

## Appendix A. Example Zone

This is a zone showing its NSEC3 RRs. They can also be used as test vectors for the hash algorithm.

The overall TTL and class are specified in the SOA RR, and are subsequently omitted for clarity.

The zone is preceded by a list that contains the hashes of the original ownernames.

```
; H(example)           = 0p9mhavEqvm6t7vbl5lop2u3t2rp3tom
; H(a.example)         = 35mthgpgculqg68fab165klnsnk3dpvl
; H(ai.example)        = gjeqe526plbflg8mklp59enfd789njgi
; H(ns1.example)       = 2t7b4g4vsa5smi47k61mv5bv1a22bojr
; H(ns2.example)       = q04jkcevqvmu85r014c7dkba38o0ji5r
; H(w.example)         = k8udemvplj2f7eg6jebps17vp3n8i58h
; H(*.w.example)       = r53bq7cc2uvmubfu5ocmm6pers9tk9en
; H(x.w.example)       = b4um86eghhds6nea196smvmlo4ors995
; H(y.w.example)       = ji6neaepv8b5o6k4ev33abha8ht9fgc
; H(x.y.w.example)     = 2vptu5timamqttgl4luu9kg21e0aor3s
; H(xx.example)        = t644ebqk9bibcna874givr6joj62mlhv
; H(2t7b4g4vsa5smi47k61mv5bv1a22bojr.example)
;                       = kohar7mbb8dc2ce8a9qvl8hon4k53uhi
example. 3600 IN SOA ns1.example. bugs.x.w.example. 1 3600 300 (
    3600000 3600 )
RRSIG SOA 7 1 3600 20150420235959 20051021000000 (
    40430 example.
    Hu25UIyNPmvPIVBrldN+9Mlp9Zql39qaUd8i
    q4ZLlYWfUUbbaS41pG+68z81qlxhkYAcEyHd
    VI2LmKusbZsT0Q== )
NS ns1.example.
NS ns2.example.
RRSIG NS 7 1 3600 20150420235959 20051021000000 (
    40430 example.
    PVOgtMK1HHeSTau+HwDWC8Ts+6C8qtqd4pQJ
    qOtdEVgg+MA+ai4fWDEhu3qHJyLcQ9tbD2vv
    CnMXjtz6SyObxA== )
MX 1 xx.example.
RRSIG MX 7 1 3600 20150420235959 20051021000000 (
    40430 example.
    GgQ1A9xs47k42VPvpL/a1BWUz/6XsnHkjotw
    9So8MQtZtl2wJBsnOQsaoHrRCrRbyriEl/GZ
    n9Mto/Kx+wBo+w== )
DNSKEY 256 3 7 AwEAAetidLzsKWUt4swWR8yu0wPHPiUi8LU (
    sAD0QPWU+wzt89epO6tHzkMBVDkC7qphQO2h
    TY4hHn9npWFRw5BYubE= )
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DNSKEY 257 3 7 AwEAAcUlFV1vhmqx6NSOUOq2R/dsR7Xm3upJ (
j7IommWSpJABVfW8Q0rOvXdM6kzt+TAu92L9
AbsUdblMFin8CVF3n4s= )
RRSIG DNSKEY 7 1 3600 20150420235959 (
20051021000000 12708 example.
AuU4juU9RaxescSmStrQks3Gh9FblGB1VU31
uzMZ/U/FpsUb8aC6QZS+sTsJXnLnz7flG0sm
MGQZf3bH+QsCtg== )
NSEC3PARAM 1 0 12 aabbccdd
RRSIG NSEC3PARAM 7 1 3600 20150420235959 (
20051021000000 40430 example.
C1G18tPZNtnjlrYWDdeUV/sGLCyy/IHie2re
rN05XSA3Pq0U3+4VvGWYwdUMfflOdxqnXHWJ
TLQsjlkynhG6Cg== )
0p9mhaveqvm6t7vbl5lop2u3t2rp3tom.example. NSEC3 1 1 12 aabbccdd (
2t7b4g4vsa5smi47k61mv5bv1a22bojr MX DNSKEY NS
SOA NSEC3PARAM RRSIG )
RRSIG NSEC3 7 2 3600 20150420235959 20051021000000 (
40430 example.
OSgWsm26B+cS+DDL8b5QrWr/dEWhtCsKlwKL
IBHYH6blRxK9rC0bMJPwQ4mLiUw85H2EY762
BOCXJZMnpuwhpA== )
2t7b4g4vsa5smi47k61mv5bv1a22bojr.example. A 192.0.2.127
RRSIG A 7 2 3600 20150420235959 20051021000000 (
40430 example.
h6c++bzhRuWWt2bykN6mjaTNBcXNq5UuL5Ed
K+iDP4eY8I0kSiKaCjg3tC1SQkeloMeub2GW
k8p6xHMPZumXlw== )
NSEC3 1 1 12 aabbccdd (
2vptu5timamqttgl4luu9kg21e0aor3s A RRSIG )
RRSIG NSEC3 7 2 3600 20150420235959 20051021000000 (
40430 example.
