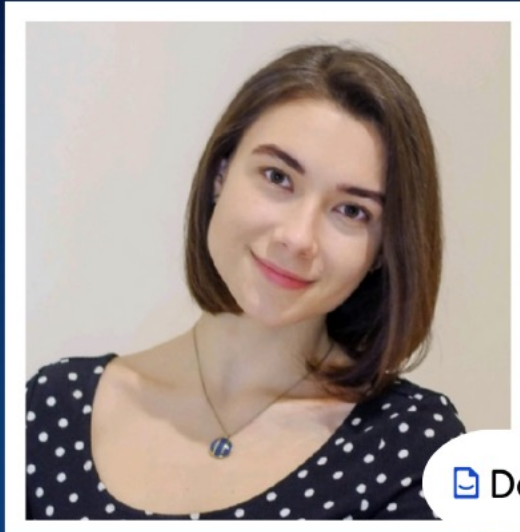


NEXT PRESENTATION

STREAMLINING PROCESSES:
AUTOMATING PIDX PRODUCT AND
COMPANY CODES



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VICE PRESIDENT OF BUSINESS
DEVELOPMENT
DOCSTUDIO

 DocStudio



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SPECIALIST
DTN



PIDX PRODUCT AND COMPANY CODES: AUTOMATING THE PROCESS



WHAT ARE THEY?

- Product identifiers used by Downstream Industry Partners.
 - Individual codes represent unique products used in the industry.

Code 1	Product definition 2	Description 3	Cetane/octane 4	Oxygenated/rbob type 5	Oxygenate percent % v 6	Additized 7	Rvp percentage 8	Regulatory oxy % 9	Voc 10	Fungible/segre (f/s) 11	Dyes 12	Sulphur content 13											Comments 14		
												Am	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	
A20	AVIATION GASOLINE		N		Y																				100/130 LOW LEAD
A21	Unbranded Aviation Gasoline 100/LL	AVIATION GASOLINE																							AVIATION GASOLINE
A25	AVIATION GASOLINE		N		Y																				100/130 HIGH LEAD
B00	FUEL ETHANOL	ALTERNATIVE FUEL - Ed79-83	A	79-83	N	7.0-9.5		N	F	N		3	N	N	N	N	N	N	N	N	N	N	N	N	Ed79-83% ETHANOL/21-17% CaRFG3 CARB E85 fuel Class 2

- Company identifiers used by Downstream Industry Partners.
 - Individual codes represent unique companies in the industry.

Code	Company name	Address	City	St	Zip	Phone
01	Stonewin LLC	333 SE 2nd Ave STE 2000	Miami	FL	33131	305.301.1178
02	J. Global Energy Inc	440 Louisiana ST, STE 1818	Houston	TX	77002	281.455.3139

PRODUCT CODES - WHAT ARE THEY?

Key Product Code elements include:

- Code: One to three character alphanumeric identifier assigned by the Downstream Subcommittee.
- Product Definition: Up to 34 character alphanumeric definition of the product.
 - IE: Regular, Gas, Unleaded Regular
- Description: Up to 120 character alphanumeric description of the product.
 - IE: Conventional Carb, RBOB-Carb
- Cetane/Octane: Numeric value of cetane or octane.
- Oxygenated/RBOB Type: A single alphanumeric character indicating if the product is oxygenated and if so, with which oxygenate.
 - If the product is an RBIB, this field also describes the type of RBOB.



COMPANY CODES - WHAT ARE THEY?

Company Code elements include:

- Code
- Company Name
- Company Address
- City
- State
- Zip/Postal Code
- Phone Number
- Contact Name
- Contact Email Address
- Date Assigned



CURRENT SOLUTION FOR REQUESTING NEW CODES


Person who wants to add a new PIDX code




PIDX-Product...022.xlsx

PIDX CODE LISTS
01-542-10-25-2014
Version: 1.06
Download Now!

New codes can be requested by filling out the attached spreadsheet and emailing a copy to **productcodes@pidx.org** or **companycodes@pidx.org**



- Downstream committee will identify the code to be assigned to the new product.
- Downstream committee will reply to you with the new code.

PIDX will update the Product Code list on the website.

DOWNSTREAM PRODUCT CODES	PIDX CODE LISTS
04-101-15-45-2010	01-542-10-25-2014
Download Now!	Version: 1.06
70 Downloads	Download Now!

