



Student Lifecycle Decision Center

Product Vision

- For:* GW Decision Makers
- Who:* Desire a simple way to access, use, and understand student information
- The:* Student Lifecycle Decision Center
- Is an:* Integrated source of student data
- That:* provides easy to use information that spans multiple years and can be consumed in multiple ways (Reports, Ad hoc queries, Dashboards, etc...)
- Unlike:* SQL reports and manual spreadsheets
- This Product:* Will be easy to use, visual, automatically updated, secured, and certified

New Report:

- Summer Melt** – The BIS team created a report for the Enrollment Management & Retention team to help address the attrition of incoming first-year undergrads by identifying those who have made a deposit and indicated that they are coming in the Summer or Fall but have not completed all activities required for coming to GW. The report includes indicators such as whether they have applied for financial aid and housing, whether they have submitted their high school transcript and registered for courses. Different offices then use the report to contact students to help them complete the different requirements and avoid the “melt” of those students.

Summary Page											
Term: 2018 Summer/Fall											
Student Count	HS Transcript Flag	Housing Cancel Flag	Housing Appln Flag	Summer Cl Regist Flag	Housing Exemption Flag	Course Regist Flag	SARDAPP Req Fin Aid Ind	Pckg Req Comp Flag	PGRP Code Lock Ind	FAFSA Req Flag	CSSPRO Req Flag
3,142	3,070	13	2,831	2,693	47	83	1,951	1,920	2,473	2,033	1,879

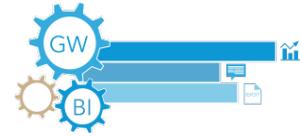
GWID	Name	Student Type	Gender	Apply Term Code	College	Decision Status	Last Decision Date	HS Transcript Receive Date	Housing Application Type	# Regist Credit Hours	# Regist Class
G306....		Transfer	F	201803	CCAS	Coming	Jun 6, 2018			9	3
G385....		Transfer	F	201803	CCAS	Coming	Jun 1, 2018	Feb 5, 2018		12	5
G499....		Transfer	F	201803	CCAS	Coming	Jan 15, 2018			16	7
G340....		First Time Freshman	F	201803	ESIA	Coming	Apr 18, 2018	Nov 30, 2017	201803-1stYear		
G455....		First Time Freshman	F	201803	ESIA	Coming	Apr 26, 2018		201803-1stYear		
G206....		First Time Freshman	M	201803	CCAS	Coming	Mar 27, 2018		201803-1stYear		
G409....		Transfer	F	201803	CCAS	Coming	Aug 28, 2017			10	3
G393....		Transfer	M	201803	CCAS	Coming	Jun 6, 2018				
G325....		First Time Freshman	F	201803	CCAS	Coming	Apr 30, 2018		201803-1stYear		
G457....		First Time Freshman	M	201803	CCAS	Coming	Apr 30, 2018				
G483....		Transfer	M	201803	CCAS	Coming	Jun 2, 2018	Feb 13, 2017			
G497....		Transfer	M	201803	GWWSB	Coming	Jun 4, 2018				
G341....		First Time Freshman	M	201803	SEAS	Coming	Jul 21, 2017				

Sample output for Summer Melt report

Additional Features for Student Lifecycle Decision Center:

- New data elements** – The student's undergraduate admissions email and underrepresented minority (URM) indicator were added to the Student dimension for use in reports and dashboards.





Census Decision Center

Product Vision

For: GW Decision Makers
Who: Desire a simple way to access, use, and understand Census Information
The: Census Decision Center
Is an: Integrated source of Census data
That: provides easy to use information that spans multiple years and can be consumed in multiple ways (Reports, Ad hoc queries, Dashboards, etc...)
Unlike: Distributed Census reports
This Product: Will be easy to use, visual, automatically updated, secured, and certified

Update:

In past releases, census data from the last five academic years has been provided by the Office of Institutional Research & Planning (IRP) and loaded into the data warehouse.

In this release, the BIS Team has been working on pulling data directly from Banner, incorporating business rules that IRP has used in the past. This continues to be a priority for both teams, ensuring that the census data is correct, timely and reliable.

