

DNSSEC lifecycle report

iodyn.net

Time window

earliest → now

Generated

2026-04-15T09:33:34.081021+00:00

Key directory

`/mnt/bind/keys/iodyn.net`

Summary

During the reported window 9 DNS observation(s).

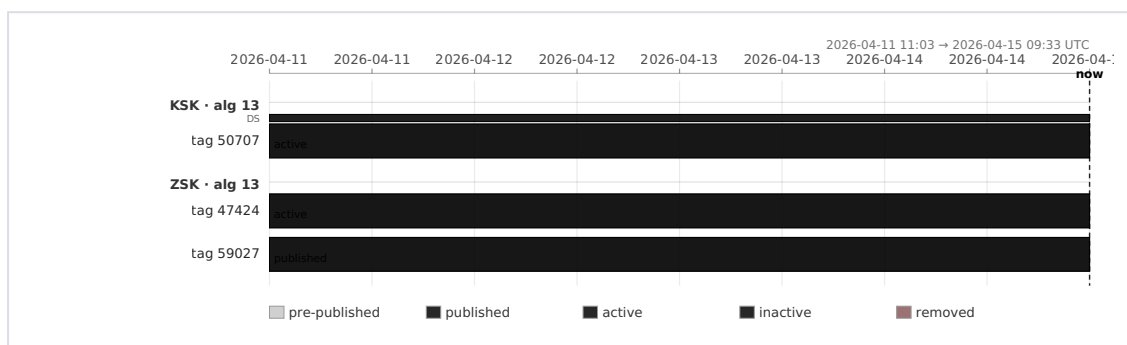
- Keys observed: 3
- Events recorded: 16
- State changes (state_file): 0
- State changes (rndc dnssec -status): 0
- DNS observations (zone + parent): 9
- iodyn-dnssec actions: 0

Key inventory

Tag	Role	Algorithm	Key id	First seen
50707	KSK	13	Kiodyn.net. +013+50707	2026-04-11T11:03:18Z
47424	ZSK	13	Kiodyn.net. +013+47424	2026-04-11T11:03:18Z
59027	ZSK	13	Kiodyn.net. +013+59027	2026-04-11T11:03:18Z

Rollover view

Every observed key on a time axis, grouped by (role, algorithm), with phase-coloured bars (pre-published / published / active / retired / removed). A thin DS overlay stripe above each KSK row shows when the parent-side chain of trust was actually complete, which is often when the interesting DNSSEC stories happen. If two algorithms are simultaneously active, the overlap region is highlighted behind their bars.



Calendar view

Monthly calendars covering the reported window. Each day is shaded by the number of events observed and carries a coloured dot for every event source that fired that day. Hover any day for the count and a sample of the events (live UI only).

- on-disk state
- rndc dnssec -status
- DNS probe
- K*.key timing
- iodyn / syslog
- named.log
- scheduled (from K*.key)
- 0 today

July 2025						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

August 2025						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

September 2025

Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5

October 2025

Mon	Tue	Wed	Thu	Fri	Sat	Sun
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2

November 2025

Mon	Tue	Wed	Thu	Fri	Sat	Sun
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

December 2025						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4







January 2026						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

February 2026						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	1

March 2026

Mon	Tue	Wed	Thu	Fri	Sat	Sun
23	24	25	26	27	28	1
2	3	4	5 	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

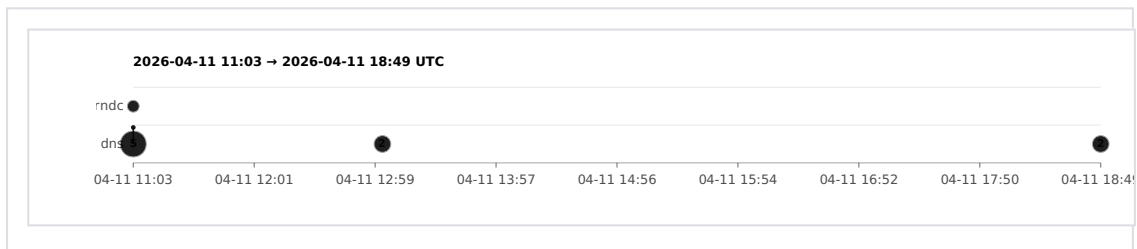
April 2026

Mon	Tue	Wed	Thu	Fri	Sat	Sun
30	31	1	2	3	4	5
6	7	8	9	10	   11	12
13 	14	15	16	17	18	19
20	21	22	23	24	25	26
27 	28	29	30	1 	2	3

