3.0 Appendix B – Project Aspire Enhancement Functional Design

ADML ID	**1938**
ADML Description	**View Agency Set ID Chartfields in 1 View**
ADML Tech#	

3.1 Background

3.1.1 Functional Requirement

The adoption of a BU-specific setid strategy for the Fund/CC, BE, Org, Alternate Account and the Activity Issue chartfields in Aspire has created issues that lead to distinct, but related, requirements.

For the Fund/CC chartfield, there is a need for a mechanism that will allow all Fund/CC values, regardless of setid, to be included in a single tree. This capability is needed for chartfield combination editing purposes. The intent is to reduce the tree maintenance effort by reducing the number of trees that are needed for combination editing. Secondly, the Treasury Business Unit needs to be able to successfully process transactions in which all Fund values are valid in the Fund Affiliate Chartfield. This is necessary because the Treasury BU is required to track its assets and liabilities with State agencies at the Fund level, a need for which it will be using the Fund Affiliate Chartfield. In addition, Treasury requires the Fund Affiliate Chartfield for Investment/Disinvestment activities.

Because the BE Chartfield is required on all transactions and the Org Chartfield is required on specific transactions, the Treasury Business Unit also needs the ability to successfully process transactions using all valid BE and Org values.

In addition, Alternate Account and Activity Issue chartfields are also BU-specific. An approach to retrieve Alternate Account and Activity Issue values regardless of setid is required to facilitate reporting and enterprise allocations.

3.1.2 Delivered Functionality

According to the current design of Aspire, the Fund/CC chartfield setid will be agency specific. Each agency will have its own setid and list of fund values. In order to facilitate combination editing rules for the Fund/CC chartfield, trees will need to be built to maintain the Fund/CC relationships. As delivered, trees are defined by setid which translates to one tree per setid in Aspire for Fund/CC values.

The Treasury BU requires the ability to use all fund values on its transactions in the Fund Affiliate chartfield, regardless of the setid. The Treasury BU also requires the ability to use all BE values on transactions in the BE chartfield and all Org Values on transactions in the Org chartfield, regardless of setid. Specifically, Treasury's ADML 1733 will populate the Fund Affiliate, BE, and Org chartfields directly when necessary. Using delivered functionality, a Business Unit can only be configured to use a single setid for a chartfield. Therefore, in order to meet its requirement to use all Fund, BE and Org values, the Treasury BU would have to define all valid Fund, BE, and Org values used throughout the State in a single setid of 'TREAS' for the Treasury setid.

The Alternate Account configuration for Aspire consists of each business unit having its own lists of Alternate Accounts and Activity Issues. Each BU will have an identical Alternate Account value listing but may have different active statuses depending on the needs of each agency.

3.1.3 Gap Description

The Fund/CC chartfield value is setid specific, meaning each Agency has access to only those funds setup within its own setid. Because combination edit trees are defined by setid, each setid would require a separate Fund/CC tree to build combination edits. This would create tremendous maintenance overhead.

Also, as the Treasury module will have its own business unit and setid, it would not be able to reference all of the different setid specific Fund/CC, BE, or Org values without creating duplicate sets of data under a shared setid. This would create data redundancy and require dual maintenance, creating a high probability of Fund/CC, BE, or Org values becoming out of sync between setid's.

Finally, to facilitate reporting and enterprise allocations across BU's, the need for non-BU specific chartfield view exists for the Alternate Account and Activity Issue chartfields.

3.2 Description of New Functionality

To address these requirements, we propose the creation of new views. Two views would return a list of all valid Fund/CC values, one view would return a list of all valid BE values and one view would return a list of all valid Org values under a 'virtual' setid. Also, a view for Alternate Account and one for Activity issue will be created for reporting and enterprise allocation purposes.

For Fund/CC, the first view would be constructed in accordance with the requirements for a Tree Structure Detail Record and would have a setid of 'SHARE'. The second view would conform to the requirements of a ChartField edit table and would have a setid of 'TREAS'. In the event that the same Fund/CC value exists across multiple setid's, only one row will appear in each view.