Housing Decision Center

Product Vision

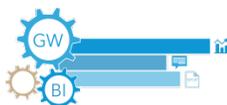
For: GW Decision Makers
Who: Desire a simple way to access, use, and understand Housing Information
The: Housing Decision Center
Is an: Integrated source of Housing data
That: provides easy to use information that spans multiple years and can be consumed in multiple ways (Reports, Ad hoc queries, Dashboards, etc...)
Unlike: Distributed reports
This Product: Will be easy to use, visual, automatically updated, secured, and certified

New Products:

- **Room Assignments [BETA]** – Student room assignments for the last 5 academic years have been brought into the data warehouse. Questions such as “how many students are in a particular building on a particular date”, “when did a student move in and move out”, “how many bedspaces are there in a building” can be answered using this fact table.

Availability:

- The BETA version is available to a select group of users in Housing.





Human Resources Decision Center

Product Vision

- For:* GW HR Decision Makers
- Who:* Desire a simple way to access, use, and understand Human Resources Information
- The:* HR Decision Center
- Is an:* Integrated source of Human Resources data
- That:* Provides easy to use information that spans multiple years and can be consumed in multiple ways (Reports, Cubes, Dashboards, etc...)
- Unlike:* SQL reports and manual spreadsheets
- This Product:* Will be easy to use, visual, automatically updated, secured, and certified

Added Features:

- **Position Classification Dimension** – Job family, sub-family and stream have been added for use in reports and dashboards

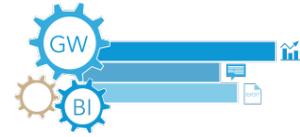
Position Class Streams Desc	Position Class	Position Class Code	Position Class Job Family Desc	Position Class Job Subfamily Desc	Position Class Level Desc
Individual Contributor	Research Scientist - Lab	RF241	Research and Labs	Laboratory Research	Level 4
Individual Contributor	Clinical Research Coordinator	RG211	Research and Labs	Laboratory Support	Level 1
Individual Contributor	Faculty Affairs Specialist	AF221	Academic Affairs	Faculty Affairs	Level 2
Individual Contributor	Construction Project Mgr II	IQ231	Facilities & Campus Ops	Construction and Development Management	Level 3
Individual Contributor	Construction Project Manager I	IQ221	Facilities & Campus Ops	Construction and Development Management	Level 2
Individual Contributor	Instructional Technologist II	BC231	Academic Technology	Academic Instructional Technology	Level 3
Individual Contributor	Athletics Operations Asc III	DC221	Athletics	Athletics Administration	Level 2
Individual Contributor	Athletics Operations Asc II	DC211	Athletics	Athletics Administration	Level 1
Individual Contributor	Asc Head Coach, Revenue Sport	DD241	Athletics	Coaching	Level 4

- **Performance Review** - Now available as a Tableau Published Data Source
- **Position Budget** – The following have been added to the model:
 - o The employee currently in the position if it is not a pooled position
 - o The count of employees currently in the position

Availability:

- Accessible to authorized users in the data warehouse and authorized power users with Tableau Desktop licenses





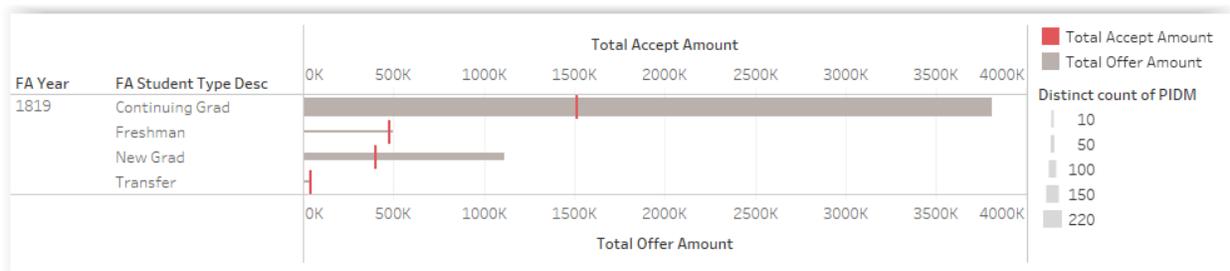
Financial Aid Decision Center

Product Vision

- For:* Enrollment Management, Financial Aid, and Schools
- Who:* Desire a simple way to access, use and understand Financial Aid data
- The:* Financial Aid Decision Center
- Is an:* Integrated source of Financial Aid data
- That:* Provides easy to use information that spans multiple years and can be consumed in multiple ways (Reports, Ad Hoc queries Dashboards, etc...)
- Unlike:* SQR Reports
- This Product:* Will be dimensional at the detail level, automatically updated, secured, and certified

