

Hoover's Dun & Bradstreet Direct 2.0 Data

Installation guide

Add Hoover's Dun & Bradstreet Direct 2.0 Data to your Build On Application list in your Application rule.

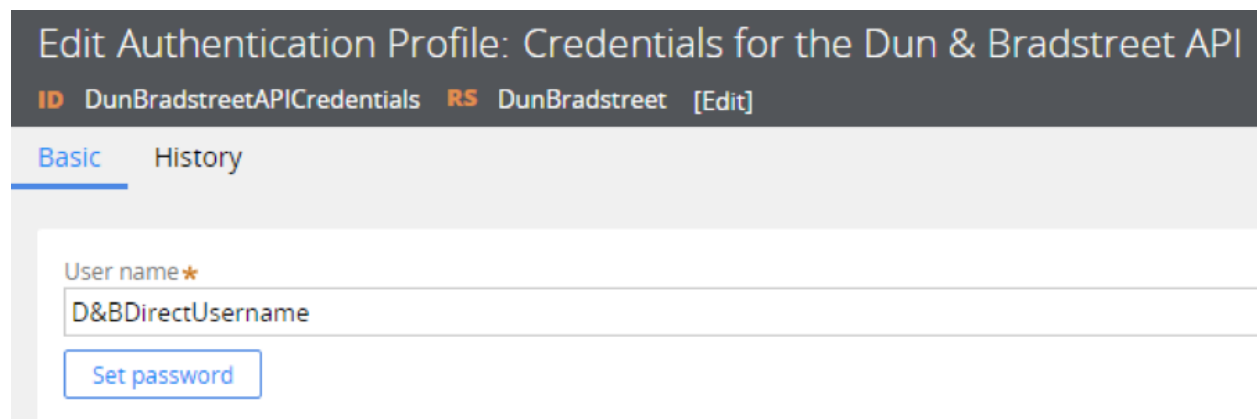
D&B Direct account

In order to make use of this component, you will need a D&B direct account. If you have an account you can skip this step. If not visit <https://developer.dnb.com/register-v2> and register for a sandbox account. You can also follow the instructions on that page to connect with a sales representative and set up a production service trial or upgrade to a production account.

Enter your credentials

Once you have a D&B direct account they will provide you API credentials. Please note that the password is the same as the one entered on the online form but they will provide you with a unique, generated username.

To get the component working, open the authentication profile named "DunBradstreetAPICredentials" and replace the username and password with your API credentials:

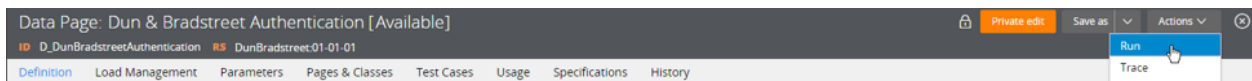


The screenshot shows a web interface for editing an authentication profile. The title bar reads "Edit Authentication Profile: Credentials for the Dun & Bradstreet API". Below the title bar, there is a breadcrumb trail: "ID DunBradstreetAPICredentials RS DunBradstreet [Edit]". The interface has two tabs: "Basic" (selected) and "History". Under the "Basic" tab, there is a form with a "User name" field containing the text "D&BDirectUsername" and a "Set password" button.

Testing

If you want to run a simple test to ensure you entered the credentials properly, open the data page “D_DunBradstreetAuthentication”. D&B Direct requires we contact their authentication API to obtain an access token and then pass that access token instead of your credentials with each other API call. The component handles this for you but this data page is used to obtain the access token.

If you run the data page as follows:



The response should contain “AuthenticationDetail” with a token inside like this:

Results

Property	Value
pxObjClass	Int-DunBradstreet-Authentication
pzPageNameBase	D_DunBradstreetAuthentication
▼ AuthenticationDetail	
Token	[REDACTED]
pxObjClass	Int-DunBradstreet-AuthenticationDetail
▶ TransactionDetail	
▶ TransactionResult	
▶ pySourcePage	

If you don't see that then the credentials were entered incorrectly. Please note that 3 incorrect attempts on a username will cause D&B Direct to lock your account and you will need to contact their customer service to get it unlocked.

Please note that you don't need to run this data page normally. The component completely handles obtaining an access token and using it. This is just a simple one-off connectivity test for convenience.

How to use this component

Once you have successfully installed the component then you are ready to use D&B direct data in your Pega application.

