INTEGRATED RESOURCE INFORMATION SYSTEM

PROJECT

ITA Interface Design Document Template – XML
Deliverable # 15 Interface Specifications

October 22, 2013

VERSION 0.1

SOA Internal Use Only

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1 INTRODUCTION

The Internal Transaction Agreement (ITA) Document Code exists to complete the internal purchase or transfer started with the Internal Transaction Initiator (ITI) document. The ITI Document Code exists to collect information for just one party involved in an internal purchase or transfer. It allows that party to set the one or more funding distributions (COA combinations) desired, the amount(s), basic accounting model, and optionally set the Fiscal Year, Accounting Period, and Budget Fiscal Year. The ITA is where the 2nd party specifies one or more funding distributions (COA combinations) for each accounting line referenced from an ITI document. The ITA then performs accounting and budget updates for both parties.

2 INTERFACE SPECIFICATIONS

2.1 [INTERFACE NAME – INTERFACE #]

This section should contain a description of the specific interface and any information relative to the interface, such as schedule, volume, etc.

2.2 ASSUMPTIONS

This interface will be developed under the following assumptions:

- List all assumption related to the specific interface…

2.3 ADDITIONAL INFORMATION

This section is for any additional information gathered about the specific interface. This could include the file naming convention, original file layout sample, etc.

3 FILE SPECIFICATIONS

The following sections describe in detail the specifications of the Internal Transaction Agreement (ITA) document inbound interface template.

3.1 INTERNAL TRANSACTION AGREEMENT (ITA) TRANSACTION LAYOUT

The ITA transaction consists of 5 required components. Exhibit 1 illustrates the ITA document showing that it will have one AMS_DOCUMENT record, one ITA_DOC_HDR, one ITA_DOC_VEND that can have one or multiple ITA_DOC_ACTG records associated with it, and one Trailer record. Exhibit 2 is a graphical representation of all components.

The remaining sections explain each component that constitutes a complete XML-based ITA document.

Exhibit 1 ITA Transaction Required XML Components

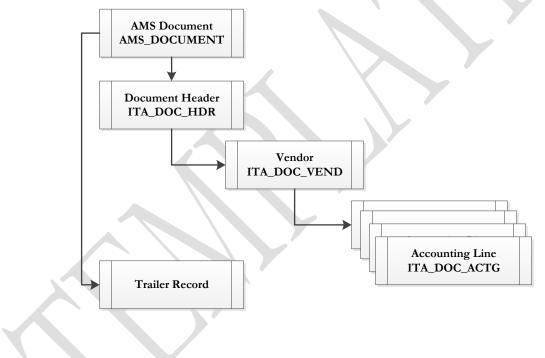|		Action		Component description
		Original entry	Modification	
Document Components	AMS_DOCUMENT	Required	Required	Unique ID for internal transaction agreement.
	ITA_DOC_HDR	Required	Required	General information about the document and Servicer information.
	ITA_DOC_VEND	Required	Required	Referenced ITI provides information for the Servicer accounting and Requestor.
	ITA_DOC_ACTG	Required	Required	Information for the Requestor accounting.
	Trailer Record	Required	Required	Trailer record containing reconciliation totals.

Exhibit 2 ITA Document Components

3.2 ITA DOCUMENT COMPONENT: AMS_DOC_XML_IMPORT_FILE

The following XML tags are a requirement for any XML file being submitted into the IRIS system. See Appendix A for an example of a fully qualified ITA XML example:

XML Tag	Description	R/C
AMS_DOC_XML_IMPORT_FILE	Required XML beginning tag for a base ITA document	R

