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| **Class Name:** Filter | |
| **Description:** Contains Expression(s) by which to visualize and modify the PDML capture | |
| **Contracts:**  8. Manage Filter  *Add Filter to Rule*  addFilter(Rule, Filter)  Description: Receives a filter and a rule, adds the filter to the rule.  Pre: The Rule exists.  Post:  *Delete Filter from Rule*  deleteFilter(Filter)  Descritpion: Receives a filter and deletes it.  Pre: The Filter is the last added to the Rule.  Post:  9. Manage Expression  *Add Primitive to Expression*  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.  *Remove Primitive from Expression*  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 | |

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| **Class Name:** Protocol | |
| **Description:** Contains Packets by which the matching Formatter can modify | |
| **Contracts:**  19. Visualize Protocol  *Show Protocol*  showProtocol(Protocol)  Description: Receives a protocol currently hidden and displays it.  Pre: The protocol exists within the PDML and is hidden.  Post:  *Hide Protocol*  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 | |

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| **Class Name:** tShark | |
| **Description:** Handles operations for communications between tShark and Formatter Protocol System (FPS) | |
| **Contracts:**  27. Convert PCAP to PDML  *Send PCAP File*  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.  *Return Parsed PDML File*  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) | |