**BoardEx**

**Datafeed**

**Standard Data (Profile)**

**Technical Reference Document**

Prepared by: BoardEx

Version: 4.2CONTENTS

[1. Document Overview 5](#_Toc81553601)

[1.1 Overview 5](#_Toc81553602)

[1.2 Scope 5](#_Toc81553603)

[1.3 Assumptions 5](#_Toc81553604)

[1.4 Definition of Terms 6](#_Toc81553605)

[2. Technical Overview 7](#_Toc81553606)

[2.1 Summary 7](#_Toc81553607)

[2.2 Technology 7](#_Toc81553608)

[2.3 Common Identifiers 7](#_Toc81553609)

[3. Using the Datafeed 9](#_Toc81553610)

[3.1 Overview 9](#_Toc81553611)

[3.2 Accessing the FTP Site 9](#_Toc81553612)

[4. File Structures And Definitions 11](#_Toc81553613)

[4.1 Overview 11](#_Toc81553614)

[4.2 Data Type Definitions 11](#_Toc81553615)

[4.3 Filename and Data Element Construction 12](#_Toc81553616)

[4.4 Board and Director Announcements 13](#_Toc81553617)

[4.5 Board and Director Committees 13](#_Toc81553618)

[4.6 Director Profile Details 14](#_Toc81553619)

[4.7 Director Profile Employment 14](#_Toc81553620)

[4.8 Director Profile Education 15](#_Toc81553621)

[4.9 Director Profile Achievements 16](#_Toc81553622)

[4.10 Director Profile Other Activities 16](#_Toc81553623)

[4.11 Company Profile Details 16](#_Toc81553624)

[4.12 Company Profile Market Cap 18](#_Toc81553625)

[4.13 Company Profile Advisors 18](#_Toc81553626)

[4.14 Company Profile Stocks 18](#_Toc81553627)

[4.15 Company Profile Senior Managers 18](#_Toc81553628)

[4.16 Director Characteristics 19](#_Toc81553629)

[4.17 Board Characteristics 20](#_Toc81553630)

[4.18 Company Profile Deleted 20](#_Toc81553631)

[4.19 Director Profile Deleted 21](#_Toc81553632)

[5. Data Definitions 22](#_Toc81553633)

[5.1 Overview 22](#_Toc81553634)

[5.2 Data Category Definitions 22](#_Toc81553635)

[5.3 Data Category Relationships 23](#_Toc81553636)

[5.4 Board and Director Announcements 24](#_Toc81553637)

[5.5 Board and Director Committees 25](#_Toc81553638)

[5.6 Director Profile Details 26](#_Toc81553639)

[5.7 Director Profile Employment 27](#_Toc81553640)

[5.8 Director Profile Education 28](#_Toc81553641)

[5.9 Director Profile Achievements 29](#_Toc81553642)

[5.10 Director Profile Other Activities 29](#_Toc81553643)

[5.11 Company Profile Details 30](#_Toc81553644)

[5.12 Company Profile Market Cap 31](#_Toc81553645)

[5.13 Company Profile Advisors 32](#_Toc81553646)

[5.14 Company Profile Stocks 32](#_Toc81553647)

[5.15 Company Profile Senior Managers 33](#_Toc81553648)

[5.16 Director Characteristics 33](#_Toc81553649)

[5.17 Board Characteristics 35](#_Toc81553650)

[5.18 Company Profile Deleted 37](#_Toc81553651)

[5.19 Director Profile Deleted 37](#_Toc81553652)

[6. Delta File Processing 38](#_Toc81553653)

[6.1 Delta File Updates 38](#_Toc81553654)

[6.2 Company and Director Deletions 39](#_Toc81553655)

[7. Filtering the feed 41](#_Toc81553656)

[7.1 Filtering By Country 41](#_Toc81553657)

[7.2 Filtering by Index 41](#_Toc81553658)

[7.3 Filtering by a user defined set 41](#_Toc81553659)

[7.4 Using the Filtered feed 41](#_Toc81553660)

[Appendix A – Country Names 42](#_Toc81553661)

[Appendix B – Data Category Relationships 47](#_Toc81553662)

[Appendix C – Client Information 51](#_Toc81553663)

[Appendix D – Data Sub-Category Identifiers 52](#_Toc81553664)

[Appendix E – Lookup Files 53](#_Toc81553665)

[Appendix F – Date Flags 55](#_Toc81553666)

**Version History**

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| --- | --- | --- |
| **Version** | **Date** | **Comments** |
| 3.4 | 11/05/2011 | Draft based on Datafeed Technical Reference document |
| 3.5 | 20/03/2012 | Updated for version 3.5 |
| 3.5 | 14/12/2016 | Updated hosting information |
| 4.0 | 15/08/2018 | Updated for version 4.0 |
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**Document Distribution**

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| --- | --- | --- |
| **Name** | **Company** | **Date** |
| Client |  |  |
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# Document Overview

## Overview

The purpose of this document is to provide the data definitions used within the BoardEx Datafeed, the requirements for use, and where relevant the technical specifications of the Service itself.

## Scope

This document covers the data definitions of all fields available within the BoardEx Production Database, the technical specifications of CSV files generated by the Datafeed, and the technical specifications for retrieving information via the sFTP site.

## Assumptions

1. All lookups used in the formation of the BoardEx Production Database have been translated into the relevant values e.g. CountryID becomes CountryName with the exception of the two key identifiers used throughout the product – i.e. CompanyID and DirectorID.
2. Data is generated in flat files adhering to commercial standards – preferred format is pipe (“|”) delimited and unquoted.
3. Files contain Unicode data and cannot be converted to ANSI. Format is UCS2-LE.
4. All data columns used internally for the processing of data, and/or columns key to intellectual copyright have either been removed or translated into their descriptive fields.
5. Owing to the variances of data encountered within Annual Reports and other sources of information, all data within the BoardEx Production Database is formatted on delivery as it would appear in both the BoardEx product and the source material and is accurate to the date reported on the file name;
6. For integration into a Client’s CRM system it is assumed that contact information within the CRM will have been mapped to the Company Entity and Director Entity within the BoardEx Production Database or the Client equivalent.

## Definition of Terms

| **Term** | **Description** |
| --- | --- |
| BoardEx Datafeed | A BoardEx product that enables Clients to retrieve data directly from the BoardEx Production Database flat files |
| BoardEx FTP Site | The BoardEx File Transfer Protocol (FTP) Site which all Clients requiring file downloads need to access at [sftp.boardex.com/](ftp://dasftp.boardex.com/). |
| BoardEx Production Database | The Production Database that powers the BoardEx product and the BoardEx Datafeed |
| Client | A BoardEx Customer who subscribes to BoardEx. |
| CompanyID | A unique identifier allocated to each company entity within the BoardEx Production environment |
| Data Category | A subset of information within the BoardEx Production Database e.g. Board and Director Announcements |
| Data Sub-Category | A subset of information within a Data Category e.g. Listed Board Associations |
| DirectorID | A unique identifier allocated to each director entity within the BoardEx Production environment |
| Overnight Data Download | The daily download element of the BoardEx Datafeed which monitors change in the BoardEx Production Database and downloads change data to the BoardEx FTP Site |

# Technical Overview

## Summary

The BoardEx Datafeed is a pre-configured change mechanism that monitors changes overnight within the BoardEx Production Database and then, for each Client, exports all changes to a designated Client directory which can be accessed via the File Transfer Protocol (FTP or sFTP).

The Overnight Data Download process monitors the BoardEx Production Database for any changes that have occurred in the previous working day. The process marks all changes for download by Data Category, and then according to Client requirements will download each Data Category to the BoardEx FTP site allocated to that Client. The file structures will be in delimited flat files formatted according to Client specifications, and for remuneration-based data, will be in the default currency specified by the Client. If no currency has been specified it will default to Euros.

Files are generated for each sub-category found within the main data categories of the BoardEx Production Database with each file labelled with the Data Sub-Category name and containing the previous working day’s date as part of the file name.

The data transfer mechanism is via FTP or secure FTP (sFTP). Files transferred via FTP are compressed and encrypted before transfer. Each Client is allocated a specific download folder and required to authenticate to the site by source IP address, username and password and/or PKI for sFTP. Further information on how to access the FTP site is detailed in Section 3.5.

## Technology

The Datafeed makes use of the latest technologies available from Microsoft. All data is stored within a series of Microsoft SQL Server 2014 databases arranged in a load balanced array configuration to ensure maximum resiliency and uptime. BoardEx’s standard operating system configuration is Windows Server 2012.

By default, files generated by the Datafeed use standard notation i.e. delimited values and column names in the first row. Other delimiter options are available however and should be specified at time of implementation.

## Common Identifiers

The BoardEx Production Database has two key entities which are used throughout the database and form the two points to which data can be mapped between the BoardEx database and a Client’s CRM.

Each of these entities is allocated a unique ID which is used throughout the data categories available within the Datafeed.

The two identifiers are: -

* DirectorID – The identifier allocated to the Director Entity on a one to one basis i.e. a Director will only ever have one identifier.
* CompanyID – The identifier allocated to a Company Entity on a one to one basis i.e. a Company will only ever have one identifier. All Organisations entered into the Database irrespective of type e.g Quoted Companies or Not-For-Profit Organisations, will be allocated a CompanyID.

Other identifiers used within the system are: -

* BoardID – In certain views the base company is shown in conjunction with other company records e.g. Board or Director Committees. In these instances, the term BoardID is used to display the base CompanyID. This is detailed further in Section 4 under the relevant data categories that use this field.
* DirBrdID - In certain views the base director is shown in conjunction with other director records e.g. Board or Director Committees. In these instances, the term DirBrdID is used to display the base DirectorID. This is detailed further in Section 4 under the relevant data categories that use this field.
* ClientCompanyID – Client provided identifier used to map to the BoardEx Company identifier within the Client CRM.
* ClientDirectorID – Client provided identifier used to map to the BoardEx Director identifier within the Client CRM.

# Using the Datafeed

## Overview

The Datafeed provides Clients with the ability to download information on a daily basis from the BoardEx FTP site - sftp.boardex.com (Secure File Transfer Protocol)

Each Client is allocated a secure folder within the BoardEx FTP site. Please refer to Appendix D for details of the User Accounts and Passwords.

The Datafeed is updated daily as part of the main BoardEx product and therefore changes can be downloaded from the sFTP site daily.

