

Dun and Bradstreet Connector 1.0

User Guide

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Overview

Connectors are simple, data point connections to external SaaS providers, that are used to enrich internal customer data to help in onboarding and risk decision scenarios. API Connectors gather data from a collection of REST APIs with the purpose of merging them into a cloud-based data storage system. This process gives the possibility of filtering and transforming data into a proper format or structure for the purposes of querying and analysis.

FintechOS offers the possibility of accessing different databases with the purpose of moving around specific data using API connectors. They can be used but are not limited to banking or insurance business scenarios, in a loan origination operation, to automatically retrieve and fill-in financial data, and so on. In addition, connectors can have a significant role in the SME onboarding process by providing easy access to databases where the needed information is stored.

Dun and Bradstreet is an American corporation that provides information on commercial credit. They also provide data regarding business reports and, most importantly, their Data Universal Numbering System or DUNS numbers. A DUNS number identifies a company's Dun & Bradstreet business credit file, that includes company data, such as name, address, phone number, but also corporate family relationships, like headquarters, branches, subsidiaries. In addition, scores and ratings that assess different financial health indicators are available.

The FintechOS Dun and Bradstreet Connector offers financial institutions an elaborate overview on businesses through corporate analysis, insights, and analytics. Once integrated in a digital journey, the API connector can be used to search and retrieve the following data:

- Company matches in the Dun and Bradstreet database through the [Company Lookup](#) method. This method allows finding a company by DUNS number or many other parameters such as name, address, contact information, and others.
- Businesses' detailed profiles from basic information to business intelligence such as executive data, financial statements, and more. These details are exposed through the [Company Profiles](#) method.
- Entities related to the company like the full family tree can also be retrieved by using the [Corporate Linkage](#) method.

When accessed from a digital journey, the Dun and Bradstreet Connector allows financial institutions or creditors to verify a company's creditworthiness. It can be further enhanced via FintechOS Studio adapting it to business requirements. The result is a fully functional and personalized searching tool that collects the needed information in a few steps.

The Dun and Bradstreet Connector can be added to a digital journey to help simplify the search process in the following operations: collecting general information about companies, their legal representatives such as administrators or stakeholders, or analyzing companies' detailed profiles.

NOTE

The Dun and Bradstreet Connector can be used by customers from all regions: Americas, Europe, Middle East and Africa, Asia Pacific.

Business Pain Points

The Dun and Bradstreet Connector is aimed at resolving some of the pain points when looking up addresses:

- searching for valid company information can be time consuming
- requires verified and updated information
- little time to analyze the data found

Key features

Once integrated in a digital journey, the Dun and Bradstreet Connector solves these pain points by offering a simple way to collect the needed data.

- Easy to use. Financial institutions can easily add it to a digital journey and simplify SME onboarding processes or loan origination operations

- Time-efficient. Data no longer needs to be added manually.
- The retrieved information is verified and structured.

Installation

Follow the bellow steps to install FintechOS Dun and Bradstreet Connector.

Prerequisites:

1. Download the package from [FintechOS Marketplace](#).
2. Obtain the Dun and Bradstreet user name and password.

NOTE

The user name and password are obtained from the Dun and Bradstreet platform.

3. Install the package from the App Store on an environment FintechOS 21.1.6.0 and above with the Innovation Studio, Portal, and B2C Portal configured. For details on B2C, see [Setting B2C Environment](#).

Run the SQL script

In the SQL Database, run the **209.1 insert_DUNS.sql** script found in the Duns and Bradstreet package downloaded from the [FintechOS Marketplace](#). The script starts installing the option set items of an options set if they are not yet installed.

NOTE

The INSERT INTO statements from the **insert_POST.sql** script are in a transaction script that ends with a ROLLBACK (COMMIT) statement. Run first the script with ROLLBACK. If it is executed without errors, run it with COMMIT.

Set up web.config keys:

In the physical location of the installed digital journey, add the following keys in web.config before <appSettings>:

- <add key="FTOS_EXTD_DUNS_AuthUrl" value="https://direct.dnb.com/Authentication/V2.0/" />
- <add key="FTOS_EXTD_DUNS_AuthUser" value="UserName" />
- <add key="FTOS_EXTD_DUNS_AuthPsw" value="UserPassword" />
- <add key="FTOS_EXTD_DUNS_BaseUrl" value="https://direct.dnb.com/V6.0/organizations" />

Solution Walkthrough

The FintechOS Dun and Bradstreet Connector offers the possibility of accessing and retrieving company information from the Dun and Bradstreet site. This site examines and stores company information such as general company information, credit reports, and other analysis.

Through the Dun and Bradstreet Connector, financial institutions can easily gather company information to speed up SME onboarding processes, Know Your Customer verifications, and so on. In order to have access to company records, the below digital journey is proposed.

IMPORTANT!

The below UML walkthrough is not a representation of a stand-alone application. It represents a proposition on how to use this connector once it is integrated in a digital journey to search and retrieve accurate address data.

For a detailed walkthrough on how to search for company information, see the [Company Search](#) page.

Company Search

The FintechOS Dun and Bradstreet Connector offers the possibility of searching databases for company information by using DUNS numbers. Financial institutions can add the connector to a digital journey and retrieve the needed information from public records. This functionality helps speed up onboarding processes and provides easy access to specific information.

HINT

DUNS numbers are unique nine-digit identifiers for companies. A DUNS number is assigned to differentiate between the registered businesses from the Dun and Bradstreet Data Cloud. Often, these numbers are used by lenders or business partners to indicate the financial reliability or stability of a certain business.

IMPORTANT!

The below walkthrough is a proposition on how to use the FintechOSDun and Bradstreet Connector in a digital journey to search for accurate address data.

Follow the below steps to access and retrieve information using this connector.

1 Access Dun and Bradstreet Connector

1. Log into the FintechOS Portal using the given credentials.
2. Log into the Dun and Bradstreet platform with the credentials provided by them.

NOTE

The name, and password are obtained from Dun and Bradstreet once an account is created. Additional information can be found on the Installation page.



2. From the FintechOS Portal main menu expand the **Connectors** menu and click **Dun and Bradstreet**.
3. Select **DUNS Search**. The **FTOS_EXTD_DUNS_Search List** page opens.
4. At the top-right corner of the screen, click the **Insert** button. The **Edit DUNS Search - 01. Select Method** page opens.

2 Select a Search Method

Select a method from the following options:

EDIT DUNS SEARCH - 01.SELECT METHOD

Please select a method



[none]

DUNS Lookup

DUNS Company Profile

DUNS Corp Linkage

Next

- DUNS Lookup - to locate and retrieve general company data. For more information see the [Company Lookup](#) page.
- DUNS Company Profile - to retrieve the company's profile and such as executive names and titles, financial situations, number of employees, and so on. For more information, see the [Company Profile](#) page.
- DUNS Corp Linkage - to retrieve direct line entities between the requested company and the global ultimate, for example the upward family tree. For more information, see the [Corporate Linkage](#) page.

Company Lookup

The DUNS Company Lookup method searches the Dun and Bradstreet database for a company match. The search can be made essentially by the company's DUNS number but other parameters can be used as well. For example: company name, email address, postal code, and so on.

IMPORTANT!

The below walkthrough is a proposition on how to use the FintechOSDun and Bradstreet Connector in a digital journey to search for company data.

Follow the below steps to access and retrieve information using the DUNS Lookup method. For details on how to access the connector and select the search method, see the [Company Search](#) page.

1 Lookup Method Search

After logging into the Dun and Bradstreet platform and accessing the connector, select the DUNS Lookup method and click **Next**. The **Edit DUNS Search - 02. DUNS - Lookup** page opens. Fill in the below fields and click the **Next** button when finished. The **Edit DUNS Search - 02. DUNS - Lookup Results** page opens.

