**Security Zone**
A group of interfaces which share a common level of security.

**Zone Pair**
A unidirectional pairing of source and destination zones to which a security policy is applied.

**Inspection Policy**
An inspect-type policy map used to statefully filter traffic by matching one or more inspect-type class maps.

**Parameter Map**
An optional configuration of protocol-specific parameters referenced by an inspection policy.

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## Terminology

### Security Zone
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## Security Zones

- **Trusted**
- **Internet**
- **Guest**

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### Zone Pair Configuration

- `zone-pair security T2I source Trusted destination Internet`  
- `service-policy type inspect Trusted2Internet`

- `zone-pair security G2I source Guest destination Internet`  
  `service-policy type inspect Guest2Internet`

- `zone-pair security I2T source Internet destination Trusted`  
  `service-policy type inspect Internet2Trusted`

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### Inspection Class Configuration

```plaintext
! Match by protocol
class-map type inspect match-any ByProtocol
match protocol tcp
match protocol udp
match protocol icmp

! Match by access list
ip access-list extended MyACL
permit ip 10.0.0.0 255.255.0.0 any
!
class-map type inspect match-all ByAccessList
match access-group name MyACL
```

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### Parameter Map Configuration

```plaintext
parameter-map type inspect MyParameterMap
alert on
audit-trail off
dns-timeout 5
max-incomplete low 20000
max-incomplete high 25000
icmp idle-time 3
tcp synwait-time 3
```

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### Inspection Policy Actions

- **Drop**
  Traffic is prevented from passing

- **Pass**
  Traffic is permitted to pass without stateful inspection

- **Inspect**
  Traffic is subjected to stateful inspection; legitimate return traffic is permitted in the opposite direction

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### Inspection Policy Configuration

```plaintext
policy-map type inspect MyInspectionPolicy
! Pass permitted stateless traffic
class VPN-Tunnel
  pass
! Inspect permitted stateful traffic
class Allowed-Traffic1
  inspect
! Stateful inspection with a parameter map
class Allowed-Traffic2
  inspect MyParameterMap
! Drop and log unpermitted traffic
class class-default
  drop log
```

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### Troubleshooting

- `show zone security`
- `show zone-pair security`
- `show policy-map type inspect`
- `show class-map type inspect`
- `show parameter-map type inspect`
- `debug zone security events`