

QSC

QSC verwendet  [Name Authority Pointer rfc 2915](#) um den Registrar im DNS abzulegen.

Mit folgenden Befehlen lässt sich „richtige“ Registrar herausfinden.

```
$ dig -t NAPTR sipconnect.qsc.de

; <<>> DiG 9.11.2 <<>> -t NAPTR sipconnect.qsc.de
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 32308
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags;; udp: 4000
; COOKIE: 19d5f91e9f297bd1 (echoed)
;; QUESTION SECTION:
; sipconnect.qsc.de.      IN      NAPTR

;; ANSWER SECTION:
sipconnect.qsc.de. 4639    IN      NAPTR   100 50 "s" "SIP+D2U" "" _sip._udp.sipconnect.qsc.de.

;; Query time: 0 msec
;; SERVER: 10.0.200.1#53(10.0.200.1)
;; WHEN: Mon Sep 18 15:41:23 CEST 2017
;; MSG SIZE rcvd: 114
```

Der NAPTR wird so aufgelöst:

```
$ dig -t SRV _sip._udp.sipconnect.qsc.de

; <<>> DiG 9.11.2 <<>> -t SRV _sip._udp.sipconnect.qsc.de
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 46145
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 3

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags;; udp: 4000
; COOKIE: 233774fcc0cb445a (echoed)
;; QUESTION SECTION:
; _sip._udp.sipconnect.qsc.de.  IN      SRV

;; ANSWER SECTION:
_sip._udp.sipconnect.qsc.de. 9747 IN      SRV     20 10 5060 duro02.sipconnect.qsc.de.
_sip._udp.sipconnect.qsc.de. 9747 IN      SRV     10 10 5060 duro01.sipconnect.qsc.de.

;; ADDITIONAL SECTION:
duro02.sipconnect.qsc.de. 9747 IN      A       213.148.136.190
duro01.sipconnect.qsc.de. 9747 IN      A       213.148.136.222

;; Query time: 0 msec
;; SERVER: 10.0.200.1#53(10.0.200.1)
;; WHEN: Mon Sep 18 15:41:28 CEST 2017
;; MSG SIZE rcvd: 188
```

Beispiel:

Routes - SIP gateways

Title:	QSC	sip.conf:
Name:	gw_9_qsc	[peer-name]
Registrar / Server:	duro02.sipconnect.qsc.de.	host
Proxy [1]:		outboundproxy
Username [2]:	@sipconnect.qsc.de	defaultuser / fromuser@fromdomain
Password:		secret
Authuser [3]:		authuser
	<input checked="" type="checkbox"/> permit outbound calls <input checked="" type="checkbox"/> register	..., register
Language:	de - German (de-DE) ▾	language = de en
Dial() argument [4]:	SIP/{number: 1}@{gateway}	~ Dial(SIP/...)
Extract target number from:	to-header - Extract target number from SIP `to` header ▾	
Group [5]:	Amt ▾	context = from-gg-amt
Port [6]:	5060 (Default: 5060)	port
Is behind NAT:	<input checked="" type="radio"/> yes <input type="radio"/> no <input type="radio"/> Force rport <input type="radio"/> comedia only (Default: yes)	nat = yes no force_rport comedia
Reroute RTP stream:	no - Don't reroute RTP stream (default) ▾	directmedia = no yes nonat update update, nonat
Monitor availability:	<input type="radio"/> yes <input checked="" type="radio"/> no (Default: yes)	qualify = yes no
Simultaneous calls:	0 (0 for unlimited, Default: 0)	call-limit
DTMF mode:	rfc2833 - RTP meta data ▾ (Default no.: rfc2833)	dtmfmode
Insecure:	invite - no authentication on incoming invites ▾	insecure = no port invite port, invite
Update Remote-Party-ID:	no - Deactivated (default) ▾	sendrpid = no yes pai
Trust Remote-Party-ID:	no - Deactivated (default) ▾	trustrpid = no yes
Codecs:	<input checked="" type="checkbox"/> G.711a <input type="checkbox"/> G.711u <input type="checkbox"/> GSM <input type="checkbox"/> H.261 <input type="checkbox"/> H.263 <input type="checkbox"/> H.263+ (Default: G.711a)	allow
Permit IP subnet [7]:	0.0.0.0/0 (Default: 0.0.0.0/0)	permit

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