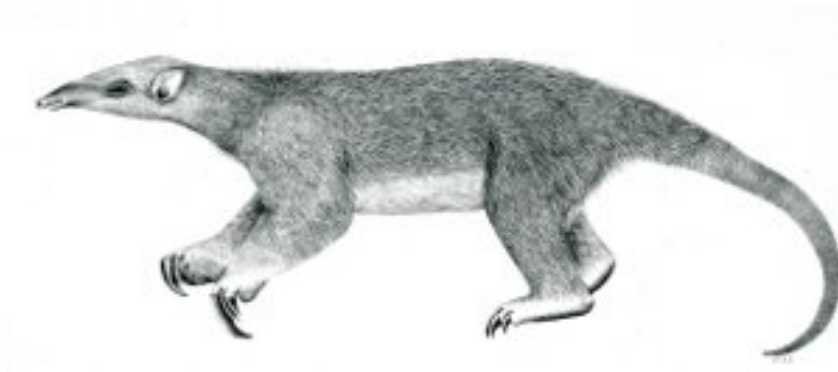

Tranalyzer2

stpDecode



Spanning Tree Protocol (STP)



Tranalyzer Development Team

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1 stpDecode

1.1 Description

The stpDecode plugin analyzes STP traffic.

1.2 Flow File Output

The stpDecode plugin outputs the following columns:

Column	Type	Description
stpStat	H8	Status
stpVersion	U8	Protocol Version Identifier
stpType	H8	Aggregated BPDU Types
stpFlags	H8	Aggregated BPDU flags

1.2.1 stpStat

The stpStat column is to be interpreted as follows:

stpStat	Description
0x01	Flow is STP

1.2.2 stpProto

The stpProto column is to be interpreted as follows:

stpProto	Description
0x0000	Spanning Tree Protocol

1.2.3 stpVersion

The stpVersion column is to be interpreted as follows:

stpVersion	Description
0	Spanning Tree
2	Rapid Spanning Tree
3	Multiple Spanning Tree
4	Shortest Path Tree

1.2.4 stpType

The stpType column is to be interpreted as follows:

stpType	Description
0x00	Configuration
0x02	Rapid/Multiple Spanning Tree
0x80	Topology Change Notification

1.2.5 stpFlags

The stpFlags column is to be interpreted as follows:

stpFlags	Description
2 ⁰ (=0x01)	Topology Change Acknowledgment
2 ¹ (=0x02)	Agreement
2 ² (=0x04)	Forwarding
2 ³ (=0x08)	Learning
2 ⁴ (=0x10)	Port Role: 0x00: Unknown, 0x10: Alternate or Backup, 0x20: Root, 0x30: Designated
2 ⁵ (=0x20)	
2 ⁶ (=0x40)	Proposal
2 ⁷ (=0x80)	Topology Change

1.3 Packet File Output

In packet mode (-s option), the stpDecode plugin outputs the following columns:

Column	Type	Description
stpProto	H16	Protocol Identifier
stpVersion	U8	Protocol Version Identifier
stpType	H8	BPDU Type
stpFlags	H8	BPDU flags
stpRootPrio	U16	Root Priority
stpRootHw	MAC	Root System ID
stpRootCost	U32	Root Path Cost
stpBridgePrio	U16	Bridge Priority
stpBridgeHw	MAC	Bridge System ID
stpPort	H16	Port Identifier
stpMsgAge	U16	Message Age
stpMaxAge	U16	Max Age
stpHello	U16	Hello Time
stpForward	U16	Forward Delay
stpPvstOrigVlan	U16	Originating VLAN (PVSTP+)

1.4 Plugin Report Output

The number of STP packets is reported.