3.3 ITA DOCUMENT COMPONENT: AMS_DOCUMENT

SOA			IRIS							
Field	Type	Size	Column Name	Caption	Description	R/C	Type	Len	Comments / Rules
			DOC_CAT	Document Category	The category in which the document is located.	R	VARCHAR2	8	"INT"
			DOC_TYP	Document Type	The type of document, defined in the Document Type table. Each document code must be assigned a document type.	R	VARCHAR2	8	"ITA"
			DOC_CD	Document Code	The alpha-numeric code that indicates the type of transaction.	R	VARCHAR2	8	Select an appropriate document code. Example: "IFTI" for All Intra Fund Billing "ITIEX" for Inter Fund – Expense Distribution "ITIRV" for Inter Fund - Billing
			DOC_DEPT_CD	Department	The department code assigned to this document.	R	VARCHAR2	4	Department Code such as '02' for DOA
			DOC_UNIT_CD	Document Unit Code	The unit code associated with this document, which can be used to facilitate workflow.	R	VARCHAR2	4	

SOA			IRIS							
Field	Type	Size	Column Name	Caption	Description	R/C	Type	Len	Comments / Rules	
			DOC_ID	Document ID	The document code and number that is either manually assigned or automatically generated by the system if you do not enter this information. Duplicate document identification numbers are not allowed in the system.	R	VARCHAR2	20	Interfaced transactions will always contain a unique Document ID and will not make use of the automatically generated Document ID. The Document ID provided in the interface will be used to locate the transaction in IRIS and to prevent duplicate transactions.	
			DOC_VERS_NO	Document Version	The version number assigned to this document. The version is incremented with each modification draft.	R	NUMBER	10	Always set to "1".	
			AUTO_DOC_NUM	Automatic Document Numbering	Indicates that system will assign a unique Document ID: "true" for system assigned Document ID number or "false" for no system assigned Document ID Number.	R	VARCHAR2	5	Always set to 'false'.	
			DOC_IMPORT_MODE	Document Import Mode	Indicates that the document is being made as an Original Entry "OE" or it's a Modification "MOD".	R	VARCHAR2	3	"OE " for Original Entry "MOD" for Modification	

3.4   ITA DOCUMENT COMPONENT: ITA_DOC_HDR

SOA			IRIS						
Field	Type	Size	Attribute	Caption	Description	R/C	Type	Size	Comments / Rules
			DOC_CAT	Document Category	The category in which the document is located.	R	VARCHAR2	8	Same as in AMS_DOCUMENT
			DOC_TYP	Document Type	The type of document, defined in the Document Type table. Each document code must be assigned a document type.	R	VARCHAR2	8	Same as in AMS_DOCUMENT
			DOC_CD	Document Code	The alpha-numeric code that indicates the type of transaction.	R	VARCHAR2	8	Same as in AMS_DOCUMENT
			DOC_DEPT_CD	Department	The department code assigned to this document.	R	VARCHAR2	4	Same as in AMS_DOCUMENT
			DOC_UNIT_CD	Document Unit Code	The unit code associated with this document, which can be used to facilitate workflow.	R	VARCHAR2	4	Same as in AMS_DOCUMENT

SOA			IRIS						
Field	Type	Size	Attribute	Caption	Description	R/C	Type	Size	Comments / Rules
			DOC_ID	Document ID	The document code and number that is either manually assigned or automatically generated by the system if you do not enter this information. Duplicate document identification numbers are not allowed in the system.	R	VARCHAR2	20	Same as in AMS_DOCUMENT
			DOC_VERS_NO	Document Version	The version number assigned to this document. The version is incremented with each modification draft.	R	NUMBER	10	Same as in AMS_DOCUMENT
			DOC_NM	Document Name	Name for the document.	O	VARCHAR2	60	The value in this field should be descriptive of what the payment is for.
			DOC_REC_DT_DC	Record Date	The record date manually entered on the document header. If not manually entered, the date becomes the one when the document was submitted successfully.	O	DATE	7	Defaults to current date. Format of Date "MMDDYYYY" Example: "10232004"
			DOC_DSCR	Document Description	The description associated with the document	O	VARCHAR2	60	Could contain a document description.
			INIT_CD	Initiator	Field that tells the nature of the 1st party. Choices are Provider/Seller or Receiver/Buyer. Required field.	R	CHAR	1	Inferred from ITI document
			DLVR_DT	Delivery Date	The requested delivery date from the Stock Requisition.	O	DATE	7	Format of Date "MMDDYYYY" Example: "10232004"
			ADDL_INFO	Additional Information	Any additional information about this item.	O	VARCHAR2	60	
			EXT_DOC_DSCR	Extended Description	A free-form text field that will hold a large volume of information to be associated with a document component.	O	VARCHAR2	1500	

