Spirent **TestCenter**™ **REST API**

Spirent TestCenter's REST API exposes the full power of Spirent TestCenter in numerous automation contexts: virtual environments, test labs and frameworks which require REST interfaces, and environments where unsupported languages and operating systems are in use. For use with any scripting/ programming language, any OS, and either 32- or 64-bit hardware, the REST API offers flexibility to test and accelerate your innovation.

Benefits

- Accelerates innovation in virtual environments
- Use any scripting/programming language
- Use any operating system
- Works in 32-bit and 64-bit environments

Features

- Provides access to all Spirent TestCenter functionality:

  - Traffic
  - Routing
  - Access
  - MPLS
  - VPNs
  - Cloud
  - Data Center
  - Results

- Fully documented (requires Adobe Acrobat Reader)

Spirent's REST API is available to all Spirent customers for use with Spirent TestCenter.

Target Environments

Spirent TestCenter's REST API implementation is suitable for the following environments

- Virtual Environments
- Test labs or frameworks which expect REST interfaces
- Any environment where unsupported languages and operating systems are in use

Example Request

```
POST /stcapi/objects HTTP/1.1
 X-STC-API-Session: Session1 - jdoe
 Content-Length: 64
 Content-Type: application/x-www-form-urlencoded \


 object_type=Router.BGPRouterConfig&under=Project1&initiate=False
```

Response

```
HTTP/1.1 201 CREATED
 {"handle":"BGPRouterConfig1"}
```

Spirent TestCenter™ REST AP

Requirements

- Spirent LabServer

A more detailed list of features is listed below:

- Session control
- Traffic Configuration
- Test Configuration
- TestControl
- Capture
- 40G/100G port support
- BGPv4,BGPv6,
- DHCPv4, DHCPv6, DHCP-PD
- STP
- IGMPv1, IGMPv2, IGMPv3
- IS-IS IPv4, IS-IS IPv6
- LDP IPv4
- MLDv1, MLDv2
- Multicast groups
- OSPFv2, OSPFv3
- OSPF Topology
- Ping
- PIM
- PPPoX/IPv4 PPPoX server, PPP
- RIPv1, RIPv2, RIPng
- RSVP IPv4
- Route flapping for BGP, IS-IS, OSPF, RIP
- Graceful restart for BGP, IS-IS, LDP, OSPF, RSVP
- BFD

- L2TP
- GRE for RSVP, BGP, LDP, OSPF, PIM, RIP
- ATM for BGP, ISIS, OSPF, PPPoX, PPPox server , RIP, ANCP, L2TP, DHCP, DHCP Server
- Ethernet OAM
- Ethernet EFM
- L2/L3 VPN
- MPLS over GRE
- MVPN
- ANCP
- RFC2544, RFC3918
- LACP
- SIP
- Alarms
- FCOE/FIP, FC
- LLDP
- PTP
- Lab Server mode
- 802.1x
- MPLS-TP
- CFM PDUs Capture Filters.
- Configure multiple protocols on the same device, including RSVP/IGMP/LDP/RIP/OSPF/ISIS/BGP

Spirent TestCenter's REST API is provided as a feature of the following part number below.

Ordering information	
Base package description	Part number
Packet Generator And Analyzer Base Package A	BPK-1001A

Spirent
Promise. Assured.