CorpTech

Functional Specification (Interface)

H2R 8.3.3 I-1332 Workbrain & SAP Interface Error Management

Shared Service Solutions

Queensland Government

Document Control Page

Management

Version	Role	Name	Position	Signature	Date

Revision History

Version	Date	Additions/Amendments	Author	Review By
0.1	01/06/2007	Original Draft	Jonathan Cheung	Brendan Pollock
0.2	07/06/2007	Updates made after review.	Jonathan Cheung	Cindy Williams/Brendan Pollock
0.3	14/07/2007	Updates made after suggestion to clarify the process.	Jonathan Cheung	Cameron Brown/Tim Shen
0.4	20/07/2007	Updates made to wording and source data after review by Cameron/Tim.	Jonathan Cheung	Matt Kirkhope
0.5	21/06/07	Added SAP XI specific information.	Cameron Brown	Tim Shen
0.6	06/07/2007	Changed parameters mock up, source fields and format. Tim added details for the mapping to XI/SAP in section 2.4.3.	Jonathan Cheung, Tim Shen	Joseph Sullivan
0.7	31/07/2007	After Tech assessment, added details on logic for export from Workbrain. Added fields to section 1.8.2.	Jonathan Cheung,	Matt Kirkhope

Distribution List for Current Version

Name	Title

Reference Documents

Document Title	Reference
Roster Management Solution Design Document Appendix L - Interfaces	

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1   Introduction

1.1   Background

It was identified that there needs to be a process to control, log, and action errors that result from the interfacing of data between Workbrain and SAP. XI is a system that sits between SAP and third party applications; its purpose is to handle the interfacing between two systems. For imports into Workbrain, XI will receive the results of the import files and route/action it according to their methods. For exports, a notification email will be sent to a specified user within Workbrain for action to be taken when errors occur on exports from Workbrain to SAP.

For imports, XI will attach a non-unique identifier (referred to as IDoc) to each record that is exported from SAP into Workbrain, and it is expected that Workbrain will send back to XI the results of the interface, whether applied or erred for appropriate escalation or action.

DBR/RICEF	Description	Fit or Gap
1332	Workbrain & SAP Interface Error Management	Gap

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1.2 Reference Information

Business Process Owner	Brendan Pollock			
Functional Owner	Jonathan Cheung			
Application Environment:				
Source	Workbrain			
Target	SAP			
Cross Reference	Framework Reference	8.3.3		
	Fit/Gap ID	Gap		
	BPR Document(s)	N/A.		
	Detailed Process Design Report(s)	N/A.		
	Functional Specification(s)	H2R 8.3.3 I-1332 Workbrain & SAP Interface Error Management		
	Configuration Document	N/A.		
	Testing document(s)	N/A.		
Solution Elements	Report ☐	Extension ☐	Input Form ☐	Workflow ☐
	Conversion ☐	Interface ☑	Portal ☐	

1.3 Purpose and Scope

The purpose of this interface is to identify a process for when errors occur on interfaces between Workbrain & SAP.

1.4 Justification

Development of this interface is required as action needs to be taken when errors occur when interfacing data between Workbrain and SAP.

For imports, the development of this interface will allow for the automated transfer of the results of each interface. The IDoc numbers attached to each record by XI will be sent back to XI with the data indicating whether each record was a success or failure.

For exports, the development will involve a notification email when a failure occurs so that action can be taken immediately.

1.4.1 Recommended Approach

The recommended approach for imports into Workbrain is to send back to SAP via XI each record that was exported from SAP to Workbrain with a status of success or failure.

For exports from Workbrain that failed to export, a notification email will be sent so that the export error can be actioned appropriately. This notification email will contain the following text: "An export from Workbrain to SAP has failed. Please take action to resolve this problem immediately."

This interface will flag each transaction that is exported or have no errors to prevent sending/checking the same transaction in subsequent runs. This interface will send records of the type selected in either the parameters page (for imports) or a configured alert (for exports) that have not been exported previously.