Please refer to Appendix B for an overview of the process flow of the Datafeed.

## Accessing the FTP Site

### Overview

The sFTP Service is configured and hosted by BoardEx and will be made privately available to its Clients via the Internet.

The BoardEx FTP site can be located at sftp.boardex.com. Files are downloaded for each Client on a daily basis between the hours of 6.30am to 9.30am GMT once all the overnight calculations have been completed. This ensures that each file is completely synchronised with the BoardEx product.

### Client Requirements

The Client will need to ensure that the following is in place prior to accessing the BoardEx FTP site:

1. A pre-defined list of authorised source IP Addresses (single or a range).
2. Access to a licensed copy of Winzip (or similar) and for automated decompression of files.
3. BoardEx have provided the Client with their sFTP User Account and password.
4. An RFC compliant FTP Client or sFTP client.

### FTP Server - Technical Configuration

The FTP Server has the following configuration: -

| **Item** | **Specification** |
| --- | --- |
| Operating System (OS) | Windows 2012 Server |
| OS Service Pack | n/a |
| OS Patch | Latest Available |
| OS Components | Internet Information Services (IIS) 10 – FTP Service |
| Domain Membership | None |
| Network | Screened Subnet |
| Accessibility | sFTP, FTP only, secured by source IP |
| Security Template | MDL Public IIS Server Security Template (Highly Secure) |

In addition, all FTP related data is stored on a NTFS secured partition which is read only and has auditing enabled. Only authorised security principals will be granted access and any attempted access violation is logged and investigated as a matter of course.

### File Retrieval Process

The process to retrieve a file from the BoardEx FTP Site is as follows: -

1. Login to sFTP site using the User Account and Password allocated. Authentication will take place with access being granted to a specific Client folder if authentication is successful and the source IP address is recognised on the pre-defined list provided by the Client.
2. For sFTP data transfers all files will be compressed. Files transferred via sFTP will only be compressedbefore being written to the Client folder. The Client should send the relevant FTP retrieval command e.g. GET to the BoardEx FTP Site, which will download the files to a Client directory. On successful download of files, the Client will decompress the files with WinZip® or similar either manually or automatically by batch process.

### Data Encryption and Compression

Files on the Board FTP site are compressed using the following:

* WinRAR®: The files are zipped and encrypted using a Client specific password. These files can be decompressed manually using WinZip® or automatically from a batch script using the WinZip® Command Line utility.

Files will remain on site for a period of no more than 40 days so should a breakdown in connectivity occur between the BoardEx sFTP site and the Client Site, successive attempts can be made to download the files.

# File Structures And Definitions

## Overview

The Datafeed provides Flat Files using standard notation i.e. delimited with pipes (“|”), column names in first row and CRLF row terminator.

A detailed definition of each field contained within the files is shown in Section 4.3 onwards. Owing to the difficulty of displaying data for characters outside of standard Latin Character Sets, all data is displayed using Unicode character encoding to ensure that characters from the Cyrillic alphabet for example are displayed correctly. The files are UCS-2 LE encoded which implies 2 bytes per character. The files cannot be converted to ANSI without losing data.

All flat files are structured using commercial standards and therefore all string values are enclosed within double quotes, all numeric values are displayed without quotes, and each value is separated by a comma. At the end of each row a carriage feed return is exported.

Listing 4.1 displays an example of a CSV file generated for the Board and Director Announcements Data Category.

|  |
| --- |
| CompanyName|CompanyID|ClientCompanyID|DirectorName|DirectorID|ClientDirectorID|CommitteeName|  RoleName|Description|AnnouncementDate|EffectiveDate  PEPSICO INC|24151||David Andrews|33339|||Senior VP/General Counsel|It has been announced that David Andrews will leave this Board|23 Aug 2004|Feb 2005 |

*Listing 4.1: Sample of data from the Board and Director Announcements CSV file*

Where data is not available fields will be left blank. To facilitate the importation of flat files, each file will always have a first row containing column names. Column Names will never contain spaces.

## Data Type Definitions

Data Type definitions used within the Datafeed are standard Microsoft definitions and can be defined generically as follows: -

|  |  |
| --- | --- |
| **Data type** | **Description** |
| Int | Integer value |
| Float | Floating point number that will include Single or Double floating points |
| Datetime | Stores a full date and time in accordance with ISO standards |
| Boolean | Boolean value of True or False, Yes or No, equating to bit within SQL Server |
| String | A text field which providing character encoding is set correctly to Unicode will display all non-Latin based character sets correctly e.g. Cyrillic |

Owing to the requisite formatting that has to take place, all files currently have two data types only: -

1. **Int** – typically used for all identifiers within the system e.g. CompanyID, and DirectorID.
2. **String** – used for all other fields. This includes all numeric fields, and date fields which must be converted into a String data type to ensure that data is formatted to display as per the original source or BoardEx business rules.

When accessing a CSV file, it is recommended that a Text Editor is used rather than an application such as Microsoft Excel due to the default formatting that will occur on importing text files. This is particularly true of values such as dates.

## Filename and Data Element Construction

### Filename Construction

Detailed below is a list of all filenames that will be produced by the Datafeed according to the Data Category and Data Sub-Categories. For further information on Data Category Definitions please refer to Section 5.

|  |  |  |
| --- | --- | --- |
| Data Category | Data Sub-Category | Filename |
| Announcements | Board and Director Announcements | Board and Director Announcements |
| Committees | Board and Director Committees | Board and Director Committees |
| Characteristics | Director Characteristics | Director Characteristics |
| Board Characteristics | Board Characteristics |
| Director Profile | Director Profile Details | Director Profile Details |
| Director Profile Employment | Director Profile Employment |
| Director Profile Education | Director Profile Education |
| Director Profile Achievements | Director Profile Achievements |
| Director Profile Other Activities | Director Profile Other Activities |
| Company Profile | Company Profile Details | Company Profile Details |
| Company Profile Market Cap | Company Profile Market Cap |
| Company Profile Advisors | Company Profile Advisors |
| Company Profile Stocks | Company Profile Stocks |
| Company Profile Senior Managers | Company Profile Senior Managers |

The final file name will consist of the Filename detailed above for each category, then the date for the previous working day and finally the file extension in the format FilenameYYYYMMDD.ext where .ext can be one of csv or zip e.g.

***“Board and Director Announcements20040823.csv”***

## Board and Director Announcements

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Format |
| PrimaryKeyID | Integer – 4 bytes | Not Applicable |
| CompanyName | String – 128 characters | Not Applicable |
| CompanyID | Integer – 4 bytes | Not Applicable |
| ClientCompanyID | Integer – 4 bytes | Not Applicable |
| DirectorName | String – 255 characters | Not Applicable |
| DirectorID | Integer – 4 bytes | Not Applicable |
| ClientDirectorID | Integer – 4 bytes | Not Applicable |
| CommitteeName | String – 100 characters | Not Applicable |
| RoleName | String – 100 characters | Not Applicable |
| Description | String – 255 characters | Not Applicable |
| AnnouncementDate | Date | YYYY-MM-DD |
| AnnouncementDateFlag | Integer – 4 bytes | Not Applicable |
| AnnouncementDateDisplay | String – 255 characters | Not Applicable |
| EffectiveDate | Date | YYYY-MM-DD |
| EffectiveDateFlag | Integer – 4 bytes | Not Applicable |
| EffectiveDateDisplay | String – 255 characters | Not Applicable |

## Board and Director Committees

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Format |
| BoardID | Integer – 4 bytes | Not Applicable |
| BoardName | String – 128 characters | Not Applicable |
| ClientCompanyID | Integer – 4 bytes | Not Applicable |
| NED | String – 3 characters | Not Applicable |
| AnnualReportDate | DateTime converted to String – 11 characters | MMM YYYY |
| CommitteeName | String – 100 characters | Not Applicable |
| DirectorID | Integer – 4 bytes | Not Applicable |
| DirectorName | String – 255 characters | Not Applicable |
| ClientDirectorID | Integer – 4 bytes | Not Applicable |
| CommitteeRoleName | String – 100 characters | Not Applicable |
| DateStartRole | Date | YYYY-MM-DD |
| DateStartRoleFlag | Integer – 4 bytes | Not Applicable |
| DateStartRoleDisplay | String – 255 characters | Not Applicable |
| DateEndRole | Date | YYYY-MM-DD |
| DateEndRoleFlag | Integer – 4 bytes | Not Applicable |
| DateEndRoleDisplay | String – 255 characters | Not Applicable |
| FunctionalExperience | String – 100 characters | Not Applicable |
| BoardRole | String – 100 characters | Not Applicable |
| *OtherLikeCommittees* | *String – 255 characters* | Not Applicable |
| *OtherBoardID* | *Integer – 4 bytes* | Not Applicable |
| *OtherBoardName* | *String – 128 characters* | Not Applicable |
| BrdPosition | String – 50 characters | Not Applicable |
| DirRoleStatus | String – 255 characters | Not Applicable |

*1 Ignore field - Legacy field as placeholder*

## Director Profile Details

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Format |
| DirectorID | Integer – 4 bytes | Not Applicable |
| DirectorName | String – 255 characters | Not Applicable |
| ClientDirectorID | Integer – 4 bytes | Not Applicable |
| Title | String – 50 characters | Not Applicable |
| Forename1 | String – 100 characters | Not Applicable |
| Forename2 | String – 100 characters | Not Applicable |
| Forename3 | String – 100 characters | Not Applicable |
| Forename4 | String – 100 characters | Not Applicable |
| UsualName | String – 100 characters | Not Applicable |
| Surname | String – 255 characters | Not Applicable |
| SuffixTitle | String – 100 characters | Not Applicable |
| DOB | DateTime | YYYY-MM-DD |
| DOBFlag | Integer – 4 bytes | Not Applicable |
| DOBDisplay | String – 255 characters | Not Applicable |
| DOD | DateTime | YYYY-MM-DD |
| DODFlag | Integer – 4 bytes | Not Applicable |
| DODDisplay | String – 255 characters | Not Applicable |
| Age | Integer converted into String | Not Applicable |
| Gender | String – 1 character | Not Applicable |
| Nationality | String – 255 characters | Not Applicable |
| Recreations | String – 500 characters | Not Applicable |
| DirectorVisible | String – 3 characters | “Yes” or “No” |
| LinkedInURL | String – 500 characters | Not Applicable |
| WealthXID | Integer – 4 bytes | Not Applicable |
| DiversityNetworkLabel | String – 255 characters | Not Applicable |
| PrimaryRoleID | Integer – 4 bytes | Not Applicable |

