Proposed Definition of Possible Assertions

For simplicity, let us just consider possible assertions (sentences) involving dyadic relations. A at time T asserts
w_P w_a w_b = df.

K K
E i_P E i_a E i_B
R w_P i_P
R w_a i_a
R w_b i_b

Now we get the class of all such sentences as:

^R $_{A,T}$ ^w_P $_{A,T}$ ^w_a $_{A,T}$ ^w_b $_{A,T}$
E A E T E P E a E b
K K
R $_{A,T}$ w_P $_{A,T}$ i_P
R $_{A,T}$ w_a $_{A,T}$ i_a
R $_{A,T}$ w_b $_{A,T}$ i_b

Above “^” means class of, or relation.
I would define it as in PM *20, & *21

Noting the items with subscripts are variables, this is the same as:
^w_P ^w_a ^w_b
E R E i_P E i_a E i_b
K K K
word_idea_relation R
R w_P i_P
R w_a i_a
R w_b i_b

There must be a word_idea_relation predicate.

Note: there are really no such thing as extensional classes or relations. Their occurrence is defined away with intensional relations according to context.

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