



INTEGRATED RESOURCE INFORMATION SYSTEM PROJECT

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

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1 INTRODUCTION

In IRIS, payments can be processed directly online or interfaced through a batch process. This system interface design addresses the payment request using General Accounting Expense/Expenditure (GAX) document. The GAX document will be used for expenditure payments and does not require a reference to an encumbrance document. The GAX document will require an accounting template to be coded on the accounting line in order to identify the proper funding for the expenditure. Additionally, the Object is required to be coded on the Accounting line. The GAX payment will update budget tracking amount fields.

For interfaces, GAX Documents will have the following characteristics:

- There can be up to 99 accounting lines present on the document
- GAX Modification documents cannot be sent through the Interface.
- The GAX documents received through interfaces will not reference any other documents.

The State of Alaska currently uses many types of financial transactions to request warrants in AKSAS. The warrant requests all have a major code of 310 but are differentiated by a minor code to delineate what type of account is allowed to be charged, which agency can utilize this transactions, what the valid warrant class represents, which open item it liquidates, and if the warrant includes a provision for dual authorization.

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.

Volume

Cut-Over

3 FILE SPECIFICATIONS

The following sections describe in detail the specifications of the General Accounting (GAX) document inbound interface template.

3.1 GENERAL ACCOUNTING (GAX) TRANSACTION LAYOUT

The GAX transaction consists of 5 required components. Exhibit 1 is a graphical representation of all components, the action explaining whether its inclusion is required or not, and its description. Exhibit 2 further illustrates the GAX document showing that it will have one AMS_DOCUMENT record, one ABS_DOC_HDR, one ABS_DOC_VEND that can have one or multiple ABS_DOC_ACTG records associated. However, there can be a maximum of 99 ABS_DOC_ACTG components in one document. The remaining sections explain each component that constitutes a complete XML based GAX document.

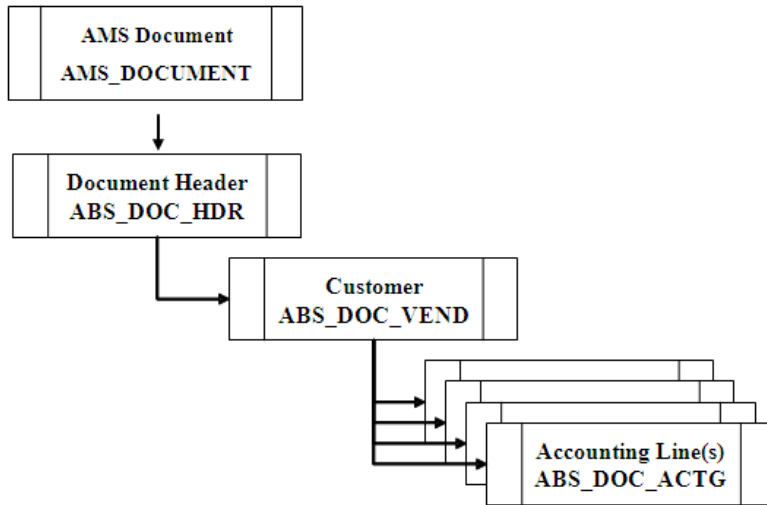
The structure of an interface file with 2 GAX documents where each document is associated with 1 vendor record and 2 accounting records will be as follows:

Document record #1	Document record #2
Header record	Header record
Vendor record 1	Vendor record 1
Accounting record 1	Accounting record 1
Accounting record 2	Accounting record 2

Exhibit 1 GAX Transaction Required XML Components

	Action	
	Original entry	Component description
AMS_DOC_XML_IMPORT_FILE	Required	Unique Tag used to identify the beginning and ending of an inbound XML interface file.
AMS_DOCUMENT	Required	Unique Tag used to identify the beginning and ending of a document within an inbound XML interface file.
ABS_DOC_HDR	Required	Unique Tag used to identify the beginning and ending of a header component within a document.
ABS_DOC_VEND	Required	Unique Tag used to identify the beginning and ending of a vendor component within a document.
ABS_DOC_ACTG	Required	Unique Tag used to identify the beginning and ending of an accounting line within a document.

