

Unit Identification and Hierarchy Database (UHD)

Administrative User Guide (including Web Services)

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Background

Universities depend, as do all business enterprises, on an organizational structure that defines "units" (groupings of people, facilities, and budgets) as well as reporting hierarchies (which unit reports to which other unit). At universities, this structure applies both to academic and administrative operations. It is also used for other hierarchical reporting lines such as special workflow approval flows, data roll ups and informal reporting lines. In the "physical world", this structure dictates decision-making chains of command, paper-based approval workflows, personnel management, budgetary authority, and literally hundreds of different processes.

As enterprise business processes move to software applications for automation and efficiency (the "virtual world"), the organizational structure also needs to become virtual (electronic) to support these processes. For some years, the electronic identification of units at the University of Georgia (UGA) has been maintained in a system commonly referred to as the Budgetary Organizational Structure (a database table named BUD_ORG_STRUCTURE), which we will abbreviate "BOS". BOS assigns "department codes" to units to allow financial reporting and budget analysis. Because the current system was developed specifically for financial reporting and identifies only units that have independent budgets, it does not meet all UGA needs for identifying and managing units, although it is often used in that capacity.

UHD was created in the Office of the Vice President for Research (OVPR) to expand our ability to identify units and track relationships among units at UGA, beyond those identified by budgets in BOS. This manual describes the structure and use of UHD in defining and using the organizational structure of UGA.

Benefits of UHD

UHD was designed to overcome the main limitations of BOS by expanding and diversifying the system to:

- categorize units by type;
- identify both official and unofficial units;
- recognize unit hierarchical relationships over any number of levels;
- track multiple types of unit hierarchical relationships (e.g., budgets and accounts, academic and administrative units, academic programs and majors); and
- track historical changes to units, unit types, and unit relationships.

UHD is also constructed as an SQL-compliant database utilizing modern service-oriented architecture (SOA) methods to make the unit identification and hierarchical data available to any appropriate application (e.g., through web service APIs).

Role-based access to administrative interfaces allows either centralized or decentralized maintenance of the content.

Structure of UHD

UHD maintains unit attributes associated both with the identity of the unit and with the relationship(s) among units (the hierarchy). We describe here the various attributes and how they are used, but a more detailed definition of each is provided in a Glossary (Appendix A).

Unit Identity

UHD contains a set of attributes that relate only to a given unit (unrelated to hierarchy).

UHD Code

The primary entity in UHD is referred to as a **UHD unit**, with a unique identifying code (**UHD** unit number) consisting of 5 digits as displayed. Units that are terminated retain their code; the UHD codes are never reused.

Unit Long Name

Each UHD unit has several name fields, the primary (required) one being the **Unit Long Name**, which is the official name of the unit in the real world. UHD units must also be assigned a **Unit Short Name** (30 characters or less) for use in applications that limit the length of a name field. UHD units may also have a **Budgetary Name** (also 30 characters or less), which is normally the name assigned to the "department" in BOS. UHD units may also be assigned in UHD with an unlimited number of **Synonyms**, which are used to simplify finding a UHD unit record.

Unit Type

Each UHD unit is assigned at least one **Unit Type**, allowing categorization of different kinds of units (departments, schools, centers, institutes, etc.). UHD units can be assigned multiple Unit Types. The current list of Unit Types is provided in Appendix B. In that table, values in the **Unit Status** column indicate whether Units of this Unit Type are always Official (O), always Unofficial (U), or could be either (O/U). These restrictions are set by UGA business rules and can be changed by a UHD Administrator.

Status Documentation

When an *official* UHD unit is created, an upload feature allows archiving the documentation (**Status Documentation**) used to administratively approve the official creation of the unit. Current business rules do not *require* documentation, but that could be reconsidered.

Budget Code

For UHD units that use budgets in BOS, the BOS department code occupies the **Budget Code** field in UHD. A nightly automatic feed from BOS synchronizes the BOS departments with UHD units, recording name changes (see below).

Unit Hierarchy

UHD relates "child" and "parent" units (a child reports to a parent, or in some cases is a subunit of a parent) through a **Unit Hierarchy**. A UHD unit may have more than one unit hierarchy or reporting type. (See below.)

Reporting Type

UHD maintains unlimited multiple hierarchies in parallel, each being termed a **Unit Hierarchical Category** (also called "Reporting Type"). UHD Administrators can create new unit hierarchies (see *Managing Attribute Lists*). As defined, each Unit Hierarchical Category must be assigned a cardinality (a number defining how many parents a given UHD unit may have).

At the time of this writing, five Unit Hierarchies are in use:

- Administrative, which describes the real-world reporting structure of UGA units, essentially the UGA organizational structure;
- Budgetary, which synchronizes with the BOS accounting structure;
- Subunit, which is used to distinguish units *within* other units (as opposed to units *reporting to* other units);
- OVPR_Transmittal, which defines an approval workflow hierarchy used in OVPR's eResearch Portal research administration applications.
- Elements, which defines the academic reporting structure for data roll ups in the UGA Elements faculty activity repository

Appendix C. Unit Hierarchical Categories describes these and other possible hierarchies.

History

UHD is designed to track all changes in UHD units and unit hierarchical relationships. Each unit has a start date and, if terminated, an end date. Changes made to any of the names, any unit type, unit status, budget code, are all time-stamped to create an historical record of UGA's structure. In addition, changes to reporting (parent-child relationships) are time-stamped. With complete and accurate content, this allows a display of UGA's organizational structure at any date in the past.

