Contracts and Grants SPX System Reporting

IRAP Learning & Knowledge Sharing

8/21/2017

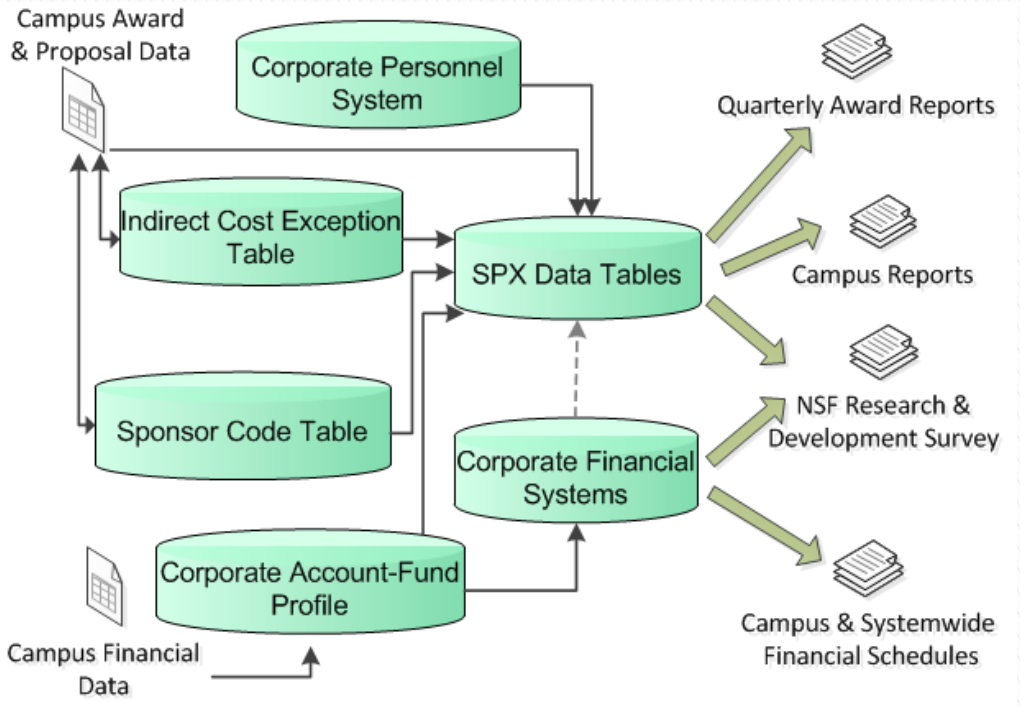
Agenda

- C&G system background
- Data system workflow
- Data sources – submissions vs. lookups
- Data element types
- Reporting environments
- Introduction to Cognos Workspace Advanced
- Hands on exercises
  - By year, by campus, sponsor category, project type
  - Lists and crosstabs
  - Flow-through reports
  - Counts
- Caveats

C&G System Background

- SPX system—award and proposal data from campuses, labs, ANR and OP
  - Historic data from legacy CGX system from 2001 (awards) and 2006 (proposals) through Q215
    - Some pre-2001 legacy data for long-term awards that were active when CGX was ported from previous system
  - Incremental data since Q315 adds elements to move towards better integration with other systems
- Currently 371,000 proposal records, 30K/YR
- Currently 530,000 award records, 33K/YR

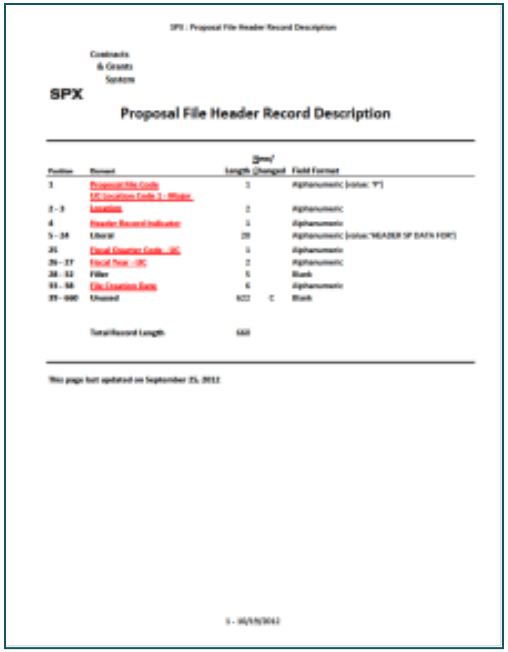
Research Data Systems Constructing SPX Data Tables