HINT

The search can be made by inputting information in any of the below fields, not just by DUNS number.

EDIT DUNS SEARCH - 02. DUNS - LOOKUP

DUNS Lookup

804735132

CountryISOAlpha2Code

Application TransactionID

Submitting OfficeID

Subject Name

Street Address Line

Primary TownName

Territory Name

Full PostalCode

Telephone Number

International DialingCode

OrganizationIdentificationNumber

URL Text

Email Address

Candidate Maximum Quantity

0

ExclusionCriteria

Match Type Text

Customer Reference Text

Customer Billing Endorsement Text

Match

☒

Previous

Next

Field	Required	Type	Description
DUNS Number	No	Text	The subject identifier under the Data Universal Numbering System of the inquired subject. Or D&B's identification number, which provides unique identification of the inquired organization, in accordance with the Data Universal Numbering System (D-U-N-S).
Transaction Timestamp	No	Date	The date and time when this request was created. When the request is from an intermediary, such as a workflow manager or service bus, this is the date and time when the message was sent to the D&B function, i.e., the date and time when the xml document was created by the requesting intermediary.
Country ISO Alpha2 Code	No	Text	The two-letter country/market code, defined in the ISO 3166-1 scheme published by International Organization for Standardization (ISO), identifying the country/market for this address. Possible values: ISO Alpha 2 Codes only

Field	Required	Type	Description
Application Transaction ID	No	Text	Unique Transaction ID of the request generated by the service.
Submitting Office ID	No	Text	A number that identifies the system or the software application from where this request originated. / A number used to uniquely identify the D&B business segment or delivery channel from where this request originated.
Subject Name	No	Text	Text that records the name of the inquired subject.
StreetAddressLine	No	Text	Text that records the street address components as it would be presented on an address label. This includes, but is not limited to, details such as street name, street number, building name, estate name.
Primary Town Name	No	Text	The name of the town or city recognized by the Postal Authority for delivering mail.

Field	Required	Type	Description
Territory Name	No	Text	<p>Territory Abbreviated Name for US and Canada (e.g.: NY for New York). Full Territory Name for all other countries The name of a locally governed area which forms part of a centrally governed nation. As a guiding principle this is a geographic area which could theoretically exist as a separate nation. In the U.S. this would be a State in the UK this would be one of the Home Nations. Possible values: Territory Abbreviated Name for US and Canada (eg: NY for New York). Full Territory Name for all other countries</p>

Field	Required	Type	Description
Full Postal Code	No	Text	An identifier used by the local country Postal Authority to identify a particular geographic location and may include the identification of a street or building. When this data has been derived by concatenating the elements Postal Code and Postal Code Extension, a separator will be inserted between these two elements based on country rules. For example, when the address is a U.S. address, the separator that will be used is a hyphen '-'.
Telephone Number	No	Text	A sequence of digits used by the subject for voice communication in a public switched telephone network. This sequence of digits includes the area code or city code. Note: This number does not include the International Dialing Code and Domestic Dialing Code.

Field	Required	Type	Description
International Dialing Code	No	Text	The country calling code assigned by the International Telecommunication Union (ITU) required to connect to this Telecommunication Number of the subject country when dialing from outside the subject country; e.g., '1' for the US, '44' for the UK, '91' for India.
Organization Identification Number	No	Text	A number assigned by an external body or by D&B which either uniquely identifies or helps to identify an organization.
URL Text	No	Text	Text recording the internet URL that uniquely identifies the proprietary website of the subject or the website preferred by the subject which gives more information on the subject
Email Address	No	Text	Text recording the electronic mail address used by a subject by which the subject can transmit and or receive text messages, links, and files electronically, typically via a network, like the Internet.

Field	Required	Type	Description
Candidate Maximum Quantity	No	Whole Number	A numeric value indicating the greatest number of candidate subjects that may be included in the result set.
Confidence Lower Level Threshold Value	No	Whole Number	A numeric value from 4 (low) up to 10 (high) indicating the required level of certainty at which a possible Candidate should be included in the result set.
Exclusion Criteria	No	Text	Text that denotes an exclusion requirement that the Match process should apply to prevent subjects from being returned as candidates. For example if the value is specified as Out of Business, then the match process should not return any candidates that have an Operating Status which denotes Out Of Business. Possible values: Exclude Non HeadQuarters; Exclude Non MarkeTable Exclude Out of Business; Exclude Undeliverable; Exclude Unreachable

Field	Required	Type	Description
Match Type Text	No	Text	Text describing the nature of match to be applied during the match process. When MatchTypeText is set as 'SBRI', this indicates that the match will be performed against the D&B Small Business repository. Possible values: SBRI; Advanced; Basic
Customer Reference Text	No	Text	A freeform reference string provided by the customer to be linked to the product in order to support subsequent order reconciliation.
Customer Billing Endorsement Text	No	Text	Text that is filled in by customer and commonly contains requesting individual or department name, or customer's own account/reference number and/or name for the case on which the product was provided. This text is a reference used during the billing process.
Match	No	Boolean	

2 Retrieve Results

In the **Edit DUNS Search - 02. DUNS - Lookup Results** page, click the Business Search section to display the main search results. If a match is made in the Dun and Bradstreet database, the information is displayed on this page.

EDIT DUNS SEARCH - 02. DUNS - LOOKUP RESULTS

BUSINESSSEARCH

Export

Refresh

<input type="checkbox"/>	Application Transac...	ServiceTransactionID	Candidate Matched ...	Match Data Criteria ...	Transaction Timest...	Result Description
	MatchRequest	Id-912b8f5c6f8a71...	1	Name and Address ...	18/03/2019 07:24	

Previous

Next

3 Additional Details

Double-click on the returned record for additional information. The **Edit DUNS - Business Search** page opens. The following sections are displayed:

EDIT DUNS - BUSINESS SEARCH

DUNS - BUSINESS SEARCH

Application Transaction ID	MatchRequest
Candidate Matched Quantity	1
Match Data Criteria Text	Name and Address Lookup
name	
Result Description	
searchLookupId	<div>↓</div>
ServiceTransactionID	Id-912b8f5c6f8a7138d58a2a20-1
Transaction Timestamp	18/03/2019 07:24

DUNS - MATCHCANDIDATE

+ Insert

X Delete

Export

Refresh

<input type="checkbox"/>	DUNS Number	CountryISOAlpha2Co...	Primary Address Post...	Line Text	Territory Abbreviated ...	Undeliverable Indicator
	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	(All) <div></div>
	804735132	US	94110	492 KOLLER ST	CA	<div></div>

FTOS_EXTD_DUNS_CORPLINKAGE LIST

+ Insert

X Delete

Export

Refresh

Children Type	Country	DUNSNumber	Family Tree Member ...	Town Name	Standalone Indicator
<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	(All) <div></div>
No data					

DUNS - Business Search

Field	Required	Type	Description
Application Transaction ID	No	Text	Unique Transaction ID of the request generated by the service
Candidate Matched Quantity	No	Text	The number of subjects presented as possible matches in the result set.
Match Data Criteria Text	No	Text	The match criteria type.
Name	No	Text	Displays the main street or avenue from the address.
Result Description	No	Text	Text that records the name of the inquired subject.
Search Lookup ID	No	Lookup	The Search lookup ID.
Service Transaction ID	No	Text	The service transaction ID.
Transaction Timestamp	No	Date	The transaction time stamp.

DUNS - Match Candidate

Field	Required	Type	Description
Business Lookup ID	No	Lookup	The business lookup ID.