Added Features:

- **Financial Aid Student Type** – With business rules provided by the Financial Aid Office, a new student type was added to more easily describe groups of students receiving financial aid.



Sample Financial Aid visualization using FA Student Type

Availability:

- Accessible to authorized users in the data warehouse.

Principal Investigators (PI) Dashboard

Product Vision

- For:* Principal Investigators
- Who:* Would like to manage their awards
- The:* PI Dashboard
- Is an:* Interactive visualization tool
- That:* Provides key information and metrics
- Unlike:* Compiling data from different sources and merging them together in spreadsheets
- This Product:* Can be accessed online or on mobile devices, is secure, and pulls data from the data warehouse

Modified Features:

- Changes were made to the logic that flags an expenditure item as “in suspense”. This has resulted in less manual intervention and hundreds of hours saved by the staff in the Office of the VP for Research.

Availability:

- Accessible to authorized users in the data warehouse.





Business Intelligence Services (BIS) Strategic Initiatives

New Dashboards:

- Faculty Teaching Credit Hours – Created for Faculty Affairs, the dashboard looks at a faculty member's teaching load and looks for issues such as overbooking.

Faculty Teaching Credit Hours

Instructions: Use filters on the right to narrow down data in the tables below. Click on the tables to see individual courses taught by instructor.

Credit Hours by Instructor by Academic Year

Academic Year	Instructor Name	Course College	FT/PT Status	Total Credit Hours Taught		As Primary Instructor		As Secondary Instructor	
				Total Credit Hours	Section Count	Total Credit Hours	Section Count	Total Credit Hours	Section Count
2017	Wintrol, John	Law School	PT	4	2	4	2		
2017	Wirtz, Philip	School of Business	FT	12	5	12	5		
2017	Wiseman, Andrew	Columbian Coll of Arts & Sci	PT	3	1	3	1		
2017	Wiseman, Michael	Columbian Coll of Arts & Sci	PT	3	1	3	1		
2017	Withers, Maida	Columbian Coll of Arts & Sci	FT	20	7	20	7		
2017	Witmer, Elizabeth	Grad Sch of Ed and Human...	PT	3	1	3	1		
2017	Woichik, Sharon	Columbian Coll of Arts & Sci	FT	15	5	15	5		
2017	Wolf, Jeanne	Columbian Coll of Arts & Sci	PT	3	1	3	1		
2017	Wolf, Michael	Columbian Coll of Arts & Sci	FT	6	2	6	2		
2017	Wolfe, Brandon	Grad Sch of Ed and Human...	PT	3	1	3	1		
2017	Wolfe, Zachary	Columbian Coll of Arts & Sci	FT	6	2	6	2		
2017	Wolson, Max	Law School	PT	4	2	4	2		

Credit Hours by Instructor by Term

Term	Instructor Name	Course College	FT/PT Status	Total Credit Hours Taught		As Primary Instructor	
				Total Credit Hours	Section Count	Total Credit Hours	Section Count
201703	Wolf, Michael	Columbian Coll of Arts & Sci	FT	3	1	3	1
201801	Wolf, Michael	Columbian Coll of Arts & Sci	FT	3	1	3	1

All Courses taught by Instructor:

Instructor Name	Academic Year	Term	Course College	Crosslist Grp	Subject Code	Course No	Section	Course	Schedule Type	Actual Enrollment	Credit Hours
Wolf, Michael	2017	201703	Columbian Coll of ..		DATS	6102	VA	Data Warehousing	Lecture	5	3
		201801	Columbian Coll of ..		DATS	6102	VA	Data Warehousing	Lecture	12	3

Academic Year (AY)
 2014
 2015
 2016
 2017
 2018

Term
 (All)
 201703
 201801

For AY and Course College, show total credit hours >= to:

For Term and Course College, show total credit hours >= to:

Course College:

Instructor Name:

Availability:

- The dashboard is available to a select group of users from Faculty Affairs.

