<logfile> [-o <out>.logsig] -X URL [--ext-user user --ext-key key] -P URL [--cnstr oid=value]... [more_options] logksi extend <logfile> [-o <out>.logsig] -X URL [--ext-user user --ext-key key] -P URL [--cnstr oid=value]... --pub-str str [more options] logksi extend <logfile> [-o <out>.logsig] --conf logksi.conf [more options] logksi extend --sig-from-stdin [-o <out>.logsig] --conf logksi.conf [more_options] Finds the log signature file (<logfile>.logsig or <logfile>.gtsig) based on the specified log file <logfile> and extends KSI signatures in it to the desired publication. The log signature file is expected to be located in the same directory as the log file. Alternatively, if no < logfile > is specified, the log signature file may be read from stdin. To do that the --sig-from-stdin option should be used. If neither the < logfile > nor --sig-from-stdin option is given, help text is returned. After the signatures are extended and the corresponding publication records are attached, the log signatures can be verified using publication-based verification where only trusted publications file or a publication string in printed media is needed to perform the verification. See logksi-verify(1) for details. User must have access to KSI extending service and a trusted KSI publications file. By default the KSI signatures are extended to the earliest available publication. Use the option --pub-str to extend signatures to the publication denoted by the given publication string. Note that all KSI signatures present in the log signature file will be attempted to extend to the same publication. If for some reason the extending of at least one signature fails, none of the signatures are extended. logfile Name of the log file whose log signature file is to be extended. If < logfile > is specified, the --sig-from-stdin option cannot be used. --sig-fromstdin Use to read the log signature file from stdin. If no output file is specified with -o, the result will be returned to stdout. -o <out>.logsig Specify the name of the extended output log signature file. If not specified, the input file < logfile>.logsig or < logfile>.gtsig is modified. If the input file that is to be modified contains RFC3161 timestamps, the user must specify the --enable-rfc3161-conversion option to enable conversion, extending and replacing of RFC3161 timestamps with KSI signatures. The backup of the original log signature file will be saved to < logfile>.logsig.bak. If extending fails, the newly created <logfile>.logsig will be deleted and the original <logfile>.logsig will be restored from the backup file. If the output file name is explicitly specified, the existing file will always be overwritten and no backup file will be created. Use '-' as file name to redirect the output as a binary stream to stdout. -X URL Specify the extending service (KSI Extender) URL. --ext-user user Specify the username for extending service. --ext-key key Specify the HMAC key for extending service. --ext-hmac-alg alg Hash algorithm to be used for computing HMAC on outgoing messages towards KSI extender. If not set, default algorithm is used. Use logksi -h to get the list of supported hash algorithms. --ext-pdu-v str Specify the KSIEP (KSI Extension Protocol) PDU version. Valid values are v1 and v2. Note that use of v1 is **deprecated** and use of v2 is recommended. -P URL Specify the publications file URL (or file with URI scheme 'file://'). --cnstr oid=value Specify the OID of the PKI certificate field (e.g. e-mail address) and the expected value to qualify the certificate for verification of publications file's PKI signature. At least one constraint must be defined. All values from lower priority sources are ignored (see logksi-conf(5)). For more common OIDs there are convenience names defined: E or email for OID 1.2.840.113549.1.9.1 CN or cname for OID 2.5.4.3 C or country for OID 2.5.4.6 O or org for OID 2.5.4.10 --pubstr str Specify the publication record as publication string to extend the signatures to. -V file Specify the certificate file in PEM format for publications file verification. All values from lower priority sources are ignored (see logksiconf(5)). --enable-rfc3161-conversion Enable conversion, extending and replacing of RFC3161 timestamps with KSI signatures. Note: this flag is not required if a different output log signature file name is specified with -o to avoid overwriting of the original log signature file. -d Print detailed information about processes and errors to stderr. --conf file Read configuration options from the given file. It must be noted that configuration options given explicitly on command line will override the ones in the configuration file. See **logksi-conf**(5) for more information. --log file Write libksi log to the given file. Use '-' as file name to redirect the log to stdout. See logksi(1) for more information. In the following examples it is assumed that KSI service configuration options (URLs, access credentials) are defined. See logksi-conf(5) for more information. 1 To extend the signatures in /var/log/secure.logsig to the earliest available publication and save the file as /var/log/secureExt.logsig: logksi extend /var/log/secure -o /var/log/secureExt.logsig 2 To extend the signatures in /var/log/secure.logsig to the specified publication (the publication string available from Financial Times, ISSN: 0307-1766, 2016-03-17 given as example) and save the result with the default name /var/log/secure.logsig: logksi extend /var/log/secure --pub-str AAAAAA-CW45II-AAKWRK-F7FBNM-KB6FNV-DYYFW7-PJQN6F-JKZWBQ-3OQYZO-HCB7RA-YNYAGA-ODRL2V 3 To convert the RFC3161 timestamps in /var/log/secure.gtsig to KSI signatures, extend them to the earliest available

publication and save them in the original file /var/log/secure.gtsig: logksi extend /var/log/secure --enable-rfc3161-conversion Use the environment variable KSI_CONF to define the default configuration file. See logksi-conf(5) for more information. Guardtime AS, http://www.guardtime.com/ logksi(1), logksi-extract(1), logksi-inte-

grate(1), logksi-sign(1), logksi-verify(1), logksi-conf(5)

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