# Academic Process Automation

# Lessons Learned with Ellucian Workflow 2.0



Chuck Mize

May 26, 2022 8:30 am. – 9:30 am.

Sam Houston State University Huntsville, Texas

# This session will provide an overview of workflow automation using Ellucian Workflow 2.0

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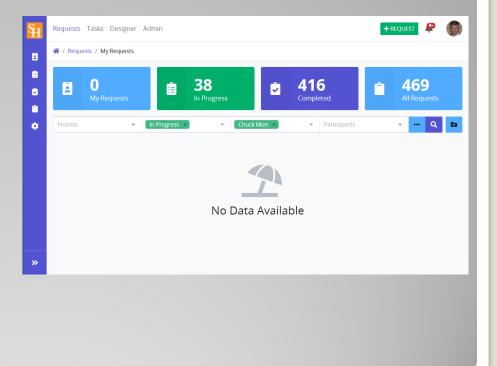




Ellucian Workflow 2.0

- ProcessMaker 4.0
- Ethos Plugin & functions
- Features
  - Low-code platform
  - Reusable
    - screens (forms)
    - scripts (triggers)







# "There is surely nothing quite so useless as doing with great efficiency what should not be done at all."

- Peter Drucker

# When to Automate





### ROUTINE

BROAD IMPACT

### WELL-DEFINED, CLEARLY UNDERSTOOD

# When to Automate



### Basic Workflow 2.0 Instance

- Electronic Forms
- Internal DB / Business Logic
- Attachments / Uploads
- Digital Signatures for forms (Docusign)

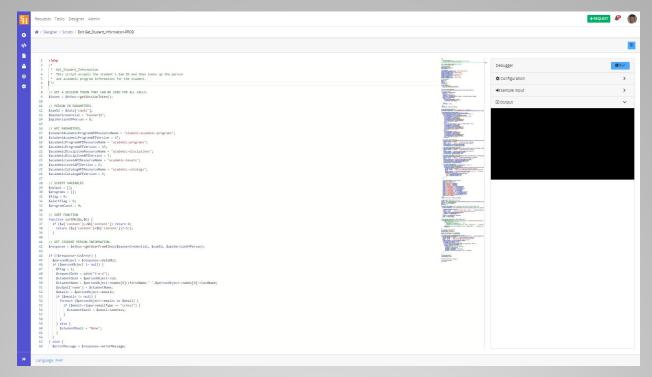
### Integrated

- SIS Data via Ethos configuration & functions
- Single Sign-On

# **Requirements - Capabilities**



# SIS data through scripted function callsReturns data per data model definitions



# **Ethos Functions**



- Primary Resources
  - Process Maker
  - Ellucian Workflow Functions
  - Ellucian Ethos APIs
  - Ellucian Communities / Workflow

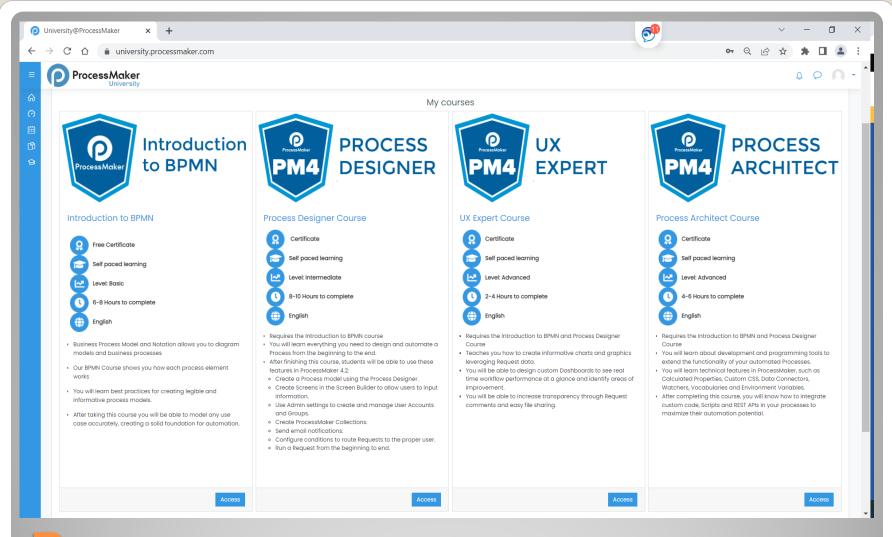
# Resources



- Workflow 2.0 functionality
  - ProcessMaker 4.0 courses
    - Introduction to BPMN
    - Process Designer
    - UX Expert
    - Process Architect
  - https://university.processmaker.com/

