$$
\begin{aligned}
\mathit{process} &::= \mathit{decl}^{+} \\
\mathit{decl} &::= \mathit{event\_decl} \mid \mathit{protocol\_decl} \mid \mathit{variable\_decl} \mid \mathit{property\_decl} \mid \mathit{rule\_decl} \\
\mathit{event\_decl} &::= \textbf{event}\ \left(\mathit{event\_name}\ (\texttt{,}\ \mathit{event\_name})^{*}\ \texttt{;}\right)^{+} \\
\mathit{protocol\_decl} &::= \textbf{protocol}\ (\mathit{protocol}\,\texttt{;}\,\texttt{;})^{+} \\
\mathit{protocol} &::= \textbf{any} \mid \mathit{event\_name} \mid \mathit{protocol}\ \texttt{;}\ \mathit{protocol} \\
&\quad \mid \mathit{protocol}\,\texttt{+}\,\mathit{protocol} \mid \mathit{protocol}\,\texttt{*} \mid \mathit{protocol}\,\texttt{?} \mid \texttt{(}\ \mathit{protocol}\ \texttt{)} \\
\mathit{variable\_decl} &::= \textbf{variable}\ \left(\ \mathit{var\_name}\ (\texttt{,}\ \mathit{var\_name})^{*}\ (\ \texttt{:}\ \mathit{type}\ )^{?}\ \texttt{;}\ \right)^{+} \\
\mathit{type} &::= \textbf{prop} \mid \textbf{nat}\ \texttt{(}\ \mathit{nat\_num}\ \texttt{)} \\
\mathit{property\_decl} &::= \textbf{property}\ (\mathit{ldl\_formula}\ \texttt{;})^{+} \\
\mathit{rule\_decl} &::= \textbf{rule}\ \mathit{rule}^{+} \\
\mathit{rule} &::= \textbf{except}^{?}\ \textbf{on}\ \mathit{event\_name}\ (\texttt{,}\ \mathit{event\_name})^{*}\ (\{\ \mathit{code}\ \})^{?} \\
&\quad \left(\ \textbf{when}\ \mathit{context}\ (\{\ \mathit{code}\ \})^{?}\ \right)^{?} \\
&\quad \mathit{action}^{+} \\
\mathit{context} &::= \mathit{proposition} \mid \texttt{<}\ \mathit{ldl\_path}\ \texttt{>}\ \mathit{context} \\
\mathit{action} &::= \textbf{ensure}\ \mathit{ldl\_formula}\ (\{\ \mathit{code}\ \})^{?} \\
&\quad \mid \textbf{raise}\ \mathit{event\_name}\ (\texttt{+}\ \mathit{event\_name}\ )^{*}\ (\{\ \mathit{code}\ \})^{?} \\
&\quad \mid \textbf{do}\ \{\ \mathit{code}\ \} \\
&\quad \mid \textbf{preserve}\ \mathit{proposition}
\end{aligned}
$$