May 2026						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

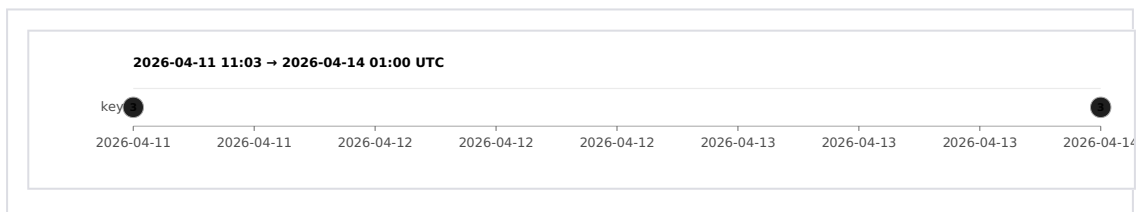
DNS event timeline

Events observed via live DNS queries and reported by `rndc dnssec -status`. Dots are coloured by source, stacked to avoid overlap, and the significant transitions are labelled inline.



File event timeline

Changes observed directly on disk — every modification to a `K*.state` or `K*.key` file. Paired with the DNS timeline above, divergence between the two channels is usually where the interesting DNSSEC bugs live.



State machine timeline

Colour bars show each key's state-machine value over the window. Separate lanes for `GoalState`, `DNSKEYState`, `KRRSIGState`, `ZRRSIGState`, and `DSSState`. The `rndc` view is drawn below from `rndc dnssec -status`; discrepancies between the two are where bugs and BIND quirks usually live.

No state transitions recorded in this window.

BIND's view (`rndc dnssec -status`)

No `rndc` state transitions recorded in this window.

Chronological event log

2026-04-11

Time	Source	Key	Type	Summary
11:03:18Z	key	ZSK 59027	key_file_observed	new K*.key for iodyn.net ZSK tag=59027
11:03:18Z	key	KSK 50707	key_file_observed	new K*.key for iodyn.net KSK tag=50707
11:03:18Z	key	ZSK 47424	key_file_observed	new K*.key for iodyn.net ZSK tag=47424
11:03:19Z	dns	59027	dns_dnskey_appeared_at_zone	DNSKEY (key tag 59027) appeared at zone for iodyn.net
11:03:19Z	dns	47424	dns_dnskey_appeared_at_zone	DNSKEY (key tag 47424) appeared at zone for iodyn.net
11:03:19Z	dns	50707	dns_dnskey_appeared_at_zone	DNSKEY (key tag 50707) appeared at zone for iodyn.net
11:03:19Z	dns		dns_soa_appeared_at_zone	SOA observed at zone for iodyn.net (serial 96)
11:03:19Z	dns	50707	dns_ds_appeared_at_parent	DS (key tag 50707) appeared at parent for iodyn.net
11:03:19Z	rndc		rndc_first_observation	

Time	Source	Key	Type	Summary
				iodyn.net: observed 0 key(s) via rndc
13:03:18Z	dns	50707	dns_rrsig_appeared_at_zone	RRSIG over DNSKEY (key tag 50707) appeared at zone for iodyn.net
13:03:18Z	dns	47424	dns_rrsig_appeared_at_zone	RRSIG over SOA (key tag 47424) appeared at zone for iodyn.net
18:49:06Z	dns	47424	dns_rrsig_appeared_at_zone	RRSIG over SOA (key tag 47424) appeared at zone for iodyn.net
18:49:06Z	dns	47424	dns_rrsig_disappeared_at_zone	RRSIG over SOA (key tag 47424) disappeared at zone for iodyn.net

2026-04-14

Time	Source	Key	Type	Summary
01:00:06Z	key	ZSK 59027	key_timing_changed	iodyn.net ZSK tag=59027 Activate: 20260421000000 -> 20260428000000
01:00:06Z	key	ZSK 47424	key_timing_changed	iodyn.net ZSK tag=47424 Inactive: 20260421000000 -> 20260428000000
01:00:06Z	key	ZSK 47424	key_timing_changed	iodyn.net ZSK tag=47424 Delete: 20260425000000 -> 20260502000000

Per-key breakdown

For every observed key: the current `K*.key` timings and `K*.state` fields captured at report time, plus a calendar and split DNS / File timelines limited to that key's events. KSKs naturally show their DS lifecycle at the parent because DS events are tagged by key tag at emit time.