3.5   ITA DOCUMENT COMPONENT: ITA_DOC_VEND

SOA	IRIS

Field	Type	Size	Attribute	Caption	Description	R/C	Type	Size	Comments / Rules
			DOC_CAT	Document Category	The category in which the document is located.	R	VARCHAR2	8	Same as in AMS_DOCUMENT
			DOC_TYP	Document Type	The type of document, defined in the Document Type table. Each document code must be assigned a document type.	R	VARCHAR2	8	Same as in AMS_DOCUMENT
			DOC_CD	Document Code	The alpha-numeric code that indicates the type of transaction.	R	VARCHAR2	8	Same as in AMS_DOCUMENT
			DOC_DEPT_CD	Department	The department code assigned to this document.	R	VARCHAR2	4	Same as in AMS_DOCUMENT
			DOC_UNIT_CD	Document Unit Code	The unit code associated with this document, which can be used to facilitate workflow.	R	VARCHAR2	4	Same as in AMS_DOCUMENT
			DOC_ID	Document ID	The document code and number that is either manually assigned or automatically generated by the system if you do not enter this information. Duplicate document identification numbers are not allowed in the system.	R	VARCHAR2	20	Same as in AMS_DOCUMENT
			DOC_VERS_NO	Document Version	The version number assigned to this document. The version is incremented with each modification draft.	R	NUMBER	10	Same as in AMS_DOCUMENT
			RFED_DOC_CD_I	Initiator Doc Code	Defines an ITI document code value of the document to be referenced.	R	VARCHAR2	8	The value entered must be defined as allowable for the ITA document code on the Document Allowable Reference (DARF) table.
			RFED_DOC_DEPT_CD_I	Initiator Doc Dept	Defines the ITI document department value of the document to be referenced.	R	VARCHAR2	4	
			RFED_DOC_ID_I	Initiator Doc ID	Defines the ITI document identification number of the document to be referenced.	R	VARCHAR2	20	
			RFED_VEND_LN_NO_I	Initiator Vendor Line	Defines the ITI vendor line number of the document to be referenced.	R	NUMBER	10	
			RFED_ACTG_LN_NO_I	Initiator Accounting Line	Defines the ITI accounting line of the document to be referenced.	R	NUMBER	10	

SOA			IRIS							
Field	Type	Size	Attribute	Caption	Description	R/C	Type	Size	Comments / Rules
			RF_TYP	Ref Type	Defines the type of reference being performed against the specified referenced IRIS transaction line.	O	NUMBER	10	"Final" closes the referenced line (additional references are not allowed). "Partial" and "Memo" do not close the referenced line (allows additional transactions to reference this line).

3.6 ITA DOCUMENT COMPONENT: ITA_DOC_ACTG

SOA			IRIS						
			Attribute	Caption	Description	R/C	Type	Size	Comments / Rules
			DOC_CAT	Document Category	The category in which the document is located.	R	VARCHAR2	8	Same as in AMS_DOCUMENT
			DOC_TYP	Document Type	The type of document, defined in the Document Type table. Each document code must be assigned a document type.	R	VARCHAR2	8	Same as in AMS_DOCUMENT
			DOC_CD	Document Code	The alpha-numeric code that indicates the type of transaction. The value "ITA" indicates an internal transaction agreement.	R	VARCHAR2	8	Same as in AMS_DOCUMENT
			DOC_DEPT_CD	Department	The department code assigned to this document.	R	VARCHAR2	4	Same as in AMS_DOCUMENT
			DOC_UNIT_CD	Document Unit Code	The unit code associated with this document, which can be used to facilitate workflow.	R	VARCHAR2	4	Same as in AMS_DOCUMENT
			DOC_ID	Document ID	The document code and number that is either manually assigned or automatically generated by the system if you do not enter this information. Duplicate document identification numbers are not allowed in the system.	R	VARCHAR2	20	Same as in AMS_DOCUMENT
			DOC_VERS_NO	Document Version	The version number assigned to this document. The version is incremented with each modification draft.	R	NUMBER	10	Same as in AMS_DOCUMENT

