PIDX PRODUCT AND COMPANY CODES

WHAT ARE THEY? WHY ARE THEY IMPORTANT?
WHAT ARE THEY?

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

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</table>

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

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

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.
CHALLENGES

- 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:
  ■ 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
Proposed Solution for receiving new codes by DocStudio

Person, who wants to add a new PIDX code

Person redirected to DocStudio to fill the form

Filled form go through moderation and approval flow

Processing flow

1. Sender
   - Form applicant
   - Assignee

2. PIDX Robot
   - PIDX robot
   - Assignee

3. Moderator
   - Moderator
   - Assignee

4. Publisher
   - Publisher
   - Assignee

PIDX update the Product Code list on the website.

Manual approach

API Approach

PIDX robot push the data to PIDX API

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

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

Person redirected to DocStudio to fill the form

Filled form go through moderation and approval flow
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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<tbody>
<tr>
<td>ID</td>
<td></td>
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<td><strong>A</strong></td>
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<td>Comments</td>
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<td>Date Code</td>
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<td>Requester</td>
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<tr>
<td>Company</td>
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<tr>
<td>Date Requested</td>
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</table>
New PIDX Company Code Request Form

Please fill the form to add new PIDX codes.

Processing Flow:

1. Sender
   - PIDX robot
   - PIDX moderator
   - PIDX publisher

Your envelope will be expired in 30 days. Notify user 3 days before envelope expired.

Deny delegation

New PIDX Company Code Codes Request Form

<table>
<thead>
<tr>
<th>Code</th>
<th>Company Name</th>
<th>Address</th>
<th>City</th>
<th>State</th>
<th>ZIP</th>
<th>Phone</th>
</tr>
</thead>
</table>

Record UUID: [UUID]
Publishing date: [Date]
After person filled all fields, form is sent to PIDX Robot to assign record UUID.
As a next step send for moderation
Moderator can either Approve or Reject the form with a comment
After successful moderation all the data published in the internal DocStudio PIDX Product Codes List Dictionary

<table>
<thead>
<tr>
<th>Code</th>
<th>Product Definition</th>
<th>Description</th>
<th>Octane/Octane</th>
<th>Oxygenated / RDB Type</th>
<th>Oxygenated Percent (%)</th>
<th>Added</th>
<th>RVP Percentage</th>
<th>Regulatory OXY %</th>
<th>VOD</th>
<th>Runkle / Song [F..]</th>
<th>Dyn 12</th>
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<tbody>
<tr>
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PIDX robot update the Product Code list on the website and push the data to PIDX API.
Standardized codes provide:

- **Consistency**: Product code identifies the same product for all terminals/suppliers/customers.

- **Repeatability**: Product code can be used across multiple terminals/suppliers to represent one product being loaded.

- **Transparency/clarity of product definitions**: No guessing what product was actually loaded.

- **Improves business process efficiencies**.
  - Fewer exceptions to be processed manually in your back office.
  - Increased productivity.
  - Reduced costs.

- **Better data exchange**.
  - Information passing between partners is consistent.
Q & A
Thank You!

Kris Pronske,
Senior Implementation Specialist,
DTN
Kris.Pronske@dtn.com

Alisa Konchenko
VP of Business Development,
DocStudio
ae@docstudio.com

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