Exhibit 2 GAX Document Components



3.1.1 GAX 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 GAX XML example:

XML Tag	Description	R/C
AMS_DOC_XML_IMPORT_FILE	Required XML beginning and ending tag for a base GAX document	R

3.1.2 GAX DOCUMENT COMPONENT: AMS_DOCUMENT

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 GAX XML example:

SOA			IRIS						
Field	Type	Size	Field	Caption	Description	R/C	Type	Len	Comments/Rules
			DOC_CAT	Document Category	The category in which the document is located.	R	VARCHAR2	8	'ABS'
			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	'ABS'
			DOC_CD	Document Code	The alpha-numeric code that indicates the type of transaction.	R	VARCHAR2	8	'GAX'
			DOC_DEPT_CD	Department Code	The department code assigned to this document.	R	VARCHAR2	4	Must be valid on Department Fiscal Year Controls table.
			DOC_UNIT_CD	Document Unit	The unit code associated with this document, which can be used to facilitate workflow.	R	VARCHAR2	4	Valid Unit Code on the Unit table.
			DOC_ID	Document ID	The unique document number assigned for this transaction.	R	VARCHAR2	20	Leave Blank if AUTO_DOC_NUM set to "true".
			DOC_VERS_NO	Document Version Number	The version number assigned to this document.	R	NUMBER	2	Set to "1".
			AUTO_DOC_NUM	Automatic Document Numbering	Indicates that system will assign a unique Document ID: "true" for system	R	VARCHAR2	5	

SOA			IRIS						
Field	Type	Size	Field	Caption	Description	R/C	Type	Len	Comments/Rules
					assigned Document ID number or “false” for no system assigned Document ID Number.				
			DOC_IMPORT_MODE	Document Import Mode	Indicates that the document is being made as an Original Entry “OE”.	R	VARCHAR2	3	Set to “OE” for Original Entry

3.1.3 GAX DOCUMENT COMPONENT: ABS_DOC_HDR

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

SOA			IRIS						
Field	Type	Size	Field	Caption	Description	R/C	Type	Len	Comments/Rules
			DOC_CAT	Document Category	The category in which the document is located.	R	VARCHAR2	8	Same value 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 value as in AMS_DOCUMENT
			DOC_CD	Document Code	The alpha-numeric code that indicates the type of transaction.	R	VARCHAR2	8	Same value as in AMS_DOCUMENT
			DOC_DEPT_CD	Document Department	The department code assigned to this document.	R	VARCHAR2	4	Same value as in AMS_DOCUMENT
			DOC_ID	Document ID	The unique document number assigned for this transaction.	R	VARCHAR2	20	Same value as in AMS_DOCUMENT
			DOC_VERS_NO	Doc Version	The version number assigned to this document.	R	NUMBER	2	Same value as in AMS_DOCUMENT
			DOC_REC_DT_DC	Record Date	The record date manually entered on the document	O	DATE	10	If left blank, the system will default it to the current date.

SOA			IRIS						
Field	Type	Size	Field	Caption	Description	R/C	Type	Len	Comments/Rules
					header. If not manually entered, the date becomes the one when the document was submitted successfully.				If provided, the format of this date is "YYYY-MM-DD". Example: "2004-10-30".
			DOC_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.	CR	NUMBER	4	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".
			DOC_FY_DC	Fiscal Year	The fiscal year associated with this document.	CR	NUMBER	4	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".
			DOC_PER_DC	Period	When on the header of a document, this is the default accounting period that is pushed to all accounting lines. If not manually entered, the field remains blank until the document is submitted successfully. At this point it is set to the current accounting period.	CR	NUMBER	2	If left blank, the system will populate it with the Fiscal Period of the Record Date on associated document.
			DOC_NM	Document Name	Name for the document.	O	VARCHAR2	60	
			DOC_DSCR	Document Description	The description associated with the document.	O	VARCHAR2	60	
			CITED_AUTH	Cited Authority	Cited Authority identifies the statutory, regulatory, or policy citation for the payment to be legally processed.	R	VARCHAR2	20	Must be a valid code on the CAUTH (Cited Authority) table.