## Director Profile Employment

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Format |
| PrimaryKeyID | Integer – 4 bytes | Not Applicable |
| RowType | String – 50 characters | Not Applicable |
| DirectorID | Integer – 4 bytes | Not Applicable |
| DirectorName | String – 255 characters | Not Applicable |
| ClientDirectorID | Integer – 4 bytes | Not Applicable |
| CompanyID | Integer – 4 bytes | Not Applicable |
| CompanyName | String – 128 characters | Not Applicable |
| ClientCompanyID | Integer – 4 bytes | Not Applicable |
| DateStartRole | DateTime | YYYY-MM-DD |
| DateStartRoleFlag | Integer – 4 bytes | Not Applicable |
| DateStartRoleDisplay | String – 255 characters | Not Applicable |
| DateEndRole | DateTime | YYYY-MM-DD |
| DateEndRoleFlag | Integer – 4 bytes | Not Applicable |
| DateEndRoleDisplay | String – 255 characters | Not Applicable |
| BrdPosition | String – 50 characters | Not Applicable |
| RoleName | String – 100 characters | Not Applicable |
| FulltextDescription | String – 250 characters | Not Applicable |
| NED | String – 3 characters | “Yes” or “No” |
| LeaderShipTeam | String – 3 characters | “Yes” or “No” |

## Director Profile Education

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Format |
| PrimaryKeyID | Integer – 4 bytes | Not Applicable |
| RowType | String – 50 characters | Not Applicable |
| DirectorID | Integer – 4 bytes | Not Applicable |
| DirectorName | String – 255 characters | Not Applicable |
| ClientDirectorID | Integer – 4 bytes | Not Applicable |
| CompanyID | Integer – 4 bytes | Not Applicable |
| CompanyName | String – 128 characters | Not Applicable |
| ClientCompanyID | Integer – 4 bytes | Not Applicable |
| AwardDate | DateTime | YYYY-MM-DD |
| AwardDateFlag | Integer – 4 bytes | Not Applicable |
| AwardDateDisplay | String – 255 characters | Not Applicable |
| Qualification | String – 500 characters | Not Applicable |
| FullTextDescription | String – 250 characters | Not Applicable |

## Director Profile Achievements

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Format |
| PrimaryKeyID | Integer – 4 bytes | Not Applicable |
| RowType | String – 50 characters | Not Applicable |
| DirectorID | Integer – 4 bytes | Not Applicable |
| DirectorName | String – 255 characters | Not Applicable |
| ClientDirectorID | Integer – 4 bytes | Not Applicable |
| CompanyID | Integer – 4 bytes | Not Applicable |
| CompanyName | String – 128 characters | Not Applicable |
| ClientCompanyID | Integer – 4 bytes | Not Applicable |
| AchievementDate | DateTime | YYYY-MM-DD |
| AchievementDateFlag | Integer – 4 bytes | Not Applicable |
| AchievementDateDisplay | String – 255 characters | Not Applicable |
| Achievement | String – 255 characters | Not Applicable |

## Director Profile Other Activities

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Format |
| PrimaryKeyID | Integer – 4 bytes | Not Applicable |
| RowType | String – 50 characters | Not Applicable |
| DirectorID | Integer – 4 bytes | Not Applicable |
| DirectorName | String – 255 characters | Not Applicable |
| ClientDirectorID | Integer – 4 bytes | Not Applicable |
| CompanyID | Integer – 4 bytes | Not Applicable |
| CompanyName | String – 128 characters | Not Applicable |
| ClientCompanyID | Integer – 4 bytes | Not Applicable |
| StartDate | DateTime | YYYY-MM-DD |
| StartDateFlag | Integer – 4 bytes | Not Applicable |
| StartDateDisplay | String – 255 characters | Not Applicable |
| EndDate | DateTime | YYYY-MM-DD |
| EndDateFlag | Integer – 4 bytes | Not Applicable |
| EndDateDisplay | String – 255 characters | Not Applicable |
| RoleName | String – 100 characters | Not Applicable |

## Company Profile Details

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Format |
| BoardID | Integer – 4 bytes | Not Applicable |
| BoardName | String – 128 characters | Not Applicable |
| BoardNameShort | String – 255 characters | Not Applicable |
| ClientCompanyID | Integer – 4 bytes | Not Applicable |
| HOAddress1 | String – 128 characters | Not Applicable |
| HOAddress2 | String – 128 characters | Not Applicable |
| HOAddress3 | String – 128 characters | Not Applicable |
| HOAddress4 | String – 64 characters | Not Applicable |
| HOAddress5 | String – 64 characters | Not Applicable |
| HOCountryName | String – 255 characters | Not Applicable |
| HOTelNumber | String – 50 characters | Not Applicable |
| HOFaxNumber | String – 50 characters | Not Applicable |
| HOURL | String – 255 characters | Not Applicable |
| FinancialURL | String – 255 characters | Not Applicable |
| CompanyPolicy | String – 255 characters | Not Applicable |
| CCAddress1 | String – 128 characters | Not Applicable |
| CCAddress2 | String – 128 characters | Not Applicable |
| CCAddress3 | String – 128 characters | Not Applicable |
| CCAddress4 | String – 64 characters | Not Applicable |
| CCAddress5 | String – 64 characters | Not Applicable |
| CCCountryName | String – 255 characters | Not Applicable |
| CCTelNumber | String – 50 characters | Not Applicable |
| CCFaxNumber | String – 50 characters | Not Applicable |
| CIKCode | String – 10 characters | Not Applicable |
| Sector | String – 100 characters | Not Applicable |
| Index | String – 255 characters | Not Applicable |
| OrgVisible | String – 3 characters | “Yes” or “No” |
| OrgType | String – 100 characters | One of:  Air Force  Armed Forces  Army  Charities  Clubs  Government  Medical  Navy  Private  Quoted  Sporting  Universities |
| PreviousCompanyID | String – 255 characters | Not Applicable |
| SuccessorCompanyID | String – 255 characters | Not Applicable |
| UltimateParentCompanyID | String – 100 characters | Not Applicable |

## Company Profile Market Cap

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Format |
| BoardID | Integer – 4 bytes | Not Applicable |
| BoardName | String – 128 characters | Not Applicable |
| ClientCompanyID | Integer – 4 bytes | Not Applicable |
| Currency | String – 3 characters | Not Applicable |
| MktCapitalisation | Floating point number converted to String | Displayed in Millions with 0 decimal places |
| NoEmployees | Floating point number converted to String | Displayed with 0 decimal places |
| OrgVisible | String – 3 characters | “Yes” or “No” |
| Revenue | Floating point number converted to String | Displayed in Millions with 0 decimal places |

## Company Profile Advisors

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Format |
| BoardID | Integer – 4 bytes | Not Applicable |
| BoardName | String – 128 characters | Not Applicable |
| ClientCompanyID | Integer – 4 bytes | Not Applicable |
| AdvisorName | String – 255 characters | Not Applicable |
| AdvTypeDesc | String – 50 characters | Not Applicable |
| OrgVisible | String – 3 characters | “Yes” or “No” |

## Company Profile Stocks

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Format |
| BoardID | Integer – 4 bytes | Not Applicable |
| BoardName | String – 128 characters | Not Applicable |
| ClientCompanyID | Integer – 4 bytes | Not Applicable |
| Ticker | String – 10 characters | Not Applicable |
| ISIN | String – 12 characters | Not Applicable |
| OrgVisible | String – 3 characters | “Yes” or “No” |
| CountryOfQuote | String – 100 characters | If Country of Quote is not known then Unknown will be displayed. |
| PrimaryStock | String – 3 characters | “Yes” or “No” |

## Company Profile Senior Managers

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Format |
| BoardID | Integer – 4 bytes | Not Applicable |
| BoardName | String – 128 characters | Not Applicable |
| DirectorID | Integer – 4 bytes | Not Applicable |
| DirectorName | String – 255 characters | Not Applicable |
| DateStartRole | DateTime | YYYY-MM-DD |
| DateStartRoleFlag | Integer – 4 bytes | Not Applicable |
| DateStartRoleDisplay | String – 255 characters | Not Applicable |
| DateEndRole | DateTime | YYYY-MM-DD |
| DateEndRoleFlag | Integer – 4 bytes | Not Applicable |
| DateEndRoleDisplay | String – 255 characters | Not Applicable |
| RoleName | String – 100 characters | Not Applicable |
| RoleDescription | String – 250 characters | Not Applicable |
| DirectorVisible | String – 3 characters | “Yes” or “No” |

## Director Characteristics

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Format |
| RowType | String – 50 characters | Not Applicable |
| BoardID | Integer – 4 bytes | Not Applicable |
| BoardName | String – 128 characters | Not Applicable |
| ClientCompanyID | Integer – 4 bytes | Not Applicable |
| AnnualReportDate | DateTime converted to String – 11 characters | MMM YYYY, Current |
| NED | String – 3 characters | Not Applicable |
| DirectorID | Integer – 4 bytes | Not Applicable |
| DirectorName | String – 255 characters | Not Applicable |
| ClientDirectorID | Integer – 4 bytes | Not Applicable |
| RoleName | String – 100 characters | Not Applicable |
| TimeRetirement | Floating point number converted to String | Displayed with 1 decimal place |
| TimeRole | Floating point number converted to String | Displayed with 1 decimal place |
| TimeBrd | Floating point number converted to String | Displayed with 1 decimal place |
| TimeInCo | Floating point number converted to String | Displayed with 1 decimal place |
| AvgTimeOthCo | Floating point number converted to String | Displayed with 1 decimal place |
| TotNoLstdBrd | Floating point number converted to String | Displayed with 0 decimal places |
| TotNoUnLstdBrd | Floating point number converted to String | Displayed with 0 decimal places |
| TotNoOthLstdBrd | Floating point number converted to String | Displayed with 0 decimal places |
| TotCurrNoLstdBrd | Floating point number converted to String | Displayed with 0 decimal places |
| TotCurrNoUnLstdBrd | Floating point number converted to String | Displayed with 0 decimal places |
| TotCurrNoOthLstdBrd | Floating point number converted to String | Displayed with 0 decimal places |
| NoQuals | Floating point number converted to String | Displayed with 0 decimal places |
| RoleStatus | String – 50 characters | Not Applicable |
| Gender | String – 1 character | Not Applicable |
| Nationality | String – 255 characters | Not Applicable |