For imports, when the erred files have been sent back to SAP/XI, action must be taken to resolve these issues. The preferred method is for a new file with only the fixed erred records (delta records) to be placed back onto the Workbrain application server and manually imported again. This should be done within the day the error occurred.

1.4.2 Alternatives

The only alternatives to the creation of this interface would be for someone to monitor each interface for failures routinely in Workbrain. This would be time consuming process for one person to do so by spreading the errors appropriately they can be resolved more efficiently. In addition, the person who fixes the data in SAP may not have access to Workbrain, and thus these are not a viable solution.

An alternative to sending the fixed erred records on the day of error is to have the daily run on the next day include the fixed erred records from the current day. This method can be used for non-essential updates; however it should be noted that if there are imperative updates that must be made the current day to achieve results for the current day (ex: payroll export affected errors), then this solution should not be used.

1.4.3 Risks

Any error that occurs during the execution of an interface will not be identified or actioned. This may result in obsolete and inaccurate data in Workbrain.

If an error that is returned from Workbrain to SAP is not resolved before the next run of the failed interface, there is a risk that data will be obsolete in Workbrain. That may affect various aspects of the application (e.g. employee pay, employee timesheets etc).

For exports, this may require sending the alert to a dummy user that contains a group email address.

1.4.4 Assumptions

The following assumptions have been made in the design of this interface:

- Each record that is exported from SAP to Workbrain will contain an error handling identifier (e.g. IDoc number) in the last field separated from the data by a comma.

- This IDoc number will be non-unique.

- Workbrain is responsible for putting the results file on the application server that contains the Workbrain application. It is XI's responsibility to retrieve the file.

- There will be no archiving of these files. There will be an option to append a date to the filename so that each file is not overwritten.

- XI will send notifications for each issue to be actioned and resolved.

- The erred data should be fixed before the next interface runs. This may mean a subsequent file will be sent to Workbrain until the record does not error, or fixed manually within Workbrain. If a subsequent file is sent, this will be considered an ad-hoc import, and a user will have to manually import this file into Workbrain. This can be done by pressing "Run Now" for the task configured in the Job Scheduler.

- There will be a one-to-one relationship between the rows imported into Workbrain and the rows exported out of Workbrain for SAP for imports.

- Each record that is imported into Workbrain will be exported once out of Workbrain with either APPLIED, or ERROR. No subsequent follow-ups will be taken on failed record once the status has been exported to the file. It is the responsibility of XI/SAP to send a fixed record back to Workbrain, or fix it in Workbrain manually where appropriate.

1.4.5   Issues Outstanding

N/A.

1.5   Further Considerations

Changes may be required to H2R 8.2 E-1336 Workbrain Work Item Notification v1.0 so that alerts sent to a specified dummy user will be forwarded directly and not part of a summary email once a day

2   Interface Specification

2.1   General Information

The Error Management interface will run after each interface between Workbrain and SAP. For files from SAP to Workbrain, a results file will be sent back to SAP. For files from Workbrain to SAP, a notification email will be sent to either a team/user when an error occurs. No notification emails will be sent when no errors occur.

Name	Workbrain & SAP Interface Error Management
Operating Mode	Scheduled task
Frequency	Daily
Source Data Type	Workbrain
Target Data Type	SAP
Transfer Method	XI
Pre-requisites	Any interface between Workbrain and SAP must occur.
Initiating Event	Scheduled Task.
Post- requisites	N/A.
Report Output Type	csv file.
Retention	Nil
Menu Path	Maintenance>System Administration>Job Scheduler> Error Management - *<interface name>*
Workflow	Nil

2.2   Security

Standard Workbrain security will apply, and only a specified individual or group will be able to access, alter and run this export.

