# CCSDS Space Packet Class Diagrams

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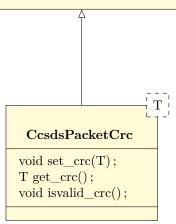
If you want to copy and paste the following source code, please take care of white spaces and special characters such as the minus symbol!

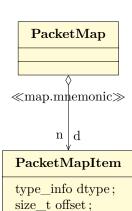
enum ::PktType
$_{ m cmd}, \ _{ m tlm}$

# enum ::SegFlag segmented

continuation lastseg

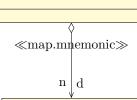
# CcsdsPacket vector<uint8\_t> m\_data CcsdsPacket(PktType pkytyp, uint16\_t appid, size\_t length, SegFlag segflg, uint16\_t seqno=0) void setbytes(size\_t nbytes, size\_t offset, vector<uint8\_t> value) vector<uint8\_t> getbytes(size\_t nbytes, size\_t offset) bool is\_cmd() bool is\_tlm() SegFlag get\_segmentflag() uint16\_t get\_appid() uint16\_t get\_length() virtual bool has\_secondaryheader() virtual bool has\_crc()





# PacketValueTable

size\_t bytesize;



## ${\bf Packet Value Item}$

type\_info dtype;
siz\_t offset;
size\_t bytesize;

# PacketEngine

CcsdsPacket make\_cmdpacket() CcsdsPacket make\_tlmpacket() void encode() PacketValueTable decode()