Transformation Rule Specification Language

This document presents the Extended Backus-Naur Form (EBNF) of the transformation rule specification language.

```
<transformation_specification> ::= <configuration_element> <transformation_rule>+ <condition_element>* <search_element>*
```

Listing 1 – General Structure

Listing 2 – Configuration Element

Listing 3 – Transformation Rule

Listing 4 – Condition Element

```
<search_element> ::= <search_header> '{$ ' <sparql_query> '$} '
<search_header> ::= 'search_element' <search_element_identifier> <search_element_identifier> ::= string
<search_endpoint> ::= '[" ' <URL> '"] '
<URL> ::= '" ' string '" '
<sparql_query> :: string
```

Listing 5 – Search Element

```
<flag> ::= <defined_flag> (' ' <defined_flag>)+
<defined_flag> ::= <NM_flag> | <SP_flag> | <BaseIRI_flag> | <FX_flag> | <DT_flag>
    <CustomID_flag> | <Col_flag> | <SE_flag> | <Condition_flag> | <NODE_flag>
\langle NM_flag \rangle ::= '/NM'
<SP_flag> ::= '/SP(' <character> (', ' <position>)? ')'
<character> ::= '"', string '"',
<position> ::= integer
<BaseIRI_flag> ::= '/BaseIRI(' <IRI> ',' <namespace> ')'
<namespace> ::= '"' string '"'
<DefaultValue_flag> ::= '/DefaultValue(' <content> ')'
<content> ::= '"' string '"'
\langle DT_flag \rangle ::= '/DT(' \langle XSD_datatype_name \rangle ')'
<XSD_datatype_name> ::= '"' string '"'
<CustomID_flag> ::= '/ID("' string '")'
<Col_flag> ::= '/COL(' <filename> ', ' <column_number> ')'
<filename> ::= '"' string '"'
<column_number> ::= integer
<SE_flag> ::= '/SE(' <search_element_identifier>, <SPARQL_variable> ')'
<SPARQL_variable> ::= string
<Condition_flag> ::= '/CE(' <condition_element_identifier> ')'
<NODE_flag> ::= '/NODE(' <ontology_class> ')'
```

Listing 6 – Flags