CHALLENGES: PRODUCT CODES

- Terminals/Suppliers are not always consistent.
 - Established codes not used for the same product across all terminals.
 - Causes confusion if a code means something different at two separate terminals.
 - Additional work for suppliers, customers and vendors to keep their back office updated.
- Terminals/Suppliers use non-established codes.
 - Terminals/suppliers create codes at their own discretion.
 - Parties using the Product Code list from PIDX are unable to locate/identify codes being transmitted.
 - Causes additional work to determine/identify what the code is and maintain it in back office systems.

SOLUTIONS

Long Term Goals:

- Build an API – driven solution for PIDX codes.
 - Existing process is manually driven.
 - API should support a single, clarified protocol for providing key data sets to terminals.

Steps to consider for Product Codes:

- Compare codes being used by Data Clearing Houses to the master list.
- Identify codes being used by terminals/suppliers not on the master list.
 - Determine how to handle codes missing from the master list and duplicated codes.
 - Identify a plan for handling non-standard codes.
 - Further define attributes/requirements to create a code.
 - Determine if non-standard/”bad” codes can be added to the master list.

SOLUTIONS

Online Request Submission:

- Partner with DocStudio to provide online solution to request codes.
 - Online form submission
 - Form reviewed for accuracy/clarity
 - Code assigned
 - New code sent to requestor
 - List updated online with new information

 DocStudio

**Streamlining Processes:
Automating PIDX Product and Company Codes**

PIDXTM
INTERNATIONAL

Solution for receiving new PIDX Product Codes through DocStudio

Person who wants to add a new PIDX code



PIDX INTERNATIONAL

<https://pidx.org/standards/downstream/product-codes/>

Add new code!

Person directed to DocStudio to fill out the form

New PIDX Product Code Request Form

Publishing date:

Assigned Code:

* Fields marked with an asterisk are mandatory

Additional information/comment for the moderator (optional)

*PIDX Product Family Code

Code

*Product definition

*Description

Cetane/Octane (optional)

Oxygenated/RBOB type (optional)

Oxygenate percent (% volume) (optional)

Filled form will go through moderation and approval flow

Processing flow 4/4

1 - Sender	PS Form applicant 817769EF-9416-4026-84E0-997ECB9F1D8D	Assignee
2 - Moderator	PS Moderator E791BBC8-45AA-4D43-B630-D80F7962640A	Approver
3 - Moderator	PS Moderator E791BBC8-45AA-4D43-B630-D80F7962640A	Assignee
4 - PIDX Robot	PS Publisher 83BBF48F-8CE1-49F6-87B6-4C77D41D8EF5	Assignee

DocStudio now

Notification

Notify a requester that new code has been issued or rejected if error occurred.

SFTP Connection

PIDX robot pushes the data to PIDX Website SFTP and updates Excel Spreadsheet with a new code

DOWNSTREAM PRODUCT CODES

04-101-15-45-2010

Download Now!

70 Downloads

PIDX API

PIDX robot push the data to PIDX API



api.pidx.org

How the process looks like from requester side?



How to request a New PIDX Downstream Product Code?

Moderation

PS Moderator E791...640A

Mailbox

New envelope

Subject, envelope UUID

Status Period Sender Template

Add filters

<input type="checkbox"/>	Subject	Template	Stage	Status	Sender	Receive date ↓
<input type="checkbox"/>	New PIDX Codes Request Form Please fill the form to add new PIDX code	New PIDX Codes Request Form	1/4 Exp in a month	WAITING FOR YOU	PS Form applica...	8 hours ago
<input type="checkbox"/>	New PIDX Codes Request Form Please fill the form to add new PIDX code	New PIDX Codes Request Form	1/4 Exp in a month	WAITING FOR YOU	PS Form applica...	9 hours ago
<input type="checkbox"/>	New PIDX Codes Request Form Please fill the form to add new PIDX code	New PIDX Codes Request Form	1/4 Exp in a month	WAITING FOR YOU	PC PIDX Confere...	21 hours ago
<input type="checkbox"/>	New PIDX Codes Request Form Please fill the form to add new PIDX code	New PIDX Codes Request Form	2/4 Exp in 22 days	WAITING FOR YOU	PS Form applica...	8 days ago
<input type="checkbox"/>	New PIDX Codes Request Form Please fill the form to add new PIDX code	New PIDX Codes Request Form	1/4 Exp in 21 days	WAITING FOR YOU	PS Form applica...	9 days ago
<input type="checkbox"/>	New PIDX Codes Request Form Please fill the form to add new PIDX code	New PIDX Codes Request Form		COMPLETED	KP Kris Pronske	9 days ago
<input type="checkbox"/>	New PIDX Codes Request Form Please fill the form to add new PIDX code	New PIDX Codes Request Form		COMPLETED	EM elena mereanu	9 days ago
<input type="checkbox"/>	New PIDX Codes Request Form Please fill the form to add new PIDX code	New PIDX Codes Request Form		CANCELLED	EM elena mereanu	9 days ago
<input type="checkbox"/>	New PIDX Codes Request Form Please fill the form to add new PIDX code	New PIDX Codes Request Form	1/4 Exp in 15 days	WAITING FOR YOU	PS Form applica...	15 days ago
<input type="checkbox"/>	New PIDX Codes Request Form Please fill the form to add new PIDX code	New PIDX Codes Request Form		COMPLETED	PS Form applica...	17 days ago