For BE and Org, the views would also conform to the requirements of a chartfield edit table and have a setid of 'TREAS'. In the event that the same BE or Org value exists across multiple setid's, only one row will appear in each view.

For Alternate Account and Activity Issue, the views would follow the same constructs as the other views and display the 'SHARE' setid.

3.3 Navigation path

N/A

3.4 Set Up/Control Data

Fund/CC, BE, Org, Activity Issue and Alternate Account values will need to be established in Aspire for each agency.

3.5 Application Changes (e.g., Pages, Components, Menus, Records, App Engines, SQRs, etc.)

A new view needs to be created which will be used for building trees. The view will display all unique fund values in the FUND_TBL and display a default setid of 'SHARE'. In cases where there is more than one value across multiple setid's the view should display just one value.

A second new view needs to be created which will be used for Fund Affiliate editing for Treasury. The view will display all unique fund values in the FUND_TBL and display a default setid of 'TREAS'. In cases where there is more than one value across multiple setid's the view should display just one value.

A third new view needs to be created which will be used for BE editing for Treasury. The view will display all unique BE values in OPER_UNIT_TBL and display a default setid of 'TREAS'. In cases where there is more than one value across multiple setid's the view should display just one value.

A fourth new view needs to be created which will be used for Org editing for Treasury. The view will display all unique Org values in DEPT_TBL and display a default setid of

'TREAS'. In cases where there is more than one value across multiple setid's the view should display just one value.

Additional views need to be created for reporting. One view will return all Alternate Accounts across setid's and one view will return all Activity Issues across setid's. In cases where there is more than one value across multiple setid's the view should display just one value.

Sample SQL for a view:

```
SELECT
'TREAS',
A.FUND_CODE,
A.DESCR,
A.DESCRSHORT
FROM PS_FUND_TBL A
WHERE A.SETID = (SELECT MIN(B.SETID)
                 FROM PS_FUND_TBL B
                 WHERE A.FUND_CODE = B.FUND_CODE)
  AND A.EFFDT = (SELECT MAX(C.EFFDT)
                 FROM PS_FUND_TBL C
                         WHERE A.SETID = C.SETID
                           AND A.FUND_CODE = C.FUND_CODE
                           AND C.EFF_STATUS = 'A'
                           AND C.EFFDT <= %CURRENT_DATE)
```

3.6 Unit Test Considerations

- Query the views to ensure no duplicate values occur for Fund/CC, BE, Alternate Account, Activity Issue, or Org when the same value exists for more then one setid.
- Query the views to validate all of the unique values show in the view.
- Generate a Treasury business unit accounting entry with agency Fund/CC, BE and Org values. Ensure that this transaction passes combination edits.
- Build a tree using a custom tree structure referencing the new Tree Fund/CC, BE and/or Alternate Account views.

3.7 Miscellaneous

- It is possible that duplicate Activity Issue and Org values could exist with different descriptions across different agencies.

- Each view created will need the Set Control Field value set to either 'SETID' or 'BUSINESS_UNIT' on the record definition. This allows the record to be included in a record group to take advantage of Aspire's set control functionality. Specifically, any view utilizing the 'TREAS' setid will have the Set Control Field value set to 'BUSINESS_UNIT' and any view utilizing the 'SHARE' setid will have the set Control Field value set to 'SETID'.

- The new views will be placed in record groups in Aspire to leverage Aspire's built in setid prompting logic. All of the 'SHARE' views will be placed in the new Aspire FL_03 record group. The 'TREAS' views will be placed in the respective record group for each chartfield. (FS_10 for BE, FS_06 for Org, FS_20 for Fund/CC, etc.)

- The Org and Activity Issue chartfields have the potential of displaying a value with the incorrect description. For this reason the description fields should not be included in the view for these two fields.

3.8 Assumptions

- All agencies will have unique Fund/CC values except for the General Revenue Fund/CC value.

- Some BE values will be duplicated across agency's.

- Alternate Account values will be duplicated across agencies.