NAME

ldns_dnssec_zone_sign, ldns_dnssec_zone_sign_nsec3, ldns_dnssec_zone_mark_glue, ldns_dnssec_name_node_next_nonglue, ldns_dnssec_zone_create_nsecs, ldns_dnssec_remove_signatures, ldns_dnssec_zone_create_rrsigs - sign ldns_dnssec_zone

SYNOPSIS

```
#include <stdint.h>
#include <stdbool.h>

#include <ldns/ldns.h>

ldns_status ldns_dnssec_zone_sign(ldns_dnssec_zone *zone, ldns_rr_list *new_rrs, ldns_key_list
*key_list, int (*func)(ldns_rr *, void *), void *arg);

ldns_status ldns_dnssec_zone_sign_nsec3(ldns_dnssec_zone *zone, ldns_rr_list *new_rrs,
ldns_key_list *key_list, int (*func)(ldns_rr *, void *), void *arg, uint8_t algorithm, uint8_t flags,
uint16_t iterations, uint8_t salt_length, uint8_t *salt);

 ldns_dnssec_zone_mark_glue();

ldns_rbnode_t* ldns_dnssec_name_node_next_nonglue(ldns_rbnode_t *node);

ldns_status ldns_dnssec_zone_create_nsecs(ldns_dnssec_zone *zone, ldns_rr_list *new_rrs);

ldns_dnssec_rrs* ldns_dnssec_remove_signatures(ldns_dnssec_rrs *signatures, ldns_key_list
*key_list, int (*func)(ldns_rr *, void *), void *arg);

ldns_status ldns_dnssec_zone_create_rrsigs(ldns_dnssec_zone *zone, ldns_rr_list *new_rrs,
ldns_key_list *key_list, int (*func)(ldns_rr *, void*), void *arg);
```

DESCRIPTION

ldns_dnssec_zone_sign() signs the given zone with the given keys

zone: the zone to sign
key_list: the list of keys to sign the zone with
new_rrs: newly created resource records are added to this list, to free them later
func: callback function that decides what to do with old signatures This function takes an ldns_rr* and an optional void *arg argument, and returns one of four values:
LDNS_SIGNATURE_LEAVE_ADD_NEW: leave the signature and add a new one for the

corresponding key LDNS_SIGNATURE_REMOVE_ADD_NEW: remove the signature and replace is with a new one from the same key LDNS_SIGNATURE_LEAVE_NO_ADD: leave the signature and do not add a new one with the corresponding key LDNS_SIGNATURE_REMOVE_NO_ADD: remove the signature and do not replace

arg: optional argument for the callback function
Returns LDNS_STATUS_OK on success, an error code otherwise

ldns_dnssec_zone_sign_nsec3() signs the given zone with the given new zone, with NSEC3

zone: the zone to sign
key_list: the list of keys to sign the zone with
new_rrs: newly created resource records are added to this list, to free them later
func: callback function that decides what to do with old signatures
arg: optional argument for the callback function
algorithm: the NSEC3 hashing algorithm to use
flags: NSEC3 flags
iterations: the number of NSEC3 hash iterations to use
salt_length: the length (in octets) of the NSEC3 salt
salt: the NSEC3 salt data
Returns LDNS_STATUS_OK on success, an error code otherwise

ldns_dnssec_zone_mark_glue()

ldns_dnssec_name_node_next_nonglue() Finds the first dnssec_name node in the rbtree that is not occluded. It *does* return names that are partially occluded.

node: the first node to check
Returns the first node that has not been marked as glue, or NULL if not found (TODO: make that LDNS_RBTREE_NULL?)

ldns_dnssec_zone_create_nsecs() Adds NSEC records to the given dnssec_zone

zone: the zone to add the records to
new_rrs: ldns_rr's created by this function are added to this rr list, so the caller can free them later
Returns LDNS_STATUS_OK on success, an error code otherwise

ldns_dnssec_remove_signatures() remove signatures if callback function tells to

signatures: list of signatures to check, and possibly remove, depending on the value of the callback

key_list: these are marked to be used or not, on the return value of the callback
func: this function is called to specify what to do with each signature (and corresponding key)
arg: Optional argument for the callback function
Returns s pointer to the new signatures rrs (the original passed to this function may have been removed)

ldns_dnssec_zone_create_rrsigs() Adds signatures to the zone

zone: the zone to add RRSIG Resource Records to
new_rrs: the RRSIG RRs that are created are also added to this list, so the caller can free them later
key_list: list of keys to sign with.
func: Callback function to decide what keys to use and what to do with old signatures
arg: Optional argument for the callback function
Returns LDNS_STATUS_OK on success, error otherwise

AUTHOR

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REPORTING BUGS

Please report bugs to ldns-team@nlnetlabs.nl or in our bugzilla at
http://www.nlnetlabs.nl/bugs/index.html

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SEE ALSO

ldns_dnssec_zone. And **perldoc Net::DNS**, **RFC1034**, **RFC1035**, **RFC4033**, **RFC4034** and **RFC4035**.

REMARKS

This manpage was automatically generated from the ldns source code.