KSK · tag 50707

Algorithm: 13 · Key id: `Kiodyn.net.+013+50707` · First seen: 2026-04-11T11:03:18Z

K*.key file timings

Field	Value
Created	2025-07-09 10:32:36 UTC
Publish	2025-07-13 00:00:00 UTC
Activate	2025-07-17 00:00:00 UTC
Revoke	–
Inactive	–
Delete	–
SyncPublish	–
SyncDelete	–









K*.state — state machine

Field	Value
	<i>none observed</i>



K*.state — timestamps

Field	Value
	<i>none observed</i>

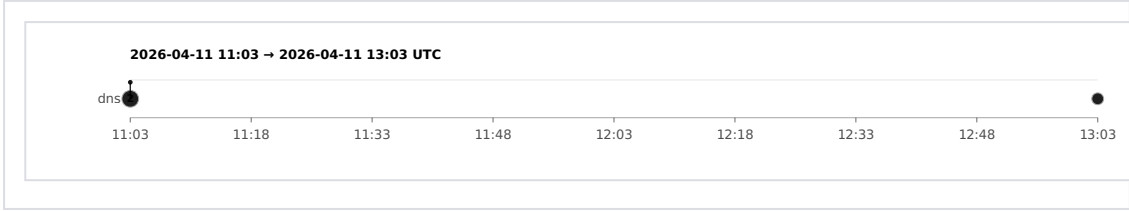
Calendar

-  on-disk state
-  rndc dnssec -status
-  DNS probe
-  K*.key timing
-  iodyn / syslog
-  named.log
-  scheduled (from K*.key)
-  0 today

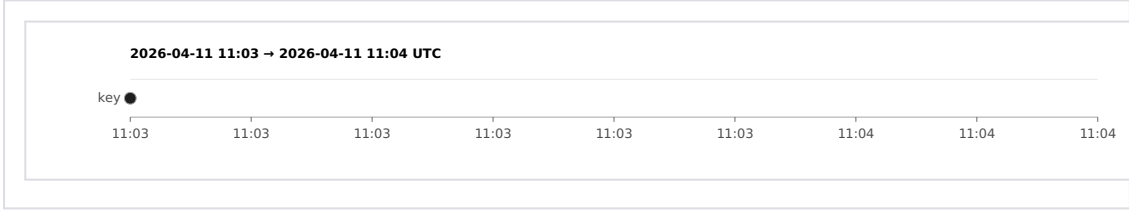
April 2026

Mon	Tue	Wed	Thu	Fri	Sat	Sun
30	31	1	2	3	4	5
6	7	8	9	10	  11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3

DNS events for this key



File events for this key



ZSK · tag 47424

Algorithm: 13 · Key id: `Kiodyn.net.+013+47424` · First seen: 2026-04-11T11:03:18Z

K*.key file timings

Field	Value
Created	2025-09-29 01:00:01 UTC
Publish	2025-10-03 00:00:00 UTC
Activate	2025-10-07 00:00:00 UTC
Revoke	–
Inactive	2026-04-28 00:00:00 UTC
Delete	2026-05-02 00:00:00 UTC
SyncPublish	–
SyncDelete	–

K*.state — state machine

Field	Value
	<i>none observed</i>









K*.state — timestamps

Field	Value
	<i>none observed</i>

Timing changes observed

When	Source	Field	Old	New
2026-04-14T01:00:06Z	key	Inactive	2026-04-21 00:00:00 UTC	2026-04-28 00:00:00 UTC
2026-04-14T01:00:06Z	key	Delete	2026-04-25 00:00:00 UTC	2026-05-02 00:00:00 UTC

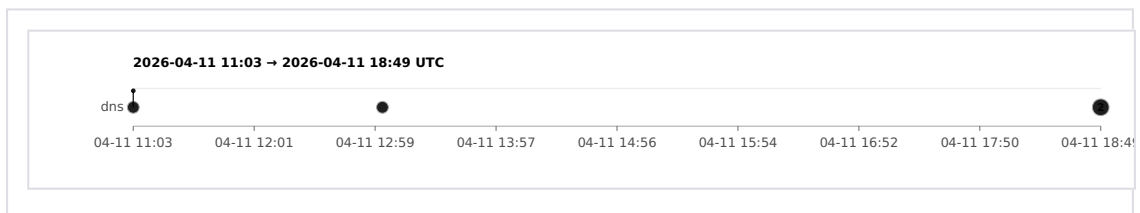
Calendar

-  on-disk state
-  mdc dnssec -status
-  DNS probe
-  K*.key timing
-  iodyn / syslog
-  named.log
-  scheduled (from K*.key)
-  today

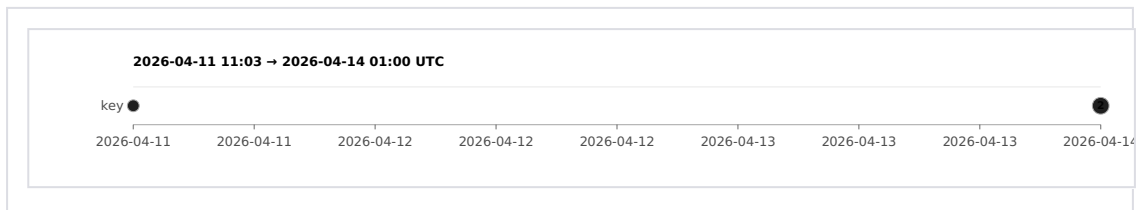
April 2026

Mon	Tue	Wed	Thu	Fri	Sat	Sun
30	31	1	2	3	4	5
6	7	8	9	10	● ● 11	12
13 ●	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3