This historical method of record keeping (using SQL Fourth Normal Form) allows queries based on end date, which return attributes (reporting structure, status, name, etc.) as they were at the specified end date.

Administration of UHD

UHD Portal

All users, with any roles, access UHD through a single portal at <u>https://paul.ovpr.uga.edu/UHDPortal/</u>. This link takes the user to a MyID login screen. Upon successful authentication of the user's UGA MyID and password, the user is taken to the Administrator Menu. The capabilities provided to the user depend on the user's role in the application. At the time of writing, only two roles are defined: UHD User and UHD Administrator.

UHD Users

UHD Users consist of anyone with a valid MyID. UHD Users have read-only access to all UHD content in a read-only mode.

UHD Administrators

UHD Administrators are assigned by the UHD Superuser (managed by OVPR administrators outside the UHD Portal); they have read/write access to all UHD content, and can edit or add UHD units. UHD Administrators who login through this URL are taken to a Main Menu (labeled Administrator Menu).



Figure 1. UHD Administrator Menu

Search for UHD Unit and Display its History

Clicking on Search Units (on the Administrator Menu) takes the user to a search page (when a UHD User logs in, they are directed to this page immediately).

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Figure 2. Search for a Unit screen

There are many ways to find a UHD unit using this advanced search page; by default, you are searching current active units. By selecting the radio button "Yes" for Include Inactive Units, searches will include inactive and active units. The results of a search (the hit list) are displayed below this search area.

		Search for a Unit			
		Search for a Shit			
Units with Budget C Unit Status:	Code between:	(Leave 2nd box empty to search for single value)			
Search Reset	ts: ⊙Yes ⊛ Its	No			
Include Inactive Uni Search Reset Search Resul Records: 7, Pages: 1	ts: ∵ Yes e	No UHD Units			
Include Inactive Unit Search Reset Search Resul Records: 7, Pages: 1 Unit ID Citcl for complete de	ts: O Yes a	UHD Units Long Name	Unit Type(s)	Unit Status	Active
Include Inactive Unit Search Reset Search Resul Records: 7, Pages: 1 Unit ID Click for complete de 00031	ts: O Yes a	UHD Units Long Name BIOLOGICAL AGRICUL ENGINEERING	Unit Type(s) Budgetary	Unit Status Official	Active
Include Inactive Uni Search Reset Search Resul Records: 7, Pages: 1 Unit ID Click for complete de 00031 00117	ts: O Yes a Its Budget Code 152	UHD Units Long Name BIOLOGICAL AGRICUL ENGINEERING Institute of the Faculty of Engineering	Unit Type(s) Budgetary Budgetary; Institute	Unit Status Official	Active Y Y
Include Inactive Unit Search (Rest) Search Result Records: 7, Pages: 1 Unit ID Clock for complete de 000031 00117 00163	ts: O Yes a	UHD Units Long Name BIOLOGICAL AGRICUL ENGINEERING Institute of the Faculty of Engineering Nanoscale Science and Engineering Center (NanoSEC)	Unit Type(s) Budgetary Budgetary: Institute Center	Unit Status Official Official	Active Y Y Y
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Include Inactive Uni Search Reset Search Resul Records: 7, Pages: 1 Unit ID Clock for complete de 00031 00117 00163 00193 00642	ts: • Yes a Its Budget Code 152 038 410	UHD Units Long Name BIOLOGICAL AGRICUL ENGINEERING Institute of the Faculty of Engineering Nanoscale Science and Engineering Center (NanoSEC) EITS Security, Network Operations and Infrastructure ENGINEERING DEPARTMENT	Unit Type(s) Budgetary Budgetary; Institute Center Budgetary; Institutional Support Budgetary	Unit Status Official Official Official Official Official	Active Y Y Y Y Y
Include Inactive Unit Search (Rest) Search Resul Records: 7, Pages: 1 Unit ID Click for complete de 000031 00117 00163 00163 00163 00053	ts: • Yes e Its state 152 038 410	UHD Units Long Name BIOLOGICAL AGRICUL ENGINEERING Institute of the Faculty of Engineering Nanoscale Science and Engineering Center (NanoSEC) EITS Security, Network Operations and Infrastructure ENGINEERING DEPARTMENT FACULTY OF ENGINEERING	Unit Type(s) Budgetary Budgetary: Institute Center Budgetary: Institutional Support Budgetary Budgetary	Unit Status Official Official Official Official Official Official Official Unofficial	Active Y Y Y Y Y Y

Figure 3. Search Results

To display detailed history for the College of Engineering, click on the Unit ID for that unit (00869 in this case).

Seal Ond P		
		Welcome, Robert Scott - Logout
	Detailed Unit History	
		Find Another Unit
		Main Menu
Unit ID: 00869 / College of Engineering Start Date: 07/01/2012 End Date:		
Official Unit? ^{III} Status Start Date 07/01	/2012	
Approval Documentation: There is no app	roval documentation.	
Long Name:		
Start (mm/dd/yyyy) - End (mm/dd/yyy	(v)	
07/01/2012 -	College of Engineering	
Short Name:		
Start (mm/dd/vvvv) - End (mm/dd/vvv	2)	
08/16/2012 -	COLLEGE OF ENGINEERING	
Budaataa Nama		
Start (mm/dd/www) - End (mm/dd/ww	2	
08/16/2012 -	COLLEGE OF ENGINEERING	
Synonyms:		
Start (mm/dd/yyyy) - End (mm/dd/yyy	<u>(v)</u>	
Unit Type(s):		
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Figure 4. Detailed Unit History

Detailed Unit History

This page provides the entire history of all fields for this UHD unit record. In the bottom section appears the history of parent units in each Unit Hierarchy for which this unit has an assigned parent. They are linked to a Detailed Unit History page for those units.

