

CISCO VALIDATED PROFILE

# Configuration Snippets

April 2016























mab















```
!  
cts role-based sgt-map <> sgt <>  
!  
ÄÄÛ→á^ËUÖÚ  
!  
!
```





cts role-based enforcement



## PRIVATE VLAN USE CASE



```

no switchport
ip address 172.31.30.1 255.255.255.0
ip wccp web-cache redirect in
ip wccp 70 redirect in
ip wccp 80 redirect in
ip wccp 90 redirect in

```

### Cisco Catalyst 4k

```

ip wccp web-cacgroup-ip address 224.49.30 password 00 system test in ip wccp 53 cgroup-ip address 224.
G H V F U L S W L R Q      ` ` 3 ` @ • @ F
n o s w i t c h p o r t
i p a d d r e s s 1 7 2 . 3 1 . 3 0 . 1 2 5 5 . 2 5 5 . 2 5 5 . 0
i p w c c p w e b - c a c h e r e d i r e c t i n
i p w c c p 7 0 r e d i r e c t i n
i p w c c p 8 0 r e d i r e c t i n
i p w c c p 9 0 r e d i r e c t i n
i p w c c p 5 3 c g r o u p - l i s t e t i n
i p w c c p 6 0 c g r o u p - l i s t e t i n
i p w c c p 7 0 c g r o u p - l i s t e t i n
i p w c c p 8 0 c g r o u p - l i s t e t i n
i p w c c p 8 1 c g r o u p - l i s t e t i n
i p w c c p 8 2 c g r o u p - l i s t e t i n
i p w c c p 9 0 c g r o u p - l i s t e t i n

```



## Q-IN-Q USE CASE







## OSPF AND BGP USE CASE



## QOS (AUTOQOS/ CUSTOM QOS) USE CASE



```

    police 32000 8000 conform-action transmit exceed-action drop
    Á'→ábbÁRŪQŪØRÓEØNEÖŠSÓÓPÓSOØSÖ
    police 5000000 8000 conform-action transmit exceed-action drop
    Á'→ábbÁUØÖSNQØSÖ
    police 32000 8000 conform-action transmit exceed-action drop
    Á'→ábbÁŪPNSUNOŪØŠSNQĚENÚN
    police 10000000 8000 conform-action transmit exceed-action set-dscp-transmit
    dscp table policed-dscp
    Á'→ábbÁÑŪQPEĚENÚN
    police 10000000 8000 conform-action transmit exceed-action set-dscp-transmit
    dscp table policed-dscp
    Á'→ábbÁUONŪÓSÓÓP
    police 10000000 8000 conform-action transmit exceed-action drop
    Á'→ábbÁĚÓŌNŪQŪ
    police 10000000 8000 conform-action transmit exceed-action set-dscp-transmit
    dscp table policed-dscp
    !

*~→↔']Ě↑á*ÁŪØPÓĚĚÓÓPÓUUEŠŠQØOW
Á'→ábbÁN|\~T~bĚHĚĚĚŠ|\*|\ĚŠā↔~ā↔\]ĚT|æ|æ
    priority level 1 percent 10
Á'→ábbÁN|\~T~bĚHĚĚĚŠ|\*|\ĚO~^ĥ~→ĚR&↑\ĚT|æ|æ
    bandwidth remaining percent 10
Á'→ábbÁN|\~T~bĚHĚĚĚŠ|\*|\ĚR|→\↔↑æā↔āĚO~^ĥĚT|æ|æ
    priority level 2 percent 20
Á'→ábbÁN|\~T~bĚHĚĚĚŠ|\*|\ĚŪāá^bĚĚá\áĚT|æ|æ
    bandwidth remaining percent 10
Á'→ábbÁN|\~T~bĚHĚĚĚŠ|\*|\ĚŇ|↔-ĚĚá\áĚT|æ|æ
    bandwidth remaining percent 5
Á'→ábbÁN|\~T~bĚHĚĚĚŠ|\*|\ĚU'á{æ^&æāĚT|æ|æ
    bandwidth remaining percent 5
Á'→ábbÁN|\~T~bĚHĚĚĚŠ|\*|\ĚR|→\↔↑æā↔āĚU\ā↑ĚT|æ|æ
    bandwidth remaining percent 10
class class-default
    bandwidth remaining percent 60
    !

```

## Access-list Definitions















```

Ábæã{↔'æË*~→' ]Á~|\*|\ÁÛUQËT|æ|↔^&Ë$~→' ]
end

```

```

interface <>
  no lldp transmit
  no lldp receive
  no cdp enable
  channel-group 10 mode on
Ábæã{↔'æË*~→' ]Á~|\*|\ÁÛUQËT|æ|↔^&Ë$~→' ]
end

```

```

interface <>
  no lldp transmit
  no lldp receive
  no cdp enable
  channel-group 20 mode on
Ábæã{↔'æË*~→' ]Á~|\*|\ÁÛUQËT|æ|↔^&Ë$~→' ]
end

```

```

interface <>
  no lldp transmit
  no lldp receive
  no cdp enable
  channel-group 20 mode on
Ábæã{↔'æË*~→' ]Á~|\*|\ÁÛUQËT|æ|↔^&Ë$~→' ]
end

```

## HSRP USE CASES tsHXLVH@UYLFW RXL R[9F\

















```

switchport access vlan 10
switchport mode access
switchport voice vlan 20
switchport port-security maximum <>
switchport port-security
switchport port-security aging time <>
switchport port-security violation restrict
switchport port-security aging type inactivity
auto qos voip cisco-phone
qos trust device cisco-phone
neighbor device type phone
!
spanning-tree portfast
spanning-tree bpduguard enable
end
!

```

### Builtin-Macro for IP Camera

```

U}↔\`âç´~^%&DÃmacro auto execute CISCO_IPVSC_EVENT builtin CISCO_IP_CAMERA_AUTO_
SMARTPORT ACCESS_VLAN=10

!
interface gigabitethernet<>
switchport access vlan 10
switchport mode access
switchport voice vlan 20
switchport port-security maximum <>
switchport port-security
switchport port-security aging time <>
switchport port-security violation restrict
switchport port-security aging type inactivity
qos trust device ip-camera
dot1x pae authenticator
auto qos video ip-camera
!

```



## Cisco Catalyst 4k

```

monitor session 1 destination interface <>
monitor session 1 source remote vlan 4001
↑~^↔\~ãÁbæbb↔~^ÁFÁ%→\æãÁ*á'←æ\Ë\]*æÁ&~ãÁã[

vlan 4001
Á^á↑æÁPUSNSŽÜQNS
remote-span
    
```

## WIRESHARK USE CASE

### Data Plane Capture

#### File Capture Configuration

(Captures the pcap file and saves it at a file/location)

```

↑~^↔\~ãÁ'á*Á'á*FÁ↔~\æãää'æÁJLÁâ~\áÁ↑á'\áÁá^]Á%→æÁ→~'á\↔~^Á+ábâí*'á*È*'á*Á
    
```

#### Buffer Capture Configuration

(Captures the pcap file and saves it in buffer)

```

e          0.561 0.458 0.437 0.102  scn0GS0 gs/T_2 1 0.003 0 -0.003 0 -4.8 -2.7 0 -5.8
    
```

**B u e r C p t e o e n - 1 . 2 g e a t t e n g i - 1 0 1 3 a h S - 1 3 8 0 1 2 3 ( z 1 2 3 ( e l ) ) a i - 1 2 3 ( m - 2 5 6 1 n m - 2 5 6 1 n m 4 1 E - 3 6 9 ) - 1 1**