Begin by looking at Data on the "Cases & Data" tab of the component's application rule. These are the business data assets available for use in your application. You should add the ones you want to use as data types on your own application.

To use the data in your application's cases, decision strategies, business rules, etc. you should use the data pages included in the component. For an overview of data pages, how to use them and where to use them please visit the PDN (<https://pdn.pega.com/understanding-data-pages/understanding-data-pages>)

Included data pages

Here is a list of the data pages included in this component and the D&B Direct data each provides access to. For each API the version used is listed

- Available Product List (D_AvailableProductList)
 - *List of available data products for a given organization.*
 - Data type: Available Product List (Data-BusInt-AvailProdList)
 - Parameters
 - OrganizationID – D&B's unique identification number (DUNS) of an organization
 - D&B Direct APIs accessed
 - Product Availability - <https://docs.dnb.com/direct/2.0/en-US/productcatalog/latest/listavailableproduct/rest-API> (V2.2)
- Company Data (D_CompanyData)

- *A company data product such as profile, diversity indicators, corporate linkage, news, etc. for a given organization*
- Data type: Company Data (Data-BusInt-CDProduct)
- Parameters
 - OrganizationID – D&B's unique identification number (DUNS) of an organization
 - ProductID – Unique product ID from: DCP_STD, DCP_ENH, DCP_PREM, DVR_STD, DVR_ENH, LNK_UPF, LNK_FF, NEWS_MDA, DCP_SDMR, DCP_WB1784
- D&B Direct APIs accessed
 - Detailed Company Profile
- <https://docs.dnb.com/direct/2.0/en-US/firmographic/latest/orderproduct/marketing-rest-API> (V6.0)
 - Diversity Indicators - <https://docs.dnb.com/direct/2.0/en-US/firmographic/latest/orderproduct/diversity-rest-API> (V6.0)
 - Corporate Linkage - <https://docs.dnb.com/direct/2.0/en-US/linkage/latest/orderproduct/linkage-rest-API> (V4.0)
 - News and Social Media
- <https://docs.dnb.com/direct/2.0/en-US/newsandmedia/latest/orderproduct/news-rest-API> (V3.0)
 - SDMR Single Record
- <https://docs.dnb.com/direct/2.0/en-US/firmographic/latest/orderproduct/sdmr-rest-API> (V6.0)
 - WB1784 Single Record
- <https://docs.dnb.com/direct/2.0/en-US/firmographic/latest/orderproduct/wb1784-rest-API> (V6.0)
- Company Data Report (D_CompanyDataReport)
 - *A company data report product such as business background report, comprehensive report, etc. for a given organization*

- Data type: Company Data Report (Data-BusInt-CDRProduct)
- Parameters
 - OrganizationID – D&B's unique identification number (DUNS) of an organization
 - ProductID – Unique product ID from: BIR, BBR, COMPR, CPTR
 - Format - Report format (text/html/pdf)
- D&B Direct APIs accessed
 - Business Information Report
- <https://docs.dnb.com/direct/2.0/en-US/report/latest/ordercompanyreport/bir-rest-API> (V3.2)
 - Business Background Report
- <https://docs.dnb.com/direct/2.0/en-US/report/latest/ordercompanyreport/bbr-rest-API> (V3.2)
 - Comprehensive Report
- <https://docs.dnb.com/direct/2.0/en-US/report/latest/ordercompanyreport/cmprhnsv-rest-API> (V3.2)
 - Compact Report - <https://docs.dnb.com/direct/2.0/en-US/report/latest/ordercompanyreport/cmpct-rest-API> (V3.2)
- Compliance (D_Compliance)
 - *A compliance product such as identity verification for the USA Patriot Act, ownership verification, etc. for a given organization*
 - Data type: Compliance (Data-BusInt-CProduct)
 - Parameters
 - OrganizationID – D&B's unique identification number (DUNS) of an organization
 - ProductID – Unique product ID from: PAC_PLUS, SMPL_OWNSHP, GBO, KYC
 - D&B Direct APIs accessed
 - USA Patriot Act Plus
- <https://docs.dnb.com/direct/2.0/en->

[US/firmographic/latest/orderproduct/patriot-act-rest-API](https://docs.dnb.com/direct/2.0/en-US/firmographic/latest/orderproduct/patriot-act-rest-API) (V6.0)