DNS events for this key



File events for this key



ZSK · tag 59027

Algorithm: 13 · Key id: `Kiodyn.net.+013+59027` · First seen: 2026-04-11T11:03:18Z

K*.key file timings

Field	Value
Created	2026-03-02 01:00:01 UTC
Publish	2026-03-06 00:00:00 UTC
Activate	2026-04-28 00:00:00 UTC
Revoke	–
Inactive	2026-05-05 00:00:00 UTC
Delete	2026-05-09 00:00:00 UTC
SyncPublish	–
SyncDelete	–

K*.state — state machine

Field	Value
	<i>none observed</i>

K*.state — timestamps

Field	Value
	<i>none observed</i>

Timing changes observed

When	Source	Field	Old	New
2026-04-14T01:00:06Z	key	Activate	2026-04-21 00:00:00 UTC	2026-04-28 00:00:00 UTC

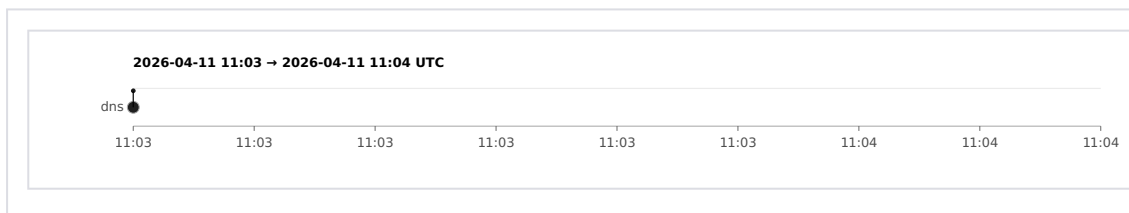
Calendar

- on-disk state
- rncd dnssec -status
- DNS probe
- K*.key timing
- iodyn / syslog
- named.log
- scheduled (from K*.key)
- 0 today

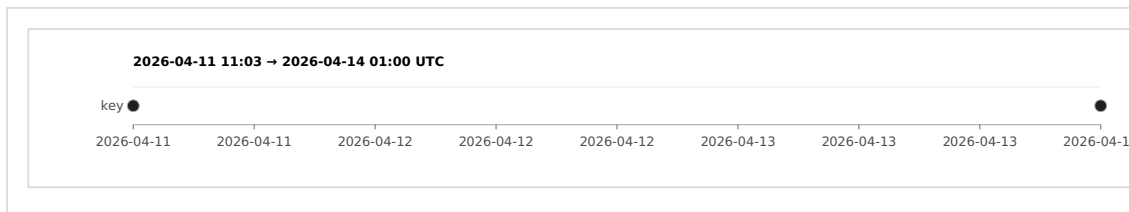
April 2026

Mon	Tue	Wed	Thu	Fri	Sat	Sun
30	31	1	2	3	4	5
6	7	8	9	10	•• 11	12
13 •	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3

DNS events for this key



File events for this key



DNS observations

Samples of what was visible at the zone and at the parent.

When	Where	Type	Change
2026-04-11T11:03:19Z	zone	DNSKEY	DNSKEY (key tag 59027) appeared at zone for iodyn.net
2026-04-11T11:03:19Z	zone	DNSKEY	DNSKEY (key tag 47424) appeared at zone for iodyn.net
2026-04-11T11:03:19Z	zone	DNSKEY	DNSKEY (key tag 50707) appeared at zone for iodyn.net
2026-04-11T11:03:19Z	zone	SOA	SOA observed at zone for iodyn.net (serial 96)
2026-04-11T11:03:19Z	parent	DS	DS (key tag 50707) appeared at parent for iodyn.net
2026-04-11T13:03:18Z	zone	RRSIG	RRSIG over DNSKEY (key tag 50707) appeared at zone for iodyn.net
2026-04-11T13:03:18Z	zone	RRSIG	RRSIG over SOA (key tag 47424) appeared at zone for iodyn.net
2026-04-11T18:49:06Z	zone	RRSIG	RRSIG over SOA (key tag 47424) appeared at zone for iodyn.net
2026-04-11T18:49:06Z	zone	RRSIG	RRSIG over SOA (key tag 47424) disappeared at zone for iodyn.net

Appendix — raw state snapshots

No state snapshots were captured in this window.