2.3   Selection Criteria

2.3.1   Screen Layout

The information contained in the selection screen is shown below. The chosen value of the mapping name should be the same as that chosen for the Interface task. The configuration path in Workbrain for the creation and maintenance of this custom scheduled task should be as follows:

Maintenance>System Administration>Job Scheduler> Error Management - *<interface name>*

where <interface name> is the name of the interface for the import.

Export Task Parameters

Mapping	PROJECT TABLE IMPORT
File Name	C:\Documents and Settings\jcheung\My Documents\Projects\QLI
Add Date and Time to Each File Name	☑
Msg Id Field	Q
Key Fields	WBINT_IMPORT.E
Client Name	Default ⌄

Submit | Cancel

Please note that this is may not be exactly how the final screen will look, as it is a mock-up.

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2.3.2   Fields

Label	Control Type	Control Description	Display Properties	Popup Properties	Required?	Default Value
Mapping Name	User drop down	Allows the user to select from a list of interface types the interface that will be actioned for results.	N/A	N/A	Yes	The first interface type sorted alphabetically
Filename	Text Box	Allows the user to specify a filename for the exported results file.	N/A	N/A	Yes	N/A
Add Date and Time to Each File Name	Checkbox	Allows the user to append a date and timestamp to the exported filename. Format: *Filename_yyyyMMdd_HHmmss.txt*	N/A	N/A	No	True
Msg Id Field	Text Box	Allows the user to specify the column from the WBINT_IMPORT table that contains the Msg Id (IDoc number). Only the column name needs to be specified in this parameter.	N/A	N/A	Yes	N/A
Key Fields	Text Box	Allows the user to specify the columns from the WBINT_IMPORT or WBINT_TRANSACTION table that they would like to export. These will be the key fields that allow identification of which record has failed; usually the	N/A	N/A	No	N/A

Label	Control Type	Control Description	Display Properties	Popup Properties	Required ?	Default Value
		SAP ID. These will be different for each interface. This will be a comma separated field, with each column specified by it's complete name (*TABLE_NAME.COLUMN NAME*). e.g. WBINT_TRANSACTION.WBIT RAN_UDF2, WBINT_IMPORT.E				
Client Name	Drop Down	Allows the user to specify the client this interface runs for	N/A	N/A	Yes	Default

2.4 Data

2.4.1 Source

The following fields will be used to provide the required information for this interface:

Field	Description
IMPORTS INTO WORKBRAIN	
WBINT_TYPE.WBITYP_NAME	This value compares the parameter "Mapping Name" to ensure the correct transactions are exported.
WBINT_TRANSACTION.WBITRAN_FLAG1	This flag marks whether the transaction has gone through this error management process previous and thus already been exported.
WBINT_IMPORT.WBIMP_STATUS	Status of the record
WBINT_IMPORT.WBIMP_MSG	Message related to the status of the record
WBINT_IMPORT.[A .. CZ]	One of these columns will hold the error handling identifier (e.g. SAP MsgID). Depending on how many columns are specified to be exported, not all of these fields may be exported.
EXPORTS FROM WORKBRAIN	
JOBSKD_TASK.JSTSK_DESC	This value corresponds to the name of the configured Job Task that will be polled for failures.
JOBSKD_TASK.JSTSK_FAILURES	This value corresponds to the number of failures.

The file that is returned to SAP/XI will be in this format.

Interface: Error Management Import Interface Description: Export of data that was imported with the status of the processing in Workbrain. Note: some of the columns in this interface are left blank because not all fields were updated.				
Col No.	Field Title	Type	Size / Format	Comments
1	Import Status	Varchar2	40	Will either be ERROR or APPLIED
2	Import Message	Varchar2	255	Will contain a message related to the status.
3	SAP MsgID	Varchar2	1000	Copy from the last field of the import row.
4 – (4+X)	SAP Key Fields	Varchar2	1000	This will be the SAP Key Fields that are specified in the parameters. There may not be a need to include any key fields, thus these columns may be unnecessary. X is the number of columns that are included in the key fields.