Tabulate Units Reporting to this one

The button at the bottom left Tabulate Units Reporting to this one displays all the children of this unit. This button takes the user to a page (Display Hierarchy) on which the particular unit hierarchy to be

queried can be selected. The user also has the opportunity to look only for a subset of Unit Types in the hierarchy. The user may also select a date, which will return the hierarchy in effect on that date. The default value is the current date. (NOTE: UHD is NOT populated with historical data before about three years previous.) Once the search parameters are set, pressing Submit displays the hierarchy from this unit down (children and descendants) on the same page. (In the case of UHD 00869, there are no units that report to the College of Engineering at present, so the screen shot below is of UHD 00009, OVPR.)

		Welcome, Jerry NeSmith · Logout
	Display Hierarchy	
		Find Another Unit
Jnits that report to: 00009	Office of the Vice President for Research	
n reporting structure:	Administrative on (M/D/Y): 09/17/2013	
Inits of type:	Any Unit Status: Any	
shift + left click on windows	Academic Department	
nr Cmd-click on mac	Academic Drision	
o select multiples	Academic Support	
or select any for all)	Auxiliary Services Budgetary	
Submit	Center	
00009/Office of the Vic	e President for Research	
 00791/Bioenerg 	y Systems Research Institute	
 00112/Biomedic 	al & Health Sciences Institute	
 00839/Gr 	aduate Students and Postdocs in Science	
 00231/Center fo 	r Applied Genetic Technology	
 00130/Center to 00775/Ch 	r Applied Isotope Studies	
 00770/Center fr 	enical Analysis Eaboratory	
 007 ss/Center fo 00844/Center fo 	r Molecular Medicine	
 00168/Center for 	r Regenerative Bioscience	
 00176/Center for 	r Tropical & Emerging Global Diseases	
 00779/Flo 	w Cytometry Core Facility	
 00837/Chemical 	Biology Group	
 00813/Climate 8 	Society Initiative	
 00138/Complex 	Carbohydrate Research Center	
 00771/CC 	RC Analytical Services	
 00814/Developm 	nental Biology Alliance	
 00397/Faculty or 	f Infectious Diseases	

Figure 5. Display Hierarchy (units reporting to this one)

Adding a new UHD unit

Back on the Administrator Menu, clicking Add New Unit brings up a page to enter all data needed to define and create a new UHD unit. By default, all start dates for this information are set to today, but this can be changed to any past date.

Defining the new UHD unit

As an example below, information has been entered for a fictitious unit Center for Fantasy Games, reporting to the Office of the Vice President for Instruction. It is imagined to be an official center (approved by University Council) so Unit Type is selected as Center, but does not have a Budget Code. The Official status is checked, but no documentation is available.

			Wek	come, Robert Scott - Logout
		Add a New Unit		
Note: The Unit ID will be	automatically generat	ied.		Main Menu
Unit Start Date (mm/dd/	'yyyy): 09 / 03 / 2	013 Set All Current Start Dates to Entered Start Date		
Unit names: Enter Name	es and start date (def	ault: today)	*Bequired	
09 / 03 / 2013 -		Center for Fantasy Games	Current	
Start (mm/dd/yyyv) -	End (mm/dd/yvvv)	Add a Long Name Short Name (30 characters maximum)	*Required	
09 / 03 / 2013 -		CENTER FOR FANTASY GAMES	Current	
Start Imm/dd/an-A		Add a Short Name		
09 / 03 / 2013 -		budgetary Hallie	Current	
		Add a Budgetary Name		
Start (mm/dd/yyyy) -	End (mm/dd/yyyy)	Synonyms		
09 / 03 / 2013 -		CFG Add a Synonym		
11-1 To a Catal 1 - 2 T				
Start (mm/dd/vvvv) -	End (mm/dd/yvvv)	Unit Type *Required		
09 / 03 / 2013 -		Center (allowed status: Official)		
		Add another Unit Type		
Budget Code: Enter Bud	dget Code and start of	late (default: today)		
Start (mm/dd/yyyy) -	End (mm/dd/yyyy)	Budget Code		
09 / 03 / 2013 -		Current		

Figure 6. Add a New Unit

Edit Reporting Relations

Pressing the Submit button takes the administrator to the Edit Reporting Relations page, where the OVPI parent has been selected in both Administrative and OVPR_Transmittal hierarchies.

(Note that clicking on the Unit ID link at the top of this page toggles the expansion of more detail about the unit if needed.)