SOA			IRIS						
			Attribute	Caption	Description	R/C	Type	Size	Comments / Rules
			EVNT_TYP_ID	Event Type	The alphanumeric identification code assigned to an event type. Each event type ID must be unique within the application. It is required when completing any accounting or budgeting document with the exception of certain journal vouchers. Default event types can be established on the Allowable Event Types for Document Code table for each document code for the most commonly used ones to reduce data entry. Other crosswalk tables aid accounts receivable and payable documents to default the correct event type when a document is referenced based on the one from the referenced document. It also may be selection criteria on a parameter table, a key to a specific business rule on a control table, or the event type recorded on a historical record.	R	VARCHAR2	4	Leave blank. Value is inferred from the referenced ITI document.
			ACTG_TMPL_ID	Accounting Template	The unique identification code assigned to the accounting template.	O	VARCHAR2	6	The Department may choose to set up an Accounting Template, which will contain information. Use of the Account Template will default Chart of Accounts information for the Accounting Line. Must be valid on Accounting Template (**ACTPL**) table.
			ACTG_LN_DSCR	Line Description	The description associated with the line.	O	VARCHAR2	100	Department may provide Accounting Line Description in this data element.
			LN_AM	Line Amount	The amount of an individual record of a document component, be it the header, vendor line, commodity line, accounting line, budget line, or allotment. The amount could also be the amount recorded to a table that tracks document updates such as the Statement Detail table or a journal.	R	NUMBER	(14,2)	To specify a payment of 3,000.13 the following is the format: Example: "3000.13" The Line Amount (**LN_AM**) can be used for modification increases and decreases.

SOA			IRIS						
			Attribute	Caption	Description	R/C	Type	Size	Comments / Rules
			BANK_ACCT_CD	Bank	The unique identification code associated with the bank account. This code is the key to the Bank (BANK) table. A bank account code is used in place of the actual bank account to prevent the posting of actual bank account numbers throughout the system.	CR	VARCHAR2	4	This value is inferred from fund.
			RFED_DOC_CD	Ref Doc Code	The document code from the referenced IRIS document.	O	VARCHAR2	8	Defines the referenced document code value of the document to be referenced.
			RFED_DOC_DEPT_CD	Ref Doc Dept	Department code that is part of the complete document identification of a referenced IRIS document.	O	VARCHAR2	4	Defines the referenced document department value of the document to be referenced.
			RFED_DOC_ID	Ref Doc ID	The document identification code from the referenced IRIS document.	O	VARCHAR2	20	Defines the referenced document identification number of the document to be referenced.
			RFED_VEND_LN_NO	Ref Vendor Line	The vendor line number from the referenced IRIS document.	O	NUMBER	10	Defines the referenced vendor line number of the document to be referenced.
			RFED_ACTG_LN_NO	Ref Accounting Line	The accounting line number from the referenced IRIS document.	O	NUMBER	10	Defines the referenced accounting line of the document to be referenced.
			RF_TYP	Ref Type	Defines the type of reference being performed against the specified referenced IRIS transaction line. "Final" closes the referenced line, meaning additional references are not allowed. "Partial" and "Memo" do not close the referenced line, allowing additional transactions to reference this line.	O	NUMBER	10	Defines the type of reference. The field defaults to an initial value of Partial, but will be set by the system to Final if the Line Amount of that accounting line exceeds the Open Amount of the referenced accounting line.
			BFY	Budget FY	When on the header of a document, this is the default budget fiscal year that will be pushed to all accounting lines. When on any other level of a document, it is just a means of getting the header value to the accounting lines. This default value will become the accounting line's budget fiscal year where one is not manually entered or defaulted from a reference document.	O	NUMBER	10	Leave blank.