Field	Required	Type	Description
Country ISO Alpha2 Code	No	Text	The two-letter country/market code, defined in the ISO 3166-1 scheme published by International Organization for Standardization (ISO), identifying the country/market for this address.
DUNS Number	No	Text	The subject identifier under the Data Universal Numbering System of the inquired subject. Or D&B's identification number, which provides unique identification of the inquired organization, in accordance with the Data Universal Numbering System (D-U-N-S).
Full Name	No	Text	The name of the individual or the organization.
Line Text	No	Text	The street name from the subject's address.
Name	No	Text	Text that records the name of the inquired subject.
Operating Status Text	No	Text	Text describing this organization's functional state / trading status, e.g. active, out of business, dormant.
Organization Name	No	Text	The name of the organization.

Field	Required	Type	Description
Mailing Address Postal Code	No	Text	The subject's postal code.
Mailing Address Postal Extension Code	No	Text	The subject's postal code extension.
Primary Address Postal Code Extension Code	No	Text	The primary address postal code extension.
Primary Address Postal Code	No	Text	The primary address postal code.
Territory Abbreviated Name	No	Text	The abbreviated territory name.
Undeliverable Indicator	No	Boolean	The undeliverable indicator.
Primary Town Name	No	Text	The primary town name.
Telecommunication Number	No	Text	The telecommunication number.
Mailing Address Territory Abbreviated Name	No	Text	The mailing address territory abbreviated name.
Mailing Address Undeliverable Indicator	No	Boolean	The mailing address undeliverable indicator.
Unreachable Indicator	No	Boolean	The unreachable indicator.

DUNS - Corporate Linkage List

Field	Required	Type	Description
Children Type	No	Text	The relationship of the children to the linked family tree subject. For example: division, subsidiary, branch, affiliate.
Country	No	Text	Primary address of the family tree member organization.
DUNS Number	No	Text	The subject identifier under the Data Universal Numbering System of the inquired subject. Or D&B's identification number, which provides unique identification of the inquired organization, in accordance with the Data Universal Numbering System (D-U-N-S).
Family Tree Member Role	No	No	The type of role the member has in an ownership structured family tree.
Town Name	No		The primary town name.

Field	Required	Type	Description
Standalone Indicator	No	Lookup	It indicates that this organization is not a member of a legal family tree.

At the top-right corner of the screen, click the **Save and Close** button. The **Edit DUNS Search - 02. DUNS - Lookup Results** page displays. To return to the **Edit DUNS Search - 02. DUNS - Lookup** page, click **Next**.

Company Profiles

The DUNS Corporate Linkage method searches the Dun and Bradstreet database for basic marketing information such as business name, address, phone number, or trade style. It also includes business intelligence such as executive names and titles, number of employees, import or export code, branch indicator, and so on.

IMPORTANT!

The below walkthrough is a proposition on how to use the FintechOSDun and Bradstreet Connector in a digital journey to search for company data.

Follow the below steps to access and retrieve information using the DUNS Company Profile method. For details on how to access the connector and select the search method, see the [Company Search](#) page.

1 Company Profiles Method Search

After logging into the Dun and Bradstreet platform and accessing the connector, select the DUNS Company Profiles method and click **Next**. The **Edit DUNS Search - 03. DUNS - Company Profiles** page opens. Fill in the below fields and click the **Next** button when finished. The **Edit DUNS Search - 03. Company Profile Results** page opens.

NOTE

To perform a search using the Company Profiles method, the DUNS number is mandatory.

EDIT DUNS SEARCH - 03. DUNS - COMPANY PROFILE

COMPANY PROFILES

804735132

Application Transaction ID

Submitting Office ID

Country ISO Alpha2Code

Language Preference Code

Order Reason Code

Return Transferred To DUNS Indic...

Customer Reference Text-n

Customer Billing Endorsement Text

Transaction Timestamp

Trade Up Indicator

Archive Product Opt Out Indicator

Extend Archive Period Indicator

Previous

Next

Field	Required	Type	Description
DUNS Number	No	Text	The subject identifier under the Data Universal Numbering System of the inquired subject. Or D&B's identification number, which provides unique identification of the inquired organization, in accordance with the Data Universal Numbering System (D-U-N-S).

Field	Required	Type	Description
Application Transaction ID	No	Text	Unique Transaction ID of the request generated by the service
Submitting Office ID	No	Text	A number that identifies the system or the software application from where this request originated. / A number used to uniquely identify the D&B business segment or delivery channel from where this request originated.
Country ISO Alpha2 Code	No	Text	The two-letter country/market code, defined in the ISO 3166-1 scheme published by International Organization for Standardization (ISO), identifying the country/market for this address. Possible values: ISO Alpha 2 Codes only
Language Preference Code	No	Text	A D&B code value that defines the language in which the customer wants this product to be rendered. Possible values: 39 (English).

Field	Required	Type	Description
Order Reason Code	No	Text	Possible values: <ul style="list-style-type: none"> • 6332 - Credit Decision • 6333 - Assessment of credit solvency for intended business connection • 6334 - Assessment of credit solvency for ongoing business connection • 6335 - Debt Collection • 6336 - Commercial Credit Insurance] • 6337 - Insurance Contract] • 6338 - Leasing Agreement] • 6339 - Rental Agreement]
Return Transferred to DUNS Indicator	No	Text	Possible values: <ul style="list-style-type: none"> • True • False

Field	Required	Type	Description
Customer Reference Text	No	Text	A free form reference string provided by the customer to be linked to the product in order to support subsequent order reconciliation.
Customer Billing Endorsement Text	No	Text	Text that is filled in by customer and commonly contains requesting individual or department name, or customer's own account/reference number and/or name for the case on which the product was provided. This text is a reference used during the billing process.
Transaction Timestamp	No	Date	The date and time when this request was created. When the request is from an intermediary, such as a workflow manager or service bus, this is the date and time when the message was sent to the D&B function, i.e., the date and time when the xml document was created by the requesting intermediary.

Field	Required	Type	Description
Trade Up Indicator	No	Boolean	<p>When true, it indicates that the customer has requested that D&B return the data for the headquarters when the requested organization is a Branch.</p> <p>When false indicates that the customer has not requested that D&B return the data for the headquarters when the requested organization is a Branch; however as this is the assumed condition there is no requirement to create this tag to represent this fact.</p>
Archive Product OPT Out Indicator	No	Boolean	<p>When true, it indicates that the product being ordered is not to be stored.</p> <p>When false, it indicates that the product being ordered is to be stored.</p>

Field	Required	Type	Description
Extend Archive Period Indicator	No	Boolean	When true , the duration to archive the data is to be extended. When false , the duration to archive the data is not to be extended.

2 Retrieve Results

In the **Edit DUNS Search - 03. Company Profile Results** page, click the **Company Profiles** section to display the main search results. If a match is made in the Dun and Bradstreet database, the information is displayed on this page.

EDIT DUNS SEARCH - 03. DUNS - COMPANY PROFILE RESULTS

COMPANY PROFILES

<input type="checkbox"/>	DUNS Number	Ethnicity Type	Line of Business...	Marketing Risk ...	Organization Su...	Marketability In...	Small Business I...
<input type="checkbox"/>	<input type="text" value="804735132"/>	<input type="text" value="Unknown"/>	<input type="text" value="Commercial pri..."/>	<input type="text" value="Low"/>	<input type="text" value="Commercial pri..."/>	(All) ▼	(All) ▼
<input type="checkbox"/>	804735132	Unknown	Commercial pri...	Low	Commercial pri...	<input type="checkbox"/>	<input checked="" type="checkbox"/>




3 Additional Details

Double-click on the returned record for additional information. The **Edit DUNS - Company Profiles** page opens. The following sections are displayed:

DUNS - Company Profiles

EDIT DUNS - COMPANY PROFILES

DUNS - COMPANY PROFILES

Accountant Name	
DUNS Number	804735132
Ethnicity Type	Unknown
Female Owned Indicator	<input type="checkbox"/>
Issued Share Capital Amount	
Labor Surplus Area Indicator	<input type="checkbox"/>
LastUpdateDate	01/04/2016 
Legal Form	451
Line of Business Description	Commercial printing, lithographic
Marketability Indicator	<input type="checkbox"/>
Marketing Risk Class	Low
Minority Owned Indicator	<input type="checkbox"/>
name	
Non Marketable Reason	De-listed, Insufficient Data
Operations	
Organization Summary	Commercial printing, lithographic
SearchLookupId	 
Small Business Indicator	<input checked="" type="checkbox"/>

Field	Required	Type	Description
Accountant Name	Yes	Text	The name of the company's accountant.
DUNS Number	Yes	Text	The subject identifier under the Data Universal Numbering System of the inquired subject. Or D&B's identification number, which provides unique identification of the inquired organization, in accordance with the Data Universal Numbering System (D-U-N-S).
Ethnicity Type	Yes	Text	The ethnicity type.
Female Owned Indicator	No	Boolean	If true , it indicates that this organization is certified as a business that is greater than 50% owned by, and whose management and daily business operations are controlled by, one or more female persons.
Page	No	Numeric	0 indexed indicator of the page of results to receive. Virtually all postcode results are returned on page 0. A small number of Multiple Residence postcodes may need pagination (for example, if there are more than 100 premises).
Issued Share Capital Amount	No	Text	The company's issued share capital amount.

Field	Required	Type	Description
Labor Surplus Area Indicator	No	Boolean	If true , indicates that this organization is certified as a business that operates in a labor surplus area, which is a geographical area identified by the Department of Labor as an area of concentrated unemployment or underemployment or an area of labor
Legal Form	No	Date	The company's legal form.
Line of Business Description	No	Text	A description of the company's line of business.
Marketability Indicator	No	Boolean	The marketability indicator.
Marketing Risk Class	No	Text	The marketing risk class.
Minority Owned Indicator	No	Boolean	If true , it indicates that this organization is certified as a business that is greater than 50% owned by, and whose management and daily business operations are controlled by, one or more minority group members.
Name	No	Text	Text that records the name of the inquired subject.

Field	Required	Type	Description
Operations	No	Text	The business operations.
Organization Summary	No	Text	The organization summary.
Search Lookup Id	No	Text	The search lookup ID.
Small Business Indicator	No	Boolean	If true , it indicates that the business is small, certified by a federal, state or local government agency or organization as having met all of the government standards that award eligibility.

DUNS - Industry Codes

DUNS - INDUSTRY CODES

+ Insert

X Delete

Export







Refresh

<input type="checkbox"/>	Display Sequence	DNBCodeValue	Industry Code Descip...	Industry CodeDescLa...	IndCodeDescLengthC...	Industry Code
	🔍	🔍	🔍	🔍	🔍	🔍
	1.00	21,182.00	Other printing	Other printing	Other printing	22.220
	1.00	3,599.00	COMM PRTG LITHO	COMM PRTG LITHO	COMM PRTG LITHO	27520000
	1.00	24,664.00	Commercial Printing (...)	Commercial Printing (...)	Commercial Printing (...)	323111
	1.00	399.00	Lithographic commer...	Lithographic commer...	Lithographic commer...	2752
	1.00	25,838.00	Commercial Printing	Commercial Printing	Commercial Printing	1068
	1.00	700.00	Commercial Gravure ...	Commercial Gravure ...	Commercial Gravure ...	323111

Field	Required	Type	Description
Comp Profiles Lookup Id	No	Text	The Company Profiles lookup ID.
Display Sequence	No	Text	The display sequence.
DNB Code Value	No	Text	Dun and Bradstreet code value.

Field	Required	Type	Description
Industry Code Description	No	Text	A description of the company's industry code.
Industry Code	No	Text	The industry code. This code represents the locally used activity code.
Name	No	Text	Text that records the name of the inquired subject.
Type Text	No	Text	The type of text.

DUNS - Financial Statement**DUNS - FINANCIAL STATEMENT**

CurrencyISOAlpha3Co...	Financial Period Durat...	Financial Statement T...	Total Assets Amount	Total Equity Amount	Unit of Size
					
No data					

Field	Required	Type	Description
Currency ISO Alpha3 Code	No	Text	The three-letter code, published by International Organization for Standardization (ISO), identifying the type of money that is primarily used by this subject

Field	Required	Type	Description
Financial Period Duration	No	Text	Records the period of the Financial Summary.
Financial Statement To Date	No	Text	The date of the company's financial statement.
Total Assets Amount	No	Text	Includes all of the assets used by an organization no matter how they are financed.
Total Equity Amount	No	Text	The total value of share capital/ stock originally invested by shareholders/ stockholders plus other reserves.
Unit of Size	No	Text	Specifies the type of unit: thousands, millions, billions.

DUNS - Current Principal

DUNS - CURRENTPRINCIPAL


<input checked="" type="checkbox"/>	Name Prefix	Name Suffix	First Name	Middle Name	Last Name	Job Title	Principal Age
<input checked="" type="checkbox"/>	Mr		Kevin	J	Hunt	Sec-treas	

Field	Required	Type	Description
Comp Profiles Lookup Id	No	Text	The Company Profiles lookup ID.

Field	Required	Type	Description
First Name	No	Text	The first name of the principal.
Job Title	No	Text	The principal job title.
Last Name	No	Text	The last name of the principal.
Management Responsibility	No	Text	The management responsibility.
Middle Name	No	Text	The principal's middle name,
Name	No	Text	Text that records the name of the inquired subject.
Name Prefix	No	Text	The name prefix.
Name Suffix	No	Text	The name suffix.
Principal Age	No	Text	The principal age.

DUNS - Financial Ratios

DUNS - FINANCIAL RATIOS

<input type="checkbox"/> Item Description	Item Ratio
	Q

Field	Required	Type	Description
Comp Profiles Lookup Id	No	Text	The Company Profiles lookup ID.
Item Description	No	Text	The financial ratios item description.
Item Ratio	No	Text	The item ratio.

Field	Required	Type	Description
Name	No	Text	Text that records the name of the inquired subject.

DUNS - Financial Figures

DUNS - FINANCIAL FIGURES

<input type="checkbox"/>	Financial Period Duration	Financial Statement to Date	Profit or Loss Amount	Sales Revenue Amount	Sales Turnover Growth Rate
	P1Y	31/12/2015		19,945,238.00	

Field	Required	Type	Description
Comp Profiles Lookup Id	No	Text	The Company Profiles lookup ID.
Financial Period Duration	No	Text	Records the period of the Financial Summary when this cannot be expressed using 'Summary Date' and 'Number of Months'

Field	Required	Type	Description
Financial Statement to Date	No	Text	The date when the accounting period ended. If the Reliability Code denotes the figures are projected (future), then this is the date when the accounting period will end.
Name	No	Text	Text that records the name of the inquired subject.
Profit or Loss Amount	No	Text	The profit or loss amount.
Sales Revenue Amount	No	Text	The sales revenue amount.
Sales Turnover Growth Rate			The sales turnover growth rate.

DUNS - Employee Figure

DUNS - EMPLOYEE FIGURE

<input type="checkbox"/>	Employee Figures Date	Reliability	Total Employee Quantity
	<input type="text" value="Q"/>	<input type="text" value="9092"/>	<input type="text" value="110.00"/>

Field	Required	Type	Description
Comp Profiles Lookup Id	No	Text	The Company Profiles lookup ID.

Field	Required	Type	Description
Employee Figures Date	No	Date	The employee figures date.
Name	No	Text	Text that records the name of the inquired subject.
Reliability	No	Text	The employee's reliability.
Total Employee Quantity	No	Text	The company's total number of employees.

At the top-right corner of the screen, click the **Save and Close** button. The **Edit DUNS Search - 02. DUNS - Lookup Results** page displays. To return to the **FTOS_EXTD_DUNS_SEARCH LIST** page, click **Next**.