			obert Scott · Logout
	Edit Benorting Belatio	ng	
	East neporting neiatio		
- Unit ID: 00899/Center for Fantasy G	lames		
Start (mm/dd/www) - End (mm/d	d/www) Linit Type(s)		
09/03/2013 -	Center (allowed status: Official)		
Start (mm/dd/sass) - End (mm/d	d/mm/ Budget Code		
Start (mm/dd/yyyy) - End (mm/d	alyyyy) budger code		
Lindor Administrative biororative			
Onder Administrative hierarchy:	and Beneric to		
oran (mm/dd/yyyy) - End (mm/dd/yy)	00006/Office of the Vice President for Instruction	Cancel Replacement	
09 V 03 V 2013 - V V	Defea a per exect unit	• Carter Replacement	
	New York Control of Co		
Under Budgetary hierarchy:			
Start (mm/dd/yyyy) - End (mm/dd/yy	yy) Reports to		
09 / 03 / 2013 - /	<pre><select new="" super="" unit=""></select></pre>	Cancel Replacement	
	Define a new parent unit		
Under OVPR Transmittal hierarchy:			
Under OVPR_Transmittal hierarchy: Start (mm/dd/vvvv) - End (mm/dd/vvv	vv) Reports to		
Under OVPR_Transmittal hierarchy: Start (mm/dd/yyyy) - End (mm/dd/yy) 09 //03 //2013 - // //	yy) Reports to	Cancel Replacement	
Under OVPR_Transmittal hierarchy: Start (mm/dd/yyyy) - End (mm/dd/yyy 09 / 03 / 2013 - /	yy) Reports to 00006/0ffice of the Vice President for Instruction Define a new parent unit	Cancel Replacement	
Under OVPR_Transmittal hierarchy: Start (mm/dd/yyy) - End (mm/dd/yy) 09 //03 //2013 - // //	yy) Reports to (00005/Office of the Vice President for Instruction (Define a new parent unit)	Cancel Replacement	
Under OVPR_Transmittal hierarchy: Start (mm/dd/yyyy) - End (mm/dd/yyy 09 /03 //2013 - / / / Under Subunit hierarchy:	yy) Reports to (00006/Office of the Vice President for Instruction Define a new parent unit)	2 Carcel Replacement	
Under OVPR_Transmittal hierarchy: Start (mm/dd/yyyy) - End (mm/dd/yy) 109 / 03 / (2013 - / / / Under Subunit hierarchy: Start (mm/dd/yyyy) - End (mm/dd/yy)	yy) Reports to 00006/Office of the Vice President for Instruction Define a new parent unit yy) Reports to	Cancel Replacement	
Under OVPR_Transmittal hierarchy: Start (mm/dd/yyyy) - End (mm/dd/yy) 09 /03 /2013 - / / / Under Subunit hierarchy: Start (mm/dd/yyy) - End (mm/dd/yy) 09 /03 /2013 - / /	yy) Reports to (00006/Office of the Vice President for Instruction (Define a new parent unit) yy) Reports to (<select new="" super="" unit="">) </select>	Cancel Replacement Cancel Replacement Cancel Replacement	
Under OVPR_Transmittal hierarchy: Start (mm//dd/yyyy) - End (mm//dd/yy) 09 //03 //2013 - // // Under Subunit hierarchy: Start (mm//dd/yyyy) - End (mm//dd/yy) 09 //03 //2013 - // //	yy) Reports to Define a new parent unit yy) Reports to C <fletct new="" super="" unit=""> Define a new parent unit</fletct>	Cancel Replacement Cancel Replacement	
Under OVPR_Transmittal hierarchy: Start (mm/dd/yyy) - End (mm/dd/yy) 09 //03 //2013 - / / / Under Subunit hierarchy: Start (mm/dd/yyyy) - End (mm/dd/yy) 09 //03 //2013 - / / / Save and Continue) Cancel and Continue	yy) Reports to 00006/Office of the Vice President for Instruction Define a new parent unit (<select new="" super="" unit=""> Define a new parent unit)</select>	Cancel Replacement Cancel Replacement Cancel Replacement	
Under OVPR_Transmittal hierarchy: Start (mm/dd/yyyy) - End (mm/dd/yy) (09 /03 /2013 - / / / Under Subunit hierarchy: Start (mm/dd/yyyy) - End (mm/dd/yy) (09 /03 /2013 - / / / Save and Continue) Cancel and Continue	yy) Reports to 00006/Office of the Vice President for Instruction Define a new parent unit yy) Reports to <a href="https://www.super.units-comparent-units-compa</td> <td>Cancel Replacement Cancel Replacement Cancel Replacement</td> <td></td>	Cancel Replacement Cancel Replacement Cancel Replacement	
Under OVPR_Transmittal hierarchy: Start (mm/dd/yyyy) - End (mm/dd/yy 09 /03 /2013 - / / / Under Subunit hierarchy: Start (mm/dd/yyyy) - End (mm/dd/yy 09 /03 /2013 - / / / Save and Continue) Cancel and Continue	yy) Reports to 000006/Office of the Vice President for Instruction Define a new parent unit yy) Reports to <pre> </pre> <pre> (</pre> <pre> </pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	Cancel Replacement Cancel Replacement Cancel Replacement Cancel Replacement	nistration for Research

Figure 7. Edit Reporting Relations

The administrator has the opportunity to either Save and Continue or Cancel and Continue; in either case, a Detailed Unit History page is displayed to allow review of the details of the new unit (an example of this page is provided earlier in this manual).

