

# ISO 24617-9:2019-12 (E)

## Language resource management - Semantic annotation framework - Part 9: Reference annotation framework (RAF)

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>4</b>	<b>Basic principles .....</b>	<b>2</b>
<b>5</b>	<b>Meta-model for reference annotation .....</b>	<b>3</b>
<b>5.1</b>	<b>Overview .....</b>	<b>3</b>
<b>5.2</b>	<b>Referring expressions .....</b>	<b>3</b>
<b>5.3</b>	<b>Data categories for referring expressions .....</b>	<b>4</b>
<b>5.4</b>	<b>Lexical relations .....</b>	<b>5</b>
<b>5.5</b>	<b>Discourse entities .....</b>	<b>5</b>
<b>5.6</b>	<b>Objectal relations .....</b>	<b>5</b>
<b>5.7</b>	<b>Metadata .....</b>	<b>5</b>
<b>6</b>	<b>Abstract syntax, concrete syntax, and semantics of annotations .....</b>	<b>6</b>
<b>6.1</b>	<b>Introduction .....</b>	<b>6</b>
<b>6.2</b>	<b>Abstract syntax .....</b>	<b>6</b>
<b>6.2.1</b>	<b>Conceptual inventory .....</b>	<b>6</b>
<b>6.2.2</b>	<b>Annotation structures: Entity structures and link structures .....</b>	<b>7</b>
<b>6.3</b>	<b>Semantics .....</b>	<b>8</b>
<b>6.3.1</b>	<b>Discourse entity structures and objectal relation links .....</b>	<b>8</b>
<b>6.3.2</b>	<b>Referential expression entity structures and lexical relation links .....</b>	<b>9</b>
<b>6.4</b>	<b>Implementing an XML serialisation compliant with the TEI P5 guidelines .....</b>	<b>10</b>
<b>6.4.1</b>	<b>Introduction .....</b>	<b>10</b>
<b>6.4.2</b>	<b>Namespace .....</b>	<b>10</b>
<b>6.4.3</b>	<b>Generic principles attached to a TEI compliant serialisation .....</b>	<b>10</b>
<b>6.4.4</b>	<b>Feature structures .....</b>	<b>11</b>
<b>6.4.5</b>	<b>General document architecture .....</b>	<b>12</b>
<b>6.5</b>	<b>Implementation of the Referring expression component .....</b>	<b>12</b>
<b>6.6</b>	<b>Implementation of the Discourse entity component .....</b>	<b>13</b>
<b>6.7</b>	<b>Implementation of referential relations .....</b>	<b>13</b>
<b>6.8</b>	<b>Objectal relations: grouping .....</b>	<b>14</b>
<b>6.9</b>	<b>Alternative linking: ambiguity .....</b>	<b>15</b>
<b>6.10</b>	<b>Multiple links .....</b>	<b>15</b>
<b>6.11</b>	<b>Representing referential chains .....</b>	<b>16</b>
<b>6.12</b>	<b>Bridging phenomena .....</b>	<b>16</b>
<b>Annex A (normative)</b>	<b>Data categories for reference annotation .....</b>	<b>18</b>
<b>Annex B (informative)</b>	<b>Complementary examples or partial examples referred to in the main text of the document .....</b>	<b>25</b>
<b>Bibliography .....</b>		<b>26</b>