3.1.4 GAX DOCUMENT COMPONENT: ABS_DOC_VEND

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

SOA			IRIS						
Field	Type	Size	Field	Caption	Description	R/C	Type	Len	Comments/Rules
			DOC_CAT	Document Category	The category in which the document is located.	R	VARCHAR2	8	Same value 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 value as in AMS_DOCUMENT
			DOC_CD	Document Code	The alpha-numeric code that indicates the type of transaction.	R	VARCHAR2	8	Same value as in AMS_DOCUMENT
			DOC_DEPT_CD	Document Department	The department code assigned to this document.	R	VARCHAR2	4	Same value as in AMS_DOCUMENT
			DOC_UNIT_CD	Document Unit	The unit code associated with this document.	R	VARCHAR2	4	Same value as in AMS_DOCUMENT
			DOC_ID	Document ID	The unique document number assigned for this transaction.	R	VARCHAR2	20	Same value as in AMS_DOCUMENT
			DOC_VERS_NO	Document Version Number	The version number assigned to this document.	R	NUMBER	2	Same value as in AMS_DOCUMENT
			DOC_VEND_LN_NO	Vendor Line Number	The vendor line number visible to a user that uniquely identifies each vendor line within a document.	R	NUMBER	10	Must always be set to "1"
			VEND_CUST_CD	Vendor Customer	The unique identifier assigned to the vendor/customer. In IRIS, a vendor can also be a customer, allowing the user to enter information only one time when a particular contact is both a vendor (payable) and a customer (receivable).	R	VARCHAR2	20	Only non-miscellaneous vendor codes are allowed. Must be a valid/active vendor code on the Vendor Customer (VCUST) table.

SOA			IRIS						
Field	Type	Size	Field	Caption	Description	R/C	Type	Len	Comments/Rules
			VEND_SNGL_CHK_FL	Single Payment	Indicates if multiple disbursements should be combined into a single check for this vendor.	R	VARCHAR2	5	Always set to "true".
			SCHED_PYMT_DT	Schedule Payment Date	The date that a vendor is scheduled to receive payment.	O	DATE	10	If left blank, it will default to the Application Control Date upon processing the interface file. If entered, the date must have the format "YYYY-MM-DD" and must be greater than or equal to the processing date. Example: "2005-10-30".
			VEND_DISB_CAT	Disbursement Category	It defines the handling procedure for disbursed check.	O	VARCHAR2	4	If left blank, it will default from the Disbursement Category Inference and Combination Validation (DISCV) table upon processing. If provided, must be valid on the Disbursement Category table.
			DFLT_DISB_FRMT	Disbursement Format	It indicates the format of the check stock for check payments or the ACH (Automated Clearing House) format for EFT payments.	O	VARCHAR2	4	If left blank, it will default from the VCUST table upon processing. If provided, it must be set to valid value on the Disbursement Format (DISF) table.
			AD_ID	Address Code	The Address Code or ID given to a unique address for a vendor or customer.	R	VARCHAR2	20	Must be a valid and active payment address ID for the VEND_CUST_CD on the Vendor Customer table.
			CNTAC_ID	Vendor Contact ID	The unique identification number assigned to the contact. The use of different contact ID's will allow a single vendor or vendor code to have multiple contacts.	O	VARCHAR2	20	If provided, must be valid contact ID for the VEND_CUST_CD on the Vendor Customer table. If not provided, it will be defaulted by the system upon processing the interface file.

