NAME

ldns_dnssec_trust_tree_new, ldns_dnssec_trust_tree_free, ldns_dnssec_trust_tree_depth, ldns_dnssec_derive_trust_tree, ldns_dnssec_trust_tree_contains_keys, ldns_dnssec_trust_tree_print, ldns_dnssec_trust_tree_print_sm, ldns_dnssec_trust_tree_add_parent, ldns_dnssec_derive_trust_tree_normal_rrset, ldns_dnssec_derive_trust_tree_dnskey_rrset, ldns_dnssec_derive_trust_tree_ds_rrset, ldns_dnssec_derive_trust_tree_no_sig - functions for ldns_dnssec_trust_tree

SYNOPSIS

```
#include <stdint.h>
#include <stdbool.h>
#include <ldns/ldns.h>
ldns_dnssec_trust_tree* ldns_dnssec_trust_tree_new(void);
void ldns_dnssec_trust_tree_free(ldns_dnssec_trust_tree *tree);
size_t ldns_dnssec_trust_tree_depth(ldns_dnssec_trust_tree *tree);
ldns_dnssec_trust_tree* ldns_dnssec_derive_trust_tree( ldns_dnssec_data_chain *data_chain, ldns_rr
*rr);
ldns_status ldns_dnssec_trust_tree_contains_keys( ldns_dnssec_trust_tree *tree, ldns_rr_list *keys);
void ldns dnssec trust tree print(FILE *out, ldns dnssec trust tree *tree, size t tabs, bool extended);
ldns_dnssec_trust_tree_print_sm();
ldns_status ldns_dnssec_trust_tree_add_parent(ldns_dnssec_trust_tree *tree, const
ldns_dnssec_trust_tree *parent, const ldns_rr *parent_signature, const ldns_status parent_status);
void ldns dnssec derive trust tree normal rrset(ldns dnssec trust tree *new tree,
ldns_dnssec_data_chain *data_chain, ldns_rr *cur_sig_rr);
void ldns_dnssec_derive_trust_tree_dnskey_rrset( ldns_dnssec_trust_tree *new_tree,
ldns_dnssec_data_chain *data_chain, ldns_rr *cur_rr, ldns_rr *cur_sig_rr);
void ldns dnssec derive trust tree ds rrset(ldns dnssec trust tree *new tree,
```

```
ldns_dnssec_data_chain *data_chain, ldns_rr *cur_rr);
void ldns_dnssec_derive_trust_tree_no_sig( ldns_dnssec_trust_tree *new_tree, ldns_dnssec_data_chain *data_chain);
```

DESCRIPTION

ldns_dnssec_trust_tree_new() Creates a new (empty) dnssec_trust_tree structure

Returns ldns dnssec trust tree *

ldns_dnssec_trust_tree_free() Frees the dnssec_trust_tree recursively

There is no deep free; all data in the trust tree consists of pointers to a data_chain

tree: The tree to free

ldns_dnssec_trust_tree_depth() returns the depth of the trust tree

tree: tree to calculate the depth of Returns The depth of the tree

ldns_dnssec_derive_trust_tree() Generates a dnssec_trust_tree for the given rr from the given
data_chain

This does not clone the actual data; Don't free the data_chain before you are done with this tree

*data_chain: The chain to derive the trust tree from

*rr: The RR this tree will be about Returns ldns_dnssec_trust_tree *

ldns_dnssec_trust_tree_contains_keys() Returns OK if there is a trusted path in the tree to one of the DNSKEY or DS RRs in the given list

\param *tree The trust tree so search \param *keys A ldns_rr_list of DNSKEY and DS rrs to look for

Returns LDNS_STATUS_OK if there is a trusted path to one of the keys, or the *first* error encountered if there were no paths

ldns_dnssec_trust_tree_print() Prints the dnssec_trust_tree structure to the given file stream.

If a link status is not LDNS_STATUS_OK; the status and relevant signatures are printed too

*out: The file stream to print to tree: The trust tree to print

tabs: Prepend each line with tabs*2 spaces

extended: If true, add little explanation lines to the output

ldns dnssec trust tree print sm()

ldns_dnssec_trust_tree_add_parent() Adds a trust tree as a parent for the given trust tree

*tree: The tree to add the parent to

*parent: The parent tree to add

*parent_signature: The RRSIG relevant to this parent/child connection parent_status: The DNSSEC status for this parent, child and RRSIG Returns LDNS_STATUS_OK if the addition succeeds, error otherwise

new_tree: The trust tree that we are building

data_chain: The data chain containing the data for the trust tree

cur_sig_rr: The currently relevant signature

ldns_dnssec_derive_trust_tree_dnskey_rrset() Sub function for derive_trust_tree that is used for
DNSKEY rrsets

new_tree: The trust tree that we are building

data_chain: The data chain containing the data for the trust tree

cur_rr: The currently relevant DNSKEY RR
cur_sig_rr: The currently relevant signature

ldns_dnssec_derive_trust_tree_ds_rrset() Sub function for derive_trust_tree that is used for DS rrsets

new_tree: The trust tree that we are building

data_chain: The data chain containing the data for the trust tree

cur_rr: The currently relevant DS RR

ldns_dnssec_derive_trust_tree_no_sig() Sub function for derive_trust_tree that is used when there are no signatures

new_tree: The trust tree that we are building

data_chain: The data chain containing the data for the trust tree

AUTHOR

The ldns team at NLnet Labs.

REPORTING BUGS

Please report bugs to dns-team@nlnetlabs.nl or on GitHub at https://github.com/NLnetLabs/ldns/issues

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SEE ALSO

ldns_dnssec_data_chain, ldns_dnssec_trust_tree. And peridoc Net::DNS, RFC1034, RFC1035, RFC4033, RFC4034 and RFC4035.

REMARKS

This manpage was automatically generated from the ldns source code.