

Financial Dimensions in Ax 2012.

Example Financial Dimensions in the MainAccount table.

Default financial dimensions in Ax 2012 for a main account are represented by the field 'DefaultDimension' in the 'MainAccountLegalEntity' table. We cannot recognize DefaultDimension as dimension, as it is a code, but with connections to other tables.

Table browser: MainAccountLegalEntity (2 - usmf)

DefaultDimension	MainAccount	LegalEntity	AutoAllocate	FixedDimensions	TaxCode	TaxDirection	Tax
0	22565437829	22565422580	Unretrieved	Unretrieved	Unretrieved	Unretrieved	Unretrieved

CompanyInfo
LedgerChartOfAccounts
MainAccount

companyInfo:
ledger:
mainAccount:

```
select DefaultDimension, MainAccount, LegalEntity from MainAccountLegalEntity
exists join companyInfo
where companyInfo.RecId == MainAccountLegalEntity.LegalEntity
  && companyInfo.DataArea == 'USMF'
exists join mainAccount
where mainAccount.RecId == MainAccountLegalEntity.MainAccount
  && MainAccount.MainAccountId == '110170'
exists join ledger
where ledger.RecId == mainAccount.LedgerChartOfAccounts
  && ledger.Name == 'shared'
```

Financial dimensions
Default financial dimensions

BusinessUnit: No default
CostCenter: No default
Department: No default
ItemGroup: No default

Default financial dimensions

BusinessUnit: No default
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When we update any financial dimension in the main account, the DefaultDimension value in the default financial dimension section, we see that the field DefaultDimension get updated in a code.

Table browser: MainAccountLegalEntity (2 - usmf)

DefaultDimension	MainAccount	LegalEntity	AutoAllocate	FixedDimensions	TaxCode	TaxDirection	Tax
22565421983	22565437829	22565422580	Unretrieved	Unretrieved	Unretrieved	Unretrieved	Unretrieved

CompanyInfo
LedgerChartOfAccounts
MainAccount

companyInfo:
ledger:
mainAccount:

```
select DefaultDimension, MainAccount, LegalEntity from MainAccountLegalEntity
exists join companyInfo
where companyInfo.RecId == MainAccountLegalEntity.LegalEntity
  && companyInfo.DataArea == 'USMF'
exists join mainAccount
where mainAccount.RecId == MainAccountLegalEntity.MainAccount
  && MainAccount.MainAccountId == '110170'
exists join ledger
where ledger.RecId == mainAccount.LedgerChartOfAccounts
  && ledger.Name == 'shared'
```



Financial dimensions
Default financial dimensions

BusinessUnit: 002 Auto
CostCenter: No default
Department: No default
ItemGroup: No default

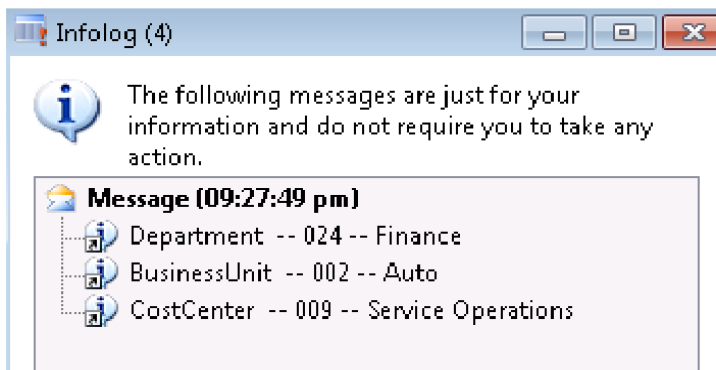
Default financial dimensions

BusinessUnit: Auto
CostCenter: No default
Department: No default
ItemGroup: No default

In order to get the dimension values from the DefaultDimension field, we can use the class "DimensionAttributeValueSetStorage class. In this example we extract the dimension values from main account Id 110170, by using this class. Code example is a job.

Main account:	110170	Name:	Dynamics Fox Demo
Select the level of main account to display:	Companies		
Companies:	USMF		
Balance control:		Close:	
Related accounts		Allocation:	<input type="checkbox"/> Does allocation term exist: <input type="checkbox"/>
Offset account:		Mandatory reference:	<input type="checkbox"/>
Opening account:		Close type:	Not applicable
SRU code:		Consolidation	
Setup			
Financial statement			
Special report			
Invert sign:	<input type="checkbox"/>	Line above:	<input type="checkbox"/>
Column:	<input type="checkbox"/>	Line below:	<input type="checkbox"/>
Bold:	<input type="checkbox"/>	Underline text:	<input type="checkbox"/>
Italics:	<input type="checkbox"/>	Underline amount:	<input type="checkbox"/>
Transaction list by account			
Total by period:	<input type="radio"/>		
Financial dimensions			
Default financial dimensions			
BusinessUnit:	002	Auto	
CostCenter:	009	Service Operations	
Department:	024	Finance	
ItemGroup:		No default	