Example:
```
"ERROR","Department Table Import","Unparseable date:
""01/01/1900""","0000234566""PROJ_B"

"APPLIED","Department Table Import","Inserted
succesfully","00002444567""PROJ_A"
```

2.4.2 Target

The following basic fields maybe be used to populate the SAP IDoc control/status record.

Field	Description
IDOCNUM	SAP IDoc number message ID.
STATUS	Status of the IDoc
STATXT	Status text
MESTYP	Message type specific to the interface
MESCOD	Message Code
SNDPRT	Sender of message. Will be static (i.e. WORKBRAIN)
LOGDAT	Date created
LOGTIM	Time created
REPID	Program Name
REFINT	File Name

2.4.3   Mapping

The following fields need to be mapped:

Export Name	Column No	Workbrain Field Name	Field Description	Type	Size	XI Function	Target Field Name in SAP	Format in SAP	Size in SAP	Comments
Status	1	WBIINT_IMPORT. WBINP_STATUS	This will either say ERROR,or APPLIED.	VARCHAR	40	This fields will be translated into ALEAUD IDoc status	Indirectly reflected in EDIDS-STATUS			
Msg	2	WBINT_IMPORT.WBIMP_MSG	This will be a message describing the status. See Appendix A for examples of errors.	VARCHAR	255	This field will be split into three fields in IDoc status record	EDIDS-STAPA2, EDIDS-STAPA3, EDIDS-STAPA4	String	50 x3, total 150 char, the rest will be trucked	
SAP MsgID	3	WBINT_IMPORT.[A.. CZ]	This will be the SAP MsgID (IDoc). This is retrieved from one of the columns in the WBINT_IMPORT table.	VARCHAR	255	This field will be transferred to the IDoc number field of the ALEAUD IDoc created by XI	EDIDC-DOCNUM	String	18	
Key Fields	4-106	WBINT_IMPORT.[A .. CZ]	These are the specified key SAP fields.	VARCHAR	1000	These fields will be concatenated and copied to IDoc status record	EDIDS-STAPA1	String	50	Not all columns may be used/ exported. Exported fields will be specified in the parameters page.

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2.4.4 Volumes

There will be one record sent back to SAP for each record that is sent to Workbrain. It is estimated to be around 20,000 records sent from Workbrain to SAP daily.

2.5 Processing

2.5.1 Logic - Workbrain

2.5.1.1 Imports into Workbrain

This will be a scheduled task that is performed after each import/interface task. It will be a separate task than the interface tasks from SAP (not an aggregate task); this is to ensure it is run daily irrespective of successes or failures of the interface itself. This interface must be timed to run after the interface it is reporting on. The timing of this interface will be determined during development.

The task will poll the staging tables for transactions of the mapping name specified that have not been flagged as exported. The task will retrieve these records, organize the fields as necessary, and export them into a file.

The interface will find all records of the type selected in the parameters page that have not been exported previously and send those in the error management file. After exporting the records, it will then mark each transaction that has just been exported with a 'Y' in the field WBITRAN_UDF1 to prevent sending the same transaction in subsequent runs. It will also mark each transaction that did not have any errors with a 'Y' in the field WBITRAN_UDF1 to limit the returned results in subsequent runs.

2.5.1.1.1 Example of Import Error

The following is an example of the end to end process for Workbrain.

