

$$\begin{aligned}
& \textit{contract} ::= \textit{protocol_decl} \textit{property_decl} \textit{rule_decl} \\
& \textit{protocol_decl} ::= \mathbf{event} \textit{event_name} (, \textit{event_name})^* ; \\
& \quad \mathbf{protocol} \textit{protocol} ; ; \\
& \textit{protocol} ::= \mathbf{any} \mid \textit{event_name} \mid \textit{protocol} ; \textit{protocol} \\
& \quad \mid \textit{protocol} + \textit{protocol} \mid \textit{protocol} * \mid \textit{protocol} ? \\
& \textit{property_decl} ::= \mathbf{variable} \textit{var_name} (, \textit{var_name})^* ; \\
& \quad \mathbf{property} (\textit{ldl_formula} ;) ^+ \\
& \textit{rule_decl} ::= \mathbf{rule} (\textit{rule} ;) ^+ \\
& \quad \textit{rule} ::= \mathbf{on} \textit{event_name} (\{ \textit{code} \}) ^? \\
& \quad \quad \mathbf{when} \textit{condition} (\{ \textit{code} \}) ^? \\
& \quad \quad \textit{action} (\{ \textit{code} \}) ^? \\
& \textit{condition} ::= \textit{proposition} \mid < \textit{ldl_path} > \textit{condition} \\
& \textit{action} ::= \mathbf{ensure} \textit{proposition} \\
& \quad \mid \mathbf{raise} \textit{event_name} \\
& \quad \mid \mathbf{do} (\textit{action} (, \textit{action})^*)
\end{aligned}$$