"Policy": "ACCEPT",`	The rules are applied in sequence and when one of them is affected the rest are not applied, so if one pack is suitable for 2 rules, where one is DROP and the other is ACCEPT - the first from the list to be applied. From operation only ACEEPT and DROP are supported: • ACCEPT - stop checking the rest of rules, pass the pack for handling • DROP - stop checking the rest of rules, stop handling the pack
`"Mask": "0.0.0.0"`	Subnet mask
`},`	
`{`	
`"LoPort": 443,`	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
`"IP": "0.0.0.0",`	If IP and Mask are not equal to zero, the following condition should be met: IP & Mask == IP, where & - bit-by-bit multiplication.
`"HiPort": 443,`	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
`"Policy": "ACCEPT",`	The rules are applied in sequence and when one of them is affected the rest are not applied, so if one pack is suitable for 2 rules, where one is DROP and the other is ACCEPT - the first from the list to be applied. From operation only ACEEPT and DROP are supported: • ACCEPT - stop checking the rest of rules, pass the pack for handling • DROP - stop checking the rest of rules, stop handling the pack
`"Mask": "0.0.0.0"`	Subnet mask
`},`	

`{`	
`"LoPort": 3128,`	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
`"IP": "0.0.0.0",`	If IP and Mask are not equal to zero, the following condition should be met: IP & Mask == IP, where & - bit-by-bit multiplication.
`"HiPort": 3128,`	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
`"Policy": "ACCEPT",`	The rules are applied in sequence and when one of them is affected the rest are not applied, so if one pack is suitable for 2 rules, where one is DROP and the other is ACCEPT - the first from the list to be applied. From operation only ACEEPT and DROP are supported: • ACCEPT - stop checking the rest of rules, pass the pack for handling • DROP - stop checking the rest of rules, stop handling the pack
`"Mask": "0.0.0.0"`	Subnet mask
`},`	
`{`	
`"LoPort": 8080,`	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
`"IP": "0.0.0.0",`	If IP and Mask are not equal to zero, the following condition should be met: IP & Mask == IP, where & - bit-by-bit multiplication.
`"HiPort": 8080,`	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.

"Policy": "ACCEPT",	The rules are applied in sequence and when one of them is affected the rest are not applied, so if one pack is suitable for 2 rules, where one is DROP and the other is ACCEPT - the first from the list to be applied. From operation only ACEEPT and DROP are supported: • ACCEPT - stop checking the rest of rules, pass the pack for handling • DROP - stop checking the rest of rules, stop handling the pack
"Mask": "0.0.0.0"	Subnet mask
},	
{	
"LoPort": 8888,	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
"IP": "0.0.0.0",	If IP and Mask are not equal to zero, the following condition should be met: IP & Mask == IP, where & - bit-by-bit multiplication.
"HiPort": 8888,	Range of ports, where the given rule is applied. To check where the port belongs to: LoPort <= portnum <= HiPort.
"Policy": "ACCEPT",	The rules are applied in sequence and when one of them is affected the rest are not applied, so if one pack is suitable for 2 rules, where one is DROP and the other is ACCEPT - the first from the list to be applied. From operation only ACEEPT and DROP are supported: • ACCEPT - stop checking the rest of rules, pass the pack for handling • DROP - stop checking the rest of rules, stop handling the pack
"Mask": "0.0.0.0"	Subnet mask
}	
],	

"Balancer": "IpPref",	Selecting balanced type of workload for Traffic Monitor servers, to avoid data processing delay and data packs loss. • By default InPref - traffic distribution between few server instances is performed basing on source_ip intercepted session (all client's traffic is processed by only one server), maximum number of agents, where the traffic is to be distributed is set by MaxClient parameter. • In Easy mode there are no limits on intercepted sessions distribution between servers, and the server with the lowest load is taken (not by CPU, but the amount of traffic from sniffer).
"Timeouts": {	Timeouts to handle TCP-connections, intercepted for the given ListenArea.
"OpenInSec": 120,	Time to get approval for session opening (response SYN,ACK).
"TailInSec": 15,	After the connection is closed, confirmations and replays may occur. Packs with the same parameters that the closed session has, coming after the closure within the period specified will belong to the closed one.
"CloseInSec": 120,	Time to get approval for session closure (response FIN).
"LiveInSec": 3600	Maximum time break between new packs arrival for open session.
},	
"QueueMemorySizeInBytes": 67108864,	Data memory capacity, ready to upload and collected within the given ListenArea. This memory is to be distributed between connected agents.
"Interface": "eth1"	Interface name, where the core module will collect traffic for the given ListenArea.
}	
},	

"Permissions": {...}	see General section Permissions
}	

1.35 system_check.conf

Content	Description
{	
"DebugBreak": false,	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
"Discovery": {...}	See Common section Discovery
"Logging": {...},	See General section Logging
"Nagios": {	Nagios service settings section
"ConfigureFilePath": "/etc/nagios/nagios.cfg",	Path to configuration file
"ContactsFilePath": "/etc/nagios/iwmon/iwmon-contacts.cfg",	Path to configuration file containing description of contacts to be notified
"ResourcesFilePath": "/etc/nagios/private/resource-notify-iw.cfg",	Path to configuration file containing notification e-mails settings
"StatusFilePath": "/var/log/nagios/status.dat"	Path to file containing check results
},	
"NookDir": "/opt/iw/tm5",	In this section, the module working directory is specified. By default - `/opt/iw/tm5`.
"Permissions": {...},	See General section Permissions
"ResourceLimits": {...},	See General section ResourceLimits
"Startup": {...},	See Configuration general settings

`"ThriftServers": {...}`	See General section ThriftServers
`}`	

1.36 tech_tools.conf

Content	Description
`{`	
`"Config": {`	**Iw_tech_tools** configuration section
`"ConfigPath": "etc/config/tech_tools"`	Path to tech_tools technological configuration
`},`	
`"DebugBreak": false,`	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
`"Discovery": {...}`	See Common section Discovery
`"Logging": {...},`	See General section Logging
`"NookDir": "/opt/iw/tm5",`	In this section, the module working directory is specified. By default, `/opt/iw/tm5`.
`"Permissions": {...},`	See General section Permissions
`"ResourceLimits": {...},`	See General section ResourceLimits
`"Startup": {...},`	See Configuration general settings
`"ThriftServers": {...}`	See General section ThriftServers
`}`	

1.37 updater.conf

Content	Description
`{`	

`"UseCurlBackend": false,`	Using curl backend instead of DB. It is not used in 6.7. x and earlier versions.
`"Logging": {...},`	see General section Logging
`"RetryAttemptTimeoutSec": 5,`	Delay between repeated attempts to download configuration (sec).
`"NookDir": "/opt/iw/tm5",`	In this section the module working directory is specified. By default – `/opt/iw/tm5`.
`"PIDFilesPath": "run",`	Not used.
`"NewConfigDirectory": "tmp/config-new",`	Temporary directory to download new Traffic Monitor configuration.
`"Startup": {...},`	see Configuration general settings
`"AlertTimeout": 5,`	Stand-by time (seconds) to notify about DBMS configuration update. On its expiry the expectation is suspended for some time (seconds), specified in RetryAttemptTimeoutSec parameter, than the new expectation is started.
`"RetryAttempts": -1,`	Number of repeated attempts to download configuration, default value is: -1 (constantly). If another number is set (natural one), after this number the attempts to download configuration will be over.
`"DebugBreak": false,`	Using SIGTRAP/SIGBREAK in trap handlers in checkout mode. Only in checkout assemblies.
`"ScriptPath": "bin/notify.py",`	Path to the script, to be run after configuration download.
`"Curl": {`	Curl-backend settings section. It is not used
`"AlarmHostName": "wss://",`	-
`"CurlOptUserAgent": "curl/7.45.0",`	-

"CurlMaxThreads": 10,	-
"CurlOptMaxRedirs": 50,	-
"TokenPath": "/opt/iw/tm5/etc/updater_token.txt",	-
"CurlOptRange": "",	-
"UpdaterHostName": "https://",	-
"CurlOptSslVerifyHost": false,	-
"CurlOptSslVerifyPeer": false,	-
"AlarmSocketPath": "/api/notify/listen/configUpdate",	-
"CurlOptTcpKeepAlive": true	-
},	
"CleanupDirectoryOnError": true,	New configuration directory cleaning when an error occurs.
"CurrentConfigDirectory": "etc/config",	Path to Traffic Monitor current configuration.
"ResourceLimits": {...}	see General section ResourceLimits
"Permissions": {...}	see General section Permissions