Corporate Linkage

The DUNS Corporate Linkage method searches the Dun and Bradstreet database for relationships between businesses for an elaborate overview of a business's structure or risk areas.

IMPORTANT!

The below walkthrough is a proposition on how to use the FintechOSDun and Bradstreet Connector in a digital journey to search for company data.

Follow the below steps to access and retrieve information using the DUNS Lookup method. For details on how to access the connector and select the search method, see the [Company Search](#) page.

1 Corporate Linkage Method Search

After logging into the Dun and Bradstreet platform and accessing the connector, select the DUNS Lookup method and click **Next**. The **Edit DUNS Search - 02. DUNS - Lookup** page opens. Fill in the below fields and click the **Next** button when finished. The **Edit DUNS Search - 02. DUNS - Lookup Results** page opens.

NOTE

To perform a search using the Corporate Linkage method, the DUNS number is mandatory.

EDIT DUNS SEARCH - 03. DUNS - COMPANY PROFILE

COMPANY PROFILES

804735132

Application Transaction ID

Submitting Office ID

Country ISO Alpha2Code

Language Preference Code

Order Reason Code

Return Transferred To DUNS Indic...

Customer Reference Text-n

Customer Billing Endorsement Text

Transaction Timestamp

Trade Up Indicator

Archive Product Opt Out Indicator

Extend Archive Period Indicator

☐

☐

☐

Previous

Next

Field	Required	Type	Description
DUNS Number	No	Text	The subject identifier under the Data Universal Numbering System of the inquired subject. Or D&B's identification number, which provides unique identification of the inquired organization, in accordance with the Data Universal Numbering System (D-U-N-S).
Date	No	Date	The date and time when this request was created.
Application Transaction ID	No	Text	Unique Transaction ID of the request generated by the service
Submitting Office ID	No	Text	A number that identifies the system or the software application from where this request originated. / A number used to uniquely identify the D&B business segment or delivery channel from where this request originated.

Field	Required	Type	Description
Customer Reference	No	Text	A freeform reference string provided by the customer to be linked to the product in order to support subsequent order reconciliation.
Country ISO Alpha2 Code	No	Text	The two-letter country/market code, defined in the ISO 3166-1 scheme published by International Organization for Standardization (ISO), identifying the country/market for this address. Possible values: ISO Alpha 2 Codes only
Inclusion Data Description	No	Text	A description of the data inclusion requirement that applies to the organization's candidates.
Customer Billing Endorsement	No	Text	Describes a reference used during the billing process.

Field	Required	Type	Description
Attach Compressed Product Indicator	No	Boolean	<p>When true, it denotes that the customer has requested that Dun and Bradstreet return the compressed product in the attachment.</p> <p>When false, it denotes that the customer has not requested that Dun and Bradstreet return the compressed product in the attachment.</p>
Archive Product OPT Out Indicator	No	Boolean	<p>When true, it indicates that the product ordered is not to be stored.</p> <p>When false, it indicates that the product ordered is to be stored. This is the default status.</p>

Field	Required	Type	Description
Extend Archive Period Indicator	No	Boolean	When true , the duration to archive the data is to be extended. When false , the duration to archive the data is not to be extended.

2 Retrieve Results

In the **Edit DUNS Search - 04. DUNS - Lookup Results** page, click the Business Search section to display the main search results. If a match is made in the Dun and Bradstreet database, the information is displayed on this page.

EDIT DUNS SEARCH - 04. DUNS - CORPLINKAGE RESULTS

BUSINESSSEARCH

Export
Refresh

<input type="checkbox"/>	Application Transac...	ServiceTransactionID	Candidate Matched ...	Match Data Criteria ...	Transaction Timesta...	Result Description
	ServiceGovernance...	ServiceGovernance...			19/01/2017 14:13	

Previous
Finish

3 Additional Details

Double-click on the returned record for additional information. The **Edit DUNS - Business Search** page opens. The following sections are displayed:

EDIT DUNS - BUSINESS SEARCH

DUNS - BUSINESS SEARCH

Application Transaction ID	MatchRequest
Candidate Matched Quantity	1
Match Data Criteria Text	Name and Address Lookup
name	
Result Description	
searchLookupId	<div>↓</div>
ServiceTransactionID	Id-912b8f5c6f8a7138d58a2a20-1
Transaction Timestamp	18/03/2019 07:24

DUNS - MATCHCANDIDATE

+ Insert

X Delete

Export

Refresh

<input type="checkbox"/>	DUNS Number	CountryISOAlpha2Co...	Primary Address Post...	Line Text	Territory Abbreviated ...	Undeliverable Indicator
	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	(All) <div></div>
	804735132	US	94110	492 KOLLER ST	CA	<div></div>

FTOS_EXTD_DUNS_CORPLINKAGE LIST

+ Insert

X Delete

Export

Refresh

Children Type	Country	DUNSNumber	Family Tree Member ...	Town Name	Standalone Indicator
<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	(All) <div></div>
No data					

DUNS - Business Search

Field	Required	Type	Description
Application Transaction ID	No	Text	Unique Transaction ID of the request generated by the service
Candidate Matched Quantity	No	Text	The number of subjects presented as possible matches in the result set.
Match Data Criteria Text	No	Text	The match criteria type.
Name	No	Text	Displays the main street or avenue from the address.
Result Description	No	Text	Text that records the name of the inquired subject.
Search Lookup ID	No	Lookup	The Search lookup ID.
Service Transaction ID	No	Text	The service transaction ID.
Transaction Timestamp	No	Date	The transaction time stamp.

DUNS - Match Candidate

Field	Required	Type	Description
Business Lookup ID	No	Lookup	The business lookup ID.

Field	Required	Type	Description
Country ISO Alpha2 Code	No	Text	The two-letter country/market code, defined in the ISO 3166-1 scheme published by International Organization for Standardization (ISO), identifying the country/market for this address.
DUNS Number	No	Text	The subject identifier under the Data Universal Numbering System of the inquired subject. Or D&B's identification number, which provides unique identification of the inquired organization, in accordance with the Data Universal Numbering System (D-U-N-S).
Full Name	No	Text	The name of the individual or the organization.
Line Text	No	Text	The street name from the subject's address.
Name	No	Text	Text that records the name of the inquired subject.
Operating Status Text	No	Text	Text describing this organization's functional state / trading status, e.g. active, out of business, dormant.
Organization Name	No	Text	The name of the organization.

Field	Required	Type	Description
Mailing Address Postal Code	No	Text	The subject's postal code.
Mailing Address Postal Extension Code	No	Text	The subject's postal code extension.
Primary Address Postal Code Extension Code	No	Text	The primary address postal code extension.
Primary Address Postal Code	No	Text	The primary address postal code.
Territory Abbreviated Name	No	Text	The abbreviated territory name.
Undeliverable Indicator	No	Boolean	The undeliverable indicator.
Primary Town Name	No	Text	The primary town name.
Telecommunication Number	No	Text	The telecommunication number.
Mailing Address Territory Abbreviated Name	No	Text	The mailing address territory abbreviated name.
Mailing Address Undeliverable Indicator	No	Boolean	The mailing address undeliverable indicator.
Unreachable Indicator	No	Boolean	The unreachable indicator.

DUNS - Corporate Linkage List

Field	Required	Type	Description
Children Type	No	Text	The relationship of the children to the linked family tree subject. For example: division, subsidiary, branch, affiliate.
Country	No	Text	Primary address of the family tree member organization.
DUNS Number	No	Text	The subject identifier under the Data Universal Numbering System of the inquired subject. Or D&B's identification number, which provides unique identification of the inquired organization, in accordance with the Data Universal Numbering System (D-U-N-S).
Family Tree Member Role	No	No	The type of role the member has in an ownership structured family tree.
Town Name	No		The primary town name.