## **Resources** (ProcessMaker U)





## **Resources** (ProcessMaker U)



Customer Center Resources
Workflow Ethos Functions
Ethos APIs

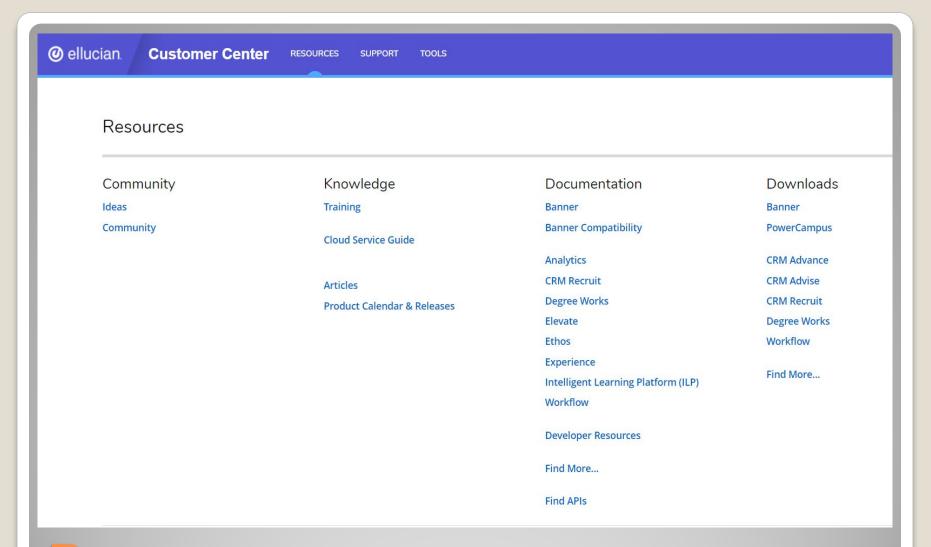




# **Workflow Ethos Functions**

# Resources

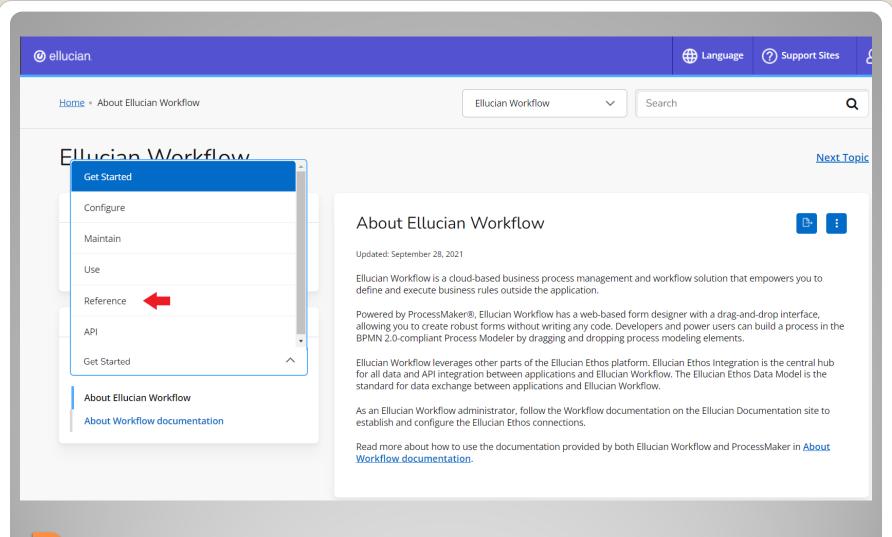






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Filters Version: 2.1.2	About Ellucian Workflow Ellucian Workflow September 28, 2021 Ellucian Workflow is a cloud-based business process management and workflow solution that empowers you to define and execute business rules outside the application.
Contents < Get Started ~ About Ellucian Workflow About Workflow documentation	Powered by ProcessMaker®, Ellucian Workflow has a web-based form designer with a drag-and-drop interface, allowing you to create robust forms without writing any code. Developers and power users can build a process in the BPMN 2.0-compliant Process Modeler by dragging and dropping process modeling elements. Ellucian Workflow leverages other parts of the Ellucian Ethos platform. Ellucian Ethos Integration is the central hub for all data and API integration between applications and Ellucian Workflow. The Ellucian Ethos Data Model is the standard for data exchange between applications and Ellucian Workflow. As an Ellucian Workflow administrator, follow the Workflow documentation on the Ellucian Documentation site to establish and configure the Ellucian Ethos connections. Read more about how to use the documentation provided by both Ellucian Workflow and ProcessMaker in <u>About</u> Workflow documentation.







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Filters Version: 2.1.2	Ellucian Workflow system Updated: May 16, 2022 Ellucian Workflow operates with the following :		·
Contents <	<b>Component</b> Ellucian Workflow	Version 2.1.2	
Ellucian Workflow system information	ProcessMaker Version	4.2.28	
Ellucian Ethos functions for Ellucian Workflow	Web Server PHP Version	nginx/1.20.2 7.4.28	



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Endelan Workhow System mornation	Prerequisite	Instructions
Workflow Include STP code token for Ellucian Ethos functions	In Ethos Integration, define all data model resources to be accessed from Ellucian Workflow in the resources list of the authoritative source applications.	<u>Banner prerequisite checklist</u> or <u>Colleague</u> prerequisite checklist
getDataModel getDataModelByFilter getDataModelByQuery	In Ethos Integration, define the Ellucian Workflow applications.	Add the Workflow application to Ethos Integration (non-STP) or Add Workflow applications to Ethos Integration (STP)