- Ownership Verification
- <https://docs.dnb.com/direct/2.0/en-US/custom/latest/orderproduct/compliance-ownership-rest-API> (V3.0)
- Know Your Customer
- <https://docs.dnb.com/direct/2.0/en-US/custom/latest/orderproduct/compliance-screening-rest-API> (V3.0)
- Compliance Report (D_ComplianceReport)
 - *A compliance report product such as an electronic credit file for a given organization*
 - Data type: Compliance Report (Data-BusInt-CRProduct)
 - Parameters
 - OrganizationID – D&B's unique identification number (DUNS) of an organization
 - Format - Report format (text/html/pdf)
 - *Implied* – ProductID (currently ECF is the only supported compliance report product)
 - D&B Direct APIs accessed
 - Electronic Credit File
- <https://docs.dnb.com/direct/2.0/en-US/report/latest/ordercompanyreport/compliance-ecf-rest-API> (V3.2)
- Corporate Identity (D_CorporateIdentity)
 - *On demand entity resolution and address cleanse & update. Simply put, provide any known information about the business and the rest will be fixed and filled in*
 - Data type: Data-BusInt-CorpID
 - Parameters
 - CountryISOAlpha2Code - The two-letter country code, defined in the ISO 3166-1 scheme

- *Many optional parameters for name and address data of entity. Please go to the data page for all optional parameters and descriptions*
 - D&B Direct APIs accessed
 - On-Demand Address Cleanse & Update
- <https://docs.dnb.com/direct/2.0/en-US/company/latest/standardize/rest-API> (V5.0)
- Corporate Identity List (D_CorporateIdentityList)
 - *On demand entity identification with the option to do entity resolution and an address cleanse & update first*
 - Data type: Corporate Identity List (Data-BusInt-CorplDList)
 - Parameters
 - CleanseFirst - Cleanse data before matching
 - MatchTypeText - Nature of match - SBRI; Advanced; Basic (default)
 - *Many optional parameters for business identification information. Please go to the data page for all optional parameters and descriptions*
 - D&B Direct APIs accessed
 - On-Demand Entity Identification
- <https://docs.dnb.com/direct/2.0/en-US/company/latest/match/rest-API> (V5.0)
 - On-Demand Single Entity Resolution
- <https://docs.dnb.com/direct/2.0/en-US/company/latest/getcleansematch/rest-API> (V5.0)
- Financial Overview (D_FinancialOverview)
 - *A financial overview product such as financial highlights and statements for a given organization*
 - Data type: Financial Overview (Data-BusInt-FOPProduct)
 - Parameters
 - OrganizationID – D&B's unique identification number (DUNS) of an organization
 - ProductID – Unique product ID from: FIN_HGLT, FIN_ST_PLUS
 - D&B Direct APIs accessed

- Financial Highlights and Statements
- <https://docs.dnb.com/direct/2.0/en-US/financial/latest/orderproduct/financial-rest-API> (V3.1)
- Legal Records (D_LegalRecords)
 - *A legal records product such as suits, liens, judgments, bankruptcies, etc. for a given organization*
 - Data type: Legal Records (Data-BusInt-LRProduct)
 - Parameters
 - OrganizationID – D&B's unique identification number (DUNS) of an organization
 - ProductID – Unique product ID from: PUBREC_DTLS , PUBREC_SUITS, PUBREC_LIENS, PUBREC_JDG, PUBREC_UCC, PUBREC_BR
 - D&B Direct APIs accessed
 - Suits - <https://docs.dnb.com/direct/2.0/en-US/publicrecord/latest/orderproduct/suit-rest-API> (V3.0)
 - Liens - <https://docs.dnb.com/direct/2.0/en-US/publicrecord/latest/orderproduct/lien-rest-API> (V3.0)
 - Judgments - <https://docs.dnb.com/direct/2.0/en-US/publicrecord/latest/orderproduct/judgment-rest-API> (V3.0)
 - Bankruptcies - <https://docs.dnb.com/direct/2.0/en-US/publicrecord/latest/orderproduct/bankruptcy-rest-API> (V3.0)
 - UCC Filings - <https://docs.dnb.com/direct/2.0/en-US/publicrecord/latest/orderproduct/ucc-rest-API> (V3.0)
 - Ownership/Registrations
- <https://docs.dnb.com/direct/2.0/en-US/publicrecord/latest/orderproduct/ownership-rest-API> (V3.0)
- Ratings (D_Ratings)
 - *A ratings product such as credit ratings, supplier risk, etc. for a given organization*
 - Data type: Ratings (Data-BusInt-RProduct)