Field	Required	Type	Description
Standalone Indicator	No	Lookup	It indicates that this organization is not a member of a legal family tree.

At the top-right corner of the screen, click the **Save and Close** button. The **Edit DUNS Search - 02. DUNS - Lookup Results** page displays. To return to the **Edit DUNS Search - 02. DUNS - Lookup** page, click **Next**.

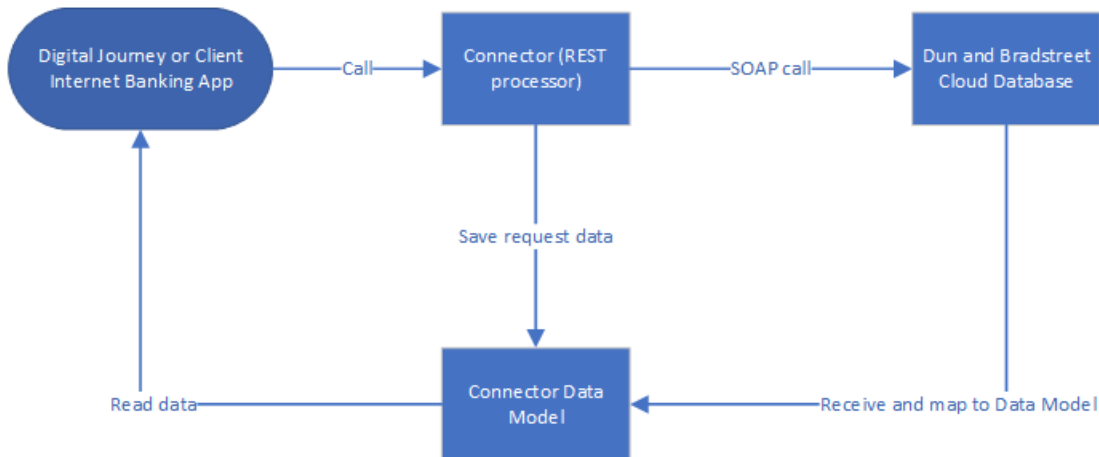
Configurations

Walkthrough

The following chapter of this guide is meant to explain how to use the Dun and Bradstreet Connector in digital journeys, as well as the technical details of how the connector helps return data.

The Dun and Bradstreet Connector can be integrated in a digital journey to simplify the address verification process when onboarding new customers by providing bank employees easy access to the Dun and Bradstreet database. The information retrieved is updated and it offers a better insight on current or potential businesses.

The image below is an UML diagram showing the Dun and Bradstreet Connector search workflow. To download the diagram in Visio, click [here](#).



For more information on how to use the connector in digital journeys and the API methods, see the following pages:

- [Using the Dun and Bradstreet Connector in Digital Journeys](#)
- [API Methods](#)

Using Dun and Bradstreet Connector in Digital Journeys

The Dun and Bradstreet Connector consists of a digital journey, client side scripts, and three endpoints. Below are the steps used when calling the connector.

1. Before calling the connector, the parameters must be set. The environment settings required for the API search are set through the below variables.

Setting the Parameters Example

- DUNS Lookup:

```
let baseUrl = getAppSetting("FTOS_EXTD_DUNS_BaseUrl")
```

- DUNS Company Profile:

```
let baseUrl = getAppSetting("FTOS_EXTD_DUNS_BaseUrl")
```

- DUNS Corporate Linkage:

```
let baseUrl = getAppSetting("FTOS_EXTD_DUNS_CorpLinkage_BaseUrl")  
let path = getAppSetting("FTOS_EXTD_DUNS_CorpLinkage_Path")
```

2. Use the `ebs.callActionByNameAsync` function with `FTOS_EXTD_DUNS_LOOKUP_Endpoint`, `FTOS_EXTD_DUNS_CorpLinkage_Endpoint`, and the `FTOS_EXTD_DUNS_CompProfile_Endpoint` parameter when searching for certain information in the digital journey.

3. Based on the search options, the endpoint is called and the search data is returned.

Calling from the Digital Journey Frontend Example

- FTOS_EXTD_DUNS_LOOKUP_Endpoint:

```
const connectorName = formData.formScope.connectorName
const searchLookupId = ebs.getFormData().id
let searchObject = {}

let transactionTimestamp =
$('#transactionTimestamp').dxDateBox('instance').option
('value')
let submittingOfficeId = $('#submittingOfficeId').dxTextBox
('instance').option('value')
let dunsNumber = $('#dunsNumber').dxTextBox
('instance').option('value')
let subjectName = $('#subjectName').dxTextBox
('instance').option('value')
let streetAddressLine = $('#streetAddressLine').dxTextBox
('instance').option('value')
let countryISOAlpha2Code =
$('#countryISOAlpha2Code').dxTextBox('instance').option
('value')
let territoryName = $('#territoryName').dxTextBox
('instance').option('value')
let applicationTransactionId =
$('#applicationTransactionId').dxTextBox('instance').option
('value')
let primaryTownName = $('#primaryTownName').dxTextBox
('instance').option('value')
let fullPostalCode = $('#fullPostalCode').dxTextBox
('instance').option('value')
let telephoneNumber = $('#telephoneNumber').dxTextBox
('instance').option('value')
let internationalDialingCode =
$('#internationalDialingCode').dxTextBox('instance').option
('value')
let organizationIdentificationNumber =
$('#organizationIdentificationNumber').dxTextBox
('instance').option('value')
let urlText = $('#urlText').dxTextBox('instance').option
('value')
let emailAddress = $('#emailAddress').dxTextBox
('instance').option('value')
```



```

let candidateMaximumQuantity =
$('#candidateMaximumQuantity').dxTextBox('instance').option
('value')
let confidenceLowerLevelThresholdValue =
$('#confidenceLowerLevelThresholdValue').dxNumberBox
('instance').option('value')
let exclusionCriteria = $('#exclusionCriteria').dxTextBox
('instance').option('value')
let matchTypeText = $('#matchTypeText').dxTextBox
('instance').option('value')
let customerReferenceText =
$('#customerReferenceText').dxTextBox('instance').option
('value')
let customerBillingEndorsement =
$('#customerBillingEndorsement').dxTextBox
('instance').option('value')
let match = $('#match').dxCheckBox('instance').option
('value')

ebs.showLoadingPanel()

searchObject = {
  'searchLookupId': searchLookupId,
  'match': match,
  'transactionTimestamp': transactionTimestamp,
  'submittingOfficeID': submittingOfficeId,
  'dunsNumber': dunsNumber,
  'subjectName': subjectName,
  'streetAddressLine': streetAddressLine,
  'countryISOAlpha2Code': countryISOAlpha2Code,
  'territoryName': territoryName,
  'applicationTransactionID': applicationTransactionId,
  'primaryTownName': primaryTownName,
  'fullPostalCode': fullPostalCode,
  'telephoneNumber': telephoneNumber,
  'internationalDialingCode': internationalDialingCode,
  'organizationIdentificationNumber':
organizationIdentificationNumber,
  'urlText': urlText,
  'emailAddress': emailAddress,
  'candidateMaximumQuantity': candidateMaximumQuantity,
  'confidenceLowerLevelThresholdValue':
confidenceLowerLevelThresholdValue,
  'exclusionCriteria': exclusionCriteria,
  'matchTypeText': matchTypeText,
  'customerReferenceText': customerReferenceText,

```

```

    'customerBillingEndorsement':
customerBillingEndorsement,
}

```

```

ebs.callActionByNameAsync('FTOS_EXTD_DUNS_LOOKUP_Endpoint',
searchObject)