OmBvJ1VgglhCKMXHFiNeIYHK9XVW0iLDLwJN
4TFoNxZuP03gAXEI634YwOc4YBNITrj413iq
NI6mRk/rldOSUw== )
2vptu5timamqttgl4luu9kg21e0aor3s.example. NSEC3 1 1 12 aabbccdd (
35mthgpgculqg68fab165klnsnk3dpvl MX RRSIG )
RRSIG NSEC3 7 2 3600 20150420235959 20051021000000 (
40430 example.
KL1V2oFYghNV0Hm7Tf2vpJjM6l+0g1JCcVYG
VfI0lKrhPmTsOA96cLEACgolx8I7kApJX+ob
TuktZ+sdsZPYlw== )
35mthgpgculqg68fab165klnsnk3dpvl.example. NSEC3 1 1 12 aabbccdd (
b4um86eghds6neal96smvml04ors995 NS DS RRSIG )

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RRSIG NSEC3 7 2 3600 20150420235959 20051021000000 (
40430 example.
g6jPUUpduAJKRljUsN8gB4UagAX0NxY9shwQ
Aynzo8EUWH+z6hEIBlUTPGj15eZl16VhQqgZ
XtAIR3chwgW+SA== )
a.example. NS ns1.a.example.
NS ns2.a.example.
DS 58470 5 1 (
3079F1593EBAD6DC121E202A8B766A6A4837206C )
RRSIG DS 7 2 3600 20150420235959 20051021000000 (
40430 example.
XacFcQVHLVzdoc45EJhN616zQ4mEXtE8FzUh
M2KWjfy1VfRKD9rlMeVGwwoukOKgJxBPFsWo
o722vZ4UZ2dIdA== )
ns1.a.example. A 192.0.2.5
ns2.a.example. A 192.0.2.6
ai.example. A 192.0.2.9
RRSIG A 7 2 3600 20150420235959 20051021000000 (
40430 example.
hVe+wKYMlObTRPhX0NL67GxeZfdxqr/QeR6F
tfdAj5+FgYxyzPEjIzvKWy00hWl16wD3Vws+
rznEn8sQ64UdqA== )
HINFO "KLH-10" "ITS"
RRSIG HINFO 7 2 3600 20150420235959 20051021000000 (
40430 example.
Yi42uOq43eyO6qXHNvwwfFnIustWgV5urFcX
enkLvs6pKRh00VBjODmf3Z4nMO7IOl6nHSQ1
v0wLHpEZG7Xj2w== )
AAAA 2001:db8:0:0:0:0:f00:baa9
RRSIG AAAA 7 2 3600 20150420235959 20051021000000 (
40430 example.
LcdxKaCB5bGZwPDg+3JJ4002zoMBrjxqlf6W
uaHQZZfTUpb9Nf2nxFGGe2XRPfR5tpJT6GdRG
cHueLuXkMjBARQ== )
b4um86eghds6neal96smvml04ors995.example. NSEC3 1 1 12 aabbccdd (
gjeqe526plbflg8mklp59enfd789njgi MX RRSIG )
RRSIG NSEC3 7 2 3600 20150420235959 20051021000000 (
40430 example.
ZkPG3M32lmoHM6pa3D6gZFGB/rhL//Bs3Omh
5u4m/CUiwtblEVOaAKKZd7S959OeiX43aLX3
pOv0TSTyiTxIZg== )
c.example. NS ns1.c.example.
NS ns2.c.example.
ns1.c.example. A 192.0.2.7
ns2.c.example. A 192.0.2.8
gjeqe526plbflg8mklp59enfd789njgi.example. NSEC3 1 1 12 aabbccdd (
ji6neoapv8b5o6k4ev33abha8ht9fgc HINFO A AAAA
RRSIG )

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RRSIG NSEC3 7 2 3600 20150420235959 20051021000000 (
40430 example.
IVnezTJ9iqblFF97vPSmfXZ5Zozngx3KX3by
LTZC4QBH2dFWWhf6scrGFZB980AfCxoD9qbbK
Dy+rdGIeRSVNYw== )
ji6neoaepv8b5o6k4ev33abha8ht9fgc.example. NSEC3 1 1 12 aabbccdd (
k8udemvplj2f7eg6jebps17vp3n8i58h )
RRSIG NSEC3 7 2 3600 20150420235959 20051021000000 (
40430 example.
gPkFpls2QDQ6wQzcgluSebZ61W33rUBDcTj7
2F3kQ490fEdp7k1BUIfbcZtPbX3YCpE+sIt0
MpzVSKfTwx4uYA== )
k8udemvplj2f7eg6jebps17vp3n8i58h.example. NSEC3 1 1 12 aabbccdd (
kohar7mbb8dc2ce8a9qvl8hon4k53uhi )
RRSIG NSEC3 7 2 3600 20150420235959 20051021000000 (
40430 example.