1. Import File sent from SAP to Workbrain

    ```
    "PROJ_B","Project B","01/01/1900","01/01/3000","0000234566"

    "PROJ_A","Project A","null","null","00002444567"
    ```

2. The following parameters are used:

    Mapping name: PROJECT TABLE IMPORT

    Filename: C:/project_import.csv

    Add Date and Time to Each File Name: true

    Msgld Field: E

    Key Fields: WBINT_IMPORT.A

    Client Name: Default

3. Import/Interface Task for Project is run in Workbrain

4. The file has an error. This is a snapshot of the result:

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Import Transaction Details

▣ Top

Find Del	Status	Message	Proc Date	A	B	C	D
☐	ERROR ▾	Unparseable date: "01/01/1900"	31/05/2007 10:12:53	PROJ_B	Project B	01/01/1900	01/01/3000
☐	APPLIED ▾	Inserted succesfully	31/05/2007 10:03:24	PROJ_A	Project A		

Save	▣ Return to form listing

5. The following file is sent back to SAP through this Error Management process.

```
"ERROR","Department Table Import","Unparseable date:
""01/01/1900""","0000234566","PROJ_B"
"APPLIED","Department Table Import","Inserted
succesfully","00002444567","PROJ_A"
```

6. The updates are made in SAP and the following file is sent back to Workbrain.

```
"PROJ_B","Project B","19000101","30000101","0000234566"
```

Only the previously erred record needs to be sent back to Workbrain. The successful record should not be sent back. In the above example, only PROJ_B was sent back with corrections, and PROJ_A is not sent back.

2.5.1.2 Export from Workbrain

This will be a scheduled task that is performed after each export task. It will be set up as a separate task than the export tasks (not an aggregate). The timing of this interface will be determined during development and testing stage when it can be determined how long each interface may take. Export Tasks in Workbrain will only fail during the generation of the file itself; incorrect data will be reported on in SAP and not in Workbrain. Therefore, this task will need to determine when the export task fails at a transaction level.

The task will run a configured alert that polls the job task table to determine which tasks have failed. A notification email will be sent in order for action to take place when export tasks have failed.

The alert will display two fields: Job Task Description and Number of Failures. This alert will continue to be sent as long as the task has more than 0 failures. The task names must be provided during the development of the alert so that it can be configured. This alert can be configured to report on all export tasks at once, and will not have to be configured as a different alert for each export task.

An example of what the alert may look like:

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| Inbox | Compose | Address Book | Folders | Forms | Batch Approvals |

Read Message

From	WORKBRAIN		Date	Jul 31, 4:28 PM
To	WORKBRAIN			
Cc				
Subject	An export from Workbrain to SAP has failed. Please take action to resolve this problem immediately.			

| Reply | Reply All | Forward | Prev | Next | Delete | Close |

Errors for Export Errors

Job Scheduler Task Description   jstskfailures
Error Management Export Task   1

| Reply | Reply All | Forward | Prev | Next | Delete | Close |

This alert will be configured to send to a team or specific user. This will be determined during the development stage when teams and users mapped. Whoever receives the alert must have access to error logs. The error logs are not printed within the alert because they will most likely be a stack trace; this may be too long to print in an alert and will require someone with an ability to determine errors from a stack trace.

2.5.2   Logic - SAP

2.5.2.1   SAP (XI)

SAP XI will provided guaranteed delivery of application error message between the source and target systems. SAP XI will provide both structure and value mapping between the different error message formats and convert the message types between file and IDoc.

Alerts and notifications raised in SAP XI will be passed to SAP ECC for processing and recipient determination.

SAP XI will not provide any reprocessing of messages but will provide monitoring of messages between source and target systems.

SAP XI will determine the following information from the message payload or filename/file contents:

- Message ID
- Agency ID
- Process/Interface ID
- Record(s) in error
- Error Message

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2.5.2.2   SAP (ECC)

Refer to document "SSS Technology Error Handling, Alerts, Notifications and Acknowledgments Approach". Refer to Section 4.

2.5.3   Calculations

N/A.

2.5.4   Error Handling

SAP XI to advise the source or target business systems when an application error occurs. It is the responsibility of the source or target systems to provide processes and functionality to handle and reprocess application errors.

Any technical errors, while be handled by CSC or BASIS/Infrastructure support teams.