Editing an existing UHD unit

On the Administrator Menu, clicking on Edit Unit Identification first takes the administrator to the Search for a Unit page (example provided earlier), which can be used to generate a hit list as before. Clicking on the Unit ID of the unit of interest takes the administrator to the Edit Unit page.

	ono Portai	Walasma Dahart Pa	ott - Loopert
		webome, Hobert Sci	ou · coyout
	Edit Unit		
			Anio Manu
Unit ID: 00899 Unit Start Date: 09/03/2013 Unit End Date:		T	Tail I Wenu
Start (mm/dd/vvvv) - End (mm/dd/vvvv)	Long Name	*Required	
09 / 03 / 2013 - / /	Center for Fantasy Games	Current	
	Replace Current Long Name		
Start (mm/dd/yyyy) - End (mm/dd/yyyy)	Short Name (30 characters maximum)	*Required	
09 /03 /2013 - /	CENTER FOR FANTASY GAMES	Current	
Start (mm/dd/vvvv) - End (mm/dd/vvvv)	Replace Current Short Name Budgetary Name		
09 / 03 / 2013 - / /		Current Cancel Replacement	
	Replace Current Budgetary Name		
Start (mm/dd/yyyy) - End (mm/dd/yyyy)	Synonyms		
09 / 03 / 2013 - /	CFG		
	Add another Synonym		
Budget Code: Enter Budget Code and start (date (default: today)		
Start (mm/dd/yyyy) - End (mm/dd/yyyy)	Budget Code		
09 / 03 / 2013 - /	Replace Current Budget Code		
Unit Type: Enter Unit Type and start date (de	fault: today)		
Start (mm/dd/yyyy) - End (mm/dd/yyyy)	Unit Type *Requ	ired	
09 / 03 / 2013 - / /	Center (allowed status: Official)		
	Add another Unit Type		
Is Official Unit? ^[d] Status Start Date (mm/c Approval <u>Choose File</u> no file selected Documentation	id/yyyy): 09 / 03 / 2013		
Submit Deactivate Unit on (mm/dd/yyyy)			
		GeaR is the Georgia electronic administration : @2013.Office of the Mon. President	for Research
Office of the ce President for Research		OVPR Help Desk - The Universit	ty of Georgia

Figure 8. Edit Unit

On this page, the administrator can use the buttons to replace Long Name, Short Name, Budgetary Name, or Budget Code, or add another Synonym or Unit Type. By default, Start Dates are set to today's date, but these can be edited and will not allow overlap of timeframes. Pressing the Submit button on this page takes the administrator to the Edit Reporting Relations page (example provided earlier) in case these relationships also require editing.

Changing reporting relationships

In some cases, only the reporting relationships require editing, so the Edit Unit Relationships link on the Administrator Menu takes the administrator directly to the Edit Reporting Relations page on which this editing can be done.

Displaying unit hierarchy

General users (anyone with MyID) can view any portion of any of the hierarchies in UHD by starting at the Search for a Unit page (administrators get there by clicking Search Units on the Administrator Menu. Use the search function to find the top unit in the hierarchy of interest, click on the unit to get the Detailed Unit History page, then click the bottom button Tabulate Units Reporting to this one and select the hierarchy and Unit Types and Unit Status you wish to display. The result is displayed at the bottom of the Display Hierarchy page, and every unit is a link to the Detailed Unit History page for that unit. For

example, the Administrative Hierarchy for the Office of the Vice President for Development and Alumni Relations is shown here.

		Welcome, Robert Scott - Logou
	Display Hierarchy	У
		Find Another Unit
In reporting structure: Units of type: Shift + left click on windows or cr Crdr-click on mac to select multiples or select any for all Submit • 00005/Office of the V • 00295/Alumni • 00295/Alumni • 00295/Office of • 00295/Office of • 00297/Office of	Administrative e on (M/D/Y): 19/04/2013	

Figure 9. Display Hierarchy (Edit Unit)

Managing Attribute Lists

UHD Administrators have the ability to create/revise the possible Unit Types and Reporting Types (Unit Hierarchical Categories) that can be assigned. On the Administrator Menu, clicking the Manage Attribute Lists link takes you to a page on which both lists are managed.

Admin Us	ser	Gu	ide
	ра	age	17

		Ma	nage Attribute Lists
Unit Type: Add New Entry "Unit Type: *Allowed Sta Submit	Academic Department Academic Division Academic Croup Academic Group Academic Support Auxiliary Services Budgetary Center Centificate Program College Committee Committ	(Modify Selection)	Main Mer Reporting Type: Add New Entry *Cardinality: Subunit *Cardinality: Delete Unit Type Main Mer Modify Selection *Cardinality: Delete Unit Type

Figure 10. Manage Attribute Lists

Either or both lists can be expanded or edited on this page. For either list, clicking the Add New Entry button displays the text boxes below the table. The administrator enters text for the new Unit Type and chooses an Allowed Status (Official, Unofficial, Either) for the Unit Type attribute. Pressing the Submit button adds that new Unit Type. Alternatively, text is entered for the new Reporting Type and a number is entered for Cardinality; the Submit button adds the new Reporting Type. To edit an existing Unit Type or Reporting Type, click on the one to edit in the table list and press Modify Selection. The fields below the table are then prepopulated with the details of that value and can be edited. The Submit button then saves those changes. The Delete ... Type buttons allow the administrator to delete that value from the attribute list *only* if it is not assigned to any existing UHD unit.

Relationship to Budget Organizational Structure

The Budgetary Hierarchy was created to synchronize UHD with the hierarchy described in BUD_ORG_STRUCTURE (BOS). That hierarchy, as designed years ago, consists of exactly three levels:

- Departments (with assigned three-digit Budget Codes) report to
- Intermediate Units, which report to
- Major Units.

The latter two categories are indexed independently in BOS, but become units like all others in UHD. All units from BOS have assigned Unit Type of Budgetary and are assigned parent units in the Budgetary Hierarchy consistent with the hierarchy in BOS. This synchronization occurs nightly by downloading BOS and running an automated script that looks for changes compared to the previous import. (Often this process requires some manual curation by an OVPR administrator, as described below.)

Description of UHD BUD_ORG_STRUCTURE BUILDER Process

The UHD database is updated on a nightly schedule based on changes detected in the QUERY.BUD_ORG_STRUCTURE table on the mainframe (IMS).