Customize view

Go to page: Go Items per page 20 1 - 20 of 28

Moderation

Moderator (E791...64DA) | Envelope view | Close | **Approve** | Reject

ENVELOPE DETAILS
NEW PIDX CODE REQUEST F...

New PIDX Codes Request Form (8 hours ago)
Form applicant: 817769EF-9416-4026-84E0-997ECB9F1D8D

Message
Please fill the form to add new PIDX code

Processing flow (1/4)

- 1 - Sender: Form applicant (817769EF-9416-4026-84E0-997ECB9F1D8D) [Assignee]
- 2 - Moderator: Moderator (E79188C8-45AA-4D43-8630-D80F796264DA) [Approver]
- 3 - Moderator: Moderator (E79188C8-45AA-4D43-8630-D80F796264DA) [Assignee]
- 4 - Publisher: Publisher (838BF48F-8CE1-49F6-87B6-4C77D41D8EF5) [Assignee]

New label: +

New PIDX Code Request Form

Publishing date:
date

Assigned Code:
Duplicate 1

Moderator (E791...64DA) | Envelope view | Close

ENVELOPE DETAILS
NEW PIDX CODE REQUEST F...

New PIDX Code Request Form

Publishing date:
date

Assigned Code: ABZ

New PIDX Product Code Request Form

* Fields marked with an asterisk are mandatory
Additional information/comment for the moderator (optional)
I NEED THIS CODE ASAP. THANKS!

*PIDX Product Family Code
B - FUEL ETHANOL
If you are not sure about the PIDX Product Family Code, please select the option "Unsure" and provide additional information:

Code
ABZ
A one to three character alphanumeric product code assigned by the Downstream Subcommittee

*Product definition
FUEL ETHANOL
Up to a 34 character alphanumeric definition of the product. Examples of acceptable values for gasolines are: REGULAR GASOLINE, UNLEADED REGULAR, UNLEADED REGULAR BLEND TO UNL.MIDG

*Description
ALTERNATIVE FUEL - Ed79-83
Up to a 120 character alphanumeric description of the product. Examples of acceptable values for gasolines are: CONVENTIONAL, CONVENTIONAL-CARB, RFG, RFG-CARB, RBOB, RBOB-CARB

Cetane/Octane (optional)
The numeric value of the cetane or octane.

Oxygenated/RBOB type (optional)
A
A single alphanumeric character indicating if the product is oxygenated and if so, with which oxygenate. Additionally, if the product is an RBOB this field describes the type of RBOB. Acceptable values and definitions are: A=ethanol, B=any renewable oxygenate, E=ether, M=MTBE, N=None, O=any oxygenate, R=ETBE (any renewable), S=refiner specified, T=TAME

Oxygenate percent (% volume) (optional)
79-83
Percent of oxygenate (when chosen to field 83 volume)

PIDX robot updates the Product Code list on the website via SFTP connection and push the data to PIDX API

PIDX Robot 356A...3781 Manage dictionaries

Import Export Close

PIDX Downstream Product Codes

Description: PIDX, Inc Document ID: 04-101-15-45-2010. Filename:PIDX-ProductCodes: 03_06_2023.xlsx
UUID: 4152C875-A2FD-4935-AAC8-1B09D13B1CA6