createDataModel updateDataModel deleteEthosDataModel deleteDataModel	In Ellucian Workflow, define the API key for Ellucian Workflow (copied from Ethos Integration) on the Ellucian Ethos Integration Settings page. For STP implementations, set up your STP configuration, which is the series of STP codes and API Key codes for each Workflow application.	<u>Configure the Ellucian Ethos Integration plugin</u> (non-STP) or <u>Configure the Ellucian Ethos</u> Integration plugin (STP)
findUsersByExtendedData updateExtendedUserData getExtendedUserData	Related reference	
getUserFromEthos getSessionToken	<u>Troubleshoot Workflow error messages</u>	

# **Resources** (Workflow Ethos Functions)



Language ⑦ Support Sites

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#### **FILucian Workflow** < Previous Topic Next Topic Filters getDataModel Version: Updated: September 28, 2021 2.1.2 The getDataModel function returns an Ellucian Ethos Data Model resource from Ellucian Ethos Integration as a ISON string as part of an EthosIntegrationResponseObject. Description Contents < object getDataModel(string \$resource, string \$id, mixed \$version = 0, string \$token = null getDataModel sends a GET request for the Data Model resource and \$id to Ellucian Ethos Integration to be passed to $\sim$ Reference the authoritative source application. If you specify the Data Model version, the system sets that version in the request. The system supports integer Ellucian Workflow system information versions (such as 6) in addition to semantic version strings (such as "16.0.0"). Ellucian Ethos functions for Ellucian $\sim$ Note: Some resources support alternate response schema versions (such as sections-maximum). To query version Workflow 8 of that schema, set \$resource to sections and \$version to sections-maximum, v8. Very few resources have Include STP code token for Ellucian Ethos alternate response schemas. functions Specify the **\$token** parameter depending on your site configuration: **Response objects** · Single institution (non-STP) implementations: If you specify an Ellucian Ethos session token, the system uses it in the request. Otherwise the system generates a new session token and uses it. getDataModel Shared Technology Platform (STP) implementations: The **\$token** parameter is required. This ensures the call is getDataModelByFilter routed to the right sources within your STP environment. \$token = \$ethos->getSessionToken(\$STP code); getDataModelByQuery createDataModel Parameters

