

2.0 Appendix A – Project Aspire Conversion/Interface Functional Design

ADML ID	1126
ADML Description	Collateral Management – Outbound Interface to CAP
ADML Tech #	

2.1 Description Functionality

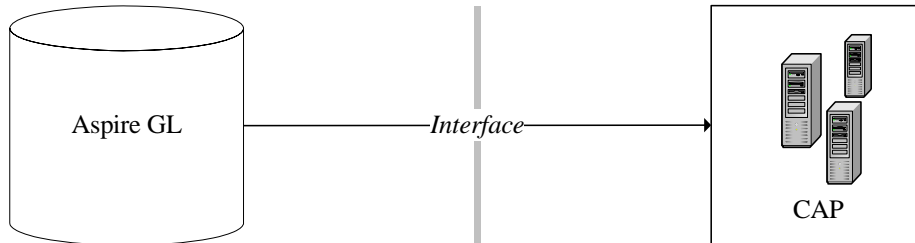
Bureau of Collateral Management (BOCM) currently uses an in-house system, Trust Operation System (TOPS), to administer collateral placed for state-run operations (e.g., insurance regulation), Chapter 280 (protection of public deposits) and collateral for entities doing business with the State. In addition, BOCM uses the Bureau of Funds Management's Fund Accounting system to record invested cash deposits from the Treasury Cash Deposit Trust Fund and allocate interest to the entities for whom the funds are invested. BOCM is developing a new in-house system called CAP (Collateral Administration Program) which will go live January 2005.

CAP will hold balances but is not being designed to allocate interest; the ADB interest allocation processes for CAP will be executed in Aspire. This does not require an inbound interface as the data required for the allocation process will reside in Aspire. The BOCM will be entering their deposits directly into Aspire AR, leveraging the delivered Aspire Sub-System journal process.

Currently, every depositing entity has a sub-account in the Fund Accounting system. There are approximately 500 active accounts at any given time; accounts are continually opened and closed as a normal collateral management process.

The daily outbound interface from Aspire to CAP is for the purpose of:

- Keeping CAP in synch with Aspire
- Updating CAP balances with interest allocation transactions.



An interface configuration is required to format the file for CAP.

This functional design spec is written in order to assist the interface team with the method of delivery and any possible changes to the file format. It is also written to account for the interface with CAP and assist the interface team in writing a technical specification document describing the connectivity between Aspire servers and the CAP Application.

The interface will extract necessary data from the Journal tables according to the criteria/processing rules listed below and in the Record Layout section of this document. In addition, to eliminate the risk of transmitting same journal more than once, an interface control record should be created which will contain a list of all the Journals that have been transmitted to CAP system.

Interface control Record structure:

Field Name	Description	Length	Type	Key
PROCESS_NAME	Process Name		Char	Y
BUSINESS_UNIT	Business Unit	5	Char	Y
JOURNAL_ID	Journal ID	10	Char	Y
JOURNAL_DATE	Journal Date	10	Date	Y
UNPOST_SEQ	Un Post Sequence Number	2	Nbr	Y
Process Date	Process Run Date	10	Date	N

Process Instance	Process Instance	10	Nbr	N
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CAP Interface Selection Criteria Setup:

In addition, a separate configuration page should be created to setup the selection criteria for this interface.

Navigation:- Cash Management -> Process Outbound Interfaces (New Folder) -> CAP Interface Setup.

The page should contain a scroll area with two fields – Transaction Type and Field Criteria. Transaction Type field should have a Translate table with 4 possible values – INV, DIV, INT and FEE. If Transaction types of INV or DIV are selected, the Field Criteria should prompt to the Entry Event Table (also the field Label should be “Entry Event”). If Transaction type is INT or FEE, the Field Criteria should prompt to the Account Type table and the field Labels should read “Account Type”.

Underlying Record Structure:

Field Name	Description	Length	Type	Key	Edits
FL_TRANS_TYPE	Transaction Type	3	Char	Y	Translate Table
FL_FIELD_CRITERIA	Field Criteria	10	Char	Y	If FL_TRANS_TYPE = 'INV' or 'DIV' Then PS_EE_EVENT_HDR Else PS_ACCT_TYPE_TBL

Interface Processing Logic:

Select all the Journal lines from JRNL_LN record which meets the BU criteria from the Run Control page and Where LEDGER = ‘ACTUALS’ AND “CHARTFIELD_2” field is not blank (indicating that it is a Collateral Management entry).

Check to see if this Journal is already transmitted before – If there is an entry in the Interface control table for this Journal, skip it and proceed to next journal.

If the Journal is not processed before, then join with the JRNL_HEADER record to check if JRNL_HDR_STATUS = P or U (Posted or Un Posted journals only)

If the selected Journal Line meets all the above criteria, derive the Journal Indicator from the following conditions:

If the JRNL_LINE_SOURCE = ‘ALO’ (Allocation Journal), then extract the Account Type for the GL Account selected.