2.5.5   Notifications/Alerts

Alerts will be raised and send via the SAP Alert Framework for any technical errors which are generated within SAP XI. Alerts are sent based on a security role created in SAP ECC and granted to nominated users which exist within SAP ECC.

Notifications, either via email or workflow or both, will be raised associated with functional or business process errors which occur. Notifications are send to nominated recipients based on master data which exists in SAP ECC (e.g. Employee, Responsibility). Required master data must exist in SAP ECC first in order for recipient determination. Work items are access via the users UWL though the Portal or SAP GUI. Email notifications can also be sent from SAP XI where a static email address is provided.

2.5.6   Audit Activities/Constraints

Interface error files should be retained for 30 days either on the source or target system. There are no other audit activities / constraints identified with this development.

2.6   Output Report

2.6.1   Layout

N/A.

2.6.2   Fields

N/A.

2.6.3   Sort Sequence / Groups / Breaks

N/A.

2.7   Comments

N/A.

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Appendix A

The following chart contains a list of possible error messages that may appear during the import process.

Errors messages are stored in the Message column of the Import Transactions screen.

Employee Import	
Error Message	**Description**
Calc Group Map not found with name ?	Mapped Calc Group not found
Calculation group (no calculation group named ? found) and can't be created based on HR_LOOKUP settings	Calculation group could not be found and could not be created as HR_LOOKUP settings rejected it
Docket (no docket named ? found) and can't be created based on HR_LOOKUP settings	Docket could not be found and could not be created as HR_LOOKUP settings rejected it
Error in inserting default calc group	Error in inserting default calc group
Error parsing EMP_FLAG: more than 20 chars found.	EMP_FLAGS is not 20 chars long
Error parsing OVR_START/END_DATE. Expected mm/dd/yyyy format while attempting to parse ?	Invalid OVR_START/END_DATE formats
Error parsing WBU_PWD_CHANGED_DATE. Expected mm/dd/yyyy format while attempting to parse ?	Invalid WBU_PWD_CHANGED_DATE format
Error: A UDF definition for ? could not be found and can't be created based on HR_LOOKUP settings	UDF definition could not be found and could not be created as HR_LOOKUP settings rejected it
Error: A Workbrain Team definition for ? could not be found and can't be created based on HR_LOOKUP settings.	Workbrain Team could not be found and could not be created as HR_LOOKUP settings rejected it
Error: Bad mode while processing balance update: ?	Balance mode in balance string is not ADD or SET
Error: Could not find balance while processing balance update: ?	Balance not found in balance string
Error: Employee ? could not be mapped to a ?	Related mapping resolved to no value which created mapping error
Error: Entitlement policy ? does not exist.	Entitlement Policy not found
Error: Import record (ID ? for employee ? did not load as it was missing key employee data. EMP_NAME field requires data	EMP_NAME was not supplied
Found blank team name in data: ?	Team name cannot be null if team string supplied
Hour type (no hour type named ? found) and	Hour type could not be found and could not

can't be created based on HR_LOOKUP settings	be created as HR_LOOKUP settings rejected it
Job (no job named ? found) and can't be created based on HR_LOOKUP settings	Job could not be found and could not be created as HR_LOOKUP settings rejected it
Malformed UDF field number?. Expected <name>~<value>.	Employee UDF is in wrong format
Pay Group Map not found with name ?	Mapped Pay Group not found
Project (no project named ? found) and can't be created based on HR_LOOKUP settings	Project could not be found and could not be created as HR_LOOKUP settings rejected it
Security Group Map not found with name ?	Mapped Security Group not found
Shift pattern (no shift pattern named ? found) and can't be created based on HR_LOOKUP settings	Shift pattern could not be found and could not be created as HR_LOOKUP settings rejected it
Shift Pattern not found with name ?	Mapped Shift Pattern not found
SO Employee Map not found with name ?	Mapped SO Employee not found
Time code (no time code named ? found) and can't be created based on HR_LOOKUP settings	Time code could not be found and could not be created as HR_LOOKUP settings rejected it
Time code (no time code named ? found) and can't be created based on HR_LOOKUP settings	Time code could not be found and could not be created as HR_LOOKUP settings rejected it
Warning: Team structure changed. Team ? has been moved from parent ID ? to ?. Please confirm.	Team has been moved based on given team string