## Board Characteristics

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Format |
| BoardID | Integer – 4 bytes | Not Applicable |
| BoardName | String – 128 characters | Not Applicable |
| ClientCompanyID | Integer – 4 bytes | Not Applicable |
| AnnualReportDate | DateTime converted to String – 11 characters | MMM YYYY, Current |
| RowType | String – 50 characters | Not Applicable |
| TimeRetirement | Floating point number converted to String | Displayed with 1 decimal place |
| TimeRole | Floating point number converted to String | Displayed with 1 decimal place |
| TimeBrd | Floating point number converted to String | Displayed with 1 decimal place |
| TimeInCo | Floating point number converted to String | Displayed with 1 decimal place |
| AvgTimeOthCo | Floating point number converted to String | Displayed with 1 decimal place |
| TotNoLstdBrd | Floating point number converted to String | Displayed with 1 decimal place |
| TotNoUnLstdBrd | Floating point number converted to String | Displayed with 1 decimal place |
| TotNoOthLstdBrd | Floating point number converted to String | Displayed with 1 decimal place |
| TotCurrNoLstdBrd | Floating point number converted to String | Displayed with 1 decimal place |
| TotCurrNoUnLstdBrd | Floating point number converted to String | Displayed with 1 decimal place |
| TotCurrNoOthLstdBrd | Floating point number converted to String | Displayed with 1 decimal place |
| NoQuals | Floating point number converted to String | Displayed with 1 decimal place |
| Succession | Floating point number converted to String | Displayed with 1 decimal place |
| Attrition | Floating point number converted to String | Displayed as % to 0 decimal places |
| Attrition3yr | Floating point number converted to String | Displayed as % to 0 decimal places |
| GenderRatio | Floating point number converted to String | Displayed as % to 2 decimal places |
| NationalityMix | Floating point number converted to String | Displayed with 1 decimal place |
| NumberDirectors | Floating point number converted to String | Displayed with 0 decimal places |
| STDEVTimeBrd | Floating point number converted to String | Displayed with 1 decimal place |
| STDEVTimeInCo | Floating point number converted to String | Displayed with 1 decimal place |
| STDEVTotNoLstdBrd | Floating point number converted to String | Displayed with 1 decimal place |
| STDEVTotCurrNoLstdBrd | Floating point number converted to String | Displayed with 1 decimal place |
| STDEVNoQuals | Floating point number converted to String | Displayed with 1 decimal place |
| STDEVAge | Floating point number converted to String | Displayed with 1 decimal place |

## Company Profile Deleted

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| BoardID | Integer – 4 bytes | Not Applicable |
| DeletedDate | DateTime converted to String – 11 characters | DD MMM YYYY |
| Purged | String – 3 characters | “Yes” or “No” |

## Director Profile Deleted

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| DirectorID | Integer – 4 bytes | Not Applicable |
| DeletedDate | DateTime converted to String – 11 characters | DD MMM YYYY |
| Purged | String – 3 characters | “Yes” or “No” |

# Data Definitions

## Overview

Detailed below are all of the Data Sub-Categories broken into detailed tables of information showing all data points accessible in the BoardEx Production Database via the Datafeed.

All columns detailed here match exactly to the file structures specified in Section 4 and describe each of the columns in turn and also highlight any business rules applied to the column.

The BoardEx Production Database is broken into a series of major data categories, which in turn are broken down into sub-categories. These categories closely align to those found within the BoardEx product facilitating access to given areas of the product should integration have taken place with the data within a CRM environment.

## Data Category Definitions

### Data Categories

The BoardEx Production database is broken down into the following 9 categories each of which is described in the table below.

|  |  |
| --- | --- |
| Data Category | Description |
| Announcements | Board and Director Announcements made for a given Company, Director or Committee |
| Committees | Details of all Company Committees that a Director serves on including Like Committees and Other Board information |
| Characteristics | All pre-calculated characteristics information at both a director level and board level. |
| Director Profile | All Profile information relating to an individual Director who is visible and active in BoardEx |
| Company Profile | All Profile information relating to an individual Company which is visible and active in BoardEx |

### Data Sub-Categories

Each Data Category will have one or more Data Sub-Categories which align closely to the functionality contained within the BoardEx product. The table below describes each of the Data Sub-Categories.

|  |  |  |
| --- | --- | --- |
| Data Category | Data Sub-Category | Description |
| Announcements | Board and Director Announcements | Board and Director Announcements made for a given Company, Director or Committee |
| Committees | Board and Director Committees | Details of all Company Committees that a Director serves on including Like Committees and Other Board information |
| Characteristics | Director Characteristics | All pre-calculated characteristics information for Directors at a given company including Time Calculations. |
| Board Characteristics | All pre-calculated characteristics information for the Executive Directors, Supervisory Directors, and the Board. This information includes averages of the Director Characteristics, and Board Calculations such as Attrition. |
| Director Profile | Director Profile Details | The Director’s details such as their name, title, Date of Birth etc. |
| Director Profile Employment | A complete employment history for an individual director including all available Organisations that the Director has been employed with |
| Director Profile Education | A complete educational history for a director where information is available |
| Director Profile Achievements | A list of achievements a Director has obtained in their working life |
| Director Profile Other Activities | A list of all clubs, societies, or other organisations to which the Director belongs |
| Company Profile | Company Profile Details | The Company Details such as contact information and web sites |
| Company Profile Market Cap | The current Market Capitalisation and number of employees for a Company |
| Company Profile Advisors | A list of known Advisors the Company retains |
| Company Profile Stocks | A list of stock exchange securities for a Company |
| Company Profile Senior Managers | A list of senior managers (non-board) disclosed per annual report |

## Data Category Relationships

Detailed in Appendix C is a high level relationship diagram that displays the relationships between each of the categories and where relevant the Data Sub-Categories.

These relations can be summarised as follows: -

|  |  |
| --- | --- |
| Data Sub-Category | Relationship Types |
| Director Profile Details | Parent Category |
| Director Profile Employment | One to Many between Company Profile and this Data Sub-Category  One to Many between Director Profile and this Data Sub-Category |
| Director Profile Education | One to Many between Company Profile and this Data Sub-Category  One to Many between Director Profile and this Data Sub-Category |
| Director Profile Achievements | One to Many between Company Profile and this Data Sub-Category  One to Many between Director Profile and this Data Sub-Category |
| Director Profile Other Activities | One to Many between Company Profile and this Data Sub-Category  One to Many between Director Profile and this Data Sub-Category |
| Company Profile Details | Parent Category |
| Company Profile Market Cap | One to One between Company Profile and this Data Sub-Category |
| Company Profile Advisors | One to Many between Company Profile and this Data Sub-Category |
| Company Profile Stocks | One to Many between Company Profile and this Data Sub-Category |

Please note that the Director Profile category and Company Profile category will only contain active and visible Company/Director records.

## Board and Director Announcements

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| PrimaryKeyID | Unique identifier for each record in the file |  |
| CompanyName | Name of organisation that is relevant to the announcement |  |
| CompanyID | A unique identifier allocated to each organisation |  |
| ClientCompanyID | A unique identifier allocated by the Client for each organisation within their CRM/Data Repository | Must be mapped to a Boardex CompanyID or BoardID |
| DirectorName | Name of Director that is relevant to the announcement |  |
| DirectorID | A unique identifier allocated to each director, sourced from DirectorDetails. |  |
| ClientDirectorID | A unique identifier allocated by the Client for each Director/Contact within their CRM/Data Repository | Must be mapped to a BoardEx DirectorID or DirBrdID |
| CommitteeName | Names of the different Committees. |  |
| RoleName | The role as specified | When an announcement is about joining a role the rolename is that of the new role.  When an announcement is about leaving a role the rolename is that of the existing role. |
| Description | Notation of why the change is taking place | Default text is used if nothing noteworthy is disclosed, otherwise, it’s the statement made by the company  Default text It has been announced that “DirectorName” will ‘leave or join’ this ‘Board, Role or Committee. |
| AnnouncementDate | The date when the company makes the notice of the change to the individuals position | YYYY-MM-DD |
| AnnouncementDateFlag | Flag denoting disclosed date |  |
| AnnouncementDateDisplay | Actual disclosed date | Date as Announced by the company (year or month and year) |
| EffectiveDate | The date at which the individuals position within the company changes | YYYY-MM-DD |
| EffectiveDateFlag | Flag denoting disclosed date |  |
| EffectiveDateDisplay | Actual disclosed date | Date as announced by the company (year or month and year) |

## Board and Director Committees

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| BoardID | A unique identifier allocated to each organisation | Must exist in CompanyDetails and be unique |
| BoardName | Name of organisation |  |
| ClientCompanyID | A unique identifier allocated by the Client for each Company within their CRM/Data Repository |  |
| NED | An indicator showing if the employment record is an executive position (setting = No) or a supervisory position (setting = Yes) | Only applicable if the BrdPosition flag has been set to Yes. |
| AnnualReportDate | The Date which the BoardName publishes its annual report and accounts or the last working day. | Defaults to YYYY-MM-28. Where YYYY-MM is the publication date or Current. |
| CommitteeName | Names of the different Committees. |  |
| DirectorID | A unique identifier allocated to each Director |  |
| DirectorName | Name of the Director on BoardName |  |
| ClientDirectorID | A unique identifier allocated by the Client for each Director/Contact within their CRM/Data Repository | Must be mapped to a BoardEx DirectorID or DirBrdID |
| CommitteeRoleName | The role undertaken as specified. |  |
| DateStartRole | The date that the Director’s commenced in that rolename |  |
| DateStartRoleFlag | Flag denoting disclosed date |  |
| DateStartRoleDisplay | Actual disclosed date | Date as Announced by the company (year or month and year) |
| DateEndRole | The date that the Director’s finished in that rolename |  |
| DateEndRoleFlag | Flag denoting disclosed date |  |
| DateEndRoleDisplay | Actual disclosed date | Date as Announced by the company (year or month and year) |
| FunctionalExperience | Employment experience relevant to the committee the Director sits on | Relevant to only Audit (CFO) and Nomination (Chair and CEO) |
| BoardRole | The RoleName taken from the Directors employment at the AnnualReportDate |  |
| *OtherLikeCommittees* | *Not in use – legacy field as placeholder* | *Blank field* |
| *OtherBoardID* | *Not in use – legacy field as placeholder* | *Blank field* |
| *OtherBoardName* | *Not in use – legacy field as placeholder* | *Blank field* |
| BrdPosition | The Directors Postion on a Board | Yes, No, Inside, Outside |
| DirRoleStatus | Details of when the Director joined or left the role |  |