```

- FTOS_EXTD_DUNS_CorpLinkage_Endpoint:

```

const connectorName = formData.formScope.connectorName
const searchLookupId = ebs.getFormData().id
let searchObject = {}

let dunsNumber = $('#DunsNumber').dxTextBox
('instance').option('value')
let applicationTransactionID =
$('#ApplicationTransactionID').dxTextBox('instance').option
('value')
let submittingOfficeID = $('#SubmittingOfficeID').dxTextBox
('instance').option('value')
let countryISOAlpha2Code =
$('#CountryISOAlpha2Code').dxTextBox('instance').option
('value')
let languagePreferenceCode =
$('#LanguagePreferenceCode').dxTextBox('instance').option
('value')
let orderReasonCode = $('#OrderReasonCode').dxTextBox
('instance').option('value')
let returnTransferredToDUNSIndicator =
$('#ReturnTransferredToDUNSIndicator').dxTextBox
('instance').option('value')
let customerReferenceTextn =
$('#CustomerReferenceTextn').dxTextBox('instance').option
('value')
let customerBillingEndorsementText =
$('#CustomerBillingEndorsementText').dxTextBox
('instance').option('value')
let transactionTimestamp =
$('#TransactionTimestamp').dxDateBox('instance').option
('value')

```

```

let tradeUpIndicator = $('#TradeUpIndicator').dxCheckBox
('instance').option('value')
let archiveProductOptOutIndicator =
$('#ArchiveProductOptOutIndicator').dxCheckBox
('instance').option('value')
let extendArchivePeriodIndicator =
$('#ExtendArchivePeriodIndicator').dxCheckBox
('instance').option('value')

ebs.showLoadingPanel()

searchObject = {
  'dunsNumber': dunsNumber,
  'applicationTransactionID': applicationTransactionID,
  'submittingOfficeID': submittingOfficeID,
  'countryISOAlpha2Code': countryISOAlpha2Code,
  'languagePreferenceCode': languagePreferenceCode,
  'orderReasonCode': orderReasonCode,
  'returnTransferredToDUNSIndicator':
returnTransferredToDUNSIndicator,
  'customerReferenceTextn': customerReferenceTextn,
  'customerBillingEndorsementText':
customerBillingEndorsementText,
  'transactionTimestamp': transactionTimestamp,
  'tradeUpIndicator': tradeUpIndicator,
  'archiveProductOptOutIndicator':
archiveProductOptOutIndicator,
  'extendArchivePeriodIndicator':
extendArchivePeriodIndicator,
  'searchLookupId': ebs.getFormData().id
}

ebs.callActionByNameAsync('FTOS_EXTD_DUNS_CompProfile_
Endpoint', searchObject)

```

- FTOS_EXTD_DUNS_CompProfile_Endpoint

```

const connectorName = formData.formScope.connectorName
const searchLookupId = ebs.getFormData().id
let searchObject = {}

```

```

let dunsNumber = $('#dunsNumber').dxTextBox
('instance').option('value')
let applicationTransactionID =
$('#applicationTransactionId').dxTextBox('instance').option
('value')
let submittingOfficeID = $('#submittingOfficeId').dxTextBox
('instance').option('value')
let countryISOAlpha2Code =
$('#countryISOAlpha2Code').dxTextBox('instance').option
('value')
let territinclusionDataDescriptionory =
$('#inclusionDataDescription').dxTextBox('instance').option
('value')
let customerReferenceText =
$('#customerReferenceText').dxTextBox('instance').option
('value')
let customerBillingEndorsementText =
$('#customerBillingEndorsementText').dxTextBox
('instance').option('value')

let transactionTimestamp =
$('#transactionTimestamp').dxDateBox('instance').option
('value')

let languagePreferenceCode =
$('#languagePreferenceCode').dxNumberBox('instance').option
('value')

let attachCompressedProductIndicator =
$('#attachCompressedProductIndicator').dxCheckBox
('instance').option('value')
let archiveProductOptOutIndicator =
$('#archiveProductOptOutIndicator').dxCheckBox
('instance').option('value')
let extendArchivePeriodIndicator =
$('#extendArchivePeriodIndicator').dxCheckBox
('instance').option('value')

ebs.showLoadingPanel()

searchObject = {
  'searchLookupId': searchLookupId,
  'dunsNumber': dunsNumber,
  'attachCompressedProductIndicator':
attachCompressedProductIndicator,
  'applicationTransactionID' : applicationTransactionID,

```

```

    'transactionTimestamp' : transactionTimestamp,
    'submittingOfficeID' : submittingOfficeID,
    'countryISOAlpha2Code' : countryISOAlpha2Code,
    'languagePreferenceCode' : languagePreferenceCode,
    'territinclusionDataDescriptionory' :
territinclusionDataDescriptionory,
    'archiveProductOptOutIndicator' :
archiveProductOptOutIndicator,
    'extendArchivePeriodIndicator' :
extendArchivePeriodIndicator,
    'customerReferenceText' : customerReferenceText,
    'customerBillingEndorsementText' :
customerBillingEndorsementText,
  }

ebs.callActionByNameAsync('FTOS_EXTD_DUNS_Corplinkage_
Endpoint', searchObject)

```

API Methods

The Dun and Bradstreet Connector uses API methods to retrieve company data. The methods are detailed below.

DUNS Lookup

This method returns general information about companies registered in the Dun and Bradstreet Data Cloud. The call is made using FTOS_EXTD_DUNS_LOOKUP_Endpoint.

Call Example

Request:

```
{
  "ApiInfo": {
    "Token": "{{access_token}}"
  },
  "Request": {
    "ActionName": "FTOS_EXTD_DUNS_LOOKUP_Endpoint",
    "Data": "{ match: \"true\", countryISOAlpha2Code: \"US\" }"
  }
}
```

Response:

```
{
  "UIResult": {
    "NavigateToEntityPage": false,
    "NavigateToEntityPageOnEdit": false,
    "NavigateToEntityFormName": null,
    "NavigateToEntityName": null,
    "NavigateToEntityId": null,
    "NavigateToEntityInsertDefaults": null,
    "NavigateToUrl": null,
    "DownloadFile": null,
    "ReloadPage": false,
    "Message": null,
    "IsSuccess": false,
  }
}
```

```

        "Data": "{\ "BusinessSearch\ ":
        {\ "serviceTransactionID\ ": {\ "Id-912b8f5c6f8a7138d58a2a20-
        1\ ", \ "transactionTimestamp\ ": {\ "2019-03-
        18
        T05:
        24
        :
        33.53
        \
        ", \ "
        applicationTransactionID\
        ": \ "
        MatchRequest\
        ", \ "
        resultDescription\ ": null, \ "matchDataCriteriaText\ ": \ "Name
        and Address
        Lookup\
        ", \ "candidateMatchedQuantity\ ": 1.0}, \ "MatchCandidate\ ":
        [{\ "
        fullName\
        ": null, \ "
        primaryAddressUndeliverableIndicator\
        ": false, \ "
        telecommunicationNumber\
        ": \ "6505550000\ ", \ "primaryTownName\ ": \ "SAN
        FRANCISCO\
        ", \ "
        unreachableIndicator\
        ": false, \ "
        dunsNumber\
        ": \ "
        804735132
        \
        ", \ "
        primaryAddressPostalCodeExtensionCode\
        ": null, \ "organizationName\ ": \ "GORMAN MANUFACTURING COMPANY,
        INC.\
        ", \ "
        undeliverableIndicator\
        ": false, \ "
        territoryAbbreviatedName\
        ": null, \ "
        postalCodeExtensionCode\
        ": null, \ "
        primaryAddressTerritoryAbbrevName\
        ": \ "CA\ ", \ "countryISOAlpha2Code\ ": \ "US\ ", \ "lineText\ ": \ "492
        KOLLER
        ST\
        postalCode\
        primaryAddressPostalCode\

```

```

":null,\"
primaryAddressPostalCode\
":\"94110\", \"operatingStatusText\": \"Active\"}}}],
  "NavigateToPageNo": null
},
"Message": null,
"IsSuccess": true,
"ClientScript": null,
"Serialized": null,
"ErrorCode": 0
}

```

DUNS Company Profile

This method returns the company's profile and it includes business intelligence such as executive names and titles, financial situations, number of employees, import or export code, branch indicator, and so on. The call is made using FTOS_EXTD_DUNS_CorpLinkage_Endpoint.

