

Canada Deposit Insurance Corporation

Guidelines for Anonymizing NBDR Data Elements

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Guidelines for Anonymizing an NBDR Data Extract

This document specifies the data elements in the Nominee Broker Data Requirements (“NBDR”) which a Nominee Broker (“NB”) is required to “mask” should CDIC request a de-identified data extract. A de-identified data extract should be submitted to CDIC through the established process as set out in the NBDR, or as otherwise instructed by CDIC.

Masking NBDR Data

Where an NB receives a request from CDIC to provide a de-identified data extract, the NB must be capable of masking certain data elements (fields).

To mask data:

- The values of the masked field must be replaced with anonymous values, not related or connected to the values it replaced;
- The masking value should comply with the Field Format requirements;
- Option #1: the masked value does not have to be unique but the masked value should have the same character string length as the original unmasked value (e.g., “CDIC” can be masked as “U59J” in one instance and “3FDW” in another instance); or
- Option #2: the masked value should be deterministic (i.e., a single raw value is always replaced by the same masked value) for any given field but should not have the same character string length as the original unmasked value (e.g., “CDIC” can be masked as “UJ89LP4J” but if repeated in the same field, must be masked identically).

For greater clarity, masking refers to *substituting* original data with modified data. It is not acceptable to:

- Delete original data (i.e., change original data to null/void/blank);
- Use default values to mask data (e.g., “XXX” or “999”), unless instructed otherwise;
- Insert data into a field that was originally null/void/blank (i.e., where no data previously existed); and
- Mask data (or altering, in any way, from original) in fields that are not included in the *Masked Fields* table (see below).

Masked Fields

Data Element	Requirement	Field Format
Entity Name	Mask the data	VARCHAR
First Name	Mask the data	VARCHAR
Middle Name	Mask the data	VARCHAR
Last Name	Mask the data	VARCHAR
Address Line 1	Mask the data	VARCHAR
Address Line 2	Mask the data	VARCHAR
City	Mask the data	VARCHAR
Postal Code	Mask the data	VARCHAR

Examples

The following tables provide examples of how an NB might mask the required data elements in an original NBDR extract to produce a “de-identified” data extract.

1) Option 1: Masking the data of an Individual

Original Extract Values:

Data Element	Entry
Data Extract Date	2022-04-30
Total Clients	100
Total Arrangements	INT
Unique Client Identifier	CIF321642
Entity Name	
First Name	JOHN
Middle Name	MICHAEL
Last Name	DOE
Address Line 1	1234 PORTAGE AVE
Address Line 2	
City	WINNIPEG
Province	MB
Postal Code	R3G 0R3
Country	CANADA
MI ID Code	MIID
Legal Entity Identifier	ABCD765987XYZ3210123
SIA Type Code	4

Masked Extract Values

Data Element	Entry
Data Extract Date	2022-04-30
Total Clients	100
Total Arrangements	INT
Unique Client Identifier	CIF321642
Entity Name	
First Name	NEUF
Middle Name	KDEMFC
Last Name	VOL
Address Line 1	3X4W U6YF3RG 9AQ
Address Line 2	
City	F4LS5W1J
Province	MB
Postal Code	8TJ 48T
Country	CANADA
MI ID Code	MIID
Legal Entity Identifier	ABCD765987XYZ3210123
SIA Type Code	4

2) Option 2: Masking the Data of an Entity

Original Extract Values:

Data Element	Entry
Data Extract Date	2022-04-30
Total Clients	100
Total Arrangements	175
Unique Client Identifier	CIF521374
Entity Name	Canada Corp. 123
First Name	
Middle Name	
Last Name	
Address Line 1	1234 Main St
Address Line 2	
City	OTTAWA
Province	ON
Postal Code	K2P 6V5
Country	CANADA
MI ID Code	MIID
Legal Entity Identifier	ABCD217987JYS2382980
SIA Type Code	4

Masked Extract Values

Data Element	Entry
Data Extract Date	2022-04-30
Total Clients	100
Total Arrangements	175
Unique Client Identifier	CIF521374
Entity Name	K9B253P7DWYUIGF4
First Name	
Middle Name	
Last Name	
Address Line 1	7LA6G54 DE2T7TG 86UGJ
Address Line 2	
City	NRK795674P6
Province	ON
Postal Code	29N7YT5TFCUYW
Country	CANADA
MI ID Code	MIID
Legal Entity Identifier	ABCD217987JYS2382980
SIA Type Code	4

Questions concerning this document may be sent via e-mail to CDIC at: Brokers@cdic.ca