}	

1.38 warpd.conf

Content	Description
{	
"Logging": {...},	see General section Logging
"NookDir": "/opt/iw/tm5",	In this section the module working directory is specified. By default – /opt/iw/tm5.
"Startup": {...},	see Configuration general settings
"Bookworm": {...},	see General section Bookworm
"DebugBreak": false,	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
"warp": {	
"EnableOCR": false,	If OCR should be enabled.
"EnableIRM": false	If Oracle Information Rights Management (Oracle IRM) should be enabled.
},	
"ResourceLimits": {	see General section ResourceLimits
"Permissions": {	see General section Permissions
}	

1.39 web.conf

Content	Description
{	

`"hostname": null,`	Host to develop links to TM console. Once null, it is to be calculated automatically.
`"search": {`	Section contains Management Console parameters of interaction with full text search service.
`"hostname": "127.0.0.1",`	Server, where search engine is installed.
`"driver": "sphinx",`	Name of full text search driver. By default - sphinx
`"max_matches_common": 100000,`	Maximum number of expected events found during the full text search processing. In case the result is bigger than it was expected, the parameter **max_matches_maximum** will operate. This influences on average memory load produced by **sphinx** service during the full text search processing.
`"max_matches_maximum": 10000000,`	Maximum number of events found during the full text search. This influences on the maximum memory load produced by **sphinx** service during the full text search.
`"page_size": 10000,`	Number of events, sent during a query to full text search (**sphinx** service). This influences on maximum Web-GUI memory load, in particular PHP processes.
`"port": 9306`	Port of mysql-protocol **sphinx** service.
`},`	
`"kickers_count": 10,`	Number of active `default worker` and `trackers worker` for all the kickers by default. Parameter `kickers_count` can be additionally written in any kicker (`kickers` section) and individual value should be obligatory specified.
`"kickers_timeout": 100,`	Stand-by-time between the tasks (milliseconds).
`"db": {`	Section contains Management Console parameters set in interaction with DB.
`"username": "iwtm_web",`	DB user, having rights to connect to tables and work in, using Web-GUI.

`"password": "xxXX1234",`	DB user password.
`"schema": "iwtm",`	TM DB scheme.
`"driver": "oci",`	DB connection driver type.
`"connstring": "127.0.0.1:1521/iwtm"`	DB connection line. For Oracle: "localhost/iwtm:pooled", for PostgreSQL: "pgsql:host=localhost;port=5433;dbname=postgres"
`},`	
`"kickers": {`	Services, using Web-GUI are specified in the section.
`"selection": {`	Responsible for running the queries of **Events** and **Reports** sections.
`"enabled": 1`	
`},`	
`"blackboard": {`	Responsible for adding/deleting status to persons/workstations from policies, adding new contacts to a person after post-identification, adding new applications in search application autohints for buffer and printscreens, adding events to events queue from policies. It should be enabled to analyze Blackboard service.
`"enabled": 1`	
`},`	
`"systemcheck": {`	Responsible for Nagios notifications check and Nagios update counting interactivity in **Management** → **System condition** paragraph.
`"enabled": 1`	

},	
"querytracker": {	Responsible for completed queries tracking and provides with implementation per cent.
"enabled": 1	
},	
"agent": {	Responsible for interaction with agent service: diagnostics data gathering, services restart, integrity control.
"enabled": 1	
},	
"xapisamplecompiler": {	Responsible for adding and DB automatic unload adding activities.
"enabled": 1	
},	
"export": {	Responsible for configuration export (content filtration base, protection object).
"enabled": 1	
},	
"samplecompiler": {	Responsible for adding reference documents, forms, stamps and unloads from DB.
"enabled": 1	
},	

`"report": {`	Responsible for report generation in **Summary** and **Reports** sections and to generate unloads from **Events** section.
`"enabled": 1`	
`},`	
`"import": {`	Responsible for configuration import (content filtration base, protection object).
`"enabled": 1`	
`},`	
`"reporttracker": {`	Responsible for tracking of completed reports and provides with implementation per cent.
`"enabled": 1`	
`},`	
`"notifier": {`	Responsible to send notifications from policies notification queues.
`"enabled": 1`	
`},`	
`"crawler": {`	Should be enabled for interactive operation of **Crawler** section.
`"enabled": 0`	
`}`	
`},`	

`"rotateDebug": true,`	Debug json rotation enabling (true). When disabling (false) rotation all debug-files are to be stored in `/opt/iw/tm5/www/backend/protected/runtime/debug/` folder, and not to get into `https://example.com/api/debug/default/`. It is reccomended using shared with `slowRequestTime` with displayed value more than 10-30 seconds.
`"inlineTextDump": false,`	Paste texts to JSON while unloading event debugging data, but do not copy into separate file.
`"debug": "",`	Switching to checkout mode.
`"mail": {`	
`"line_break": 0`	Enabled to replace "\r\n" separation symbol with "\n" in notification messages. it is required when getting the notification from incorrect view policies.
`},`	
`"consul": {`	TM server parameters are specified in the section.
`"username": "consul_client",`	Consul username.
`"token": "",`	Access token.
`"hostname": "127.0.0.1",`	Server, where consul is installed.
`"port": 8500`	Consul port number.
`},`	
`"maxInlineDumpSize": 1048576,`	Maximum lenght of one text selection to be pasted in JSON. If the lenght exceeds the size specified, the new file's UID=name is to be stored on disk with text selection.

`"service_manager": "consul",`	Current service to manage processes.
`"slowRequestTime": 0`	Saving dump only for http-queries or wrong http-queries bigger than value specified (seconds).
`"version": "6.10.0.0"`	Current TM server version.
`}`	

1.40 xapi.conf

Content	Description
`{`	
`"Bookworm": {...},`	see General section Bookworm
`"DebugBreak": false,`	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
`"DumpDir": "",`	Path to the folder where xapi dumps are stored. If not empty, the folder */opt/iw/tm5/<parameter's value>* will collect the dumps.
`"DumpFilters": {`	Adjustible filters for dumps.
`"ActionCode": [],`	The value of action.key attribute, taken from `/opt/iw/tm5/etc/config/bookworm/actions.xml`, if the attribute `action.mnemo` is equal to the field `"action"` in `object.json`.
`"CommonName": [],`	The value of `"common_name"` field from xapi-tool configuration file or parameter.
`"Headers": {},`	Pairs of values from `"headers"` section from `object.json`. They are used without any change and inside they occur to be the "key-meaning"vocabulary.
`"License": [],`	The value of this parameter is a mixture of fileds from `object.json`, and common_name parameter.

"ObjectTypeCode": [],	The value of object_type.key attribute from /opt/iw/tm5/etc/config/bookworm/services.xml for the objects, which attribute object_type.mnemo is equal to the value of "object_type_mnemo" field from object.json.
"ProtocolCode": [],	The value of protocol.key attribute, taken from /opt/iw/tm5/etc/config/bookworm/protocols.xml, if protocol.mnemo attribute is equal to the field "protocol_mnemo" in object.json.
"ServiceCode": [],	The value of service.key attribute from /opt/iw/tm5/etc/config/bookworm/services.xml of the service, with a specific object, assigned by the field "object_type_mnemo" in object.json.
"ServiceMnemo": []	The value of service.mnemo attribute from /opt/iw/tm5/etc/config/bookworm/services.xml of the service with a specific object, assigned by the field "object_type_mnemo" в object.json.
},	
"Logging": {...},	see General section Logging
"MaxInmemTextSizeKB": 10240,	Buffer size to store data. If exceeds, the data to be stored on disk.
"NookDir": "/opt/iw/tm5",	In this section the module working directory is specified. By default – /opt/iw/tm5.
"Permissions": {...},	see General section Permissions
"ResourceLimits": {...},	see General section ResourceLimits
"Startup": {...}	see Общие настройки конфигурации
"TempDir": "tmp",	Path to folder with temporary **iw_xapi** files
"ThriftServers": {	Thrift server settings
"puppy": {	Thrift server "puppy" section settings

