

# How to...Implement a FMBCS BI Solution in Three Months (session code 0402)

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**FALL FOCUS**  
BUSINESS MANAGEMENT

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## [ Introduction:



- Who is LSI Consulting?
  - Since inception in 1998, has been synonymous with cost-effective SAP for Public Sector implementations.
  - Collaborated with SAP on the design and development of its Public Sector and Higher Education & Research solutions.
  - Created the GovOne™ solution for State and Local government organizations, utilizing SAP's Public Sector business application software.
  - GovOne™ is our flexible, templated accelerator that provides pre-configured system options & controls.
  - In addition to Finance, Procurement and HCM solutions, also provides multiple pre-defined BI datamodels for Public sector, including GASB & CAFR reporting.

## [ Agenda:

- Learning points that attendees will be able to take away.
- What is FMBCS?
- Return on Investment.
- Best practices.
- ECC tables, BI datasources, configuration in the Enterprise Central Component (ECC).
- BI Configuration in ECC, for FMBCS.
- FMBCS Datamodel, transformations and flow in BI.
- Reporting & dashboard examples
- User Audience.
- Generic items for consideration.

## [ Learning points:

- Learning points that attendees will be able to take away:
  - How to perform configuration in the Enterprise Central Component (ECC) to support a FMBCS BI solution.
  - How to design a FMBCS reporting solution in Netweaver BI.
  - The benefits of producing FMBCS reports from Netweaver BI.
  - Proposed high value additions to the BI standard datamodel.
  - BI datamodel design & extractors.
  - Report definitions.

## [ What is FMBCS?

- FMBCS = Funds Management & Budget Control System.
- FMBCS allows you to budget all revenues & expenditures, monitor commitments and actuals in light of the budget available, and prevent budget overruns.
- Budget can be adapted to changes in conditions by entering supplements, returns, and transfers.
- Enables you to keep a precise check on:
  - The revenues and expenditures or budget-relevant business transactions in your business
  - Your budget, with the following questions in mind:
    - What funds will the responsibility areas receive?
    - Where do these funds come from (source of funds)?
    - What are the funds used for? (Use of funds)

## [ What is FMBCS? (continued)

- FMBCS is a tool to maintain the financial equilibrium of your business, by identifying potential deficits
- It is fully integrated with other components in the ECC / R3 System to record commitments and actuals
  - Integrates with Materials Management to record encumbrances real-time
  - Integration means that all revenue and expenditure postings can be recorded in FM
  - This results in large amounts of data