SOA			IRIS						
			Attribute	Caption	Description	R/C	Type	Size	Comments / Rules
			FY_DC	Fiscal Year	The fiscal year associated with this document.	O	NUMBER	10	If left blank, the system will populate it with the Fiscal Year of the Record Date on associated document. If provided, must be valid on the Fiscal Year table and follow the format "YYYY".
			PER_DC	Period	The manually entered accounting period for a document in draft. If not manually entered, the field remains blank until the document is submitted successfully. At this point it was set to the current accounting period. This field will be automatically blanked out by the application on any modification or cancellation draft.	O	NUMBER	3	If left blank, the system will populate it with the Fiscal Period of the Record Date on associated document.
			FUND_CD	Fund	The identification code associated with a fund.	R	VARCHAR2	4	Must be valid on FUND table. May be inferred from Department and Unit.
			SFUND_CD	Sub Fund	The identification code associated with the sub-fund.	CR	VARCHAR2	4	Must be valid on SFUND table. May be inferred from Department and Unit.
			DEPT_CD	Department	An identification code associated with a department.	CR	VARCHAR2	4	Must be valid on the DEPT table.
			UNIT_CD	Unit	An identification code associated with a Unit.	CR	VARCHAR2	4	Must be valid on the UNIT table.
			SUNIT_CD	Sub Unit	Sub Unit is a means of breaking down a unit code into smaller measurements. It is the lowest level of organizational structure and is required or prohibited based on one or more sub unit requirement tables.	CR	VARCHAR2	4	Leave blank.
			APPR_CD	Appr Unit	The identification code associated to an appropriation unit.	CR	VARCHAR2	9	Leave blank.
			OBJ_CD	Object	The identification code associated with an object of expenditure.	CR	VARCHAR2	4	Required Chart of Account element for Requestor. Must be valid on the OBJ table.
			SOBJ_CD	Sub Object	The identification code associated with the sub-object.	CR	VARCHAR2	4	If entered, must be valid on the Sub Object table. To enter a Sub Object Code, the Object Code must be entered.

SOA			IRIS						
			Attribute	Caption	Description	R/C	Type	Size	Comments / Rules
			RSRC_CD	Revenue Source	Revenue sources are used to track individual sources of revenue taken in.	CR	VARCHAR2	4	If provided, must be valid on the Revenue table.
			SRSRC_CD	Sub Revenue Source	The identification code associated with the sub-revenue source.	CR	VARCHAR2	4	If entered, must be valid on the Sub Revenue Source table. To enter a Sub Revenue Source Code, the Revenue Source Code must be entered.
			BSA_CD	Balance Sheet Account	The identification code assigned to the balance sheet account.	CR	VARCHAR2	4	If entered, must be valid on Balance Sheet Account (BSA) table.
			SBSA_CD	Sub BSA	The identification code assigned to the sub-balance sheet account.	CR	VARCHAR2	4	If entered, must be valid on the Sub BSA table. To enter a Sub BSA Code, the BSA Code must be entered.
			OBSA_CD	OBSA	The balance sheet account code to which the offset is posted. In most cases, there is a default established for this code; however, certain documents will allow users to manually enter a value to be used other than the default.	CR	VARCHAR2	4	Leave blank.
			OSBSA_CD	Sub OBSA	The sub-balance sheet account to which the offset is posted.	O	Text	4	Leave blank.
			DOBJ_CD	Dept Object	The identification code assigned to the Department object.	CR	Text	4	If entered, must be valid on the Department Object table.
			DRSRC_CD	Dept Revenue	The code assigned to the department revenue source.	CR	Text	4	If entered, must be valid on the Department Revenue Source table.
			LOC_CD	Location	The identification code assigned to the location.	CR	Text	4	If entered, must be valid on the Location table.
			SLOC_CD	Sub Location	The identification code associated with the sub-location.	CR	Text	4	If entered, must be valid on the Sub Location table. To enter a Sub Location Code, the Location Code must be entered.
			ACTV_CD	Activity	The identification code associated with the activity.	CR	Text	4	If entered, must be valid on the Activity table.
			SACTV_CD	Sub Activity	The identification code associated with the sub-activity.	CR	Text	4	If entered, must be valid on the Sub Activity table. To enter a Sub Activity Code, the Activity Code must be entered.
			FUNC_CD	Function	The identification code associated with the function. Code is used for *Performance Counts!*	CR	Text	4	May be inferred from Department and Unit.
			SFUNC_CD	Sub Function	The identification code associated with the sub-function.	CR	Text	4	If entered, must be valid on the Function table.

