

ISO 24611:2012-11 (E)

Language resource management - Morpho-syntactic annotation framework (MAF)

	Contents	Page
Foreword	v	
Introduction	vi	
1 Scope	1	
2 Normative references	1	
3 Terms and definitions	1	
4 The MAF meta-model	4	
4.1 Overview	4	
4.2 MAF Meta-model	4	
5 Segmenting with tokens	6	
5.1 General	6	
5.2 Formal description: <token>	7	
5.3 Embedding notation	7	
5.4 Alternate representation for TEI based documents	8	
5.5 Stand-off notation	9	
5.6 Informative attributes	9	
5.7 Completing the inline token notation	10	
5.7.1 Joining tokens in embedded mode	10	
5.7.2 Overlapping tokens	11	
6 Word-forms as linguistic units	11	
6.1 Formal description: <wordForm>	12	
6.2 Token attachment	12	
6.2.1 One token; one word-form	12	
6.2.2 Several contiguous tokens; one word-form	12	
6.2.3 Several discontinuous tokens; one word-form	13	
6.2.4 Zero token; one word-form	13	
6.2.5 One token; several word-forms	14	
6.3 Referring to lexical entries	14	
6.4 Compound word-forms	15	
6.5 Identification of word-forms within a TEI-compliant document	15	
7 Morpho-syntactic content	18	
7.1 General	18	
7.2 Using feature structures	18	
7.3 Compact morpho-syntactic tags	18	
7.4 FSR libraries	19	
7.5 Designing tagsets	20	
7.6 Formal description: <tagset>	22	
8 Handling ambiguities	22	
8.1 Word-form content ambiguities	22	
8.2 Lexical Ambiguities	23	
8.3 Structural ambiguities	23	
8.3.1 Structural ambiguities with word-forms	23	
8.3.2 Structural ambiguities with tokens	24	
8.4 Simplified structuring variants	24	

8.4.1	Non-ambiguous linear representation	24
8.4.2	Mixed linear and lattice representation	25
8.5	Expanding the simplified variants	26
8.5.1	Separating tokens and word-forms	26
8.5.2	Wrapping into local lattices	26
8.5.3	Merging local lattices	27
8.5.4	Removing <wfAlt>	28
8.6	Formal description: <wfAlt> and <fsm>	29
Annex A (informative) Encoded example using the MAF serialization		30
Annex B (normative) MAF specification		33
B.1	Elements	33
B.1.1	<dcs/>	33
B.1.2	<fsm>	34
B.1.3	<maf>	34
B.1.4	<tagset>	35
B.1.5	<token>	35
B.1.6	<transition>	36
B.1.7	<wfAlt>	36
B.1.8	<wordForm>	37
B.2	Model classes	38
B.3	Attribute classes	38
B.3.1	att.token.information	38
B.3.2	att.token.join	39
B.3.3	att.token.span	39
B.3.4	att.wordForm.content	39
B.3.5	att.wordForm.tokens	40
B.4	Macros	40
B.4.1	data.certainty	40
B.4.2	data.code	40
B.4.3	data.count	40
B.4.4	data.duration.w3c	41
B.4.5	data.enumerated	41
B.4.6	data.key	41
B.4.7	data.language	42
B.4.8	data.name	43
B.4.9	data.numeric	43
B.4.10	data.pointer	43
B.4.11	data.probability	44
B.4.12	data.temporal.w3c	44
B.4.13	data.truthValue	44
B.4.14	data.word	45
B.4.15	data.xTruthValue	45
Annex C (normative) Morpho-syntactic data categories		46
Bibliography		58