## Director Profile Details

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| DirectorID | A unique identifier allocated to each Director |  |
| DirectorName | Title + Forename1 + (UsualName) + Surname + SuffixTitle | Where applicable Forename1 or Usual Name has Forename 2 added to aid identification where only initials are shown in either. |
| ClientDirectorID | A unique identifier allocated by the Client for each Director/Contact within their CRM/Data Repository | Must be mapped to a BoardEx DirectorID or DirBrdID |
| Title | All standard forms of address such as Mr and Mrs, plus any titles such as Lord and Lady that the Director has inherited or been awarded. |  |
| Forename1 | The Director’s first name |  |
| Forename2 | The Director’s second forename |  |
| Forename3 | The Director’s third forename |  |
| Forename4 | The Director’s fourth forename |  |
| UsualName | The preferred name or nick name that the director is typically called by colleagues and friends e.g. Bob. |  |
| Surname | The Director’s surname |  |
| SuffixTitle | Any awards or titles such as the MBE that the Director is entitled to use |  |
| DOB | A Director’s Date of Birth. | This value can be disclosed as an age in which case we assume a Date of Birth using the formula Current date less age.  Where only the year of birth or the month and year of  birth are known we assume an exact date birth.  YYYY-MM-DD |
| DOBFlag | Flag denoting disclosed date |  |
| DOBDisplay | Actual disclosed date | Date as Announced by the company (year or month and year) |
| DOD | A Director’s Date of Death | YYYY-MM-DD |
| DODFlag | Flag denoting disclosed date |  |
| DODDisplay | Actual disclosed date | Date as Announced by the company (year or month and year) |
| Age | Directors age either calculated from DOB or known from disclosure |  |
| Gender | The Director’s gender |  |
| Nationality | The Director’s nationality. |  |
| Recreations | Any hobbies and interests that a director has listed on their profile |  |
| DirectorVisible | Indicates whether the Director is visible (hyperlinked) on the BoardEx website. | “Yes” or “No” |
| LinkedInURL | LinkedIn Link |  |
| WealthXID | A unique identifier allocated to each Director in WealthX |  |
| DiversityNetworkLabel | Indicates if the individual is in the diversity network |  |
| PrimaryRoleID | Primary role ID of an individual |  |

## Director Profile Employment

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| PrimaryKeyID | Unique identifier for each record in the file |  |
| RowType | One of: Quoted Organisations, Private Organisations, and Other Organisations depending upon the Organisation Type. |  |
| DirectorID | A unique identifier allocated to each Director |  |
| DirectorName | Title + Forename1 + (UsualName) + Surname + SuffixTitle |  |
| ClientDirectorID | A unique identifier allocated by the Client for each Director/Contact within their CRM/Data Repository | Must be mapped to a BoardEx DirectorID or DirBrdID |
| CompanyID | A unique identifier allocated to each company. |  |
| CompanyName | Name of the company where the Director is employed |  |
| ClientCompanyID | A unique identifier allocated by the Client for each Company within their CRM/Data Repository | Must be mapped to a Boardex CompanyID or BoardID |
| DateStartRole | The date that the Director’s employment commenced in that rolename | YYYY-MM-DD |
| DateStartRoleFlag | Flag denoting disclosed date |  |
| DateStartRoleDisplay | Actual disclosed date | Date as Announced by the company (year or month and year) |
| DateEndRole | The date that the Director’s employment finished in that rolename | YYYY-MM-DD |
| DateEndRoleFlag | Flag denoting disclosed date |  |
| DateEndRoleDisplay | Actual disclosed date | Date as Announced by the company (year or month and year) |
| BrdPosition | An indicator showing if the employment record is a board position or not. | Yes, No, Inside, Outside |
| RoleName | The role undertaken as specified |  |
| FulltextDescription | Additional information pertinent to the record that cannot be readily fitted into the existing data structure |  |
| NED | An indicator showing if the employment record is an executive position (setting = No) or a supervisory position (setting = Yes) | Only applicable if the BrdPosition flag has been set to Yes. |
| LeaderShipTeam | An indicator providing an extra employment classification. This is the executive team below the board of directors as disclosed by the company |  |

## Director Profile Education

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| PrimaryKeyID | Unique identifier for each record in the file |  |
| RowType | One of : Professional Qualifications, or Education depending upon the Qualification type |  |
| DirectorID | A unique identifier allocated to each Director |  |
| DirectorName | Title + Forename1 + (UsualName) + Surname + SuffixTitle |  |
| ClientDirectorID | A unique identifier allocated by the Client for each Director/Contact within their CRM/Data Repository | Must be mapped to a BoardEx DirectorID or DirBrdID |
| CompanyID | A unique identifier allocated to each company. |  |
| CompanyName | Name of the institution where the Director was educated |  |
| ClientCompanyID | A unique identifier allocated by the Client for each Company within their CRM/Data Repository | Must be mapped to a Boardex CompanyID or BoardID |
| AwardDate | The date that the Director’s education finished | YYYY-MM-DD |
| AwardDateFlag | Flag denoting disclosed date |  |
| AwardDateDisplay | Actual disclosed date | Date as Announced by the company (year or month and year) |
| Qualification | The Educational qualification obtained by the director e.g. MSc. |  |
| FullTextDescription | Additional information pertinent to the record that cannot be readily fitted into the existing data structure |  |

## Director Profile Achievements

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| PrimaryKeyID | Unique identifier for each record in the file |  |
| RowType | For future use if Achievements are Categorised. Currently reads Achievements only |  |
| DirectorID | A unique identifier allocated to each Director |  |
| DirectorName | Title + Forename1 + (UsualName) + Surname + SuffixTitle |  |
| ClientDirectorID | A unique identifier allocated by the Client for each Director/Contact within their CRM/Data Repository | Must be mapped to a BoardEx DirectorID or DirBrdID |
| CompanyID | A unique identifier allocated to each company. |  |
| CompanyName | Name of the company where the Director is a member |  |
| ClientCompanyID | A unique identifier allocated by the Client for each Company within their CRM/Data Repository | Must be mapped to a Boardex CompanyID or BoardID |
| AchievementDate | The date that the achievement was obtained | YYYY-MM-DD |
| AchievementDateFlag | Flag denoting disclosed date |  |
| AchievementDateDisplay | Actual disclosed date | Date as Announced by the company (year or month and year) |
| Achievement | The full description of the achievement that the Director has obtained |  |

## Director Profile Other Activities

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| PrimaryKeyID | Unique identifier for each record in the file |  |
| RowType | For future use if Other Activities are Categorised. Currently reads Other Activities only |  |
| DirectorID | A unique identifier allocated to each Director |  |
| DirectorName | Title + Forename1 + (UsualName) + Surname + SuffixTitle |  |
| ClientDirectorID | A unique identifier allocated by the Client for each Director/Contact within their CRM/Data Repository | Must be mapped to a BoardEx DirectorID or DirBrdID |
| CompanyID | A unique identifier allocated to each company. |  |
| CompanyName | Name of the company where the Director was is a member of |  |
| ClientCompanyID | A unique identifier allocated by the Client for each Company within their CRM/Data Repository | Must be mapped to a Boardex CompanyID or BoardID |
| StartDate | The date that the Director’s membership commenced. | YYYY-MM-DD |
| StartDateFlag | Flag denoting disclosed date |  |
| StartDateDisplay | Actual disclosed date | Date as Announced by the company (year or month and year) |
| EndDate | The date that the Director’s membership finished. | YYYY-MM-DD |
| EndDateFlag | Flag denoting disclosed date |  |
| EndDateDisplay | Actual disclosed date | Date as Announced by the company (year or month and year) |
| RoleName | The role undertaken as specified |  |

## Company Profile Details

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| BoardID | A unique identifier allocated to each company. | Must exist in CompanyDetails and be unique |
| BoardName | The full company name or the abbreviation in the case of quoted companies. If the company name has changed this will be shown in this field. |  |
| BoardNameShort | Full company name only |  |
| ClientCompanyID | A unique identifier allocated by the Client for each Company within their CRM/Data Repository |  |
| HOAddress1 | The first line of the Head Office Address |  |
| HOAddress2 | The second line of the Head Office Address |  |
| HOAddress3 | The third line of the Head Office Address |  |
| HOAddress4 | The fourth line of the Head Office Address |  |
| HOAddress5 | The fifth line of the Head Office Address |  |
| HOCountryName | The full country name the Head Office of the Company is located in. | If the location is Unknown, then this field will always default to Unknown. |
| HOTelNumber | The main Head Office Telephone Number |  |
| HOFaxNumber | The main Head Office Facsimile Number |  |
| HOURL | The Corporate Web Site for the company |  |
| FinancialURL | The Web page where company financials can be located on the company web site. |  |
| CompanyPolicy | Any policies that the company has implemented and has specified as part of the Annual Report or other similar documentation. |  |
| CCAddress1 | The first line of the communication address which may be the same as the Head Office Address. |  |
| CCAddress2 | The second line of the communication address which may be the same as the Head Office Address. |  |
| CCAddress3 | The third line of the communication address which may be the same as the Head Office Address. |  |
| CCAddress4 | The fourth line of the communication address which may be the same as the Head Office Address. |  |
| CCAddress5 | The fifth line of the communication address which may be the same as the Head Office Address. |  |
| CCCountryName | The full country name that all communication should be addressed to. | If the location is Unknown then this field will always default to Unknown. |
| CCTelNumber | The contact telephone number |  |
| CCFaxNumber | The contact facsimile number |  |
| CIKCode | The CIK Code used within SEC filings for American companies. This is only relevant for companies incorporated within the U.S. and who are required to make a filing. |  |
| Sector | Sector classification of a company under FTSE International classification (In some cases designated by BoardEx) |  |
| Index | Index classification(s) of a company according to index classifications. |  |
| OrgVisible | Whether the organisation is Visible (hyperlink to Board Summary page) on BoardEx. |  |
| OrgType | Organisation category or type | One of:  Air Force  Armed Forces  Army  Charities  Clubs  Government  Medical  Navy  Private  Quoted  Sporting  Universities |
| PreviousCompanyID | Previous ID of Company |  |
| SuccessorCompanyID | Successor ID of Company |  |
| UltimateParentID | The ID of the top level (ultimate parent) if the company is part of a hierarchy tree. |  |