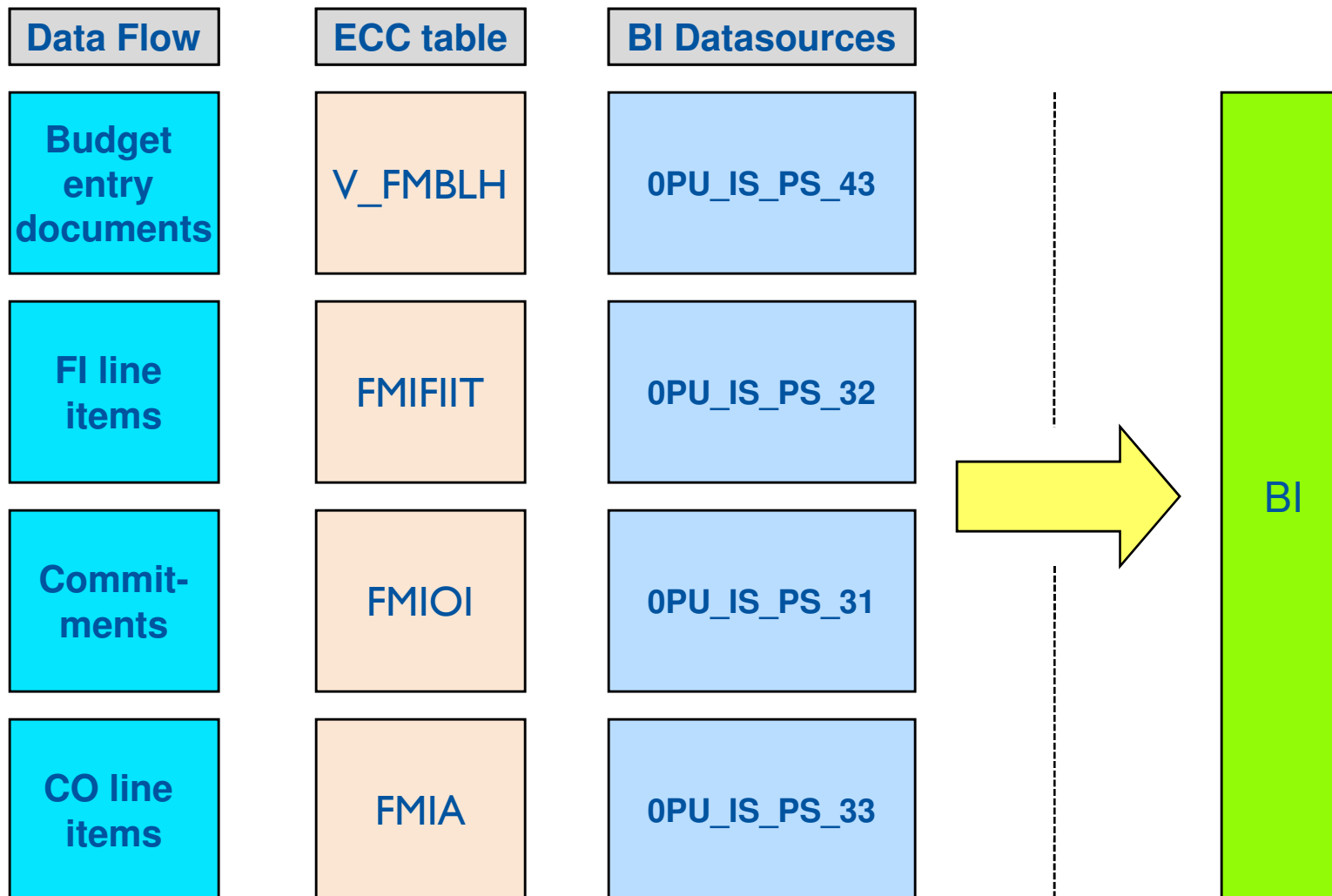
## [ Return on Investment:

- BI Reporting maximizes return from the data maintained in the Funds Management module.
- Creates a single reporting solution to serve multiple reporting requirements, with great presentation.
- Ease of use.
- Source for dashboards.
- Automates the distribution of monthly Budget statements.
- Supports the Control process of identifying and correcting accounting & other errors for better data quality.

## [ Best practices:

- SAP Training Course TPSU10 (Public Services Academy) provides best configuration and master data practices for implementing and operating the SAP Public Sector solution.
- Adherence to these best practices is critical to reducing Total Cost of Ownership (TCO) and maximizing the Return on Investment.
- Without a best practice solution, customers will inevitably increase the effort involved in creating a FMBCS reporting solution.

## ECC tables & BI datasources involved in the BI FMBCS datamodel solution..



## [ Data and Configuration in ECC FMBCS

- Master data includes Fund, Fund Center, Business Area (organizational unit), Functional Area (activity or function) and Funded Program.
- Budget data must be maintained through Budget Control Systems [BCS] or Former Budgeting (no Funded Program).
- Commitments and Actuals data must be transferred from FI, CO, MM, etc.
- Update of data in FM must be configured according to the budgetary basis (Invoice Basis or Payment Basis).
- Period Based Encumbrance Tracking must be active.