`"AuthenticateClient": false,`	If authentication should be requested
`"CertificatePath": "etc/cert/server.pem",`	Certificate path
`"Port": 9101,`	Incoming connections path
`"PrivateKeyPath": "etc/cert/private_key.pem",`	Private key path
`"ServerType": "threaded",`	Server type. By default – `threaded`
`"TransportType": "ssl",`	Data exchange type. value by default – `socket`
`"TrustedCertificatesPath": "etc/cert/trusted_certificates"`	Path to entrusted certificates storage
`},`	
`"xapi": {`	Thrift server "xapi" settings section
`"AuthenticateClient": false,`	If authentication should be requested
`"CertificatePath": "etc/cert/server.pem",`	Certificate path

`"Port": 9100,`	Incoming connections port
`"PrivateKeyPath": "etc/cert/private_key.pem",`	Private key path
`"ServerType": "threaded",`	Server type. By default – `threaded`
`"TransportType": "ssl",`	Data exchange type. Default value – `socket`
`"TrustedCertificatesPath": "etc/cert/trusted_certificates"`	Path to entrusted certificates storage
`}`	
`},`	
`"TokensList": "etc/config/access_control/tokens.list",`	Path to the folder where authentication thrift tokens are stored
`"ValidatorScriptPath": "etc/xapi-valid.lua"`	Path to **iw_xapi** incoming object validator
`}`	

Примечание:

This configuration file is used to define the filtration conditions when creating the data dumps. The details can be found in the article "Фильтрация xapi-дампов".

1.41 x2db.conf

Содержимое	Описание
`{`	
`"Logging": {... }`	see General section Logging
`"FileQueues": {`	Files queues
`"ErrorsQueue": "queue/x2db-errors",`	Path to errors queue
`"InQueue": "queue/x2x",`	Path to the queue, where x2db gets the data to paste to DB.
`"QueueWaitTimeMilliseconds": 100`	Time of waiting data from "InQueue" file queue. If the time's passed and the data is absent, the programme starts new waiting cycle, preliminary ensured that the stop wasn't requested.
`},`	
`"NookDir": "/opt/iw/tm5",`	In this section the module working directory is specified. By default – `/opt/iw/tm5`.
`"Startup": {...},`	see Configuration general settings
`"OracleUtf8Processing": {`	Section of special UTF8 processing for Oracle DB.
`"Enabled": true,`	Enable processing (changing the value is unwelcome).
`"Substituter": 95`	ASCII-code of replacing symbol for 4+ bytes UTF8 (changing the value is unwelcome, always more than 32).
`},`	
`"DebugBreak": false,`	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.

"Performance": {	Performance configuration section.
"Oracle": {	Settings specific for Oracle backend.
"ChunkClobBlobSizeInMb": 2047,	Chunk size (Mb) setup for fragmented content recording.
"MemoryPerLobThreshold": 10485760	LOBs limits before recording to Oracle (in bytes). Once achieved, the record is done in DB. When the value is getting low, the memory footprint is getting low as well. Limitation: not more than 2Gb.
},	
"Postgress": {	PostgreSQL backend specific settings.
"ChunkClobBlobSizeInMb": 100,	Chunk size (Mb) setup for fragmented content recording (limitation: 1 Gb maximum)
"General": {	Section of performance geneneral settings .
"ObjectsMax": {	Objects processing limits.
"MaxFreeCollectors": 10,	Number of collectors, able for "living" without any activity (creating a new collector and issuing memory to it is more expensive than taking one from the pool.
"CollectorsForFillLimit": 10,	Number of objects able for pasting when all DB connections are busy with ready objects.
"ConnectionsMax": 10	Number of simultaneous connections to DB.
}	
}	
},	

"DBWorkersCount": 5,	Number of streams, pasting into DB. There is no use in setting the value more than possible ConnectionsMax. Normal value = (2 - 3) * WorkersCount.
"WorkersCount": 5,	Number of streams, taking data from "InQueue" queue, fulfilling the collectors and transferring the fulfilled collectors into DBWorkersCount streams.
"ResourceLimits": {...},	see General section ResourceLimits
"Permissions": {...}	see General section Permissions
}	

1.42 x2x.conf

Content	Description
{	
"Logging": {...},	see General section Logging
"BookwormCacheDuration": 15,	Validity time of reference data (minutes), returned by **iw_bookworm**. Default value - `15 mins`.
"NookDir": "/opt/iw/tm5",	In this section the module working directory is specified. By default – `/opt/iw/tm5`.
"ThrowHighlightError": "false",	If the exception for highlighting displacement errors should be thrown or not.
"UseHighlightFix": "true",	If highlighting displacement should be recalculated or not.
"XMLContext": {	Xml-processing settings group.
"ValidatorCheck": true,	If validator should be used by xsd-scheme.
"XSDPath": "etc/context.xsd"	Path to xsd-scheme in accordance with work directory of NookDir module (`/opt/iw/tm5`) .

`},`	
`"Startup": {...},`	see Configuration general settings
`"Bookworm": {...},`	see General section Bookworm
`"DebugBreak": false,`	If SIGTRAP should be sent (SIGBREAK to Windows) while any exception handling. Used for debugging purposes.
`"DebugSettings": {`	Section for debugging settings
`"PrintOutXml": false`	To display/not to display the xml entry to console
`},`	
`"Converter": {`	Settings description to convert the data
`"ConvertOutType": "xml",`	Format type, to be presented for entry. At present, only xml is actualized.
`"ErrorsQueue": "queue/x2x-errors",`	Path to errors queue.
`"InQueue": "queue/db",`	Path to initial data queue. All the extractors place their results to this directory to be later recorded into the DB.
`"OutQueue": "queue/x2x",`	Path to results queue.
`"ConverterTimeOut": 1000,`	Time of waiting the task for convertion from the file queue. If the time's passed and the data is absent, the programme starts new waiting cycle, preliminary ensured that the stop wasn't requested.
`"ConverterThreadsCount": 5`	Number of processing streams.
`},`	

"PurgeTextNodes": true,	Removing installed message body from HTTP-heading (for custom over-HTTP protocols).
"ResourceLimits": {...},	see General section ResourceLimits
"Statistic": {	File queues data.
"Enabled": true	If statistics can be collected via Prometheus from **iw_x2x**.
},	
"Permissions": {...}	see General section Permissions
}	

1.43 General section Bookworm

Content	Description
"Bookworm": {	
"SleepIntervalInSec": 1,	Interval between attempts to load **iw_bookworm**, sec
"ConnectTryCount": 200,	Number of connection attempts
"ItemTypes": {	Item types, called by **iw_bookworm**
"Actions": {	Actions
"CacheDuration": 15,	Duration of validity of reference data, returned by **iw_bookworm** (sec)
"CacheTimeout": 300	Time to wait for response from **iw_bookworm** (sec)
},	

"Events": {	Events
"CacheDuration": 15,	Duration of validity of reference data, returned by **iw_bookworm**
"CacheTimeout": 300	Time to wait for response from **iw_bookworm**
},	
"ExtractorGroups": {	Extractor groups
"CacheDuration": 15,	Duration of validity of reference data, returned by **iw_bookworm**
"CacheTimeout": 300	Time to wait for response from **iw_bookworm**
},	
"Extractors": {	Extractors
"CacheDuration": 15,	Duration of validity of reference data, returned by **iw_bookworm**
"CacheTimeout": 300	Time to wait for response from **iw_bookworm**
},	
"Formats": {	Formats
"CacheDuration": 15,	Duration of validity of reference data, returned by **iw_bookworm**
"CacheTimeout": 300	Time to wait for response from **iw_bookworm**
},	
"OCROptions": {	OCR options

"CacheDuration": 15,	Duration of validity of reference data, returned by **iw_bookworm**
"CacheTimeout": 300	Time to wait for response from **iw_bookworm**
},	
"Protocols": {	Protocols
"CacheDuration": 15,	Duration of validity of reference data, returned by **iw_bookworm**
"CacheTimeout": 300	Time to wait for response from **iw_bookworm**
},	
"Services": {	Services
"CacheDuration": 15,	Duration of validity of reference data, returned by **iw_bookworm**
"CacheTimeout": 300	Time to wait for response from **iw_bookworm**
}	
}	

1.44 Common section Discovery

Content	Description
"Discovery": {	Section which specifies settings for detecting services
"Registration": {	Section which specifies registration settings in the Consul service
"WaitIntervalInSec": 10	An interval after which the System tries to re-register with the Consul service if the service is unavailable or doesn't work

},	
"TCPCheck": {	Checks if the service is available
"IntervalSec": 30,	An interval at which the service is queried
"DeregisterCriticalMin": 2,	A period after which the service is considered not working
"PortHigh": 8189,	The last port in the selection which is used to get the state of the component
"PortLow": 8140	An initial port in the selection which is used to get the state of the component
}	
},	

1.45 General section Logging

The basic idea of logging:

1. The program checks the global logging level with regard to the logging level of a message.
2. If the global logging level enables logging the message, the logging level of a specific logger is checked.
3. If the logging level of the logger enables logging the message, the message is sent to the logging system.
4. The logging system checks all active backends whether they are capable of the message output (applies filters).
5. The message is sent to the backends for which the result of filtering was a success. In this case, the message is formatted for every backend according to its formatting rule.