3.1.5 GAX DOCUMENT COMPONENT: ABS_DOC_ACTG

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

SOA			IRIS						
Field	Type	Size	Field	Caption	Description	R/C	Type	Len	Comments/Rules
			DOC_CAT	Document Category	The category in which the document is located.	R	VARCHAR2	8	Same value 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 value as in AMS_DOCUMENT
			DOC_CD	Document Code	The alpha-numeric code that indicates the type of transaction.	R	VARCHAR2	8	Same value as in AMS_DOCUMENT
			DOC_DEPT_CD	Document Department	The department code assigned to this document.	R	VARCHAR2	4	Same value as in AMS_DOCUMENT
			DOC_UNIT_CD	Document Unit	The unit code associated with this document.	R	VARCHAR2	4	Same value as in AMS_DOCUMENT
			DOC_ID	Document ID	The unique document number assigned for this transaction.	R	VARCHAR2	20	Same value as in AMS_DOCUMENT
			DOC_VERS_NO	Document Version Number	The version number assigned to this document.	R	NUMBER	2	Same value as in AMS_DOCUMENT
			DOC_VEND_LN_NO	Document Vendor Line Number	The customer line number visible to a user that uniquely identifies each customer line within a document.	R	NUMBER	10	Set value to 1.
			DOC_ACTG_LN_NO	Accounting Line Number	The accounting line number visible to a user that uniquely identifies each accounting line within a document.	R	NUMBER	10	Line numbering begins at 1 and should be incremental by one for additional lines up to 99. Example: "1"

SOA			IRIS						
Field	Type	Size	Field	Caption	Description	R/C	Type	Len	Comments/Rules
			ACTG_TMPL_ID	Accounting Template	The unique identification code assigned to the accounting template. Accounting templates are used to bring in chart of account element codes for ease of data entry on documents.	R	VARCHAR2	6	Must be a valid record on Accounting Template (ACTPL) table
			EVNT_TYP_ID	Event Type	Event Type determines the journal postings and business rules for a particular transaction.	R	VARCHAR2	4	Must be a valid value on (AETDC) table.
			LN_AM	Line Amount	The amount of an individual accounting line.	R	DECIMAL	14,2	Example: 50.00
			SVC_FRM_DT	Service From Date	Service Dates (From/To Dates) on payment request documents are used to identify when goods or services were received from the vendor.	O	DATE	10	Acceptable format is: "YYYY-MM-DD". Example: "2004-10-30". The Service From Date can be a past, current or future date. Agencies may provide a date if desired. Otherwise, leave blank and system will default it to the current date upon processing the interface file.
			SVC_TO_DT	Service To Date	Service Dates (From/To Dates) on payment request documents are used to identify when goods or services were received from the vendor.	O	DATE	10	Acceptable format is: "YYYY-MM-DD". Example: "2004-10-30". The Service To Date can be a past, current or future date. Agencies may provide a date if desired. Otherwise, leave blank and system will default it to the current date upon processing the interface file. If provided, it must be greater than or equal to the SVC_FRM_DT.

SOA			IRIS						
Field	Type	Size	Field	Caption	Description	R/C	Type	Len	Comments/Rules
			CHK_DSCR	Check Description	The text to be printed on the check stub.	O	VARCHAR2	50	Enter reason for check issue.
			FUND_CD	Fund	The identification code associated with the fund.	O	VARCHAR2	4	If provided, must be valid on Fund (FUND) table.
			SFUND_CD	Sub Fund	The identification code associated with the sub-fund.	O	VARCHAR2	4	If entered, must be valid on the Sub Fund table. To enter a Sub Fund Code, the Fund Code must be entered.
			OBJ_CD	Object	The identification code associated with an object of expenditure.	O	VARCHAR2	4	If provided, must be valid on the Object table.
			SOBJ_CD	Sub Object	The identification code associated with the sub-object. Sub-object is a fund accounting Chart of Accounts element.	O	VARCHAR2	4	If entered, must be valid on the Sub Object table. To enter a Sub Object Code, the Object Code must be entered.
			RSRC_CD	Revenue	Revenue sources are used to track individual sources of revenue taken in.	O	VARCHAR2	4	If provided, must be valid on the Revenue table.
			SRSRC_CD	Sub Revenue	The identification code associated with the sub revenue source account.	O	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.
			DEPT_CD	Department	An identification code associated with a department.	O	VARCHAR2	4	If entered, must be valid on Department Fiscal Year Controls table.
			UNIT_CD	Unit	An identification code associated with a Unit.	O	VARCHAR2	4	If entered, 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.	O	VARCHAR2	4	If entered, must be valid on the Sub Unit table. To enter a Sub Unit Code, the Unit Code must be entered.