## [ BI Configuration in ECC, for FMBCS

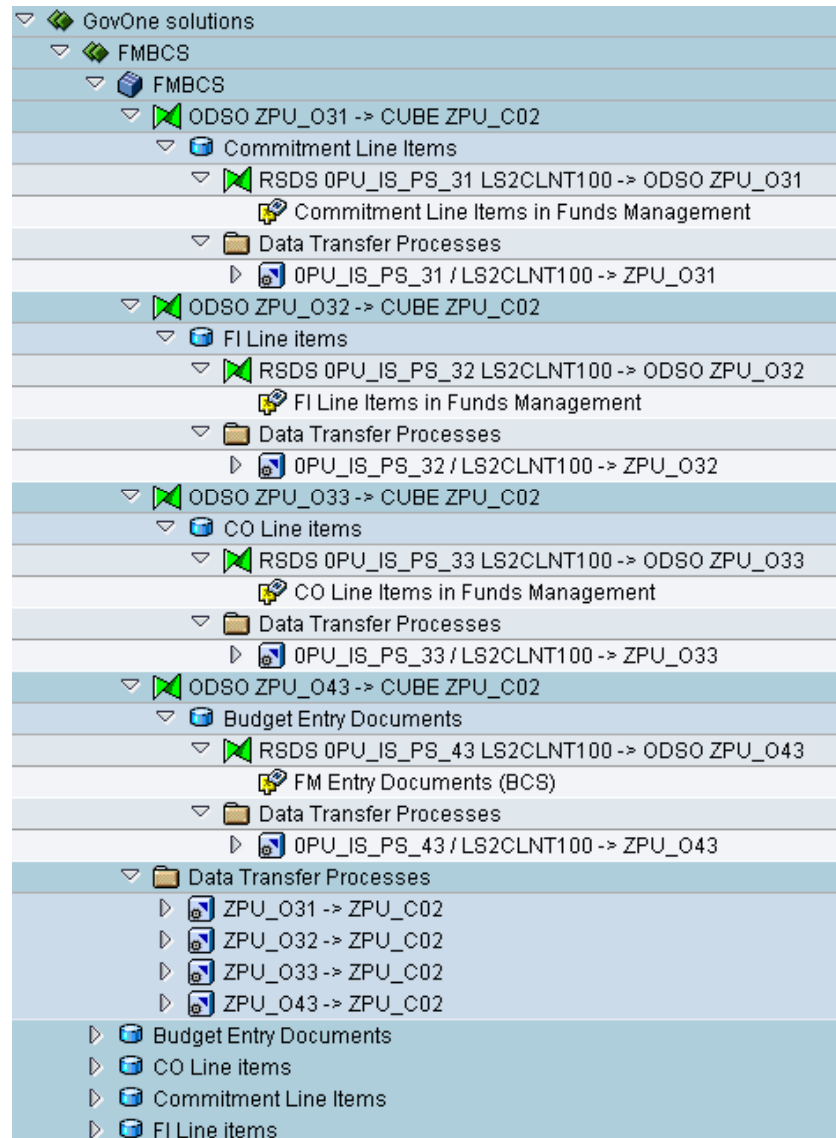
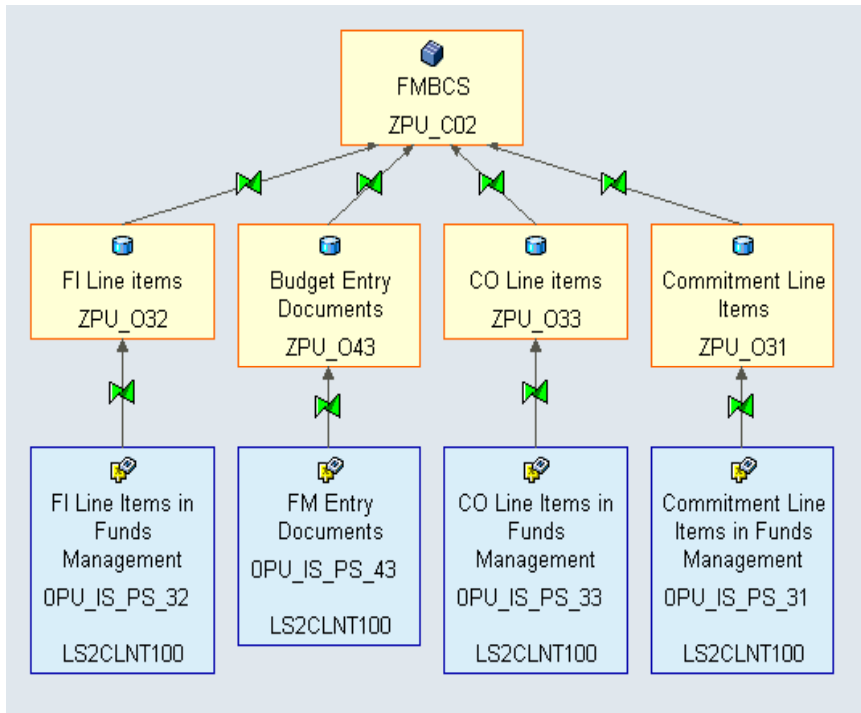
- Allow delta updates for masterdata via BD6 I:

Activation status
<input checked="" type="checkbox"/> Change pointers activated - generally

- Allow delta extraction for the BI FMBCS transaction data  
extractors: *SPRO* → *PSM* → *FM government* → *Information system* → *Deactivate / activate delta update for BIW*

Name of Data Source	DeltaUpdate Active
0PU_IS_PS_11	<input type="checkbox"/>
0PU_IS_PS_31	<input checked="" type="checkbox"/>
0PU_IS_PS_32	<input checked="" type="checkbox"/>
0PU_IS_PS_33	<input checked="" type="checkbox"/>
0PU_IS_PS_41	<input type="checkbox"/>
0PU_IS_PS_42	<input type="checkbox"/>
0PU_IS_PS_43	<input checked="" type="checkbox"/>
0PU_IS_PS_44	<input type="checkbox"/>

# FMBCS Datamodel, transformations and flow in BI:



# LSI suggests additions to the delivered datamodel, via BADI creation:

- Business area
  - Datasource OPU\_IS\_PS\_43 – obtained from CSKS [CCTR masterdata]
  - Datasource OPU\_IS\_PS\_31 – obtained from FMIOI [t-data table]
  - Datasource OPU\_IS\_PS\_32 – obtained from FMIFIIT [t-data table]
  - Datasource OPU\_IS\_PS\_33 – obtained from CSKS [CCTR masterdata]
- Vendor fields
  - Datasource OPU\_IS\_PS\_32 – obtained from:

	IF and	IF	Source	EXTR	BI object	Desc
<b>One-time</b> [overrides "Prime"]	BSEG-LIFNR not init	BSEC-NAME1 not init	BSEG-LIFNR	ZZLIFN1	ZPAYEEV	Payee vendor
			BSEG-LIFNR	ZZLIFNR	ZVENDOR	Prime vendor
			BSEC-NAME1	ZZNAME1	ZPAYEET	Payee name
<b>Prime</b>	BSEG-LIFNR not init	BSEG-EMPFB is init	BSEG-LIFNR	ZZLIFN1	ZPAYEEV	Payee vendor
			BSEG-LIFNR	ZZLIFNR	ZVENDOR	Prime vendor
			LFA1-NAME1	ZZNAME1	ZPAYEET	Payee name
<b>Alternative</b> [overrides "Prime"]	BSEG-LIFNR not init	LFA1-LNRZA not init	LFA1-LNRZA	ZZLIFN1	ZPAYEEV	Payee vendor
			BSEG-LIFNR	ZZLIFNR	ZVENDOR	Prime vendor
			LFA1-NAME1	ZZNAME1	ZPAYEET	Payee name
<b>Permitted</b> [overrides "Prime"]	BSEG-LIFNR not init	LFZA-EMPFK not init	LFZA-EMPFK	ZZLIFN1	ZPAYEEV	Payee vendor
			BSEG-LIFNR	ZZLIFNR	ZVENDOR	Prime vendor
			LFA1-NAME1	ZZNAME1	ZPAYEET	Payee name

