

# Configuring UDP Sockets for ECN for Common Platforms

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# TL;DR (Receive)

	<b>Linux</b>	<b>Apple/BSD</b>	<b>Windows*</b>
Enable ECN reporting v4	IP_RECVTOS	IP_RECVTOS	IP_RECVECN
Enable ECN reporting v6	IPV6_RECVTCLASS	IPV6_RECVTCLASS	IPV6_RECVECN
Enable ECN reporting dual-stack	IP_RECVTOS + IPV6_RECVTCLASS	IPV6_RECVTCLASS	IP_RECVECN + IPV6_RECVECN
recvmsg() cmsg type v4 socket	IP_TOS	IP_RECVTOS	IP_ECN
recvmsg() cmsg type v6 packet	IPV6_TCLASS	IPV6_TCLASS	IPV6_ECN
recvmsg() cmsg type v4p/v6s	IP_TOS	IPV6_TCLASS	?

\* Windows also has weird wrapper functions

# TL;DR Send

*\* Windows also has weird wrapper functions*

	<b>Linux</b>	<b>Apple/BSD</b>	<b>Windows*</b>
Set Outgoing ECN v4	IP_TOS	IP_TOS	?
Set Outgoing ECN v6	IPV6_TCLASS	IPV6_TCLASS	?
Set Outgoing ECN dual-stack	?	?	?
sendmsg() cmsg type v4 socket	IP_TOS	IP_TOS	IP_ECN
sendmsg() cmsg type v6 packet	IPV6_TCLASS	IPV6_TCLASS	IPV6_ECN
sendmsg() cmsg type v6s/v4p	?	IPV6_TCLASS	?

# Remaining Issues

- size of CMSG\_DATA (CMSG\_NXTHDR)
- Apple review