

Class Name: Filter	
Description: Contains Expression(s) by which to visualize and modify the PDML capture	
Contracts: 8. Manage Filter <i>Add Filter to Rule</i> addFilter(Rule, Filter) Description: Receives a filter and a rule, adds the filter to the rule. Pre: The Rule exists. Post: <i>Delete Filter from Rule</i> deleteFilter(Filter) Description: Receives a filter and deletes it. Pre: The Filter is the last added to the Rule. Post: 9. Manage Expression <i>Add Primitive to Expression</i> addPrimitive(String, Expression) Description: Receives a primitive (composed from the string) and adds it to the Expression Pre: The Expression is in the Berkeley Packet Filter (BPF) syntax. Post: The addition of a primitive to the Expression for this Filter. <i>Remove Primitive from Expression</i> deletePrimitive(String, Expression) Description: Deletes a specified primitive. Pre: The primitive is contained in this Expression. Post: The deletion of the primitive from the Expression for this Filter. Private Responsibilities:	Collaborations: Rule (22) Rule (22) Expression (4) Expression (4)
Comments: Contains one Berkeley Packet Filter (BPF) expression	

Class Name: Protocol	
Description: Contains Packets by which the matching Formatter can modify	
Contracts: 19. Visualize Protocol <i>Show Protocol</i> showProtocol(Protocol) Description: Receives a protocol currently hidden and displays it. Pre: The protocol exists within the PDML and is hidden. Post: <i>Hide Protocol</i> hideProtocol(Protocol) Description: Receives a protocol currently displayed and hides it. Pre: The protocol exists within the PDML and is not hidden. Post: Private Responsibilities:	Collaborations: Formatter (10) Formatter (10)
Comments: Contains one or more Packets	

Class Name: tShark	
Description: Handles operations for communications between tShark and Formatter Protocol System (FPS)	
Contracts: 27. Convert PCAP to PDML <i>Send PCAP File</i> sendPCAP(File) Description: Receives a PCAP file to be parsed by tShark tool Pre: The file has not been stored before on the current local filesystem of the user. Post: tShark returns no error on accepting the PDML file to parse. <i>Return Parsed PDML File</i> storePDML() Description: Receives a parsed PDML file and stores it on the local filesystem. Pre: tShark parsed the PDML with no errors. Post: A new file of type PDML is stored on the local filesystem of the user to be opened by PFS. Private Responsibilities:	Collaborations: File (7) File (7)
Comments: External tool to Formatter Protocol System (FPS)	