## Budget v Actuals Reporting definitions:

Key Figure	Definition
Original budget	Fiscal year [0FISCYEAR] = variable P_YEAR, Budget Type [0PU_BUDTYPE] = "ORIG", Document Status [0PU_DOCSTAT] = variable, Budgeting Value Type [0PU_VALTYPE] = "B1", Version [0VERSION] = "200", KF = 0FM_AMOUNT1.
Recurring budget	Fiscal year [0FISCYEAR] = variable P_YEAR, Budget Type [0PU_BUDTYPE] = "RCUR", Document Status [0PU_DOCSTAT] = variable, Budgeting Value Type [0PU_VALTYPE] = "B1", Version [0VERSION] = "0", KF = 0FM_AMOUNT1.
Non-recurring budget	Fiscal year [0FISCYEAR] = variable P_YEAR, Budget Type [0PU_BUDTYPE] = "NRCR", Document Status [0PU_DOCSTAT] = variable, Budgeting Value Type [0PU_VALTYPE] = "B1", Version [0VERSION] = "0", KF = 0FM_AMOUNT1.
Annual (Revised) Budget	'Recurring' + 'Non-recurring'
Prior Balance	UK Fiscal year/per [0FISCPER] = P_FPER1; 0P_FPER-1, Commt/Actual Detail [0FM_ACTDETL] = Invoice 110 + Funds Transfer 150 + PROFIT TRANSFER 160 + Actual Posting in Controlling 170, KF = 0FM_AMOUNT1.
Current Month Actual	UK Fiscal year/per [0FISCPER] = 0P_FPER, Commt/Actual Detail [0FM_ACTDETL] = Invoice 110 + Funds Transfer 150 + PROFIT TRANSFER 160 + Actual Posting in Controlling 170, KF = 0FM_AMOUNT1.
YTD Actual	UK Fiscal year/per [0FISCPER] = P_FPER1; 0P_FPER, Commt/Actual Detail [0FM_ACTDETL] = Invoice 110 + Funds Transfer 150 + PROFIT TRANSFER 160 + Actual Posting in Controlling 170, KF = 0FM_AMOUNT1.
YTD Fund reservations, reqs	UK Fiscal year/per [0FISCPER] = P_FPER1; 0P_FPER, Commt/Actual Detail [0FM_ACTDETL] = HR funds reservation 20, Funds Reservation 30, Funds Precommitment 40, Funds Commitment 50, Purchase Requisition 80, KF = 0FM_AMOUNT1.
YTD Encumbrances for PO's	UK Fiscal year/per [0FISCPER] = P_FPER1; 0P_FPER, Commt/Actual Detail [0FM_ACTDETL] = Purchase Order 90, KF = 0FM_AMOUNT1.
YTD Parked FI docs	UK Fiscal year/per [0FISCPER] = P_FPER1; 0P_FPER, Commt/Actual Detail [0FM_ACTDETL] = Parked FI Document 10, KF = 0FM_AMOUNT1.
Available / Budget	'Annual (Revised) / Budget' - 'YTD / Actual' - 'YTD / Fund reservations, reqs' - 'YTD / Encumbrances / for PO's' - 'YTD / Parked / FI docs'