## Company Profile Market Cap

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| BoardID | A unique identifier allocated to each company | Must exist in CompanyDetails and be unique |
| BoardName | Name of the company |  |
| ClientCompanyID | A unique identifier allocated by the Client for each Company within their CRM/Data Repository | Must be mapped to a Boardex CompanyID or BoardID |
| Currency | The ISO Code of the Currency in which all values are displayed | Euro will be the Default currency |
| MktCapitalisation | The total value of a company's securities at Current prices as quoted on a stock exchange. Market capitalization is calculated by multiplying the total number of shares by the market price. | Displayed to the nearest million |
| NoEmployees | The number of employees of a given organisation as disclosed in the Annual Report and Accounts |  |
| OrgVisible | Whether the organisation is Visible (hyperlink to Board Summary page) on BoardEx. |  |
| Revenue | Annual as at the last Annual Report date | Displayed in Millions with 0 decimal places |

## Company Profile Advisors

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| BoardID | A unique identifier allocated to each company | Must exist in CompanyDetails and be unique |
| BoardName | Name of the company |  |
| ClientCompanyID | A unique identifier allocated by the Client for each Company within their CRM/Data Repository | Must be mapped to a Boardex CompanyID or BoardID |
| AdvisorName | Organisation name that provides services to BoardName |  |
| AdvTypeDesc | A description of the service offed by AdvisorName |  |
| OrgVisible | Whether the organisation is Visible (hyperlink to Board Summary page) on BoardEx. |  |

## Company Profile Stocks

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| BoardID | A unique identifier allocated to each company | Must exist in CompanyDetails and be unique |
| BoardName | Name of the company |  |
| ClientCompanyID | A unique identifier allocated by the Client for each Company within their CRM/Data Repository | Must be mapped to a Boardex CompanyID or BoardID |
| Ticker | Shorthand code used to uniquely identify shares of a publicly-traded corporation on a particular stock market. |  |
| ISIN | An International Securities Identifying Number (ISIN) uniquely identifies a security. |  |
| OrgVisible | Whether the organisation is Visible (hyperlink to Board Summary page) on BoardEx. |  |
| CountryOfQuote | Country in which the security was registered. | If Country of Quote is not known then Unknown will be displayed. |
| PrimaryStock | A “yes” or “no” response to determine if the Ticker value relates to current trading stock |  |

## Company Profile Senior Managers

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| BoardID | A unique identifier allocated to each company. |  |
| BoardName | Name of the company where the Director is employed |  |
| DirectorID | A unique identifier allocated to each Director |  |
| DirectorName | Title + Forename1 + (UsualName) + Surname + SuffixTitle |  |
| DateStartRole | The date that the Director’s employment commenced in that rolename | YYYY-MM-DD |
| DateStartRoleFlag | Flag denoting disclosed date |  |
| DateStartRoleDisplay | Actual disclosed date | Date as Announced by the company (year or month and year) |
| DateEndRole | The date that the Director’s employment finished in that rolename | YYYY-MM-DD |
| DateEndRoleFlag | Flag denoting disclosed date |  |
| DateEndRoleDisplay | Actual disclosed date | Date as Announced by the company (year or month and year) |
| RoleName | The role undertaken as specified |  |
| RoleDescription | Additional information pertinent to the record that cannot be readily fitted into the existing data structure |  |
| DirectorVisible | Indicates whether the Director is visible | “Yes” or “No” |

## Director Characteristics

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| RowType | One of : Board Member or Disclosed Earner |  |
| BoardID | A unique identifier allocated to each company | Must exist in CompanyDetails and be unique |
| BoardName | Name of organisation |  |
| ClientCompanyID | A unique identifier allocated by the Client for each Company within their CRM/Data Repository | Must be mapped to a Boardex CompanyID or BoardID |
| AnnualReportDate | The Date which the BoardName publishes its annual report and accounts or the last working day. | Defaults to YYYY-MM-28. Where YYYY-MM is the publication date or Current. |
| NED | An indicator showing if the employment record is an executive position (setting = No) or a supervisory position (setting = Yes) | Only applicable if the BrdPosition flag has been set to Yes. |
| DirectorID | A unique identifier allocated to each director, sourced from DirectorDetails. | Must exist in DirectorDetails and be unique. |
| DirectorName | Name of Director that is relevant to the announcement |  |
| ClientDirectorID | A unique identifier allocated by the Client for each Director/Contact within their CRM/Data Repository | Must be mapped to a BoardEx DirectorID or DirBrdID |
| RoleName | DirectorName’s role at BoardName at AnnualReportDate selected |  |
| TimeRetirement | Time to Retirement for the individual at a selected AnnualReportDate. |  |
| TimeRole | Time in Role for the individual at a selected AnnualReportDate |  |
| TimeBrd | Time on Board for the individual at a selected AnnualReportDate |  |
| TimeInCo | Time in Company for the individual at a selected AnnualReportDate |  |
| AvgTimeOthCo | The Average Time that a Director sits on the Board of Quoted Companies |  |
| TotNoLstdBrd | The total number of Quoted Boards that an individual has served to the AnnualReportDate selected. |  |
| TotNoUnLstdBrd | The total number of Private Boards that an individual has served to the AnnualReportDate selected. |  |
| TotNoOthLstdBrd | The total number of Other Boards that an individual has served to the AnnualReportDate selected. |  |
| TotCurrNoLstdBrd | The number of Quoted Boards that an individual serves on at the AnnualReportDate selected. |  |
| TotCurrNoUnLstdBrd | The number of Private Boards that an individual serves on at the AnnualReportDate selected. |  |
| TotCurrNoOthLstdBrd | The number of Other Boards that an individual serves on at the AnnualReportDate selected. |  |
| NoQuals | Total number of Educational qualifications (undergraduate and above) for the individual at a selected AnnualReportDate |  |
| RoleStatus | Details of when the Director joined or left the role |  |
| Gender | The Director’s gender |  |
| Nationality | The Director’s nationality. |  |

## Board Characteristics

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| BoardID | A unique identifier allocated to each company | Must exist in CompanyDetails and be unique |
| BoardName | Name of organisation |  |
| ClientCompanyID | A unique identifier allocated by the Client for each Company within their CRM/Data Repository | Must be mapped to a Boardex CompanyID or BoardID |
| AnnualReportDate | The Date which the BoardName publishes its annual report and accounts or the last working day. | Defaults to YYYY-MM-28. Where YYYY-MM is the publication date or Current. |
| RowType | One of : ED Average, SD Average, or Board Average |  |
| TimeRetirement | Average Time to Retirement for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| TimeRole | Average Time in Role for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| TimeBrd | Average Time on Board for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| TimeInCo | Average Time in Company for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| AvgTimeOthCo | The Average time that Directors sit on Quoted Boards other than that being anaysed for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| TotNoLstdBrd | The average number of Quoted Boards that have been sat on over time for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| TotNoUnLstdBrd | The average number of Private Boards that have been sat on over time for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| TotNoOthLstdBrd | The average number of Other Boards that have been sat on over time for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| TotCurrNoLstdBrd | The average number of Quoted Boards that are sat on today for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| TotCurrNoUnLstdBrd | The average number of Private Boards that are sat on today for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| TotCurrNoOthLstdBrd | The average number of Other Boards that are sat on today for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| NoQuals | The average number of qualifications at undergraduate level and and above for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| Succession | Measurement of the Clustering of Directors around retirement age, whether for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| Attrition | Number of Directors that have left a role as a proportion of average number of Directors for the preceding reporting period whether for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| Attrition3yr | Number of Directors that have left a role as a proportion of average number of Directors for the preceding 3 years whether for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| GenderRatio | The proportion of male directors whether for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| NationalityMix | Proportion of Directors from different countries whether for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| NumberDirectors | Number of Executive Directors, Supervisory Directors or All of the Directors at the AnnualReportDate selected. |  |
| STDEVTimeBrd | The standard deviation of the population of Time on Board values for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| STDEVTimeInCo | The standard deviation of the population of Time in Companies for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| STDEVTotNoLstdBrd | The standard deviation of the population of of the number of Quoted Boards that have been sat on overtime for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| STDEVTotCurrNoLstdBrd | The standard deviation of the population of the number of Quoted Boards that are sat on for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| STDEVNoQuals | The standard deviation of the population of the number of Qualifications for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |
| STDEVAge | The standard deviation of the population of the ages of Directors for the Executive Directors, Supervisory Directors or All the Directors at the AnnualReportDate selected. |  |

## Company Profile Deleted

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| BoardID | A unique identifier allocated to each company. |  |
| DeletedDate | Date on which the record was deleted. |  |
| Purged | Flag to indicate whether the record has been permanently deleted from the BoardEx system. |  |

## Director Profile Deleted

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Business Rules |
| DirectorID | A unique identifier allocated to each director. |  |
| DeletedDate | Date on which the record was deleted. |  |
| Purged | Flag to indicate whether the record has been permanently deleted from the BoardEx system. |  |

# Delta File Processing

Clients can choose to download delta update files daily or weekly using the BoardEx Datafeed FTP service. The delta files are produced at the specified intervals by monitoring the BoardEx database for changes since the last successful file download. The changes in each category and for each related data sub category are then extracted from the BoardEx system and written to the BoardEx Datafeed FTP server in an overnight batch process.

## Delta File Updates

The delta process has been designed according to accepted Datafeed methodologies found in the market place, whereby the download of data is triggered by changes to data linked to key identifers within the relevant sub-categories (for example BoardID or DirectorID). Changes within any of the sub-categories will always trigger the download of the top-level identifier for the Company or Director in **Company Profile Details** and **Director Profile Details**, respectively. These two files should therefore be used as indicators for Company and Director modification, respectively, in the related subcategories.

