$$
\begin{aligned}
contract ::=\ & protocol\_decl\ property\_decl\ rule\_decl \\
protocol\_decl ::=\ & \textbf{event}\ event\_name\ (\textbf{,}\ event\_name)^*\ \textbf{;} \\
& \textbf{protocol}\ protocol\ \textbf{;;} \\
protocol ::=\ & \textbf{any}\ |\ event\_name\ |\ protocol\ \textbf{;}\ protocol \\
& |\ protocol\ \textbf{+}\ protocol\ |\ protocol\ \textbf{*} \\
property\_decl ::=\ & \textbf{variable}\ var\_name\ (\textbf{,}\ var\_name)^*\ \textbf{;} \\
& \textbf{property}\ (ldl\_formula\ \textbf{;})^+ \\
rule\_decl ::=\ & \textbf{rule}\ (rule\ \textbf{;})^+ \\
rule ::=\ & \textbf{on}\ event\_name\ (\textbf{\{}\ code\ \textbf{\}})^? \\
& \textbf{when}\ condition\ (\textbf{\{}\ code\ \textbf{\}})^? \\
& action\ (\textbf{\{}\ code\ \textbf{\}})^? \\
condition ::=\ & proposition\ |\ \textbf{<}\ ldl\_path\ \textbf{>}\ condition \\
action ::=\ & \textbf{ensure}\ proposition \\
& |\ \textbf{raise}\ event\_name\ (\textbf{+}\ event\_name)^* \\
& |\ \textbf{do}\ (\ action\ (\textbf{,}\ action)^*\ )
\end{aligned}
$$