Message filtering during the 1 and 2 stages does not take time. Filtering during the stage 4 takes a way much more time. Therefore, it is recommended to apply filtering only if it is crucial.

Logging configuration:

Content	Description
"Logging": {	

`"Loggers": {`	Contains the list of loggers for the various program components, where the key is a logger name, the value is a logging level. Logger separation is performed for fine-tuning messages to be logged: • `Cachets` - logging settings for the cached trees loading/unloading subsystem • `InfoCollector` - logging settings for the system information gathering subsystem • `Integrity` - logging settings for the data integrity checking/maintenance subsystem • `Scan` - logging settings for the folder scanning subsystem • `Sender` • `Dreamcatcher` • `ProcMan` • `IslerTManager` • `IslerController` • `IslerDocument` • `IslerConnector` • `StatementCollector` • `Connection` • `Collector` • `EventConverter` • `Statistics` • `Iscp` • `Object` • `pop3` • `Script` • `nrpc` • `Om3` • `POP3 Parser` • `imap4` • `Automate` • `ListenArea_capstack` • `ListenArea_icq` • `ListenArea_smtp` • `ListenArea_pcap` • `DB` - data base logger • `Devour` - building xmlpipe2 files for indexer • Indexer - operations with the configuration file of searchd daemon: indexing, indexes and daemon files management • Root - root logger, responsible for reading DB records, indexes creating, archiving, indexes deleting • Stat - statistical data messages (various operations runtime) Possible logging levels (Severity): • *trace* - detailed logging (including messages with the levels *debug, info* and higher) • *debug* - debugging information output, usually for error diagnostics and communication with developers/tech support. • *info* - information messages, could be disabled on the stable system • *warning* • *error*

	• *fatal* - most important messages leading to system crash and failure. **Example:** From two values the strictest is selected, e.g. if `GlobalLevel = warning`, `Stat = info` => effective value for `Stat = warning` (restricted by the global level)
`"Root": "debug"`	Root logger, responsible for reading DB records, indexes creating, archiving, indexes deleting
`},`	
`"Core": {`	Logging kernel general settings
`"DisableLogging": false`	Capability to disable logging in the component. Disabling after the first 3 stages of the message transfer through the logging system, since these stages are performed outside of the logging system and are not controlled by this setting
`},`	
`"Backends": {`	Backends list
`"DefaultDirectory": "/var/log/infowatch/",`	Default directory for logging to a file
`"ActiveBackends": [`	Active backends list. The backends, that are on the list, are considered for logging
`"Console",`	Console output (if the process is not launched as daemon, otherwise logs will be saved to `/dev/null`). The fastest backend
`"Syslog",`	System log output (`/var/log/messages`). The slowest backend

"File"	Specified text file output (directory for a file to be created is specified in the parameter `DefaultDirectory`). Relatively slow backend
],	
"Descriptions": {	Possible backend descriptions list, where the key is a backend name, the value is a backend description object. This list only describes backends. To make a backend active, add it to the list ActiveBackends
"Syslog": {	System log output description
"Destination": "Syslog",	Backend type
"Asynchronous": false,	Asynchronous backend or not. The asynchronous mode implies the message will be recorded after the message is processed by the logging system (the message will be enqueued and sent to console/syslog/file at some time). This means, if the System hangs up immediately after the message is processed by the logging system, there is a high possibility that the message to never be logged. The pro of the asynchronous mode is faster message processing (the main code of the program spends less time processing messages). It makes sense to set true, when it is necessary to have intensive logging, and the program performance does not raise questions. Otherwise, false should be set.
"Format": "%LineID% (%ProcessID%: %ThreadID%) [%Severity%] : <%Channel%> %Message%"	Message formatting rules. Key words for formatting and filtering: • Severity - logging level • LineID - line in a code, where the message was called • ProcessID - PID • ThreadID - TID • Channel - logger name, through which the message was sent • Message - message text • TimeStamp - message generation time stamp
"Console": {	Console output description

"AutoFlush": true,	Screen output or awaiting in the buffer. The `false` parameter gives the same result as `Asynchronous=true` (see above)
"Destination": "Console",	Backend type
"Asynchronous": false,	Asynchronous backend or not
"Format": "%LineID% %TimeStamp% (%ProcessID%:%ThreadID%) [%Severity%] : <%Channel%> %Message%"	Message formating rules
},	
"File": {	Specified text file output description

"Format": "%LineID% %TimeStamp% (%ProcessID%: %ThreadID%) [%Severity%] : <%Channel%> %Message%",	Message formating rules
"Destination": "TextFile",	Backend type
"FileName": "adlibitum.log",	File name, where log will be written in
"AutoFlush": true,	Screen output or awaiting in the buffer. The `false` parameter gives the same result as `Asynchronous=true`. Setting rules are the same (but invertible).
"Asynchronous": false,	Asynchronous backend or not
"Append": true	Add message to an old file or create a new file at the program startup
}	
}	

`},`	
`"SuppressExceptions": false,`	Suppress exceptions in the logging mechanism
`"GlobalLevel": "warning"`	Global logging level. Recommended value when implementing – *error*. This level enables logging messages with the level *error* or higher (*fatal*). Normal operation value and by default - *warning, i*.e. only errors and warnings are written in logs. It is not recommended to use the *trace* value without special purpose

1.46 General section Permissions

Content	Description
`"Permissions": {`	Linux group and the user id of the person executing the process run are specified in this section:
`"DropWorkerPrivileges": true,`	If user privileges should be dropped **Note:** There is no such kind of parameter in **warpd.conf** file related to **iw_warpd** daemon
`"Enabled": true,`	The process runs under the user with restricted rights. `true` by default **Note**: If you change for `false`, the process will run under the **root** user
`"Group": "iwtm",`	Linux user group, to which a user belongs. `iwtm` by default. **Note**: The group is created automatically while installing the System
`"User": "iwtm"`	Name of the Linux user, under which the process runs. `iwtm` by default. **Note**: The user is created automatically while installing the System
`},`	

1.47 General section ResourceLimits

Content	Description
"ResourceLimits": {	
"Enabled": [	Enabled limits list
"CORE"	
],	
"Limits": {	Limits with parameters list
"CORE": -1,	Maximum size of the core file (-1 for unlimited)
"DATA": -1,	Maximum size of the data file (-1 for unlimited)
"NOFILE": 1000000	Maximum number of opened files

1.48 General section Statistics

Content	Description
"Statistics": {	Statistics gathering configuration
"DirectoryEnabled": false,	Enable writing statistics files in a directory
"DirectoryPath": "sniffer-stat/",	Path to the directory (if DirectoryEnabled = true), in which statistics will be collected
"FileEnabled": true,	Enable writing statistics in a file
"LogEnabled": true,	Enable logging statistics, the LOG_INFO level
"FilePath": "sniffer.stat"	File name for writing statistics in, in a current directory (if FileEnabled = true). The file will be rewritten
},	

1.49 General section ThriftServers

This section contains thrift server configuration parameters.