It is recommended that the existing records for a given Company identifier or Director identifier are deleted from the sub-categories before being refreshed with the new data from the delta files based on the content of the **Company Profile Details** file and **Director Profile Details** file; the two top-level files. The following table summarises the key identifiers for each file:-

|  |  |  |
| --- | --- | --- |
| Data Sub Category | Parent category | Change criteria |
| **Board and Director Announcements** | Company Profile Details AND  Director Profile Details | CompanyID AND DirectorID AND AnnouncementDate |
| **Board and Director Committees** | Company Profile Details | BoardID |
| **Board Characteristics** | Company Profile Details | BoardID |
| **Company Profile Advisors** | Company Profile Details | BoardID |
| **Company Profile Senior Managers** | Company Profile Details | BoardID |
| **Company Profile Market Cap** | Company Profile Details | BoardID |
| **Company Profile Stocks** | Company Profile Details | BoardID |
| **Director Characteristics** | Company Profile Details | BoardID |
| **Director Profile Achievements** | Director Profile Details | DirectorID |
| **Director Profile Education** | Director Profile Details | DirectorID |
| **Director Profile Employment** | Director Profile Details | DirectorID |
| **Director Profile Other Activities** | Director Profile Details | DirectorID |

For example:

The destination system holds the following Director Profile Education records:-

|  |
| --- |
| "RowType","DirectorID","DirectorName","ClientDirectorID","CompanyID","CompanyName","ClientCompanyID","AwardDate","Qualification","FullTextDescription"  "Education","16","Doctor David Shaw","","63013","Harvard Business School","","1986","Senior Executive Program",""  "Education","16","Doctor David Shaw","","62432","University of Maine","","1976","MBA",""  "Education","16","Doctor David Shaw","","62520","University of New Hampshire","","1973","BA",""  **"Education","29","Garry Weston","","63830","Harvard University","","1954","Graduated",""**  **"Education","29","Garry Weston","","63139","Sir William Borlase School Marlowe","","","","Attended"**  "Education","32","David Quysner","","64892","University of Cambridge","","","MA","" |

*Listing 6.1: Example data set prior to delta file update*

The delta files are downloaded and Director Profile Education contains the following records:-

|  |
| --- |
| "RowType","DirectorID","DirectorName","ClientDirectorID","CompanyID","CompanyName","ClientCompanyID","AwardDate","Qualification","FullTextDescription"  "Education","29","Garry Weston","","63830","Harvard University","","1954","Graduated",""  "Education","29","Garry Weston","","63139","Sir William Borlase School Marlowe","","","","Attended"  "Education","29","Garry Weston ","","64892","University of Cambridge","","1974","MBA","" |

*Listing 6.2: Example delta file*

The update should then replace all Education records for *Garry Weston (DirectorID=29)* in the destination system such that the resulting destination data appears as:-

|  |
| --- |
| "RowType","DirectorID","DirectorName","ClientDirectorID","CompanyID","CompanyName","ClientCompanyID","AwardDate","Qualification","FullTextDescription"  "Education","16","Doctor David Shaw","","63013","Harvard Business School","","1986","Senior Executive Program",""  "Education","16","Doctor David Shaw","","62432","University of Maine","","1976","MBA",""  "Education","16","Doctor David Shaw","","62520","University of New Hampshire","","1973","BA",""  **"Education","29","Garry Weston","","63830","Harvard University","","1954","Graduated",""**  **"Education","29","Garry Weston","","63139","Sir William Borlase School Marlowe","","","","Attended"**  **"Education","29","Garry Weston ","","64892","University of Cambridge","","1974","MBA",""**  "Education","32","David Quysner","","64892","University of Cambridge","","","MA","" |

*Listing 6.3: Updated data set after applying the changes from the delta file from Listing 6.2*

The corresponding record for *Garry Weston (DirectorID=29)* would also appear in the key Director file: **Director Profile Details**. This is an indication that the profile for Garry Weston (29) was modified and all related data subcategories were refreshed. This is significant particularly when a Companie’s or Director’s records are completely removed from a particular data subcategory. For example, if Garry Weston’s education records are deleted from BoardEx then a row will appear in the Director Profile Details file and no records will appear in the Director Profile Education file for DirectorID=29.

The key files, Company Profile Details and Director Profile Details, should therefore be considered the determining criteria for the delta process.

## Company and Director Deletions

Records removed from the top-level data categories, Company Profile Details and Director Profile Details, are listed in the files **Company Profile Deleted** (Section 4.15) and **Director Profile Deleted** (Section 4.16), respectively. These files list the BoardID and DirectorID of company and director entities, respectively, removed from the BoardEx universe of data.

The files are produced alongside the delta files and list all deletions since the last delta file, i.e. daily or weekly deletions depending on the frequency with which your Datafeed files are downloaded. Because these types of deletions occur infrequently, it is possible that the Deleted files will not contain any rows of data (i.e. header row only).

For each ID listed in the files the top level record and all related records (Section 6.1) in all data sub-categories should be deleted from the target database.

# Filtering the feed

Clients can now choose to limit their feed to a subset of companies. The choices available are listed below.

* Country
* Index
* A user defined set of companies

## Filtering By Country

A subset of companies can be selected based on one or more countries. For example, US based companies or a combination of US and UK based companies. The selection is based on the Head Office location of the company

## Filtering by Index

A subset of companies can be selected based on one or more indexes. For example, companies that are in the FTSE 100 or a combination of companies that in the FTSE 100 and S & P 500. The selection is based on the position of the company at the time of selection. If a company is no longer part of the Index, it will **still be included** in the feed. Should this happen then BoardEx would recommend a new full set of index data to update the current company list.

## Filtering by a user defined set

A subset of companies can be provided by the client and this will provide the basis for the feed. The feed will follow the rules and process of the regular feed.

## Using the Filtered feed

The filtered feed operates in the same way as the regular feed. The files follow the same format and the delivery is either daily or weekly.

The filtered feed does include an extra business rule. The core set of companies are provided in the Company Profile Details file. All related data in the other files will include companies in this list.

The Director Profile Employment file will include all the employment records of directors employed at the core company list. It will also include employment at companies that are not in the core list. For the sake of completeness, **any companies appearing in the employment records that are not part of the original list will be included in the Company Profile Details file only**.

# Appendix A – Country Names

Detailed below are all Country Names used throughout the BoardEx Production Database. The major nationality for each Country has also been defined for use within the Director Profile and Characteristics categories.

| **Country Name** | **Nationality** |
| --- | --- |
| Afghanistan | Afghan |
| Albania | Albanian |
| Algeria | Algerian |
| American Samoa | Samoan |
| Andorra | Andorran |
| Angola | Angolan |
| Anguilla | Anguillan |
| Antarctica | Antartican |
| Antigua And Barbuda | Antiguan/Barbudan |
| Argentina | Argentine |
| Armenia | Armenian |
| Aruba | Aruban |
| Australia | Australian |
| Austria | Austrian |
| Azerbaijan | Azerbaijani |
| Bahamas | Bahamian |
| Bahrain | Bahraini |
| Bangladesh | Bangladeshi |
| Barbados | Barbadian |
| Belarus | Belarusian |
| Belgium | Belgian |
| Belize | Belizean |
| Benin | Beninese |
| Bermuda | Bermudian |
| Bhutan | Bhutanese |
| Bolivia | Bolivian |
| Bosnia And Herzegovina | Bosnian |
| Botswana | Botswana |
| Bouvet Island | Bouvet Islander |
| Brazil | Brazilian |
| British Indian Ocean Territory | British Indian Ocean |
| Brunei Darussalam | Bruneian |
| Bulgaria | Bulgarian |
| Burkina Faso | Burkinabe |
| Burundi | Burundian |
| Cambodia | Cambodian |
| Cameroon | Cameroonian |
| Canada | Canadian |
| Cape Verde | Cape Verdean |
| Cayman Islands | Caymanian |
| Central African Republic | Central African |
| Chad | Chadian |
| Chile | Chilean |
| China | Chinese |
| Christmas Island | Christmas Islander |
| Cocos (Keeling) Islands | Cocos Islander |
| Colombia | Colombian |
| Comoros | Comoran |
| Congo | Congolese |
| Cook Islands | Cook Islander |
| Costa Rica | Costa Rican |
| Côte D'ivoire | Ivorian |
| Croatia | Croatian |
| Cuba | Cuban |
| Cyprus | Cypriot |
| Czech Republic | Czech |
| Denmark | Danish |
| Djibouti | Djiboutian |
| Dominican Republic | Dominican |
| East Timor | East Timorean |
| Ecuador | Ecuadorian |
| Egypt | Egyptian |
| El Salvador | Salvadoran |
| Equatorial Guinea | Equatorial Guinean |
| Eritrea | Eritrean |
| Estonia | Estonian |
| Ethiopia | Ethiopian |
| Falkland Islands (Malvinas) | British |
| Faroe Islands | Faroese |
| Fiji | Fijian |
| Finland | Finnish |
| France | French |
| French Guiana | French Guianese |
| French Polynesia (French Pacific Islands) | French Polynesian |
| French Southern Territories | French S. Territory |
| Gabon | Gabonese |
| Gambia | Gambian |
| Georgia | Georgian |
| Germany | German |
| Ghana | Ghanaian |
| Gibraltar | Gibraltarian |
| Greece | Greek |
| Greenland | Greenlander |
| Grenada | Grenadian |
| Guadeloupe | Guadeloupian |
| Guam | Guamanian |
| Guatemala | Guatemalan |
| Guernsey | British |
| Guinea | Guinean |
| Guinea-Bissau | Guinean |
| Guyana | Guyanese |
| Haiti | Haitian |
| Heard And Mcdonald Islands | Australian |
| Holy See (Vatican City State) | None |
| Honduras | Honduran |
| Hong Kong | Chinese |
| Hungary | Hungarian |
| Iceland | Icelander |
| India | Indian |
| Indonesia | Indonesian |
| Iran, Islamic Republic Of | Iranian |
| Iraq | Iraqi |
| Isle Of Man | British |
| Israel | Israeli |
| Italy | Italian |
| Jamaica | Jamaican |
| Japan | Japanese |
| Jersey | British |
| Jordan | Jordanian |
| Kazakstan | Kazakhstani |
| Kenya | Kenyan |
| Kiribati | Kiribati |
| Korea, Democratic People's Republic Of (North Korea) | North Korean |
| Korea, Republic Of (South Korea) | South Korean |
| Kuwait | Kuwaiti |
| Kyrgyzstan | Kyrgyzstani |
| Lao People's Democratic Republic | Lao |
| Latvia | Latvian |
| Lebanon | Lebanese |
| Lesotho | Mosotho |
| Liberia | Liberian |
| Libyan Arab Jamahiriya | Libyan |
| Liechtenstein | Liechtensteiner |
| Lithuania | Lithuanian |
| Luxembourg | Luxembourger |
| Macau | Chinese |
| Macedonia, The Former Yugoslav Republic Of | Macedonian |
| Madagascar | Malagasy |
| Malawi | Malawian |
| Malaysia | Malaysian |
| Maldives | Maldivian |
| Mali | Malian |
| Malta | Maltese |
| Marshall Islands | Marshallese |
| Martinique | Martiniquais |
| Mauritania | Mauritanian |
| Mauritius | Mauritian |
| Mayotte | Mahorais |
| Mexico | Mexican |
| Micronesia, Federated States Of | Micronesian |
| Moldova, Republic Of | Moldovan |
| Monaco | Monacan |
| Mongolia | Mongolian |
| Montenegro | Montenegrin |
| Montserrat | Montserratian |
| Morocco | Moroccan |
| Mozambique | Mozambican |
| Myanmar | Burmese |
| Namibia | Namibian |
| Nauru | Nauruan |
| Nepal | Nepalese |
| Netherlands | Dutch |
| Netherlands Antilles | Netherlands Antillean |
| New Caledonia | New Caledonian |
| New Zealand | New Zealander |
| Nicaragua | Nicaraguan |
| Niger | Nigerien |
| Nigeria | Nigerian |
| Niue | Niuean |
| Norfolk Island | Norfolk Islander |
| Northern Mariana Islands | NA |
| Norway | Norwegian |
| Oman | Omani |
| Pakistan | Pakistani |
| Palau | Palauan |
| Palestinian Territory, Occupied | Palestinian |
| Panama | Panamanian |
| Papua New Guinea | Papua New Guinean |
| Paraguay | Paraguayan |
| Peru | Peruvian |
| Philippines | Filipino |
| Pitcairn | Pitcairn Islander |
| Poland | Polish |
| Portugal | Portuguese |
| Puerto Rico | Puerto Rican |
| Qatar | Qatari |
| Republic Of Ireland | Irish |
| Réunion | French Réunion |
| Romania | Romanian |
| Russian Federation | Russian |
| Rwanda | Rwandan |
| Saint Helena | Saint Helenian |
| Saint Kitts And Nevis | Kittitian |
| Saint Lucia | Saint Lucian |
| Saint Pierre And Miquelon | French St. Pierre |
| Saint Vincent And The Grenadines | Saint Vincentian |
| Samoa | Samoan |
| San Marino | Sammarinese |
| Sao Tome And Principe | Sao Tomean |
| Saudi Arabia | Saudi |
| Senegal | Senegalese |
| Serbia | Serbian |
| Seychelles | Seychellois |
| Sierra Leone | Sierra Leonean |
| Singapore | Singaporean |
| Slovakia | Slovak |
| Slovenia | Slovene |
| Solomon Islands | Solomon Islander |
| Somalia | Somali |
| South Africa | South African |
| South Georgia And The South Sandwich Islands | British |
| Spain | Spanish |
| Sri Lanka | Sri Lankan |
| Sudan | Sudanese |
| Suriname | Surinamer |
| Swaziland | Swazi |
| Sweden | Swedish |
| Switzerland | Swiss |
| Syrian Arab Republic | Syrian |
| Taiwan, Province Of China | Taiwanese |
| Tajikistan | Tajik |
| Tanzania, United Republic Of | Tanzanian |
| Thailand | Thai |
| Togo | Togolese |
| Tokelau | Tokelauan |
| Tonga | Tongan |
| Trinidad And Tobago | Trinidadian/Tobagonian |
| Tunisia | Tunisian |
| Turkey | Turkish |
| Turkmenistan | Turkmen |
| Turks And Caicos Islands | British Turks and Caicos Islands |
| Tuvalu | Tuvaluan |
| Uganda | Ugandan |
| Ukraine | Ukrainian |
| United Arab Emirates | Emirian |
| United Kingdom - England | British |
| United Kingdom - Northern Ireland | British |
| United Kingdom - Scotland | British |
| United Kingdom - Wales | British |
| United States | American |
| United States Minor Outlying Islands | American |
| Uruguay | Uruguayan |
| Uzbekistan | Uzbek |
| Vanuatu | Ni-Vanuatu |
| Venezuela | Venezuelan |
| Vietnam | Vietnamese |
| Virgin Islands, British | British Virgin Islander |
| Virgin Islands, U.S. | Virgin Islander |
| Wallis And Futuna | Wallisian/Futunan |
| Western Sahara | Sahrawi |
| Yemen | Yemeni |
| Yugoslavia | Yugoslavian |
| Zambia | Zambian |
| Zimbabwe | Zimbabwean |