- Parameters
 - OrganizationID – D&B's unique identification number (DUNS) of an organization
 - ProductID – Unique product ID from: RTNG_TRND, SER, VIAB_RAT
- D&B Direct APIs accessed
 - D&B Rating & Trend
- <https://docs.dnb.com/direct/2.0/en-US/assessment/latest/orderproduct/rating-rest-API> (V5.0)
 - D&B Supplier Evaluation Risk Rating
- <https://docs.dnb.com/direct/2.0/en-US/assessment/latest/orderproduct/ser-rest-API> (V5.0)
 - D&B Viability Rating
- <https://docs.dnb.com/direct/2.0/en-US/assessment/latest/orderproduct/viability-rest-API> (V5.0)
- Small Business (D_SmallBusiness)
 - *A small business product such as FICO score profile for a given organization*
 - Data type: Ratings (Data-BusInt-SBProduct)
 - Parameters
 - OrganizationID – D&B's unique identification number (DUNS) of an organization
 - *Implied* - ProductID (currently SBCRP is the only supported small business product)
 - D&B Direct APIs accessed
 - Small Business Company & Owner Risk Profile
- <https://docs.dnb.com/direct/2.0/en-US/assessment/latest/orderproduct/fico-rest-API> (V5.0)
- Stress Predictor (D_StressPredictor)
 - *A stress predictor product such as Predictive Risk, Financial Stress Score, EMMA Score, etc. for a given organization*
 - Data type: Ratings (Data-BusInt-SPPProduct)
 - Parameters

- OrganizationID – D&B's unique identification number (DUNS) of an organization
 - ProductID – Unique product ID from: PBPR_STD, PBPR_ENH, PBR_FSS_V7.1, PPR_CCS_V9, PGPR_EMMA, TP_STD, TP_ENH, TP_PREM, TLP
- D&B Direct APIs accessed
 - Predictive Bankruptcy & Payment Risk - <https://docs.dnb.com/direct/2.0/en-US/assessment/latest/orderproduct/predictive-rest-API> (V5.0)
 - Predictive Bankruptcy Risk - D&B Financial Stress Score (FSS) - <https://docs.dnb.com/direct/2.0/en-US/assessment/latest/orderproduct/fss-rest-API> (V5.0)
 - Predictive Payment Risk - D&B Commercial Credit Score (CCS) - <https://docs.dnb.com/direct/2.0/en-US/assessment/latest/orderproduct/ccs-rest-API> (V5.0)
 - Predictive Global Payment Risk - D&B Emerging Market Mediation Alert Score (EMMA) - <https://docs.dnb.com/direct/2.0/en-US/assessment/latest/orderproduct/emma-rest-API> (V5.0)
 - D&B Triple Play - <https://docs.dnb.com/direct/2.0/en-US/assessment/latest/orderproduct/tripleplay-rest-API> (V5.0)
 - D&B Total Loss Predictor - <https://docs.dnb.com/direct/2.0/en-US/assessment/latest/orderproduct/tlp-rest-API> (V5.0)
- Top Competitors List (D_TopCompetitorsList)
 - *A list of top competitors for a given organization*
 - Data type: Top Competitor List (Data-BusInt-TopCompList)
 - Parameters
 - OrganizationID – D&B's unique identification number (DUNS) of an organization
 - D&B Direct APIs accessed

- Find Competitors - <https://docs.dnb.com/direct/2.0/en-US/entitylist/latest/findcompetitor/rest-API> (V6.3)
- Trade Payment (D_TradePayment)
 - *A trade payment product such as Payment summary and payment details for a given organization*
 - Data type: Trade Payment (Data-BusInt-TPProduct)
 - Parameters
 - OrganizationID – D&B's unique identification number (DUNS) of an organization
 - ProductID – Unique product ID from: PI_DTL, PIAP_STD, PIAP_ENH, PIAP_PREM
 - D&B Direct APIs accessed
 - Payment Information – Detail - <https://docs.dnb.com/direct/2.0/en-US/tradedetail/latest/orderproduct/dtri-rest-API> (V4.0)
 - Payment Information & Paydex (Rating) – Detail - <https://docs.dnb.com/direct/2.0/en-US/tradedetail/latest/orderproduct/current-rest-API> (V4.0)