# Reporting layout using Bex Web..

Funds Center	Commitment item	Original Budget	Annual (Revised) Budget	Prior Balance	Current Month Actual	YTD Actual	YTD Fund reservations, reqs	YTD Encumbrances for PO's	YTD Parked FI docs	Available Budget	
1012013080	FINANCIAL SYSTEMS										
	512011	Executive - Regular	\$ 116,733.47	\$ 116,733.47	\$ 40,709.86	\$ 6,969.63	\$ 47,679.49	\$ 58,366.74		\$ 10,687.24	
	512012	Executive-Nproductv			\$ 7,929.09	\$ 2,758.16	\$ 10,687.25			\$ (10,687.25)	
	512021	Admini-Regular FT	\$ 100,476.10	\$ 100,476.10	\$ 35,289.23	\$ 5,708.91	\$ 40,998.14	\$ 26,571.90		\$ 32,906.06	
	512022	Admini-Nproductive			\$ 6,574.62	\$ 2,663.86	\$ 9,238.48			\$ (9,238.48)	
	520002	Health	\$ 16,742.51	\$ 16,742.51						\$ 16,742.51	
	520003	Basic Life	\$ 221.56	\$ 221.56						\$ 221.56	
	520004	Misc Bene Rate	\$ 8,036.76	\$ 8,036.76						\$ 8,036.76	
	520005	Retirement	\$ 21,303.91	\$ 21,303.91						\$ 21,303.91	
	520006	FICA	\$ 14,550.87	\$ 14,550.87						\$ 14,550.87	
	520103	EHC-Exec/Managerial			\$ 1,825.00		\$ 1,825.00	\$ 2,190.00		\$ (4,015.00)	
	520104	EHC-Prof Admin			\$ 3,438.50		\$ 3,438.50	\$ 1,936.20		\$ (5,374.70)	
	520203	ELI-Exec/Managerial			\$ 50.09		\$ 50.09	\$ 59.52		\$ (109.61)	
	520204	ELI-Prof Admin			\$ 43.67		\$ 43.67	\$ 27.12		\$ (70.79)	
	520303	FS-Exec/Managerial			\$ 13.75	\$ 2.75	\$ 16.50			\$ (16.50)	
	520304	FS-Prof Admin			\$ 25.90	\$ 5.18	\$ 31.08			\$ (31.08)	
	520403	FICA-Exec/Managerial			\$ 3,382.25	\$ 136.03	\$ 3,518.28	\$ 4,465.02		\$ (7,983.30)	
	520404	FICA-Prof Admin			\$ 3,027.77	\$ 622.36	\$ 3,650.13	\$ 2,032.80		\$ (5,682.93)	
	520503	Retmt-Exec/Manageria			\$ 4,863.90	\$ 972.78	\$ 5,836.68	\$ 5,836.68		\$ (11,673.36)	
	520504	Retmt-Prof Admin			\$ 4,186.40	\$ 837.28	\$ 5,023.68	\$ 2,657.22		\$ (7,680.90)	
	520720	MFB - Staff			\$ 3,348.60	\$ 669.72	\$ 4,018.32	\$ 3,142.74		\$ (7,161.06)	
	530000	Budget Pool-Curr Exp	\$ 9,000.00	\$ 9,000.00						\$ 9,000.00	
	531000	Budget Pool-Communi	\$ 2,875.00	\$ 2,875.00						\$ 2,875.00	
	531200	Budget Pool - Print	\$ 1,000.00	\$ 1,000.00						\$ 1,000.00	
	535203	Computer Time			\$ 249.99		\$ 249.99			\$ 0.00	\$ (249.99)
	535206	Admin Data Proc Supp			\$ 1,217.93	\$ 188.98	\$ 1,406.91			\$ 0.00	\$ (1,406.91)

Row 1 / 41

# BOBJ Xcelsius dashboard:

Sep  
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## FMBCS Scorecard

Funds centers	Annual Budget	Current month Actual	YTD Actual	YTD Funds reservations	YTD Encumbrances	YTD Parked documents	Total Allocated Funds	% of Funds Allocated	Available Budget	% of Available Budget
● Desktop training	17,325	2,500	13,500	25	500	200	14,225	82.1%	3,100	17.9%
● Administration	200,000	10,000	170,200	500	6,800	500	178,000	89.0%	22,000	11.0%
● Engineering admin	125,000	12,000	88,900	5,000	6,000	800	100,700	80.6%	24,300	19.4%
● Law Instruction	75,000	6,500	65,600		8,000	100	73,700	98.3%	1,300	1.7%
● Library	100,000	4,500	67,000	30,000	2,800		99,800	99.8%	200	0.2%
● General Clinics	35,000	4,000	18,400	5,000	12,000	500	35,900	102.6%	(900)	-2.6%
Total	552,325	39,500	423,600	40,525	36,100	2,100	502,325	90.9% #	50,000	9.1%

### Desktop Training Summary

Actual Monthly Trend

Allocation Breakdown

Funds Allocated

82%

Summary  
 Detail

**LSI Consulting™**  
We can see your solution from here.

Consultancy by  
**Kingfisher Inc.**

## [ User Audience

- Typical user audience:
    - C- Level Execs
    - Central Budget Officers
    - Departmental Heads
    - Departmental Budget Officers
    - Finance managers
    - Accounting clerks
- All users above have different objectives, which can all be met through a variety of reporting tools, and deployment methods.

## [ Generic items for consideration

- Operational and support requirements:
  - Role of the super-user
  - Role of the ECC FMBCS team
  - Report tool training
  - Overview of available report tools, and deployment methods
  - Central Reporting competency
  - Development process
    - published reports
    - ad hoc reports
  - Feedback from users

# Thank you for participating.

Please remember to complete and return your evaluation form following this session.

For ongoing education on this area of focus, visit the Year-Round Community page at [www.asug.com/yrcc](http://www.asug.com/yrcc)

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