The program responsible is UHDBudOrgStructureBuilder. Source code: https://svn.ovpr.uga.edu/svn/ovpr-project/UHDBudOrgStructureBuilder/ A possible bug in the program has been documented here: https://fogbugz.ovpr.uga.edu/default.asp?19113

When to add a new UHD Unit

Case #1. A Major Unit is found in BUD_ORG_STRUCTURE that has not already been mapped to a UHD Unit.

Case #2. An Intermediate Unit is found in BUD_ORG_STRUCTURE that has not already been mapped to a UHD Unit.

Case #3. A Department Unit is found in BUD_ORG_STRUCTURE that has not already been mapped to a UHD Unit.

How the UHD Unit will be created

+ The new UHD Unit will be given the Unit Type of "Budgetary"

+ The new UHD Unit will be given the same Long Name and Budgetary Name. It will be one of the following:

The Major Unit Description (Case #1) The Intermediate Unit Description (Case #2)

The Department Unit Name (Case #3)

+ The new UHD Unit will be mapped to the BUD_ORG_STRUCT unit using one of the following tables: BOS_MAJOR (Case #1)

BOS_INTR (Case #2) UNIT_BUDGET_CODES (Case #3)

 + The UHD Unit will be set to report (under the Budgetary Reporting Structure) to one of the following: UHD Unit #00001 (The University of Georgia) (Case #1) The UHD Unit Mapped to the parent Major Unit (Case #2) The UHD Unit Mapped to the parent Intermediate Unit (Case #3)

When to modify a UHD Unit

+ If the UHD Unit is already mapped to any Unit from BUD_ORG_STRUCTURE (Major, Intermediate, or Department), and the Unit is still present in BUD_ORG_STRUCTURE, do the following:

If the UHD Unit doesn't still have the "Budgetary" Unit Type, restore it.

If the Unit Name from BUD_ORG_STRUCTURE is not among the UHD Unit's names in UHD, add it (see: Add Unit Name process)

+ If the UHD Unit is already mapped to a Major Unit from BUD_ORG_STRUCTURE, and the Unit is still present in BUD_ORG_STRUCTURE, additionally do the following:

If the UHD Unit reports to a different parent unit in the Budgetary Hierarchy vs. the Administrative Hierarchy, update the Budgetary Hierarchy so that the UHD Unit now reports to the same parent unit as in the Administrative Hierarchy. + If the UHD Unit is already mapped to an Intermediate or Department Unit from BUD_ORG_STRUCTURE, and the Unit is still present in BUD_ORG_STRUCTURE, additionally do the following:

If the UHD Unit reports to a different parent unit in the Budgetary Hierarchy vs. BUD_ORG_STRUCTURE, update the Budgetary Hierarchy so that the UHD Unit now reports to the same parent unit as in BUD_ORG_STRUCTURE.

+ Prevent a UHD Unit from reporting to itself: If a UHD Unit is mapped to multiple levels of the BUD_ORG_STRUCTURE hierarchy (e.g., UHD Unit is mapped to both an Intermediate Unit and its parent Major Unit), only perform the UHD Reporting Structure modification prescribed for the highest level of BUD_ORG_STRUCTURE hierarchy found (in the previous example, only the steps for a Major Unit would be performed).

Add Unit Name process

When adding a new unit name to an existing UHD Unit:

- If the new Unit Name is already the Long Name, Budgetary Name, or a Synonym for the UHD Unit, do nothing.
- Never alter the UHD Unit's Long Name, we want to keep whatever name was entered here (often manually) previously.
- If the UHD Unit does not already have a Budgetary Name, the Unit Name being added will become the Budgetary Name.
- If the UHD Unit already has a Budgetary Name, the Unit Name being added will be added as a Synonym (of which there may be multiple per UHD Unit).

Other considerations

- On any given date, multiple UHD Units may be mapped to the same Department Unit from BUD_ORG_STRUCTURE. All such UHD Units will be updated, if need be.
- UHD Unit Names and UHD Reporting Relationships that are no longer valid are terminated by applying the present date as the End Date, per UHD timespan rules.
- UHD Units that disappear from BUD_ORG_STRUCTURE, or are otherwise not present, are not deactivated in UHD.

Appendix A. Glossary of Terms

Budget Code

The name within UHD for the "Department" 3-digit code used to identify budgets in BUD_ORG_STRUCTURE. This is to distinguish it from Unit Type = Academic Department.

Budgetary Name

The name of the UHD unit within BUD_ORG_STRUCTURE (30 characters or less).

Status Documentation

A field associated with each unit that contains a link to the approval documentation for units with Unit Status = Official (this could be required by business rule; the 2013 version of UHD has not imposed this business rule).

UHD code or UHD Unit Number

This specifically refers to the 5-digit code that indexes all units (a secondary key).

UHD role

A role that is responsible for maintaining the UHD application (potentially for a subset of units, although this is not currently implemented).

UHD unit

A term that refers to a unit within the context of the UHD system.

Unit

Usually, any grouping of people. These can be easily recognizable official academic units like Departments, Colleges, or they can be unofficial groups like Committees, Faculties. Sometimes, units may not contain people, such as budgets in the Budgetary hierarchy.

Unit Hierarchical Category

UHD maintains information on different kinds of reporting relationships. A set of these relationships is labeled a Unit Hierarchical Category (UHC), such as the Administrative hierarchy that defines the reporting relationships associated with the administrative operations of the university.

