

# 1 EBNF Grammatik für DMF

$\langle source\_file \rangle$	$::= \langle dmf\_declaration \rangle \langle new\_line \rangle \langle model\_declaration \rangle$ $\langle new\_line \rangle [ \langle import\_block \rangle ] \langle model\_content \rangle$
$\langle dmf\_declaration \rangle$	$::= 'dmf' \langle version\_number \rangle$
$\langle model\_declaration \rangle$	$::= 'model' \langle string\_value \rangle 'version' \langle version\_number \rangle$
$\langle import\_block \rangle$	$::= \langle import\_statement \rangle +$
$\langle import\_statement \rangle$	$::= 'import' \langle package\_string \rangle 'from' \langle string\_value \rangle [ \langle model\_identifier \rangle$ $] \langle new\_line \rangle$
$\langle model\_identifier \rangle$	$::= '(' 'model' \langle string\_value \rangle [ 'version' \langle version\_number \rangle$ $] ')'$
$\langle model\_content \rangle$	$::= \langle package\_content \rangle +$
$\langle package\_content \rangle$	$::= [ \langle comment\_block \rangle ] [ 'expand' ] \langle package\_block \rangle$ $  [ \langle comment\_block \rangle ] [ 'expand' ] \langle struct\_block \rangle$ $  [ \langle comment\_block \rangle ] [ 'expand' ] \langle enum\_block \rangle$ $  [ \langle comment\_block \rangle ] [ 'expand' ] \langle entity\_block \rangle$ $  [ \langle comment\_block \rangle ] [ 'expand' ] \langle interface\_block \rangle$
$\langle comment\_block \rangle$	$::= \langle comment \rangle +$
$\langle comment \rangle$	$::= R'//.*\n'$
$\langle package\_block \rangle$	$::= 'package' '' \langle package\_content \rangle + ''$
$\langle struct\_block \rangle$	$::= 'struct' \langle identifier \rangle [ \langle extends\_block \rangle ] [ \langle implements\_block \rangle$ $] '' \langle struct\_content \rangle + ''$
$\langle extends\_block \rangle$	$::= 'extends' \langle reftype \rangle$

$\langle \textit{implements\_block} \rangle ::= \text{'implements' } \langle \textit{reftype} \rangle \text{'('} \langle \textit{reftype} \rangle \text{')}' +$

## 2 Beispiel

$\langle \textit{statement} \rangle ::= \langle \textit{ident} \rangle \text{'=' } \langle \textit{expr} \rangle$   
 $\quad \quad \quad | \text{'for' } \langle \textit{ident} \rangle \text{'=' } \langle \textit{expr} \rangle \text{'to' } \langle \textit{expr} \rangle \text{'do' } \langle \textit{statement} \rangle$   
 $\quad \quad \quad | \text{'{' } \langle \textit{stat-list} \rangle \text{'}'}$   
 $\quad \quad \quad | \langle \textit{empty} \rangle$

$\langle \textit{stat-list} \rangle ::= \langle \textit{statement} \rangle \text{';' } \langle \textit{stat-list} \rangle \mid \langle \textit{statement} \rangle$