Content	Description
`"ThriftServers": {`	In this section ThriftServer settings are set
`" ": {`	
`"Port": 0000,`	Incoming connection port (default): • for adlibitum - 9096 • for agent - 9099 • для blackboard - 9093 • for bookworm - 9090 • for cas - 9987 • for licserv - 9095 • for pas - 9989 • for sample_compiler - 9091 • for system_check - 9097 • for tech_tools - 9102 • for puppy - 9101 • for xapi - 9100
`"ServerType": "threaded",`	Server type
`"TransportType": "socket"`	Data transfer type
`}`	

1.50 Configuration general settings

Content	Description
`"Startup": {`	Enable application startup using service

`"Enabled": true`	Enable (`true`) or disable (`false`) application startup using service **Attention!** For `iw_proxy` enabling and disabling components could be done in the following way: `"Startup" : {"Enabled": true, "http": true, "icq": true, "smtp": true}` – enabling all modules; `"Startup" : {"Enabled": true, "http": true, "icq": false, "smtp": false}` – enabling **iw_proxy_http**; `"Startup" : {"Enabled": false, "http": true, "icq": false, "smtp": false}` – disabling all modules.
`},`	
`"DebugBreak":false,`	To send or not to send SIGTRAP (SIGBREAK to Windows) while any exception handling
`UnsafeHandlers":false`	Unhandled signals support. Disabled by default (`false`). Once `true` is set, it is allowed to use unsafe handlers in code (e.g. SIGSEVG). Adding, enabling/disabling this parameter is not recommended without consultation with developers.

1.51 General section Isler

Content	Description
`"Isler": {`	Configuration relating to all Isler applications
`"Transport": {`	Transport of Isler configuration
`"ConnectorsConfiguration": {`	Connectors configuration
`"PerConnector": {},`	Configuration of a separate connector of a separate pipe. It has precedence over global configuration. The key is a pipe name, the value is an object containing connector configuration settings
`"Global": {`	Configuration relating to all connectors of a given type. The key is a connector name, the value is an object containing connector configuration settings
`"TCP": {}`	Connector type (At this moment only TCP)

}	
},	
"Pipes": {	Enabled connections to a given pipeline block
"Forward": [],	List of forward connections over pipeline
"Backward": []	List of backward connections over pipeline
},	
"WorkerThreads": 0,	Number of threads allocated for the logic. The "0" value is for the number of logical cores of the computer to be set
"Transactions": {	Transactions of Isler configuration. Transaction support on the way out of a pipeline block. Only for the skilled person
"Linearizer": {	Linearizer configuration
"Path": "tmp",	Path to temporary files of the linearizer
"Limit": 4194304	Memory usage limit, bytes. Upon achieving the limit value, data flush starts.
},	
"Enabled": false	Enable transaction in Isler. (Not recommended to change the value)
}	
},	
"Logic": {	Logic of Isler configuration

"WorkerThreads": 0,	Number of threads allocated for the logic. The "0" value is for the number of logical cores of the computer to be set
"ServerId": 1,	Only for the skilled person
"Scheme": "bin/typedef-main.lso",	Path to the scheme
"Role": 6	Only for the skilled person
}	

2 Other configuration files of Traffic Monitor

2.1 FineReader 11 OR extractor features of control

Using FineReader 11 OCR extractor, able to recognise text and extracted images, the configuration of user account is performed in ini-file.

It includes the following objects of control:

Object type	Object	Description
Page processing	[PageProcessingParams]	page processing parameters;
Page preprocessing	[PagePreprocessingParams]	page preprocessing parameters;
Image processing	[PrepareImageMode]	image preprocessing parameters;
General parameters	[DocumentProcessingParams]	document processing parameters;
Document processing	[SynthesisParamsForDocument]	document synthesis parameters;
	[OrientationDetectionParams]	page orientation detection parameters;
	[PageAnalysisParams]	page analysis parameters;
	[TableAnalysisParams]	table analysis parameters;
	[BarcodeParams]	barcode processing parameters;
	[ObjectsExtractionParams]	extra objects detection parameters;
	[RecognizerParams]	page recognition general parameters;
	[SynthesisParamsForPage]	page synthesis parameters;
	[FontFormattingDetectionParams]	font formatting detection parameters;
	[ImageProcessingParams]	image processing parameters prior image analysis and recognition;

2.1.1 [BarcodeParams]

Barcode processing parameters:

Name	Type	Description	By default
Type	Integer	The value of this parameter is OR, constant superposition BarcodeTypeEnum , meaning different types of barcodes. For example, at BT_EAN13 | BT_EAN8 FineReader will process the barcodes only in accordance with EAN13 и EAN8 standards. BT_Autodetect value maintains all types of barcodes.	BT_Autodetect
Orientation	Integer	The value of this parameter is OR, constant superposition BarcodeOrientationEnum , meaning barcode orientation type. By default, FineReader automatically defines barcode orientation.	BO_Autodetect
MinRatioToTextHeight	Double	This parameter defines minimum possible barcode's hight according to letter's middle hight. It is recommended using this parameter when small barcodes are required to be found. It is possible to set only positive value of this parameter less or equal to 2147483647. Or -1, when FineReader automatically selects the hight.	-1

2.1.2 [DocumentProcessingParams]

Document processing parameters:

Name	Type	Description	By default
PerformSynthesis	Boolean	Performs document synthesis. At False value, object [SynthesisParamsForDocument] can not be preformed.	True

2.1.3 [FontFormattingDetectionParams]

Font formatting detection parameters:

Name	Type	Description	By default
DetectBold	Boolean	When the value is True bold font to be defined during the synthesis.	True
DetectFontFamily	Boolean	When the value is True font type to be defined during the synthesis.	True

Name	Type	Description	By default
DetectFontSerifs	Boolean	When the value is True font serifs to be defined during the synthesis. Font with serifs is to be selected to present the recognised text. When the value is False, font serifs are to be ignored. This means that the most suitable font (from the fonts with serifs and without serifs) is selected to present the recognised text independent from the fact if the text is secure or not.	True
DetectFontSize	Boolean	When the value is True font size to be detected during the synthesis.	True
DetectItalic	Boolean	When the value is True italic font to be detected during the synthesis.	True
DetectScaling	Boolean	When the value is True scale to be detected during the synthesis.	True
DetectSmallCaps	Boolean	When the value is True letters within the lower case to be detected during the synthesis.	True
DetectSpacing	Boolean	When the value is True spaces to be detected during the synthesis.	True
DetectSubscriptsSuperscripts	Boolean	When the value is True upper and lower symbols to be detected during the synthesis.	True
DetectUnderlineStrikeout	Boolean	When the value is True underlining and striking out to be detected during the synthesis.	True
MonospaceDetectionMode	MonospaceDetectionModeEnum	Performs monospace font detection.	MDM_Auto

2.1.4 [ImageProcessingParams]

Image processing parameters before analysis and recognition:

Name	Type	Description	By default
InvertImage	Boolean	Specifies if image colours within the block are to be inverted. When the value is True FineReader inverts the unit image before recognition.	False
MirrorImage	Boolean	Specifies if image within the block is to be mirrored on a vertical axis. When the value is True FineReader will mirror the block before recognition.	False
RotationType	RotationTypeEnum	Set text orientation within the block in accordance with normal reading position. This parameter cannot be initialized RT_UnknownRotation.	RT_NoR

2.1.5 [ObjectsExtractionParams]

Additional objects detection parameters:

Name	Type	Description	By default
FastObjectExtraction	Boolean	When the value is True objects extraction is fast, but with the loss of quality.	False
ProhibitColorImage	Boolean	When the value is True FineReader uses black-and-white processing mode during the objects extraction. Therefore the colourful image quality is lower.	False
RemoveGarbage	Boolean	Removes garbage from the image (except small dots).	False
RemoveTexture	Boolean	Removes texture from temporary image, used for recognition. Original image remains untouched.	True
DetectMatrixPrinter	Boolean	Text, printed on a printer matrix to be recognised during the objects extraction.	True
DetectPorousText	Boolean	When the value is True porous text area to be found during the objects extraction.	True
DetectTextOnPictures	Boolean	When the value is True whole text on the image to be recognised, including text within the image. Text sequence remains.	False
EnableAggressiveTextExtraction	Boolean	When the value is True FineReader will extract all possible text from the image. It is recommended to use this parameter for images with low quality texts. This processing mode may cause the fault image description via text or vertical orientation of horizontal text.	False

