



## **Sandbox Data Masking**

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## Sandbox Data Masking

### WHAT IS DATA MASKING?

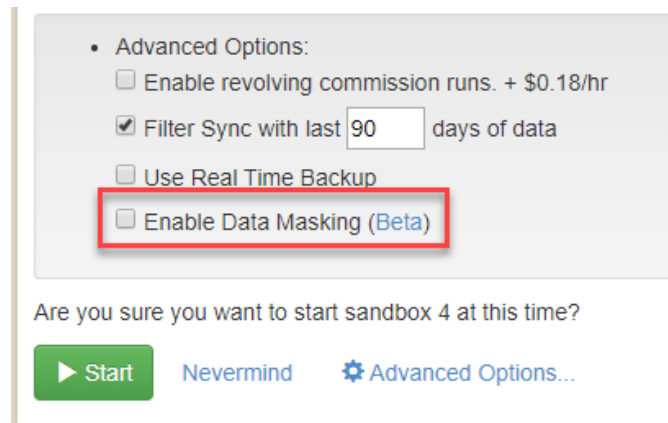
Sandbox Data Masking is the process of masking data elements to the human eye in Sandbox Environments. The masking is primarily applied to PII (Personally Identifiable Information) fields as determined by Exigo, but is also user configurable for Extended Database Tables.

The process used by Exigo to perform this is via the Dynamic Data Masking feature of SQL Server. Therefore, the limitations of the feature, are subject to the constraints of SQL Server.

### ENABLING DATA MASKING

Data masking for a specific sandbox environment can only be enabled at the time a sandbox is started. To enable Data Masking in an already running sandbox environment, the sandbox must be stopped first.

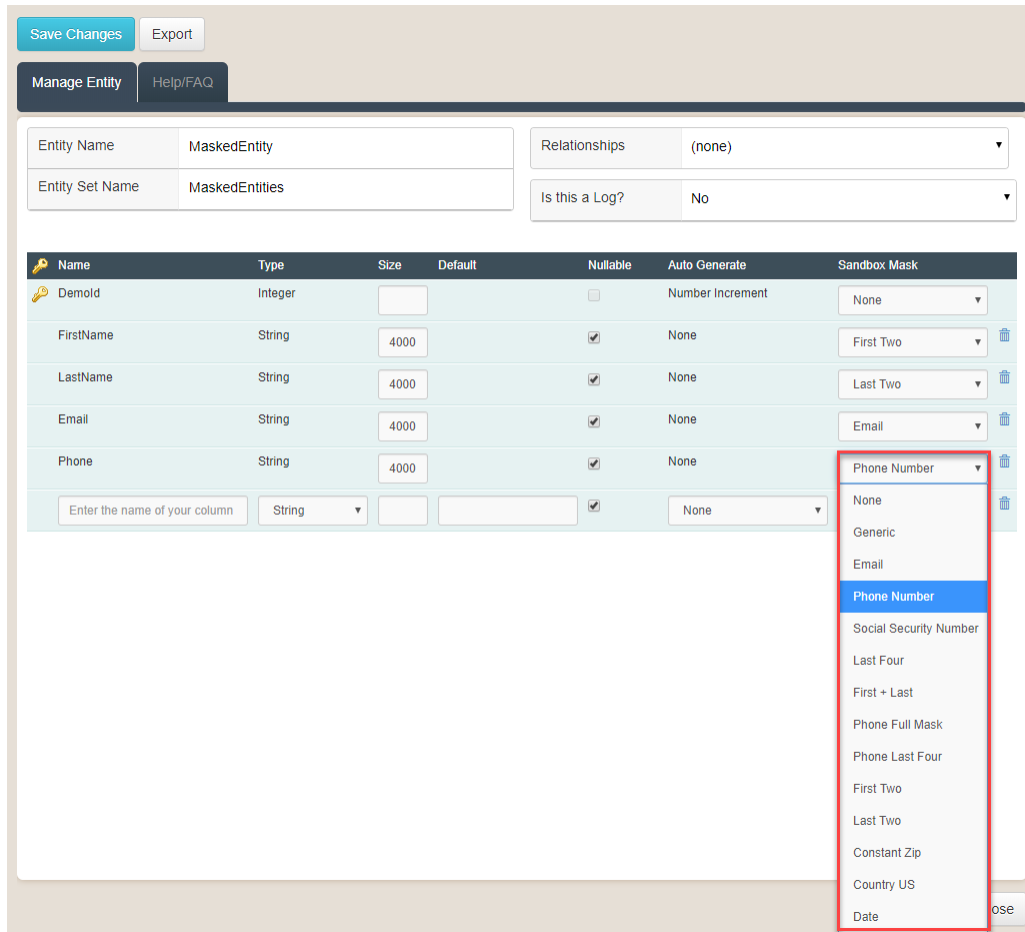
The option to enable can be found under Advanced Options on the Sandbox screen in the Exigo Customer Portal at <https://portal.exigo.com>



## CONFIGURING EXTENDED TABLE DATA MASKS

Extended database tables can also be configured to be masked in sandbox environments. The masks defined at time of sandbox start will be applied to the sandbox environment during the start operation.

When editing an extended database table, you can select any of the available masks to apply to the field.