Unit Hierarchy

The set of reporting relationships within a specific Unit Hierarchical Category. For example, all the parent-child unit relationships within the Budgetary UHC would be described as the budgetary unit hierarchy (or just budgetary hierarchy).

Unit Long Name

A required field in the UHD database that "names" each unit. The Long Name is the full English name of the unit, without abbreviations. Every unit record also contains a field Budgetary Name (30-character limit), which initially holds the abbreviated name used in BUD_ORG_STRUCT for a unit defined therein. UHD also requires a Unit Short Name (30-character limit) and optionally allows the definition of multiple Synonyms to facilitate searching.

Unit Short Name

A required field in the UHD database that provides a short name (30 characters or less) for each unit. The Short Name is useful for applications that restrict the length of a name field in use in that app.

Unit Status

A field in the UHD database that defines whether a unit is "Official" or "Unofficial".

Unit Synonym

An optional set of fields in the UHD database that defines any number of synonyms for a unit. Synonyms are useful for finding units that may be referred to by acronyms, historical names or other unofficial nomenclature.

Unit Type

A field in the UHD database that describes the type(s) of each unit. For example, units can be officially recognized units like Academic Departments, Schools, Centers, Institutes, or they can be unofficial groups like Committees, Academic Groups. A unit may have multiple Unit Types; e.g., a unit could be both an Academic Department and a Budgetary unit (two simultaneous Unit Types). Each Unit Type is assigned to be associated with units with Unit Status of Official, Unofficial, or either (Appendix B).

Appendix B. Unit Types

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Possible Unit Types	Unit Status	Definition
Instructional Support	O/U	A unit that supports the instructional functions of the
		university (e.g., Division of Academic Enhancement)
Major	0	A discipline within a Degree Program (e.g., MBA in Finance)
Minor	0	A group of courses that provides students with expertise in
		an academic field other than the student's major.
Outreach/Public Service	O/U	A unit that provides public service and outreach activities
		(likely a secondary Unit Type to be assigned to many units)
Program	O/U	A non-degree granting program (e.g., Georgia Sea Grant
-		Program; Honors Program)
Research	O/U	A unit that provides research activities (likely a secondary
		Unit Type to be assigned to many units)
Research Support	O/U	A unit that supports the research functions of the university
		(e.g., Office of Research Services)
School	0	An official academic unit that may occupy the highest level
		or may report to a College; Schools normally do not have
		Academic Departments as children (e.g., Warnell School of
		Forestry and Natural Resources, Lamar Dodd School of Art)
Sophia level1	O/U	Sophia is the new application that Innovation Gateway uses
		to track technology cases (patents, licenses); it uses a two-
		level hierarchy. This unit type defines the 'parent' level
Sophia level2	O/U	and this unit type defines the 'child' level of the Sophia
		unit hierarchy.
Student Group	O/U	A group of students (e.g., Graduate Student Association)
Student Services	0	A unit that provides services to students (e.g., Counseling
		and Psychiatric Services)
Task Force	O/U	A possibly temporary unit consisting of Task Force members
		(e.g., Research Task Force)

Appendix C. Unit Hierarchical Categories

Unit Hierarchical		
Category	# of Parents	Definition
Administrative	0* or 1	This category defines what would be recognized as the organizational chart of the enterprise. It defines a hierarchy that follows employees and the units to which they report, defining the reporting structure of the university (e.g., a <i>department</i> reports to a <i>college</i> that reports to the <i>Office of the Senior Vice President for Academic Affairs and Provost</i> that reports to the <i>Office of the President</i>).
Budgetary	1	This category defines a hierarchy that follows money. In this hierarchy, parents represent budgets into which component budgets "roll up". This category is identical to the current Budgetary Organizational Structure. No Unofficial Units should be allowed to participate in the Budgetary category.
Academic (future)	0* to many	This category defines a hierarchy that follows students enrolled in programs. For example, units with Unit Type of Degree Program or Certificate Program might have a parent Unit with Unit Type of Department or School. Some Programs serve more than one parent.
OVPR_Transmittal	1	This category defines a hierarchy used to create the approval workflows for the eResearch Portal Grants proposal transmittal process. (Some schools and colleges define approval chains that digress from the Budgetary or Administrative hierarchies.)
Subunit	1	This category defines a hierarchy that describes units that are components (subunits) of other units. For example, the Office for Sponsored Programs is a subunit of OVPR, rather than "reporting to" OVPR, as is indicated by the Administrative hierarchy.
Elements	1	This category defines a hierarchy that describes units that are reflect the reporting hierarchy for faculty activity roll ups. For example, the Department of Educational Theory and Practice reports to the College of Education

*0 parents may be allowed only for UHD Units with Unit Status of Unofficial

Appendix D. UHD Web Services

Other than just browsing or searching the UHD hierarchy, the most common method of using the unit identification and hierarchy information is by system-to-system web services.