Call Example

Request:

```

{
  "ApiInfo": {
    "Token": "{{access_token}}"
  },
  "Request": {
    "ActionName": "FTOS_EXTD_DUNS_CompProfile_Endpoint",
    "Data": "{ dunsNumber: \"804735132\"}"
  }
}

```

Respose:

```

{
  "UIResult": {
    "NavigateToEntityPage": false,
    "NavigateToEntityPageOnEdit": false,
  }
}

```



```
"NavigateToEntityFormName": null,  
"NavigateToEntityName": null,  
"NavigateToEntityId": null,  
"NavigateToEntityInsertDefaults": null,  
"NavigateToUrl": null,  
"DownloadFile": null,  
"ReloadPage": false,  
"Message": null,  
"IsSuccess": false,
```

```

      "Data": "{ \"EmployeeFigure\":
{ \"
reliability\
\":9092.0,\"
totalEmployeeQuantity\
\":110.0,\"employeeFiguresDate\":null},\"FinancialRatios\":
{ \"
itemRatio\
\":null,\"itemDescription\":null},\"IndustryCodes\":
[{ \"indCodeDescLangCode\": \"Commercial
Printing\
\", \"
dnbCodeValue\
\":25838.0,\"
industryCode\
\": \"1068\", \"DisplaySequence\":1.0, \"typeText\": \"D&B
Hoovers Industry Code\", \"indCodeDesc\": \"Commercial
Printing\", \"indCodeDescLengthCode\": \"Commercial
Printing\" }, { \"indCodeDescLangCode\": \"Commercial Gravure
Printing\
\", \"
dnbCodeValue\
\":700.0,\"
industryCode\
\": \"
323111
\
\", \"
DisplaySequence\
\":1.0, \"typeText\": \"NAICS\", \"indCodeDesc\": \"Commercial
Gravure Printing\", \"indCodeDescLengthCode\": \"Commercial
Gravure Printing\" }, { \"indCodeDescLangCode\": \"Commercial
Printing (except Screen and
Books)\
\", \"
dnbCodeValue\
\":24664.0,\"
industryCode\
\": \"323111\", \"DisplaySequence\":1.0, \"typeText\": \"North
American Industry Classification System
2012\", \"indCodeDesc\": \"Commercial Printing (except Screen
and Books)\", \"indCodeDescLengthCode\": \"Commercial Printing
(except Screen and Books)\",

\", \"
\":21182.0,\"

\": \"22.220\", \"DisplaySequence\":1.0, \"typeText\": \"UK SIC

\", \"indCodeDescLengthCode\": \"Other printing\" },

\", \"
\":3599.0,\"

```

```

financialStatementToDate\":"2015-12-
31
\
",\"
financialPeriodDuration\":"P1Y\"}],\"CurrentPrincipal\":"
[{\\"managementResponsibility\":"null,\\\"jobTitle\":"Sec-
treas\
",\"
middleName\
":\"
J\
",\"
lastName\
":\"
Hunt\
",\"
principalAge\
":null,\"
namePrefix\
":\"
Mr\
",\"
firstName\
":\\\"Kevin\\\",\\\"nameSuffix\":"null}],\"CompProfiles\":"
{\\\"nonMarketableReason\":"De-listed, Insufficient
Data\
",\"
laborSurplusAreaIndicator\
":false,\"legalForm\":"451.0,\"lastUpdateDate\":"2016-4-
1
\
",\"
dunsNumber\
":\"
804735132
\
",\"
femaleOwnedIndicator\
":false,\"organizationSummary\":"Commercial printing,
lithographic\
",\"
issuedShareCapitalAmount\
":null,\"
marketabilityIndicator\

ethnicityType\

Unknown\

```

```

minorityOwnedIndicator\

```

```

smallBusinessIndicator\

```

```

marketingRiskClass\

```

```

Low\

```

```

accountantName\

```

```

printing, lithographic\
  "NavigateToPageNo": null
},
"Message": null,
"IsSuccess": true,
"ClientScript": null,
"Serialized": null,
"ErrorCode": 0
}

```

DUNS Corporate Linkage

This method returns only the direct line entities between the requested company and the global ultimate, for example the upward family tree. The call is made using FTOS_EXTD_DUNS_CompProfile_Endpoint.

Call Example

Request:

```

{
  "ApiInfo": {
    "Token": "{{access_token}}"
  },
  "Request": {
    "ActionName": "FTOS_EXTD_DUNS_CorLinkage_Endpoint",
    "Data": "{ dunsNumber: \"804735132\",
attachCompressedProductIndicator: \"true\" }"
  }
}

```

Response:

```

{
  "UIResult": {
    "NavigateToEntityPage": false,
    "NavigateToEntityPageOnEdit": false,
    "NavigateToEntityFormName": null,
    "NavigateToEntityName": null,
    "NavigateToEntityId": null,
  }
}

```

```
"NavigateToEntityInsertDefaults": null,  
"NavigateToUrl": null,  
"DownloadFile": null,  
"ReloadPage": false,  
"Message": null,  
"IsSuccess": false,
```

```

        "Data": "{\\"BusinessSearchCorplinkage\\":
        {\\"transactionTimestamp\\":\\"2017-01-
        19
        T12:
        13
        :
        34.964
        +
        00
        :
        00
        \\
        \",\\"
        applicationTransactionID\\
        \":\\"
        ServiceGovernanceSample\\
        \",\\"
        serviceTransactionID\\
        \":\\"ServiceGovernanceSample\\",\\"Corplinkage\\":
        {\\"familyTreeMemberRole\\":\\"Headquarters,
        Parent\\
        \",\\"
        linkageRoleText\\
        \":null,\\"siblingCount\\":null,\\"lineText\\":\\"NEW
        RD\\",\\"linkageOrgPrimaryName\\":\\"ISC TRADE
        CORPORATION.\\
        \",\\"territoryAbbreviatedName\\":null,\\"postalCode\\":\\"10001-
        1700
        \\
        \",\\"
        dunsNumber\\
        \":\\"
        000001111
        \\
        \",\\"
        linkageCountry\\
        \":\\"
        NL\\
        \",\\"
        linkageOrgCount\\":6.0,\\"directChildrenIndicator\\":\\"false,
        true, true,
        true
        \\
        \",\\"
        linkageUndeliverable\\
        \":null,\\"
        \":\\"
        \\
        parentDUNSNumber\\
        linkageTerritoryAbbreviated\\
        county\\
        TARNOBRZEG\\

```

```

linkageMemberAssocType\
":\\"ParentSubsidiary\\",\\"territory\\":\\"New
York\
",\\"
headquartersDUNSNumber\
":null,\
townName\\":\\"ANNOPOL\\",\\"primaryName\\":\\"INTERNATIONAL
SYSTEM CORPORATION\\",\\"childrenQuantity\\":\\"2441, 8, 62,
10
\
",\\"
familyTreeHierarchyLevel\
":1.0,\
isUndeliverable\\":null,\\"linkageAddressLineText\\":\\"Robert
Johan\
",\\"
linkagePrimaryTownName\
":\\"Amsterdam\\",\\"subjectHeaderDUNSNumber\\":\\"000007777,
000007777\\",\\"country\\":\\"US\\"}}",
    "NavigateToPageNo": null
  },
  "Message": null,
  "IsSuccess": true,
  "ClientScript": null,
  "Serialized": null,
  "ErrorCode": 0
}

```