Job Import

Error Message	Description
Error parsing JOB_REFKEYX	Invalid Job_Refkey supplied in the import file.
JOB_NAME cannot be null	Job_Name not supplied in the import file.
Error parsing JOB_ RATE_INDEX	Invalid Job_Rate_Index format supplied in the import file.
Error parsing JOB_RATE_EFF_DATE	Invalid Job_Rate_Eff_Date format supplied in the import file.
JOB_NAME X not defined	Job_Name not found in the supplied import file.
JOB_NAME/ JOB_RATE_INDEX/JOB_RATE_EFF_DATE cannot be null	Job_Name/ Job_Rate_Index/ Job_Rate_Eff_Date not supplied in theimport file.

Schedule Import

Error Message	Description

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Cannot find the specified employee in the import data.	If Creates Employee Override is selected and employee with Emp_Name is not found in the Workbrain system.
Cannot find the specified schedule in the import data.	If Creates Shift When Not Found is set to TRUE, a shift is created, otherwise, an error is generated.
Invalid date format	Invalid schedule in/out dates, invalid break times

Team Import	
Error Message	**Description**
Error	Role does not exist. The team and user role record was not created.
Error: Could not find user to assign as the (role name) for team (team name). The user record may not exist.	Unable to find user listed for a role. The role is not assigned.
Error: The (team name) team could not be deleted as it is in use for subordinate teams.	Team has child records (i.e., the team is a parent of another team). The team is not deleted.
Error: User role was not in the (role name) and cannot be removed.	User/Role combination does not exist during a deletion. No action is performed.
No Error Message	If the specified team exists in the Workbrain system, update the team hierarchy, description and type.
No Error Message	User/Role combination does not exist during an update. The User/Role combination is then created in the Workbrain system.
Warning: Team (team name) has been created to complete a hierarchy pathway.	Cannot find a team in the team hash indicated. A new team is then created for the unknown team.

Generic Table Import	
Error Message	**Description**
Return stream is not valid XML: {msg}	XML is not valid against the DTD.
Index attribute must be an integer	One of the index attributes is not an integer.
Index attribute must be between 1 and 104	One of the index attributes is not between 1 and104.
Index attribute must be unique; {0} is defined more than once	Index attribute is not unique.
db-field attribute must be unique; {0} is defined more than once	db-field attribute is not unique.
Transaction type is INSERT_UPDATE,DELETE or UPDATE but no field is defined with update-key	If transaction-type is INSERT_UPDATE,DELETE or UPDATE and no fields are defined as the

attribute or defined fields are not valid	key-field attribute or the defined fields are not valid.
Mapping {0} not found	Mapping name does not exist in the WBINT_MAPPING table (i.e., Mapping Definitions screen).
Field: {0} has date-format but it is not Date type	The date-format attribute is used in a field that is not of date type.
Primary Field: {0} cannot exist in db-field tag	Primary-key field exists in one of db-fields.
Reference table: {0} cannot be same as transaction table	The reference table is same as the current Workbrain table using the reference.
Transaction table {0} not found	Table in the <table> tag is not found in the Workbrain database.
Database column {0} not found in table {1}	The field listed in <db-field> does not exist in the Workbrain table.
Reference table {0} not found	The value in the table-name attribute in the <reference> element is not found in the Workbrain database.
Database column {0} not found in reference table {1}	Columns in supplied-value and resolve-to-field attributes do not exist in the reference table.
Transaction type: {0} not valid	The TRANSACTION_TYPE determined by an import record is not valid.

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