

BTNS Core

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Example #1: sgA

The machine that we will care about will be [SG-A], a firewall device of some kind which we wish to configure to respond to BTNS connections from [C].

Rule	Remote ID	Child SA IDs allowed	SPD Search by
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1	<B's ID>	<B's network> ID	
2	<Q's ID>	<Q's host> ID	
3	PUBLICKEY:any	ANY	by-IP

Figure 2: SG-A PAD table

Example #1: sgA

Rule	Local ID/TS	Remote ID/TS	Next Layer Protocol	BTNS ok	Action
1	ID:A	ID:R	ANY	N/A	BYPASS
2	ID:A	ID:Q	ANY	no	PROTECT (ESP, tunnel, AES, SHA256)
3	ID:A	ID:B	ANY	no	PROTECT (ESP, tunnel, AES, SHA256)
4	IP:A-net	IP:ANY	ANY	yes	PROTECT (ESP, transport, integr+conf)

Figure 3: SG-A SPD table

Example #2: Q

Rule	Remote ID	IDs allowed	SPD Search by
1	<A's ID>	<A's address>	ID
2	PUBLICKEY:any	ANY	by-IP

Figure 4: Q PAD table

Rule	Local ID/TS	Remote ID/TS	Next Layer Protocol	BTNS ok	Action
1	ID:Q	ID:A	ANY	no	PROTECT (ESP, tunnel, AES, SHA256)
2	IP:Q	IP:ANY and port 2049	ANY	yes	PROTECT (ESP, transport, integr+conf)

Figure 5: SG-A SPD table

Example #3: C

Rule	Remote ID	CH110 SA IDs allowed	SPD Search by
1	PUBLICKEY:any	ANY	by-IP

Figure 6: Q PAD table

Rule	Local ID/TS	Remote ID/TS	Next Layer Protocol	BTNS ok	Action
1	IP:C	IP:ANY and port 2049	ANY	yes	PROTECT (ESP, transport, integr+conf)
2	ID:C	IP:ANY	ANY	N/A	BYPASS

Figure 7: SG-A SPD table