Name	Type	Description	By default
ProhibitDottedSeparators	Boolean	When the value is True FineReader concludes that processed document doesn't contain dot separation symbols. It is recommended to use this parameter when the document doesn't contain this kind of separation symbols or when inforwation can be recognised wrong, if it was a dot separation symbol. **Important:** this parameter is temporary.	False

2.1.6 [OrientationDetectionParams]

Pages orientation detection parameters:

Name	Type	Description	By default
OrientationDetectionMode	OrientationDetectionModeEnum	Pages orientation detection mode.	ODM_Normal
ProhibitClockwiseRotation	Boolean	Disables image clockwise rotation when its orientation is selected. **Important:** this parameter shouldn't be set to True, if ProhibitCounter-clockwiseRotation and ProhibitUpsidedownRotation parameters are set to True.	False
ProhibitCounterclockwiseRotation	Boolean	Disables image counter-clockwise rotation when it's orientation is selcted. **Important:** this parameter shouldn't be set to True, if ProhibitClockwiseRotation and ProhibitUpsidedownRotation parameters are set to True.	False
ProhibitUpsidedownRotation	Boolean	Disables image upside-down rotation when it's orientation is selected. **Important:** this parameter shouldn't be set to True, if ProhibitClockwiseRotation and ProhibitCounterclockwiseRotation parameters are set to True.	False

2.1.7 [PageAnalysisParams]

Parameters of page model analysis:

Name	Type	Description	By default
DetectText	Booalean	Finds text area during the model analysis when the value is True.	True
EnableTextExtractionMode	Boolean	True value specifies existing blocks of text on the page. Separate text blocks are to be found during the model analysis. Tables cannot be found. When the value is True model analysis cannot be perforemd in ProhibitModelAnalysis.	False
DetectTables	Boolean	Detects table during the laypout analysis.	True
AggressiveTableDetection	Boolean	Controls table detaction modes. When the value is True FineReader finds all existing tables on the page. It is recommended for the documents, containingbig number of tables.	False
DetectBarcodes	Boolean	Detects barcodes. By default, barcodes are defined as ordinary images.	False
DetectSeparators	Boolean	Detects separation symbols.	True
DetectPictures	Boolean	Detects images during the model analysis.	True
DetectVectorGraphics	Boolean	Detects vector graphics during the model nanlysis.	True
DetectMultipleBusinessCards	Boolean	Detects business cards on a page.	False
NoShadowMode	Boolean	FineReader will process the image ignoring the shadows.	False
DetectVerticalEuropeanText	Boolean	When the value is True FineReader is looking for vertical text. This parameter is valid for all languages, except Chinese, Japanese and Korean languages. ProhibitCJKColumns parameter detects the text belonging to this group of languages.	False
ProhibitCJKColumns	Boolean	Text written in Korean, Chinese and Japanese languages can be placed vertically and horizontally. When the value is True FineReader is looking for horizontal text on the languages mentioned. Thois parameter is valid only for Korean, Chinese and Japanese languages.	False
ProhibitDoublePageMode	Boolean	When the value is True FineReader will not process the image as the double page.	False

Name	Type	Description	By default
ProhibitModelAnalysis	Boolean	When the value is False, page models will be sorted out during the page analysis until the model amending the recognition quality is to be found. If the appropriate model cannot be found, standard page analysis is to be performed. **Important:** if EnableTextExtractionMode is set to True, then it's ignored and model analysis cannot be performed.	False
PaperSizeDetectionMode	PaperSizeDetectionModeEnum	This parameters specifies if previously processed image can have information for analysis. **Important:** for correct work NoShadowsMode parameter should be set to False.	PSDM_Auto
CollectPdfExportData	Boolean	When the value is True FineReader collects all data during the model analysis. Collected data are exported in PDF using MRC-compression if original image was saved in PDF format.	False

2.1.8 [PagePreprocessingParams]

Page preprocessing parameters:

Name	Type	Description	By default
CorrectInvertedImage	Boolean	Finds out image with colour inversion (for example, white text on a black background). If the text colour differes from the normal one during preprocessing, FineReader automatically invert the image colours.	False
CorrectOrientation	Boolean	When the value is True, image orientation is to be defined during preprocessing. When it differes from the normal one, FineReader turns the image upside down.	False
CorrectShadowsAndHighlights	ThreeStatePropertyValueEnum	This parameter is used only for photo. When the value is TSPV_Yes, shadow and colour correction is to be also performed for further recognition enhancement.	TSPV_Auto
CorrectSkew	ThreeStatePropertyValueEnum	When the value is TSPV_Yes, image incline correction is to be performed during the preprocessing. CorrectSkewMode specifies the incline type. When the value is TSPV_No incline correction cannot be performed.	TSPV_Auto

Name	Type	Description	By default
CorrectSkewMode	CorrectSkewModeEnum	Defines image incline correction mode. CorrectSkewModeEnum parametr defines the incline type via OR. 0 means that incline coorrection was not performed.	CSM_CorrectSkewByHorizontalText | CSM_CorrectSkewByVerticalText
GeometryCorrectionMode	GeometryCorrectionModeEnum	Defines the types of geometric distortions to be deleted during the preprocessing.	GCM_Auto
ResolutionCorrectionMode	ResolutionCorrectionModeEnum	Defines if image current resolution is to be revised during the preprocessing.	RCM_Auto

2.1.9 [PageProcessingParams]

Page processing parameters:

Name	Type	Description	By default
PerformPreprocessing	Boolean	When the value is True, page preprocessing block is to be launched, including inversion correction, orientation and geometric distortions and is performed before the page analysis.	True
ProhibitColorObjectsAtProcessing	Boolean	Specifies if image colour objects should be filtered before analysis and model recognition.	False
PerformAnalysis	Boolean	Specifies if page analysis is to be performed. When the value is False, [PageAnalisysParams] section is to be ignored.	True
PerformRecognition	Boolean	Specifies if recognition is to be performed. When the value is False, [RecognizerParams] section is to be ignored.	True

2.1.10 [PrepareImageMode]

Image preprocessing parameters:

Name	Type	Description	By default
Rotation	RotationTypeEnum	Setting image rotation angle during the image preparation.	RT_NoRotation

Name	Type	Description	By default
CorrectSkew	Boolean	When the value is True, it corrects the rotation during the image preparation. Rotation correction type is set via CorrectSkewMode parameter. When the value is False CorrectSkewMode is to be ignored.	True
CorrectSkewMode	CorrectSkewModeEnum	Setting image rotation angle. When the value is OR, CorrectSkewModeEnum constants superposition, meaning the correction modes. When the value is 0 — distortion correction is not to be performed.	CSM_CorrectSkewByHorizontalText| CSM_CorrectSkewByVerticalText
BackgroundFillingColor	Integer	Defines the colour to be chosen to fill in the areas which are to be added after the image rotation correction. When the value is -1 — the colour is to be defined automatically. **Important: I**nteger type value is calculated from RGB trio: (Red) +(256*GREEN)+(65536*BLUE).	-1
InvertImage	Boolean	When the value is True FineReader inverts the image colours.	False
MirrorImage	Boolean	When the value is True, FineReader reflects prepared image to the vertical axis.	False
EnhanceLocalContrast	Boolean	Specifies if image contrast should be increased. This parameter may enhance the further recognition quality. To set this parameter to be True is reasonable only for colour and grey images.	False
PhotoProcessingMode	PhotoProcessingModeEnum	Verifies if image should be processed like photo. If this photo is being processed, FineReader uses special algorithms of photo processing during different stages of image processing.	PPM_Auto
AutoOverwriteResolution	Boolean	Specifies if it is required to overwrite resolution of prepared image. This parameter is available when the value of OverwriteResolution is False. When the value of AutoOverwriteResolution is True, then FineReader automatically defines image resolutiona and overwrite it.	True
OverwriteResolution	Boolean	Accepts overwriting resolution of prepared image. Resolution is to be overwrited in accordance with the values of XResolutionToOverwrite and YResolutionToOverwrite parameters. In this case, the new resolution is to be used for preprocessing.	False