# Appendix B – Data Category Relationships

|  |
| --- |
|  |
| **Figure B1**: Recommended **Director Profile** category data relationships. Please note that the relationships shown should NOT be regarded as strict Primary Key / Foreign Key relationships, but rather logical data relationships that may be assumed between the data categories and data sub-categories. |

|  |
| --- |
|  |
| **Figure B2**: Recommended **Company Profile** category data relationships. Please note that the relationships shown should NOT be regarded as strict Primary Key / Foreign Key relationships, but rather logical data relationships that may be assumed between the data categories and data sub-categories. |

|  |
| --- |
|  |
| **Figure B3**: Recommended **Director Characteristics** category data relationships. Please note that the relationships shown should NOT be regarded as strict Primary Key / Foreign Key relationships, but rather logical data relationships that may be assumed between the data categories and data sub-categories. |

|  |
| --- |
| **Board Characteristics** |
| **Figure B4**: Recommended **Board Characteristics** category data relationships. Please note that the relationships shown should NOT be regarded as strict Primary Key / Foreign Key relationships, but rather logical data relationships that may be assumed between the data categories and data sub-categories. |

# Appendix C – Client Information

**CLIENT NAME:**

**CUSTOMER ID :**

**DATAFEED USER A/C:**

**DATAFEED PASSWORD:**

**DATAFEED GUID:**

**FTP USER A/C:**

**FTP PASSWORD:**

**WINZIP PASSWORD:**

**DATAFEED URL:**

**BOARDEX FTP SITE: sftp.boardex.com**

**BOARDEX SUPPORT**

**Email:** [**Support@boardex.com**](mailto:Support@boardex.com)

**Tel No: +44 (0) 207 160 9610**

# Appendix D – Data Sub-Category Identifiers

Detailed in the table below for each sub-category are the recommended identifiers required to accurately refresh data downloaded via the BoardEx Datafeed.

Please note that each Data Sub-Category can be defined as a Database View i.e. they pull in multiple data sources to arrive at a single view. In addition to the recommended identifier, we have detailed where available the composite key that could be formed to identify each record uniquely providing sufficient validation rules were put in by the Client. Owing to the source of data i.e. it is a data view rather than a data table, the majority of views cannot have composite keys formed on them. In those that have, we cannot guarantee that every record will be unqiue and would always recommend a complete data refresh for a board or director via the recommended identifiers.

|  |  |  |
| --- | --- | --- |
| Data Sub-Category | Recommended Identifier(s) | Possible Composite Key |
| Board and Director Announcements | Announcement Date | PrimaryKeyID |
| Director Profile Details | DirectorID | DirectorID |
| Director Profile Employment | DirectorID | PrimaryKeyID |
| Director Profile Education | DirectorID | PrimaryKeyID |
| Director Profile Achievements | DirectorID | PrimaryKeyID |
| Director Profile Other Activities | DirectorID | PrimaryKeyID |
| Company Profile Details | BoardID | BoardID |
| Company Profile Market Cap | BoardID | BoardID |
| Company Profile Advisors | BoardID | Not Available |
| Company Profile Stocks | BoardID | BoardID, ISIN |

# Appendix E – Lookup Files

A number of supplementary files are provided along with the 29 data subcategories to provide further information outside of the scope of the Datafeed specification, but which relate to the Datafeed data sub-categories. These files take the form of static *lookup files* that are overwritten daily to refresh the data. The following lookup files are created daily:-

**Company Lookup**

**File name:** LookupCompany (e.g. LookupCompany.csv for flat files)

**Purpose:** Provides organisation type and Company *Common Name*.

|  |  |  |
| --- | --- | --- |
| Column name | Data type (max length) | Description |
| BoardID | Integer – 4 bytes | A unique identifier allocated to each organisation. |
| BoardName | String – 128 characters | Name of organisation as displayed on the BoardEx web product. |
| CommonName | String – 128 characters | Common name of the organisation. The BoardEx display names occasionally include additional information that has been removed in this column. |
| OrgTypeName | String – 50 characters | Organisations type. Currently one of:  Armed Forces  Charities  Clubs  Government  Medical  Private  Quoted  Sporting  Universities  Unknown |

**Roles Lookup**

**File name:** LookupRoles (e.g. LookupRoles.csv for flat files)

**Purpose:** Provides all employment role names and the BoardEx role category groupings. This is a **many-to-many** mapping between RoleName and RoleCategory.

|  |  |  |
| --- | --- | --- |
| Column name | Data type (max length) | Description |
| Type | String – 50 characters | The role type. This only includes “Employment” types, but this lookup may be extended to include further role types. |
| RoleCategory | String – 100 characters | The role category as defined by BoardEx. BoardEx defines role categories to simplify search criteria and to group like roles. |
| RoleName | String – 100 characters | Name of the role as disclosed on the Annual Report and Accounts. |

**Salutations Lookup**

**File name:** LookupSalutations (e.g. LookupSalutations.csv for flat files)

**Purpose:** Provides all salutations used in the BoardEx system.

|  |  |  |
| --- | --- | --- |
| Column name | Data type (max length) | Description |
| Salutation | String – 50 characters | The salutation or title, e.g. Professor, Dr, etc. |

# Appendix F – Date Flags

The date-based columns within some of the tables in this document have been changed to include DATE data type. These enhance the former string format for dates. Some of the dates are assumed due to the disclosure of the data. Because of this, extra “flag” columns are provided, and these will contain an integer that will denote how much of the date is assumed.

|  |  |  |
| --- | --- | --- |
| **Flag Value** | **Description** | **Default Value (if required)- YYYYMMDD** |
| 10 | Full Date known | - |
| 15 | end date month and year known | - |
| 20 | start date month and year known | - |
| 25 | end date year only known | - |
| 30 | start date year only known | - |
| 40 | Current date end date only | 90000101 |
| 50 | Age date calculated from input age |  |
| 75 | An Unknown Date specifically for Start Dates | 19000101 |
| 80 | An Unknown Date specifically for End Dates or single dates | 99991231 |