ThoughtSpot Implementation

ThoughtSpot Upgrade:



- ThoughtSpot has been upgraded from version 4.4.0 to 4.4.1.4, delivering UI enhancements, security patches, and bug fixes.
- Full details of what's new are available here: [ThoughtSpot 4.4.1 Release Notes](#)

Learn more about ThoughtSpot: <https://www.thoughtspot.com/>





Linkurious and Neo4j Implementation



Product Vision

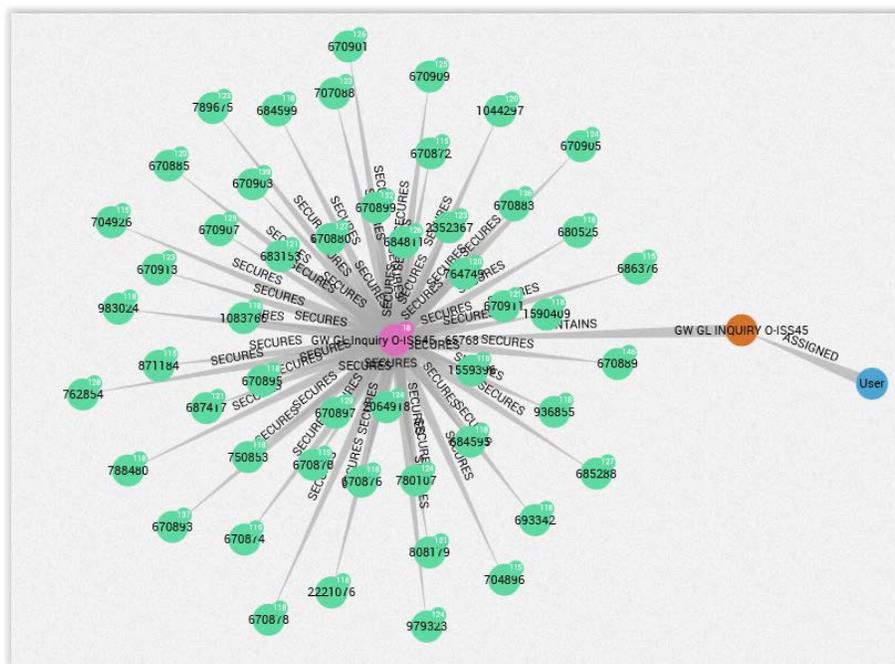
- For:* GW Faculty and Staff
- Who:* Need to understand the complex relationships and pathways between items
- The:* Plan to bring Linkurious and Neo4j into the BI environment
- Is an:* Implementation of a graph database BI tool
- That:* Allows users to understand complex relationships and path analysis in a user friendly and secure manner
- Unlike:* Our other BI tools (Cognos, Tableau, ThoughtSpot) that are used for relational databases
- This Product:* Natively reads Neo4j graph database content.

Linkurious and Neo4j were added to the Business Intelligence (BI) environment in Release 11.