Name	Type	Description	By default
XResolutionToOverwrite	Integer	Set horizontal resolution of original image in DPI. This value is used to overwrite prepared image in the case when resolution of original image wasn's defined correctly and OverwriteResolution parameter is set to True. FineReader processes the image with equal horizontal and vertical resolution, thus the program stretches the image the way the prepared image had equal horizontal and vertical rotation and equal to XResolutionToOverwriteи YResolutionToOverwrite maximum.	300
YResolutionToOverwrite	Integer	Set vertical rotation of orifinal image in DPI. This value is used to overwrite rotation of prepared image in the case, when rotation of original image wasn't defined correctly and if OverwriteResolution parameter is set to True. FineReader processes епру image with equal horizontal and vertical rotation, thus the program stretches the image the way the prepared image had equal horizontal and vertical rotation and equal to XResolutionToOverwrite and YResolutionToOverwrite maximum.	300
DiscardColorImage	Boolean	When the value is True, FineReader leaves only black-and-white flatness within prepared image. In this case image binarization is to be performed.	False
UseFastBinarization	Boolean	When the value is True, FineReader uses image fast binarization algorithms. Binarization is performed when image is downloaded (when DiscardColorImage is set to True during the preparation) or later, when black-and-white image is required. This parameter puts on speed of image binarization, but the quality is getting low.	False
ImageCompression	ImageCompressionEnum	Set the way to compress image during the convertion into external format.	IC_Auto
CreatePreview	Boolean	When thy value is True FineReader makes preview of prepared image.	False
PreviewHeight	Integer	Set the hight for image preview in pixels. When CreatePreview is set to False, preview cannot be made and this parameter is to be ignored.	90
PreviewWidth	Integer	Set the width for image preview in pixels. When CreatePreview is set to False, preview cannot be made and this parameter is to be ignored.	64

2.1.11 [RecognizerParams]

Page recognition general parameters:

Name	Type	Description	By default
TextLanguage	TextLanguage	Set the language for text to be recognised.	English
LanguageDetectionMode	ThreeStatePropertyValueEnum	Controls automatic language identification. When automatic language identification is enabled, language recognition is performed for every word within the text. It is recommended to be used for documents of language you do not know.	TSPV_Auto
TextTypes	TextTypeEnum	This parameter is defined by OR, TextTypeEnum constants superposition, meaning the types of recognition texts.	TT_Normal
BalancedMode	Boolean	When the value is True, recognition is to be performed in balanced mode. This parameter is available only for typewritten texts, recognition for handwritten texts is to be performed in full mode.	False
FastMode	Boolean	When the value is True, recognition is to be performed in fast mode. Processing speed is 2-2,5 times faster than balanced mode can provide, but the number of mistakes is also 1.5-2 times bigger. This parameter is to be used for typewritten and handwritten texts. It is not recommended using this mode to recognise short paragraphs.	False
LowResolutionMode	Boolean	Parameter for image recognition with low resolution.	False
OneWordPerLine	Boolean	When the value is True FineReader will recognise text line as one word.	False
ProhibitItalic	Boolean	When the value is True, FineReader cannot recognise symbols written in italic. Recognition speed is growing if the document doesn't contain this kind of text.	False
ProhibitSubscript	Boolean	When the value is True, FineReader cannot recognise index symbols.	False
ProhibitSuperscript	Boolean	When the value is True, FineReader cannot recognise symbols written via upper indexes.	False
ProhibitHyphenation	Boolean	When the value is True, FineReader cannot recognise words hyphenation.	False
ProhibitInterblockHyphenation	Boolean	When the value is True, one block of text cannot be hyphenated to the next block.	False

Name	Type	Description	By default
CaseRecognitionMode	CaseRecognitionModeEnum	Alphabetic recognition.	CRM_AutoCase
WritingStyle	WritingStyleEnum	Provides information about handwritten text styles.	WS_Auto
FieldMarkingType	FieldMarkingType	This parameter is able to recognise characters next to symbols (underlining, frames, etc). This option is available for handwritten texts only.	FMT_SimpleText
CellsCount	Integer	Specifies the number of symbol cells for the block that was recognised. This option is available for handwritten texts only.	1
UseBuiltInPatterns	Boolean	When the value is `True`, FineReader will use its built-in recognition models. Recognition models are the files relating symbol's shape and symbol. When the value is `False` FineReader uses user patterns only.	True
UserPatternsFile	String	Contains full file path with user recognition model.	""

2.1.12 [SynthesisParamsForDocument]

Document synthesis parameters:

Name	Type	Description	By default
DetectDocumentStructure	Boolean	Specifies if specific structures are to be performed during the document synthesis.	True
DetectFontFormatting	Boolean	Specifies if font formatting should be performed during the document synthesis. When the value is `False`, `[FontFormattingDetectionParams]` section is to be ignored. **Important:** by default FineReader defines font parameters during the document synthesis phase. When the value is `False`, it is required to activate font parameters identification during the page synthesis. It is required to set `True` as `DetectFontFormattingAtPageLevel` parameter for `[SynthesisParamsForPage]` section.	True

Name	Type	Description	By default
LowMemoryMode	Boolean	Specifies if low memory pull mode is to be activated during the document synthesis. When the value is True, FineReader will use less than 600 Mb memory during document synthesis process via the download of lower number of pages. But this will reduce synthesis speed and the quality will also be low.	False
PagePoolSize	Integer	Specifies the number of pages to be downloaded at a time during the document synthesis. This parameter can reduce memory pull. It is recommended using the value from 32 to 64. The bigger the number the processing speed is higher. It is not recommended to set big value to process big documents since low memory error may occur. Numbers less than 5 are to be ignored.	64

2.1.13 [SynthesisParamsForPage]

Page synthesis parameters:

Name	Type	Description	By default
ParagraphExtractionMode	ParagraphExtractionModeEnum	Set paragraphs extraction mode.	PEM_NormalExtraction
DetectFontFormattingAtPageLevel	Boolean	When the value is True, font parameters are to be defined during the page synthesis phase. This parameter includes detection of low and upper indexes, italic font, lower case and upper case alphabet and it affords using additional parameters from [FontFormattingDetectionParams] section. When the value is False this section parameteres are to be ignored. **Important:** FineReader specifies font parameters during the document synthesis phase by default. When the value is True, it is required deactivating font parameters detection during the document synthesis, setting DetectFontFormatting parameter for [SynthesisParamsForDocument] section with False value.	False
DetectBackgroundColor	ThreeStatePropertyValueEnum	When TSPV_Yes value is installed, the colour of background is to be defined during the page synthesis.	TSPV_Auto
AllowGrayBackgroundColor	ThreeStatePropertyValueEnum	When the value is set to TSPV_Yes, gray colour is defined for backgound. Otherwise, it is to be defined as black or white. This parameter is taken into consideration when the value of DetectBackgroundColor is TSPV_Yes and TSPV_Auto.	TSPV_Auto

Name	Type	Description	By default
DetectTextColor	ThreeStatePropertyValueEnum	When the value is TSPV_Yes, text colour is defined during the page synthesis.	TSPV_Auto
CorrectDynamicRange	ThreeStatePropertyValueEnum	When the value is TSPV_Yes, image colours will be corrected to white font and black text or vice versa. Image quality will be better, but recognition speed will get low.	TSPV_Auto

2.1.14 [TableAnalysisParams]

Page blocks analysis parameters:

Name	Type	Description	By default
DetectCellsInversion	Boolean	When the value is True, cells inversion detection is performed during the table blocks analysis.	True
DetectCellsOrientation	Boolean	When the value is True, cells orientation detection is performed during the table blocks analysis.	True
SingleLinePerCell	Boolean	It is recommended to set this parameter to True value, if every line within the table is a cell. Table recognition is to be performed thoroughly.	False
SplitOnlyBySeparator	Boolean	It is recommended to set this parameter to True value, if the table recognition is doesn't contain hidden separatotrs.	False

2.1.15 Constants

ThreeStatePropertyValueEnum

Name	Description
TSPV_Auto	Finereader automatically detects if the mode is required to be applied.
TSPV_No	Deactivating mode.
TSPV_Yes	Activating mode.