SOA			IRIS						
			Attribute	**Caption**	**Description**	**R/C**	**Type**	**Size**	**Comments / Rules**
			RPT_CD	Reporting	The reporting code element is used for tracking contract activity. The contract number will be entered in this field.	CR	Text	10	If entered, must be valid on the Sub Function table. To enter a Sub Function Code, the Function Code must be entered.
			SRPT_CD	Sub Reporting	Sub reporting codes are used to further define a specific reporting code.	CR	Text	4	If entered, must be valid on the Reporting Code table.
			TASK_CD	Task	The unique identification code assigned to the task.	CR	Text	4	If entered, must be valid on the Sub Reporting table. To enter a Sub Reporting Code, the Reporting Code must be entered.
			STASK_CD	Sub Task	The sub task is a means of breaking down tasks into smaller components.	CR	Text	4	If entered, must be valid on the Task table.
			TASK_ORD_CD	Task Order	The unique identification code assigned to the task order.	CR	Text	6	If entered must be valid on Sub Task table. To enter a Sub Task Code, the Task Code must be entered.
			PROG_CD	Program	The identification code assigned to the program.	CR	Text	10	If entered, must be valid on the Task Order table.
			PHASE_CD	Phase	The identification code assigned to the phase.	CR	Text	6	If entered, must be valid on the Program Phase table. To enter a Phase Code, the Program Code must be entered.
			PPC_CD	Program Period	The identification code assigned to the program period.	CR	Text	6	If entered, must be valid on the Program Period table. To enter a Program Period Code, the Program Code must be entered (to infer the Major Program).
			SVC_FRM_DT	Service From Date	The From Date that goods/services were received.	CR	Date	8	Format of Date "MMDDYYYY"
			SVC_TO_DT	Service To Date	The To Date that goods/services were received.	O	Date	8	Format of Date "MMDDYYYY"

3.7   TRAILER RECORD

For this interface file, the following data needs to be processed, calculated and stored in the IRIS database record table for reconciliation purposes.

DB Field	Name	Description	Type	Len	Comments

DB Field	Name	Description	Type	Len	Comments
INT_FILE_NAME	File Name	The text name of the file.	VARCHAR2	32	This file name must match the file name of the physical file.
INT_RCD_CNT	Record Count	The numeric count of all records within this file.	NUMBER	10	The count of all records within this file. This includes all record types, including the trailer record itself.
INT_HDR_CNT	Header Count	The numeric count of all header records within this file.	NUMBER	10	The count of all header records within this file.
INT_SUM_ACCT1	Summary Amount 1	Summary total of dollar line amounts.	DECIMAL	16,2	Specify the total Line Amount
INT_SUM_ACCT2	Summary Amount 2	Summary total of dollar amounts2.	DECIMAL	16,2	

4 TECHNICAL SPECIFICATIONS

The following document provides all technical specifications for all inbound interfaces.

Technical_Specificati
ons.docx

5 APPENDICES

5.1 APPENDIX A – ITA XML SAMPLE

The following file contains a sample for an Internal Transaction Agreement (ITA) document.

ITA_Example.xml

5.2 APPENDIX B – GENERAL XML SPECIFICATIONS FOR IRIS

The following file contains general information about the creation of XML files for IRIS:

General_XML_Specs_
for_IRIS_20131013.c