

BR_Substitution – Substitution Services

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SCOPE

This module must be used anywhere an Encoded String requires substitution variable syntax checking or when the Encoded String has the substitution variables replaced with data values. Substitution values have 2 forms, a standardized language-independent form and a user-language dependent form. Essentially substitution variables are always stored using the language independent form and the user has the option to view or edit the Encoded String in either form.

Substitution Variables are classified by 5 attributes:

1. The type of data value to be output (e.g. text, date, number, etc)
2. The method to compose that data
3. The owner record type of that data
4. The subject object type in the request chain to access the data
5. The number of steps in the request navigation path.

By holding these as classification fields in the Substitution Dictionary, the same dictionary can be used for all substitution operations.

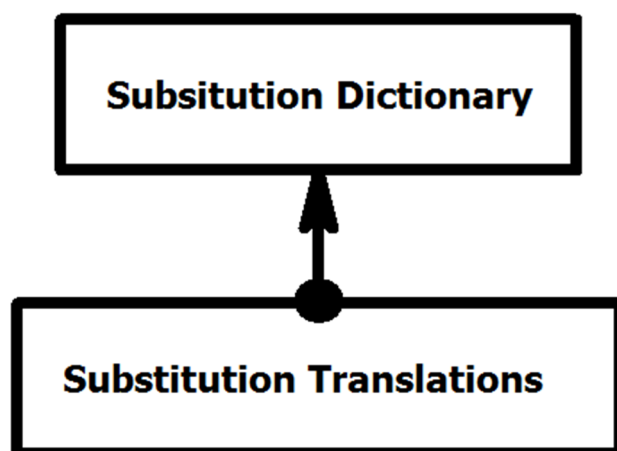
ACTIONS

1. To define or modify a Substitution Dictionary entry: Create, Edit, Save and Select
2. To define or modify a language-specific alias for a substitution variable or part of it: Create, Edit, Save and Select
3. To return a substitution variable in the language-independent form or language dependent form
4. On request with a HRE ID of the subject type, return the data value of the substitution variable.

USED BY

Any use of an encoded string.

DATA CONTROLLED BY THIS MODULE



1. **SubstDict** Table: One record per Substitution

| SQL FIELD NAME | SQL FIELD TYPE | NOTES |
|----------------|----------------|-------|
|----------------|----------------|-------|

| HRE COMMON FIELDS FIRST | | HRE_ID is SubstDict_ID |
|-------------------------|---------------|---|
| LABEL_ID | INT8 NOT NULL | Label HRE ID for translated label of this Substitution Variable |
| DATA_TYPE_ID | INT8 NOT NULL | HRE Data Type ID |
| DATA_COMP_ID | INT8 NOT NULL | HRE Composition Method ID |
| OWNER_TYPE_ID | INT8 NOT NULL | HRE Owner Type ID of that data |
| SUBJ_TYPE_ID | INT8 NOT NULL | HRE Subject Object Type ID |
| PARTS | INT4 | Number of elements in variable path |
| PART_TYPE | INT4 | 1= Start, 2= Middle, 3= Data |
| SUBST_VAR | VARCHAR(200) | Standard Form Substitution Variable |

The PRIMARY INDEX of this table is the HRE_ID. (SubstDict)

2. SubstTrans Table: One record for each Substitution Translation

| SQL_FIELD NAME | SQL_FIELD TYPE | NOTES |
|-------------------------|----------------|--|
| HRE COMMON FIELDS FIRST | | HRE_ID is SubstTrans_ID |
| PARENT_ID | INT8 NOT NULL | Parent HRE SubstDict ID |
| LANG_ID | INT8 NOT NULL | HRE Language ID |
| TRANS | VARCHAR(400) | Translation for this SubstitutionVariable in this language |

The PRIMARY INDEX of this table is the HRE_ID. (SubstTrans)

REQUIRED SERVICES

1. BR_EntityLink
2. BR_Translation.

WARNING CONDITIONS

1. Need details of the condition that raised the warning, example message and possible next steps.

ERROR CONDITIONS

1. Need to record the condition that raised the error, example message and possible next steps.