# **Resources** (Workflow Ethos Functions)



H Language

⑦ Support Sites

- Workflow 2.0 Reference
  - Customer Center Resources
    - Workflow Ethos Functions
    - Ethos APIs

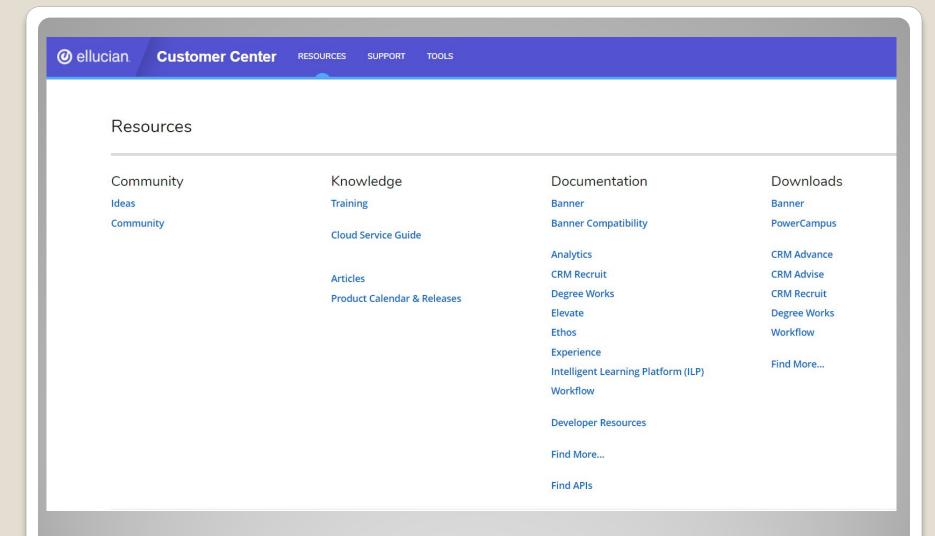




# **Ethos APIs**

# Resources







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	Ellucian IQ	~	Release Documentation		Extend	~		
			Identity	~				





Home • About the Ellucian Ethos Data Model

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#### Next Topic

Q

# Ellucian Ethos Data Model Contents Get Started Get Started

Release Documentation

Ethos Data Model Entity Reference

Quarterly releases

Versioned API calls

### About the Ellucian Ethos Data Model

Updated: February 16, 2022

The Ellucian Ethos Data Model is a single model of all of the concepts in the entire domain of higher education.

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Note: You can access the Release Notes and the Ellucian Ethos Data Model from the Contents pane drop-down.

For Ellucian Ethos Data Model-based APIs, each concept is treated as a separate entity in the model, and the same name is used by both business and technical audiences. The model is expressed in the form of JSON Schema documents that are attached to API Documentation that can be access through the <u>API Catalog</u>.

All Ellucian applications and third-party certified partner applications that use the Ethos Data Model-based APIs are required to support the Ellucian Ethos Data Model for system integration purposes.

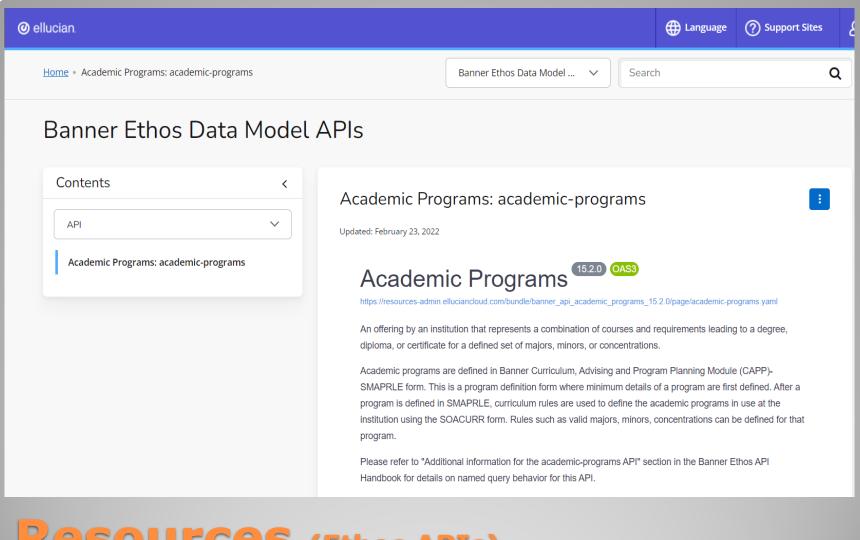
It is expected that legacy systems must adapt to the Ellucian Ethos Data Model definition and provide reasonable defaults to support existing business logic. Ellucian Ethos Integration will be used to facilitate system integration using the Ellucian Ethos Data Model.

