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| **Class Name:** File | |
| **Description:** Represents the Script, Historical Copy, and PDML | |
| **Contracts:**  7. Create Historical Copy  *Convert in tShark*  convertPCAP(File)  Description: Receives a PCAP file to be sent to tShark for conversion to receive a PDML file.  Pre: The file is of type PCAP.  Post:  *Create PDML File*  createHistCopy(File)  Description: Receives a PDML file and creates a historical copy of the PDML file.  Pre: The file is a PDML file.  Post:  **Private Responsibilities:**  - Create new File | **Collaborations:**  tShark (27) |
| **Comments:**  Abstract class which handles creation, opening, saving, and modifications to PDML original and Script as well as creation of Historical Copies | |

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| **Class Name:** Historical Copy | |
| **Description:** File Class subtype which contains captured network data within PFS | |
| **Contracts:**  12. Manage Historical Copy  *Create PDML File*  createHistCopy(File)  Description: Receives a PDML file and creates a historical copy of the PDML file.  Pre: The file is a PDML file.  Post:  *Store PDML File*  storePDML(File)  Description: Receives a PDML file and stores it on the local filesystem.  Pre: The file has not been stored before on the current local filesystem of the user.  Post:  **Private Responsibilities:** | **Collaborations:**  File (7)  File (7) |
| **Comments:**  Attributes include identification as unmodifiable and metadata; type of File | |

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| **Class Name:** ProtocolIdentifier | |
| **Description:** Scans PDML to identify existing and non-existing Formatters for each Protocol | |
| **Contracts:**  20. Scan PDML  *Identify Protocols*  identifyProtocols(File)  Description: Receives a file and returns a list of all identified protocols from the file.  Pre:  Post: Returns a list of all identified protocols from the file.  *Identify Formatters*  identifyFormatters(File)  Description: Receives a file and returns a list of all identified Formatters from the File.  Pre: The File has been opened by PFS.  Post: Returns a list of all applied Formatters from the File.  *Create Formatter*  Create Formatter(Rule<>)  Description: Receives a list of Rules to build a new Formatter.  Pre: The Rule list is Empty  Post:  **Private Responsibilities:** | **Collaborations:**  Formatter (10)  Formatter (10)  Formatter (10) |
| **Comments:**  Reads through Protocols in a modifiable PDML | |