CorrectSkewModeEnum

Название	Описание
`CSM_CorrectSkewByBlackSquaresHorizonally`	Image incline angle is corrected in accordance with "black squares" (incline angle is defined in accordance with horizontal square pairs). Black squares are often located within the forms. It is recommended using this constant only while working with forms, otherwise incorrect results can be provided.
`CSM_CorrectSkewByBlackSquaresVertically`	Image incline angle is corrected in accordance with "black squares" (incline angle is defined in accordance with vertical square pairs). Black squares are often located within the forms. It is recommended using this constant only while working with forms, otherwise incorrect results can be provided.
`CSM_CorrectSkewByHorizontalLines`	Image incline angle is corrected in accordance with horisontal lines (price-lists, documents with tables), otherwise incorrect results can be provided.
`CSM_CorrectSkewByHorizontalText`	Image incline angle is corrected in accordance with horizontal text lines.
`CSM_CorrectSkewByVerticalLines`	Image incline angle is corrected in accordance with vertical lines. It is recommended using this constant only for images, containing vertical lines (price-lists, documents with tables).
`CSM_CorrectSkewByVerticalText`	Image incline angle is corrected by means of vertical text lines. It is recommended using this constant working with documents made in Chinese, Japanese and Korean languages.

GeometryCorrectionModeEnum

Name	Description
`GCM_Auto`	Finereader automatically defines if processed document is an image and performs geometry correction once required.
`GCM_Correct`	Corrects geometric deformations.
`GCM_DontCorrect`	Accepts geometry correction mode disabling

ResolutionCorrectionModeEnum

Name	Description
`RCM_Auto`	If Finereader considers current image rotation unacceptable, it will be changed automatically.
`RCM_Correct`	Defines image rotation and corrects it.

Name	Description
RCM_DontCorrect	Disables image rotation correction mode.

OrientationDetectionModeEnum

Name	Description
ODM_Fast	Fast mode to define pages orientation with the loss of quality.
ODM_Normal	Normal mode to define pages orientation.
ODM_Thorough	Thorough mode to define pages orientation with no loss of quality.

PaperSizeDetectionModeEnum

Name	Description
PSDM_Auto	Area is defined automatically and can be less than the original image.
PSDM_Unknown	There is no sufficient information about large image area. Area considered for analysis can be less that the image itself.
PSDM_CloseToImageSize	Whole image may contain information for analysis. Area to be analysed cannot be less than the original image.

BarcodeTypeEnum

Name	Standard
BT_Autodetect	Automatic
BT_Aztec	Aztec
BT_Codabar	Codabar
BT_Code128	Code 128
BT_Code32	Code 32
BT_Code39	Code 39
BT_Code93	Code 93

BT_DataMatrix	Data Matrix
BT_EAN13	EAN 13
BT_EAN8	EAN 8
BT_FullAscii	Full ASCII Code 39
BT_IANA25	Code 2 of 5 (it is recommended to use if you are sure this type of barcode is on the image .This type of barcodes have no control sum and by mistake can be found on the image with no barcodes).
BT_Industial25	Industrial 2 of 5
BT_IntelligentMail	Intelligent Mail
BT_Interleaved25	Interleaved 2 of 5 (it is recommended to use if you are sure this type of barcode is on the image. This type of barcodes have no control sum and by mistake can be found on the image with no barcodes).
BT_Matrix25	Matrix 2 of 5 (it is recommended to use if you are sure this type of barcode is on the image. This type of barcodes have no control sum and by mistake can be found on the image with no barcodes).
BT_MaxiCode	MaxiCode
BT_Patch	Patch
BT_PDF417	PDF417
BT_PostNet	PostNet
BT_QRCode	QR Code
BT_UCC128	GS1-128
BT_Unknown	Unknown type of barcode. It is used as return message when it is impossible to identify barcode type.
BT_UPCA	UPC-A
BT_UPCE	UPC-E

BarcodeOrientationEnum

Имя	Описание
BO_Autodetect	Automatic.
BO_Down_To_Top	Down-to-top orientation.
BO_Left_To_Right	Left-to-right orientation.
BO_Right_To_Left	Right-to-left orientation.
BO_Top_To_Down	Top-to-down orientation.
BO_Unknown	Unknown type of barcode orientation. It is used as return value if orientation type cannot be defined.

TextTypeEnum

Название	Описание
TT_Gothic	Gothic style text recognition.
TT_Handprinted	Handwritten text. Automatic analysis is unavailable for handwritten text, block coordinates where handwritten text is contained are required to be enetered manually.
TT_Index	Special typesetting symbols, including only postal index numerals.
TT_Matrix	Text on the image, printed with matrix printer.
TT_MICR_CMC7	Symbols, including only numerals and letters A,B,C,D,E, written with CMC-7 font.
TT_MICR_E13B	Symbols, including only numerals and letters A,B,C,D,E, printed with magnetic ink.
TT_Normal	General typegraphical type of text.
TT_OCR_A	Monoscaped font, made for OCR. It is widely used in the banks, on the credit cards, etc.
TT_OCR_B	Font, made for OCR.
TT_Receipt	Text within pay receipts, bills and vouchers. Different from the other text types, text font is not important, because FineReader considers text to be recognised the one that is low quality monospaced or ordinary font.

Название	Описание
TT_Typewriter	Text, printed with a typewriter.

CaseRecognitionModeEnum

Name	Description
CRM_Auto	Alphabetic shift automatic detection and its continuance within the output text.
CRM_CapitalCase	Text to be recognised to shift to capitals.
CRM_SmallCase	Text to be recognised to lowercase shift.

ParagraphExtractionModeEnum

Name	Description
PEM_NormalExtraction	Paragraphes normal extraction.
PEM_RoughExtraction	Minimum number of paragraphes to be extracted.
PEM_SingleLineParagraphsWithSpaceFormatting	Every line is extracted like a separate paragraph, formatted with spaces.
PEM_SingleLineParagraphsWithWordSeparationOnly	Every line is extracted like a paragraph with no space formatting between separate words.

MonospaceDetectionModeEnum

Name	Description
MDM_Auto	Monospaced font is automatically detected.
MDM_Ignore	Monospaced font detection option is to be ignored.
MDM_Monospace	To set monospaced font.
MDM_NotMonospace	To set not monospaced font.

RotationTypeEnum

Name	Description
RT_Clockwise	Rotates an image 90 degrees clockwise.
RT_Counterclockwise	Rotates an image 90 degrees counterclockwise.

Name	Description
RT_NoRotation	Does not rotate an image.
RT_Upsidedown	Rotates an image upside down.
RT_UnknownRotation	Rotation angle is undefined.

PhotoProcessingModeEnum

Name	Description
PPM_Auto	FineReader automatically detects if the image is a photo.
PPM_TreatAsPhoto	Image is treated as a photo.
PPM_TreatAsNonPhoto	Image is treated as non photo.

ImageCompressionEnum

Name	Description
IC_Auto	FineReader automatically detects if temporary image is to be compressed or not.
IC_Compress	Compresses an image via ZIP-compression.
IC_NoCompression	Does not compress an image.

2.1.16 FRProfile.ini example

Ini-file settings example, located in opt/iw/tm5/etc/FRProfile.ini:

Contents	Description
[RecognizerParams]	To use page recognition parameters.
TextLanguage = English,Russian	To set Russian and English languages for text recognition.
[PagePreprocessingParams]	To use page preprocessing parameters.
CorrectOrientation = True	To enable automatic orientation correction.
[PrepareImageMode]	To use image preprocessing parameters.
CorrectSkew = True	To enable image incline correction.
[FontFormattingDetectionParams]	To use font formatting parameters.
DetectFontFamily = False	Font detection disabling.

Contents	Description
`DetectBold = False`	Bold font detection disabling.
`DetectFontSize = False`	Font size detection disabling.
`[SynthesisParamsForPage]`	To use page synthesis parameters.
`DetectFontFormattingAtPageLevel= True`	To enable font formatting detection during the page synthesis phase.
`[SynthesisParamsForDocument]`	To use documents synthesis parameters.
`DetectFontFormatting = False`	To disable font formatting detection during the document synthesis phase.
`DetectDocumentStructure = False`	To disable document structure detection.
`[PageAnalysisParams]`	To use page analysis parameters.
`EnableTextExtractionMode = False`	To disable search mode for text blocks on a page.
`DetectPictures = False`	Image detection disabling.
`ProhibitModelAnalysis = True`	To disable model analysis.