- Validate sponsor code, indirect cost exception, account, fund, and employee ID
- Incorporate metadata from sponsor table and account-fund profile
- Tables and data mart for reporting

SPX Data Elements from Campuses

- Quarterly award and proposal files from 13 reporting locations
- File specifications: http://researchmemos.ucop.edu/index.php/site/memoDetail/memo_id/RPAC-12-05



SPX : Proposal File Header Record Description

Contracts
& Grants
System

SPX

Proposal File Header Record Description

Position	Element	Length	Changed	Field Format
1	Proposal File Code	1		Alphanumeric (value: "P")
	UC Location Code 1 - Major			
2 - 3	Location	2		Alphanumeric
4	Header Record Indicator	1		Alphanumeric
5 - 24	Literal	20		Alphanumeric (value: "HEADER SP DATA FOR")
25	Fiscal Quarter Code - UC	1		Alphanumeric
26 - 27	Fiscal Year - UC	2		Alphanumeric
28 - 32	Filler	5		Blank
33 - 38	File Creation Date	6		Alphanumeric
39 - 600	Unused	622	C	Blank
	Total Record Length	660		

This page last updated on September 25, 2012

1 - 10/19/2012

SPX Data Retrieved from Corporate Systems

- Sponsor data (and originator sponsor data)
  - Name, agency (type), sub-agency, category, foreign country
- Account data
  - Account group code, NSF discipline code, UAS discipline code, UAS structure code, ORG level
- Fund data
  - Fund group code, IDC rate and base, on/off campus code, federal flow-through code, sponsor code and category
- Indirect Cost and Personnel data
  - Lookups for validation, no data retrieved

SPX – Financial System Links Match Rates

- Account-fund lookup for awards and proposals >95% match
- Metadata for awards and proposals is largely complete
- For expenditures, the reverse lookup of account and fund to award system is ~67%

SPX Data Tables

- Two sets of tables
  - BI (Business Intelligence) star schema
  - Data marts for proposals and awards derived from star schema
- Star preserves data elements at time of reporting
- Data mart contains only latest values for each quarterly record
  - This applies correction retroactively but revises history
  - Example of Genentech: parent sponsor code, Hoffman-La Roche, appears in all datamart records (latest value)
  - Star schema shows parent starting 2009
- *Data mart report values change categories slightly each quarter, but not quarterly location totals*

Cognos Advanced Workspace

- Interactive, drag-and-drop reporting system
- Browser-based, no VPN, install or license
- Deep application, but easy to get started
  1. Go to data.ucop.edu
  2. Select “Sign-in to Cognos”
  3. Enter Windows credentials
  4. Change preferences to show hidden folders
  5. Click Launch (upper right of toolbar)
  6. Select “Cognos Workspace Advanced”
  7. Select Authoring Tools/Contracts and Grants_CQM
  8. Select “Create New” or “Open Existing”
  9. Select List or Crosstab/OK
  10. Open Presentation Layer and select datamart

Data Mart Exercises

- Awards by UC Fiscal Year
- Include campus and crosstab
- Sponsor category
- Project type and threshold filters
- Unit record data
- Exporting data to Excel format (caveats)
- Flow-through reporting using combined filters (advanced)
- Counts and functions in the Toolbox (time permitting)

Data Hitches and Glitches

- Can only report on one datamart at a time
- Historic data doesn't include Originator Sponsor, Proposal ID, Project ID, IDC Exception, etc.
- Fixable data problems
  - IDC rate from Fund table is missing decimal (*10) and currently cumulates (not latest value)
  - Fund Sponsor code is OK but sponsor category code is blank
  - Davis Q311 proposals are missing and duplicates
  - UCLA proposals under-reported 2011-12
  - LBNL duplicate proposals Q117 and Q217
  - Berkeley Q315 PI names scrambled
  - Inconsistent Employee ID lookup and assignment for all incremental data (Q315-present)

QUESTIONS?
COMMENTS?