FtXGbvF0+wf8iWkyo73enAuVx03klN+pILBK
S6qCcftVtFH4yVzsEZquJ27NHR7ruxJWDNMt
Otx7w9WfcIg62A== )
kohar7mbb8dc2ce8a9qvl8hon4k53uhi.example. NSEC3 1 1 12 aabbccdd (
q04jkcevqvmu85r014c7dkba38o0ji5r A RRSIG )
RRSIG NSEC3 7 2 3600 20150420235959 20051021000000 (
40430 example.
VrDXs2uVW21N08SyQIz88zml+y4ZCInTwgDr
6zz43yAg+LFErjOrj3Ojct51ac7Dp4eZbf9F
QJazmASFKGxGXg== )
ns1.example. A 192.0.2.1
RRSIG A 7 2 3600 20150420235959 20051021000000 (
40430 example.
bu6kx73n6XEunoVGURfAgY7EF/AJqHy7hj0j
kiqJjB0dOrx3wuz9SaBeGfqWIdn/uta3SavN
4FRvZR9SCFHF5Q== )
ns2.example. A 192.0.2.2
RRSIG A 7 2 3600 20150420235959 20051021000000 (
40430 example.
ktQ3TqE0Cfrfki0Rb/Ip5BM0VnxelbuejCC4
zpLbFKA/7eD7UNAwxMgxJPTbdST+syjYSJaj
4IHfeX6n8vfoGA== )
q04jkcevqvmu85r014c7dkba38o0ji5r.example. NSEC3 1 1 12 aabbccdd (
r53bq7cc2uvmubfu5ocmm6pers9tk9en A RRSIG )
RRSIG NSEC3 7 2 3600 20150420235959 20051021000000 (
40430 example.
hV5I89b+4FHJDATp09g4bbN0R1F845CaXpL3
ZxlMKimoPAYqletMlEWwLfFia7sdpSzn+ZlN
NlkxWcLsIlMmUg== )

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r53bq7cc2uvmubfu5ocmm6pers9tk9en.example. NSEC3 1 1 12 aabbccdd (

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t644ebqk9bibcna874givr6joj62mlhv MX RRSIG )
RRSIG NSEC3 7 2 3600 20150420235959 20051021000000 (
40430 example.
aupviVirus4bDg9rCbezzBMf9h1ZlDvbW/C
ZFKulIGXXLj8B/fsDJarXVDA9bnUoRhEbKp+
HF1FWKW7RIJdtQ== )
t644ebqk9bibcna874givr6joj62mlhv.example. NSEC3 1 1 12 aabbccdd (
0p9mhaveqvm6t7vbl5lop2u3t2rp3tom HINFO A AAAA
RRSIG )
RRSIG NSEC3 7 2 3600 20150420235959 20051021000000 (
40430 example.
RAjGECB8P7O+F4Pa4Dx3tC0M+Z3KmlLKImca
fb9XWwx+NWUNz7NBEDBQHivIyKPVDkChcePI
XlxPl1ATNa+8Dw== )
*.w.example. MX 1 ai.example.
RRSIG MX 7 2 3600 20150420235959 20051021000000 (
40430 example.
CikebjQwGQPwijVcxgcZcSJKtfynugtlBiKb
9FcBTrmOoyQ4InoWVudhCWsh/URX3lc4WRUM
ivEBP6+4KS3ldA== )
x.w.example. MX 1 xx.example.
RRSIG MX 7 3 3600 20150420235959 20051021000000 (
40430 example.
IrK3tq/tHFIBF0scHiE/1IwMAvckS/55hAVv
QyxTFbkAdDloP3NbZzu+yoSsr3b3OX6qbBpY
7WCtwwekLKRAWQ== )
x.y.w.example. MX 1 xx.example.
RRSIG MX 7 4 3600 20150420235959 20051021000000 (
40430 example.
MqSt5HqJIN8+SLlzTOImrh5h9Xa6gDvAW/Gn
nbdPc6Z7nXvCpLPJj/5lCwx3VuzVOjkbvXze
8/8Ccl2Zn2hbug== )
xx.example. A 192.0.2.10
RRSIG A 7 2 3600 20150420235959 20051021000000 (
40430 example.
T35hBWEZ017VC5u2c4OriKyVn/pu+fVK4AlX
YOxJ6iQylfV2HQIKjv6b7DzINB3aF/wjJqgX
pQvhq+Ac6+ZiFg== )
HINFO "KLH-10" "TOPS-20"
RRSIG HINFO 7 2 3600 20150420235959 20051021000000 (
40430 example.
KimG+rDd+7VA1zRsu0ITNAQUTRlpnsmqWrih
FRnU+bRa93v2e5oFNFYCs3Rqgv62K93N7AhW
6Jfqj/8NzWjvKg== )
AAAA 2001:db8:0:0:0:0:f00:baaa

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RRSIG AAAA 7 2 3600 20150420235959 20051021000000 (
40430 example.

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IXBcXORITNwd8h3gNwyxtYFvAupS/CYWufVe  
uBUX0O25ivBCULjZjpDxFSxfob/KA7YRdxE  
NzYfMITpILl/Xw== )