The Ellucian Ethos Data Model identity is established by specifying an ID property following the GUID implementation. A global unique identifier (GUID) is a unique reference to an Ellucian Ethos Data Model object that allows us to uniquely identify that object across the entire Higher Education domain. Ellucian Ethos Data Model definitions are generic, designed to support global requirements, and not limited by an existing Ellucian application. All Ellucian application teams along with certified partners and customers collaborate to define and validate the definition that can be supported by each application.



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K         Page         1         of 7         >         >         Per Page:         10	✓ Total Results: 63	<b>∀</b> Filters	
Academic Programs: academic-programs         15.2.0 - Banner Ethos Data Model APIs         15.2.0 - Banner Ethos Data Model APIs         7.0.0 - Banner Ethos Data Model APIs         The Academic Programs API provides details about the offerings of an institution that represent a combination of courses and requirements leading to a degree, diploma, or certificate for a defined set of majors, minors, or concentrations.	Product  Banner  Domain  Finance		
Student Academic Programs: student-academic-programs         17.0.0 - Banner Ethos Data Model APIs         Also available in: 16.0.0 - Banner Ethos Data Model APIs       7.0.0 - Banner Ethos Data Model APIs         The Student Academic Programs API documents the academic programs in the home institution in which a prospect, applicant, current student or graduate has expressed interest in, or been enrolled. DEPRECATION NOTICE: Versions 6.0, 7.0, 11.0, and 16.0.0 have been deprecated and replaced with v17.0.0 or higher	<ul> <li>Financial Aid</li> <li>Foundation</li> <li>Student</li> </ul>		
Student Academic Programs Replacements: student-academic-programs-replacements The Student Academic Programs Replacements API is used to submit changes of academic program in the home institution in which a student is enrolled. Identification of the academic program the student is exiting and the new academic program the student is entering is required.		Release Beta General Availability	



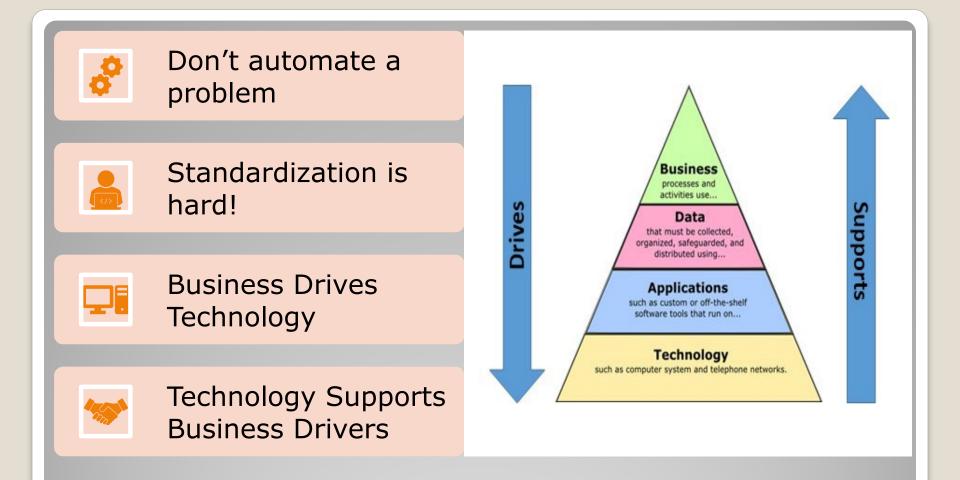




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# **Resources** (Community Workflow Forum)





# **Lessons Learned**





# **Questions? – Thoughts?**