The screenshot displays the configuration interface for an extended database table. At the top, there are buttons for 'Save Changes', 'Export', 'Manage Entity', and 'Help/FAQ'. Below these, there are input fields for 'Entity Name' (MaskedEntity), 'Entity Set Name' (MaskedEntities), 'Relationships' ((none)), and 'Is this a Log?' (No). The main part of the interface is a table with the following columns: Name, Type, Size, Default, Nullable, Auto Generate, and Sandbox Mask.

Name	Type	Size	Default	Nullable	Auto Generate	Sandbox Mask
Demold	Integer			<input type="checkbox"/>	Number Increment	None
FirstName	String	4000		<input checked="" type="checkbox"/>	None	First Two
LastName	String	4000		<input checked="" type="checkbox"/>	None	Last Two
Email	String	4000		<input checked="" type="checkbox"/>	None	Email
Phone	String	4000		<input checked="" type="checkbox"/>	None	Phone Number
Enter the name of your column	String			<input checked="" type="checkbox"/>	None	

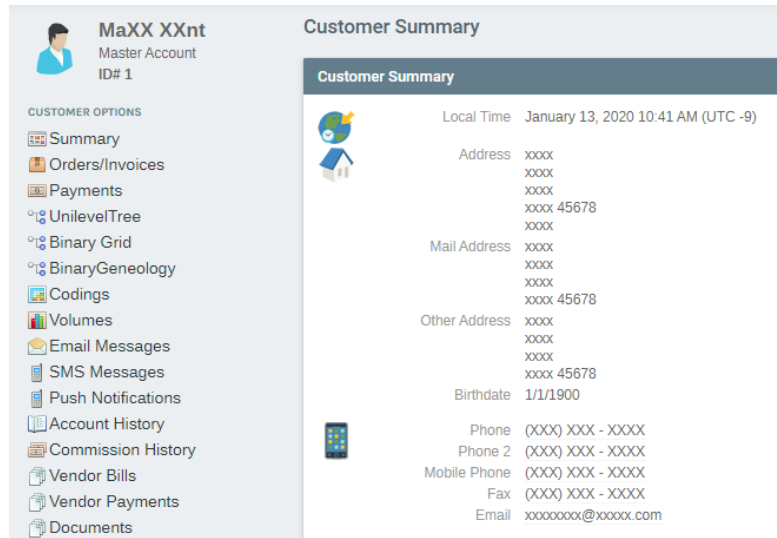
The 'Phone' field's 'Sandbox Mask' dropdown menu is open, showing the following options: None, Generic, Email, Phone Number (highlighted), Social Security Number, Last Four, First + Last, Phone Full Mask, Phone Last Four, First Two, Last Two, Constant Zip, Country US, and Date.

## AVAILABLE DATA MASKS

An up to date list of all the available data masks, along with descriptions, can be found on the Help/FAQ tab when editing an extended database table.

## CUSTOMER EXAMPLE

Included is an example of what a masked customer record looks like in a sandbox environment.



**MaXX XXnt**  
Master Account  
ID# 1

**Customer Summary**

**Customer Summary**

Local Time	January 13, 2020 10:41 AM (UTC -9)
Address	xxxx xxxx xxxx 45678 xxxx
Mail Address	xxxx xxxx xxxx xxxx 45678
Other Address	xxxx xxxx xxxx xxxx 45678
Birthdate	1/1/1900
Phone	(XXX) XXX - XXXX
Phone 2	(XXX) XXX - XXXX
Mobile Phone	(XXX) XXX - XXXX
Fax	(XXX) XXX - XXXX
Email	xxxxxxx@xxxx.com

## Frequently Asked Questions (FAQ)

### Q – IS THE DATA MASKED AT REST?

**A** – No. The data is masked on read by any of the Exigo applications or services. However, the database is protected by Transparent Data Encryption at rest.

### Q – WILL MY REPORTING DATABASE BE MASKED?

**A** – Yes. Since a Sandbox Start operation performs a true-up of the reporting database, upon completion of the true-up, all data reflected in the reporting database will be committed as the masked variant.

### Q – CAN I APPLY A MASK TO A RUNNING SANDBOX?

**A** – No. Data Masking is configured on the sandbox environment during the Sandbox Start operation. This means that it cannot be applied after the sandbox is running.

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**Q - WHAT HAPPENS WHEN I SAVE MASKED DATA?**

**A -** Since the data is not masked at rest, when data that is displayed as masked, upon save, the data is then committed back to the database with the masked values. The masking will still apply, even if the field is updated in the sandbox environment.

**Q - DOES ENABLING DATA MASKING SLOW DOWN THE SANDBOX?**

**A -** Since the Data Masking is applied using a native SQL Server feature, the overhead added is negligible overall.

**Q - I REMOVED A DATA MASK, BUT THE DATA IS STILL MASKED?**

**A -** Just like with applying the data masking to the sandbox environment, the only way to remove data masking from the sandbox is to stop the sandbox and subsequently start it without Data Masking enabled.

**Q - ARE CORE FIELD REQUESTS ACCEPTED?**

**A -** Yes, Exigo is accepting requests via our ticket system to mask additional core fields as suggested by our customers that are not part of the initial feature launch.