If Account Type = Account Type selected from the Run control page where Trans Type = 'FEE'

Then Indicator = 'FEE' (Admin Fees)

If Account Type = Account Type selected from the Run control page where Trans Type = 'INT'

Then Indicator = 'INT' (Interest)

Ignore all the other Journal lines.

Else

If Entry Event is not blank

If Entry Event = Entry Event from the Run control page where Transaction type = 'INV'

Then select the Journal line where 'Verified Cash' flag is checked for the GL Account used and Reverse the sign for the Amount.

Indicator = 'INV' (Investment)

Else

If Entry Event = Entry Event from the Run control page where Transaction type = 'DIV'

Then select the Journal line where 'Verified Cash' flag is checked for the GL Account used and Reverse the sign for the Amount.

Indicator = 'DIV' (Dis-Investment)

Else

Ignore the Journal Line and move onto the next journal line.

Whenever a Journal is successfully written to the output file, Insert a row into the Interface Control table.

2.2 Scheduling

- Daily.

2.3 Run Control Parameters

Business Unit (Level 0) – Prompt on GL Business Unit Table; Default value 43000 (DFS)

Transaction Type (Level 1) – Ability to enter multiple accounts.

The interface menu item for the Run Control page should be called: Transactions to CAP. The navigation for the interface should be: Cash Management > Process Outbound Interfaces > Transactions to CAP.

2.4 Unit Test Considerations

- Interface Team should push an outbound file to CAP. The CAP technical team should confirm successful load and check sample balances to insure transactions were recorded properly.

2.5 Miscellaneous

Queries

- None required.

ADML Dependencies

- None noted.

2.6 Assumptions

- Bureau of Collateral Management (BOCM) will have access to Aspire AR to record deposits and the associated accounting entries.
- General Ledger will create a business unit and chartfield structure in order to record collateral management daily transaction activity for the interest allocation process.

- The Collateral Management transactions, including fees and interest allocation transactions, for the outbound interface to CAP will be in valid Aspire chartfield combinations.
- CAP will be configured with Aspire Chartfield values.
- Aspire will not be configured to maintain the relationship between CAP Participants and Statute number, as only one Chartfield value (Client) can be configured.
- The delivered Trial Balance report will be used to reconcile the balances in Aspire GL to CAP.

2.7 Record Layout

Conversion/Interface Requirements						
Sourcesys.table.field	Field Format / Length	Selection Criteria	Processing Rules	Comments	Targetsys.table.field	Field Format / Length
Aspire.JRNL_LN.BUSINESS_UNIT	Char/ 5	Run Control Page			File.File. Business Unit	Char/ 5
Aspire.BUS_UNIT_GL_TBL.DESCR	Char/ 30	Select description from the BUS_UNIT_GL_TBL where the BUSINESS_UNIT value from the JRNL_LN row = the BUSINESS_UNIT value on this table			File.File.Bus_Unit_Descr	Char/ 30
Aspire.JRNL_LN.JOURNAL_ID	Char/ 10				File.File. Journal ID	Char/ 10
Aspire.JRNL_LN.JOURNAL_DATE	Date/10				File.File. Journal Date	Date/10

Conversion/Interface Requirements						
Sourcesys.table.field	Field Format / Length	Selection Criteria	Processing Rules	Comments	Targetsys.table.field	Field Format / Length
Aspire.JRNL_LN.ACCOUNT	Char/ 10				File.File Account	Char/ 10
Aspire.GL_ACCOUNT_TBL.DESCR	Char/ 30	Select the description from the GL_ACCOUNT_TBL where the ACCOUNT value from the JRNL_LN row = the ACCOUNT value on this table			File.File.Acct_Descr	Char/ 30
Aspire.JRNL_LN.FUND_CODE	Char/ 6				File.File.Fund	Char/ 6
Aspire.FUND_TBL.DESCR	Char/ 30	Select description from the FUND_TBL where the			File.File.Fund_Descr	Char/ 30

Conversion/Interface Requirements						
Sourcesys.table.field	Field Format / Length	Selection Criteria	Processing Rules	Comments	Targetsys.table.field	Field Format / Length
		FUND_CODE value from the JRNL_LN = the FUND_CODE value on this table				
Aspire.JRNL_LN.CHARTFIELD2	Char/ 11			This field will be used to hold Customer Number	File.File.Customer Number	Char/ 10
Aspire.CHARTFIELD2_TBL.DESCR	Char/ 30			This field will be used to hold Description	File.File.Customer Description	Char/ 30
Aspire.JRNL_LN.MONEY_AMOUNT	Sign / 23.3		Transaction Amount		File.File.Amount	Sign/23.3
Aspire.JRNL_LN.LINE_	Char/30		Transaction		File.File.Description	Char/30

Conversion/Interface Requirements						
Sourcesys.table.field	Field Format / Length	Selection Criteria	Processing Rules	Comments	Targetsys.table.field	Field Format / Length
DESCR			Description			
Aspire.Indicator	Char/3	Derived		Indicates if it is an Investment, Dis-Investment, Interest or Fees entry.	File.File.Indicator	Char/3