There are two types of requests you can make, and the "action" parameter in the URL tells the web service which one to do:

- action=getParentUnit
- action=getUnits

If you leave out the action parameter, it will default to "getParentUnit"

Action getUnits

When using action=getUnits, you can use the following parameters, all of which have a default value used when omitted:

- unitName : when omitted or empty string, all units are returned. defaults to empty string
- unitNameMatch : can be in (begins, contains, exact) defaults to contains
- nameType : can be in (longName, budgetaryName, synonym, all) defaults to all

Example 1: Find all UHD Units having a Long Name containing "research" https://paul.ovpr.uga.edu/UHDService/?action=getUnits&unitName=research&unitNameMatch =contains&nameType=longName

Example 2: Find all UHD Units (aka empty search) https://paul.ovpr.uga.edu/UHDService/?action=getUnits

Action getParentUnit

When using action=getParentUnit, you can use the following parameters:

- reportingType : choose which reporting structure the parent should be taken from. It defaults to "Administrative"
- unitNum: the UHD Unit ID of the child unit
- budgetCode: the budget code of the child unit

Example 1: Find the parent unit for budget unit 005 under the Budgetary Reporting Structure https://paul.ovpr.uga.edu/UHDService/?action=getParentUnit&budgetCode=005&reportingTyp e=Budgetary

or equivalently

https://paul.ovpr.uga.edu/UHDService/?budgetCode=005&reportingType=Budgetary (omits the action parameter)

Appendix E. UHD JSON Web Service

Purpose

The JSON web service provides a *complete* list of units reporting to any specified UHD unit in any specified Reporting Structure at any particular date and whether each unit is of a Unit Type specified in the web service call.

Included for each unit in the response

- UHD Unit ID
- UHD Unit Long Name
- Parent Unit UHD ID
- whether that unit is of the specified unit type
- These data for each child of the UHD Unit

Possible Uses

A subset of the UHD database can be constructed for use in other applications.

Format of JSON Call

The URL for calling the webservice would be a GET request. Following is the URL.

http://paultesting.ovpr.uga.edu/resteasy/UHDServices/UHDService/{unitID}/{reportingStructur e}/{unitType}/{date}/{unitStatus}

The URL would return a JSON response object.

The following parameters need to be provided in the URL:

UNIT ID REPORTING STRUCTURE UNIT TYPE DATE UNIT STATUS

Sample JSON Call

http://paultesting.ovpr.uga.edu/UHDHierarchy/UHDServices/UHDService/1/4/30/10.17.2014/ Official

where:

1	=UHD id of the University of Georgia (required field)
4	=foreign key of UHD reporting Structure "OVPR Transmittal" (required field)
30	=foreign key of UHD unit type "Elements Primary Group" (required field)
10.17.2014	=effective date of values in response (mm.dd.yyyy)
Official	=Select "Official" but not "Unofficial" units (required field)

NOTE:

A UHD Unit may have more than one Unit Type(s). This call will respond with the entire (Elements) Reporting Structure beginning with the parent (1) at the top. Those units in the Reporting Structure that <u>have</u> the specified Unit Type will include that Unit Type in the response. Those units in the reporting structure that do NOT have the specified Unit Type will have a null value in the Unit Type field.

Sample JSON Response

```
{
   "UHDServiceResponse":{
      "topTreeID":1,
      "topTreeName": "The University of Georgia",
      "hasChildUnits":true,
      "unitType":30,
      "childUnits":[
         {
            "treeID":2,
            "treeName": "Office of the President",
            "hasChildUnits":true,
            "parentID":1
         },
         {
            "treeID":180,
            "treeName": "Equal Opportunity Office",
            "hasChildUnits":false,
            "parentID":2
         }
      1
   },
   "childUnits":[
      {
         "treeID":181,
         "treeName": "Internal Auditing Division",
         "hasChildUnits":false,
         "parentID":2
      },
      {
         "treeID":182,
         "treeName": "Office of Legal Affairs",
         "hasChildUnits":false,
         "parentID":2
      },
      {
         "treeID":3,
         "treeName": "Office of the Senior Vice President for Academic Affair
s and Provost",
```

s",

```
"hasChildUnits":true,
"parentID":2,
"unitType":30,
"childUnits":[
   {
      "treeID":189,
      "treeName": "Academic Counseling Center for Student Athletes",
      "hasChildUnits":false,
      "parentID":3
   },
   {
      "treeID": 302,
      "treeName": "Buckhead Campus",
      "hasChildUnits":false,
      "parentID":3
   },
   {
      "treeID":12,
      "treeName": "College of Agricultural and Environmental Science
      "hasChildUnits":true,
      "parentID":3,
      "unitType":30,
      "childUnits":[
         {
            "treeID":537,
            "treeName": "ASSISTANT DEAN\/GRIFFIN CAMPUS",
            "hasChildUnits":false,
            "parentID":12
         },
         {
            "treeID":543,
            "treeName": "BAMBOO FARM CES",
            "hasChildUnits":false,
            "parentID":12
         },
         {
            "treeID":208,
            "treeName": "CAES Academic Programs Support",
            "hasChildUnits":false,
            "parentID":12
         },
         {
            "treeID":760,
            "treeName": "CAES Business Office",
            "hasChildUnits":true,
```

```
"parentID":12,
      "childUnits":[
         {
            "treeID":529,
            "treeName": "CAES BUSINESS OFFICE-CES",
            "hasChildUnits":false,
            "parentID":760
         },
         {
            "treeID":360,
            "treeName": "CAES BUSINESS OFFICE-INSTRUCT",
            "hasChildUnits":false,
            "parentID":760
         },
         {
            "treeID":404,
            "treeName": "CAES BUSINESS OFFICE-RESEARCH",
            "hasChildUnits":false,
            "parentID":760
         }
      ]
  },
       .(text deleted to simplify example response)
   {
"treeID":16,
"treeName": "College of Education",
"hasChildUnits":true,
"parentID":3,
"unitType":30,
"childUnits":[
   {
      "treeID":87,
      "treeName": "Department of Career and Information Studie
      "hasChildUnits":false,
      "parentID":16
  },
  {
       .(text deleted to simplify example response)
```

s",