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