This is the result of the job:



```

//Fox_FinancialDimensions - created on 19 Feb 2017 by Admin BEGIN
static void Fox_DimensionValuesFromDefaultDimension(Args _args)
{
    #define .MainAccountId('110170')
    #define .Company('usmf')
    #define .ChartOfAccount('shared')

    CompanyInfo                companyInfo;
    Counter                    counter;
    Common                      common;
    DictTable                  dictTable;
    DimensionAttributeValueSetStorage dimensionValueStorageClass;
    DimensionAttribute          dimensionAttribute;
    DimensionAttributeValueFinancialStmt dimensionAttributeFin;
    DimensionAttributeValue     dimensionAttributeValue;
    LedgerChartOfAccounts      ledger;
    MainAccount                 mainAccount;
    MainAccountLegalEntity     mainAccountLegalEntity;
    str                          name;

    select firstOnly DefaultDimension
        from mainAccountLegalEntity
    exists join companyInfo
        where companyInfo.RecId == MainAccountLegalEntity.LegalEntity
            && companyInfo.DataArea == #Company
    exists join mainAccount
        where mainAccount.RecId == MainAccountLegalEntity.MainAccount
            && MainAccount.MainAccountId == #MainAccountId
    exists join ledger
        where ledger.RecId == mainAccount.LedgerChartOfAccounts
            && ledger.Name == #ChartOfAccount;

    dimensionValueStorageClass =
        DimensionAttributeValueSetStorage::find(mainAccountLegalEntity.DefaultDimension);

    for (counter = 1 ; counter <= dimensionValueStorageClass.elements() ; counter++)
    {
        select firstOnly EntityInstance from dimensionAttributeValue
            where dimensionAttributeValue.RecId == dimensionValueStorageClass.getValueByIndex(counter)
        join BackingEntityType, KeyAttribute, Name, NameAttribute, RecId from dimensionAttribute
            where dimensionAttribute.RecId == dimensionAttributeValue.DimensionAttribute;

        if (dimensionAttribute && dimensionAttributeValue)
        {
            dictTable = new DictTable(dimensionAttribute.BackingEntityType);
            common = dictTable.makeRecord();

            if (common.TableId)
            {
                select firstOnly common
                    where common.(dimensionAttribute.KeyAttribute) ==
                        dimensionAttributeValue.EntityInstance;

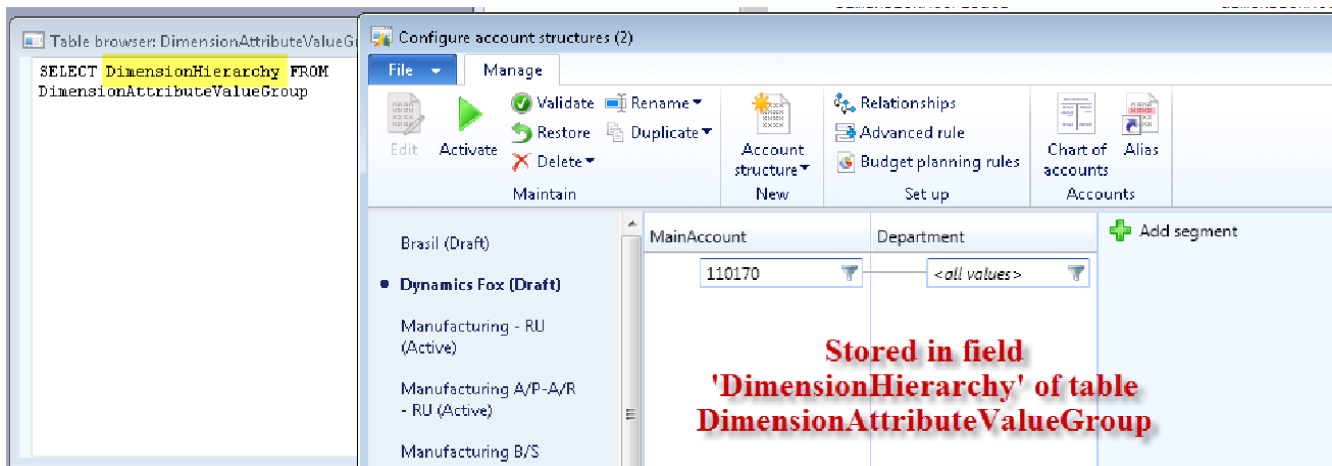
                name = common.(dimensionAttribute.NameAttribute);
            }

            info(strfmt("%1 -- %2 -- %3 ", dimensionAttribute.name,
                dimensionValueStorageClass.getDisplayValueByDimensionAttribute(dimensionAttribute.RecId),
                    name
                ));
        }
    }
}

```

Dimension hierarchy.

TO BE CONTINUED



Financial dimensions framework

1) Tables

11	DimensionHierarchy	dimensionHierarchy;
12	DimensionAttributeValue	dimensionAttributeValue;
13		
14	DimensionAttributeValueCombination	dimensionAttributeValueCombination;
15	DimensionAttributeValueGroupCombination	dimensionAttributeValueGroupCombination;
16	DimensionAttributeValueGroup	dimensionAttributeValueGroup;
17		
18	DimensionAttributeSet	dimensionAttributeSet;
19	DimensionAttributeSetItem	dimensionAttributeSetItem;
20	DimensionAttribute	dimensionAttribute;
21		
22	DimensionAttributeLevelValue	dimensionAttributeLevelValue;
23		
24	DimensionAttributeValueSet	dimensionAttributeValueSet;
25	DimensionAttributeValueSetItem	dimensionAttributeValueItem;
26	DimensionAttributeValue	dimensionAttributeValue;
27		

TO BE CONTINUED