SOA			IRIS						
Field	Type	Size	Field	Caption	Description	R/C	Type	Len	Comments/Rules
			APPR_CD	Appr Unit	The identification code associated to an appropriation unit.	O	VARCHAR2	9	If entered, must be valid on the Appropriation table.
			BSA_CD	BSA	The identification code assigned to the balance sheet account.	O	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.	O	VARCHAR2	4	If entered, must be valid on the Sub BSA table. To enter a Sub BSA Code, the BSA Code must be entered.
			DOBJ_CD	Dept Object	The identification code assigned to the Department object.	O	VARCHAR2	4	If entered, must be valid on the Department Object table.
			DRSRC_CD	Dept Revenue	The code assigned to the department revenue source.	O	VARCHAR2	4	If entered, must be valid on the Department Revenue Source table.
			LOC_CD	Location	The identification code assigned to the location.	O	VARCHAR2	4	If entered, must be valid on the Location table.
			SLOC_CD	Sub Location	The identification code associated with the sub-location.	O	VARCHAR2	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.	O	VARCHAR2	4	If entered, must be valid on the Activity table.
			SACTV_CD	Sub Activity	The identification code associated with the sub-activity.	O	VARCHAR2	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. The function code defines broad operational objectives, such as instruction, support services, and facilities acquisition.	O	VARCHAR2	10	If entered, must be valid on the Function table.

SOA			IRIS						
Field	Type	Size	Field	Caption	Description	R/C	Type	Len	Comments/Rules
			SFUNC_CD	Sub Function	The identification code associated with the sub-function.	O	VARCHAR2	4	If entered, must be valid on the Sub Function table. To enter a Sub Function Code, the Function Code must be entered.
			RPT_CD	Reporting	The reporting code element is used for tracking contract activity. The contract number will be entered in this field.	O	VARCHAR2	10	If entered, must be valid on the Reporting Code table.
			SRPT_CD	Sub Reporting	Sub reporting codes define contract periods.	O	VARCHAR2	4	If entered, must be valid on the Sub Reporting table. To enter a Sub Reporting Code, the Reporting Code must be entered.
			TASK_CD	Task	The unique identification code assigned to the task.	O	VARCHAR2	4	If entered, must be valid on the Task table.
			STASK_CD	Sub Task	The sub task is a means of breaking down tasks into smaller components.	O	VARCHAR2	4	If entered must be valid on Sub Task table. To enter a Sub Task Code, the Task Code must be entered.
			TASK_ORD_CD	Task Order	The unique identification code assigned to the task order.	O	VARCHAR2	6	If entered, must be valid on the Task Order table.
			PROG_CD	Program	The identification code assigned to the program.	O	VARCHAR2	10	If entered, must be valid on the Program Setup table.
			PHASE_CD	Phase	The identification code assigned to the phase. Phase is a cost accounting Chart of Accounts element representing a phase of a project.	O	VARCHAR2	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 project period.	O	VARCHAR2	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).

SOA			IRIS						
Field	Type	Size	Field	Caption	Description	R/C	Type	Len	Comments/Rules
			VEND_INV_NO	Vendor Invoice Number	The invoice number from the invoice received from the vendor. The Vendor Invoice Number must be unique and cannot already exist on the Vendor Invoice Registry table for the referenced vendor	R	VARCHAR2	30	Enter the Vendor Invoice Number. If not known, enter a unique value.
			VEND_INV_LN_NO	Vendor Invoice Line	The invoice line number from the invoice received from the vendor.	R	NUMBER	10	Number must be sequential per accounting line, per vendor (i.e. 1, 2, 3...)
			VEND_INV_DT	Vendor Invoice Date	The date of the invoice received from the vendor.	R	DATE	10	Enter date the vendor invoice was received. If not known, enter current date. Acceptable format is: "YYYY-MM-DD". Example: "2004-10-30"

3.2 CONTROL 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
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_Specificatio
ns.docx

5 APPENDICES

5.1 APPENDIX A – GAX XML SAMPLE

The following file contains a sample for a General Accounting Expense/Expenditure (GAX) document.



GAX XML
Sample.docx

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 20130404.doc