Code 1	Product definition 2	Description 3	Cetane/octane 4	Oxygenated/rob type 5	Oxygenate percent % v 6	Additized 7	Rvp percentage 8	Regulatory oxy % 9	Voc 10
1	A21	Unbranded Aviation Gasoline 100/LL							
2	A20	AVIATION GASOLINE		N		Y			
3	B00	FUEL ETHANOL		A	79-83	N	7.0-9.5		N
4	A25	AVIATION GASOLINE		N		Y			
5	B01	FUEL ETHANOL		A	85	Y			
6	B02	FUEL ETHANOL		A	80	Y			
7	B03	FUEL ETHANOL		A	75	Y			
8	B04	FUEL ETHANOL		A	70	Y			
9	B05	FUEL ETHANOL		A	85	Y			
10	B06	FUEL ETHANOL		A	80	Y			
11	B07	FUEL ETHANOL		A	75	Y			
12	B09	FUEL ETHANOL		A	85	Y			N
13	B08	FUEL ETHANOL		A	30	Y			N

Go to page: [] Go Items per page: 20 1 - 20 of 3851



DOWNSTREAM PRODUCT CODES

04-101-15-45-2010

Download Now!

70 Downloads



PIDX
INTERNATIONAL

Google Cloud

api.pidx.org

ROADMAP: AUTOMATION OF PIDX PRODUCT AND COMPANY CODES

01



REQUEST = IDEA

OCTOBER, 2022

Kris Pronske's Presentation at the PIDX Fall Conference about PIDX Product Codes

02



SOLUTION PROTOTYPE

NOVEMBER, 2022

The DocStudio Team and Kris Pronske collaborated to create a prototype solution for automating the PIDX Codes request process

03



DEVELOPMENT

DEC-FEB, 2023

- Developed a Form Template and flow
- Conducted a demonstration on the PIDX Webinar
- Tested with PIDX Downstream WorkGroup and Code Lists Users
- Made improvements based on expert feedback

04



TECHNICAL INTEGRATIONS

MAR-APR, 2023

- SFTP integration with PIDX Website to update Excel Spreadsheet with a new code
- Publish the data to PIDX API

05



PRODUCTION & ONBOARDING

MAY-JUN, 2023

- Production stage
- User Onboarding

06



PIDX COMPANY CODES

JUN-AUG, 2023

Automate the process of requesting new PIDX Company Codes based on the experience with Product Codes

PIDX Downstream Company Codes

PS Form applicant 8177...1D8D Draft creation Close Save draft PS

← NEW PIDX COMPANY CODE ...

New PIDX Company Code Request Form

New PIDX Company Code Request Form

Message

Please fill the form to add new PIDX Company code

Processing flow 0/4

- 1 - Sender **Form applicant** 817769EF-9416-4026-84E0-997ECB9F1D8D Assignee
- 2 - Moderator **Moderator** E791BBC8-45AA-4D43-B630-D80F7962640A Approver
- 3 - Moderator **Moderator** E791BBC8-45AA-4D43-B630-D80F7962640A Assignee
- 4 - PIDX Robot **Publisher** 83BBF48F-8CE1-49F6-87B6-4C77D41D8EF5 Assignee

Your envelope will expire in days. Notify the user days before envelope expired.

Delegation is denied Do not send files by email

New PIDX Company Code Request Form

Publishing date:

New PIDX Company Codes Request Form

Code	Company Name	Address	City	State	ZIP	Phone
C...	<input type="text" value="Company Name"/>	<input type="text" value="Address"/>	<input type="text" value="City"/>	<input type="text" value="State"/>	<input type="text" value="ZIP"/>	<input type="text" value="Phone"/>

NEXT

PIDX Downstream Company Codes

PS Form applicant 8177...1D8D Draft creation Close Save draft

New PIDX Company Code Request Form

ENVELOPE DETAILS

NEW PIDX COMPANY CODE ...

Publishing date: Date

New PIDX Company Codes Request Form

Code	Company Name	Address	City	State	ZIP	Phone
C...	Retail Content Service Inc.	12001 Research Parkway, STE 276	Orlando	FL	32826	+1(980) 920-9593

SEND

Benefits of automating request of New PIDX Product and Company Codes:

- **Increased efficiency:** Automating the request process reduces the time and effort required to complete each request, freeing up resources for other important tasks.
- **Greater accuracy:** By using a standardized and automated process, the likelihood of errors or inconsistencies in the request is greatly reduced.
- **Improved communication:** The use of a centralized platform helps to streamline communication between requestors and PIDX administrators, ensuring a smooth and efficient process.
- **Enhanced tracking and reporting:** The automated process enables real-time tracking, providing greater visibility into the overall process.
- **Scalability:** The automated process easily accommodates an increasing volume of requests as the PIDX community grows.



DocStudio