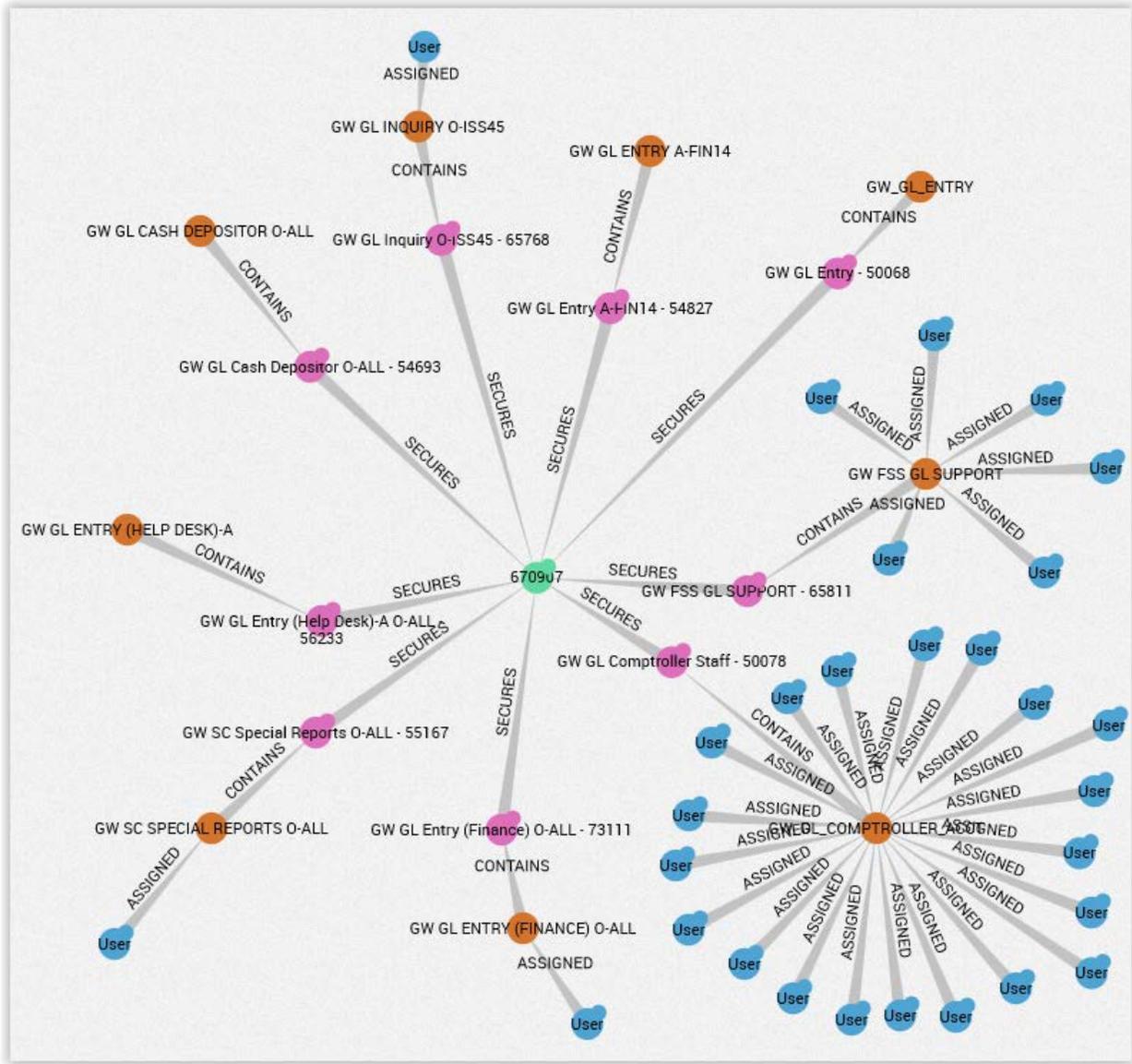
Neo4j is a NoSQL graph database management system developed by Neo Technology. Unlike traditional relational databases like Oracle or MySQL that utilize tables to store data, a graph database is intended to capture relationships between entities using nodes and edges (i.e. relationships). Today, Neo4j is used by thousands of companies and organizations in almost all industries. Use cases include matchmaking, network management, software analytics, scientific research, routing, organizational and project management, recommendations, social networks, and more.

Linkurious is graph visualization software meant to enable users to easily navigate the graph database and discover patterns in the data. Linkurious is best known for helping the International Consortium of Investigative Journalists (ICIJ) expose the connections behind the Panama Papers in 2016.

In this Release, the BIS team loaded Neo4j with how all users in the enterprise accounting system are linked to accounts. This allows questions like “what can accounts can a user see” and “who is able to see an account”?



Example: What accounts (green) can a user (blue) see?



Example: Who can see an account?
 One account (green) can be seen by 29 different users (blue) through different paths.
 Some paths (orange) do not have users (blue).

