



Data Sheet

TriZetto[®] Test Data Generator for QNXT[™]

Establishing control over non-production data.

How does a health plan generate, control, and refresh development and test database environments while still protecting the personal information of its employees and members?

Solving the dilemma

TriZetto[®] Test Data Generator for QNXT[™] addresses this issue by creating non-production data sets for use in testing and refreshing those data sets with the TriZetto QNXT[™] core administration system. This data copy tool masks key personally identifiable information (PHI) for a subset or full selection of source data. It allows the user to request a specific or random population of groups, members, providers or claims from a production database, and then acquires the relevant supporting transactional data—creating JSON files with all new identity information. The result is size-controlled data sets of non-production data. The included Data Refresh Tool truncates transactional data from a non-production environment, leaving configuration, access settings and system administrative settings in place. The resulting database can be easily

Why is de-identified data important?

According to Protenus Breach Barometer:

- 5.6M patient records breached in 2017.
- In 2016, 27,314,647 records were affected by health data breaches.
- Compared to 2016, healthcare experienced a slight increase in the number of breaches reported, from 450 in 2016 to 477 in 2017.

loaded with a new or updated data set without reverting back to a full copy of production.

Test Data Generator for QNXT is part of the Cognizant[®] line of TriZetto Healthcare Products—a portfolio of software products that helps healthcare organizations enhance revenue growth, drive administrative efficiency, improve cost and quality of care, and improve the member and patient experience.

Health plans can use this tool to:

- Reduce PHI exposure by masking names, addresses, dates and ID numbers.
- Create multiple specialized test databases—defining their size and composition.
- Create multiple specialized test data sets within a single environment infrastructure.
- Eliminate non-targeted environment copies.
- Refresh non-production environments without using a full production database.
- Reduce demands on specialty IT resources.
- Improve testing process performance through smaller and more targeted data sets.

How it works

Test Data Generator allows the user to identify or randomly select a set of data from a designated QNXT source database—indicating the type of data and the fields to be masked. The tool acquires the data, masks as directed, and then creates JSON files that can be loaded to one or many QNXT environments through a custom data loader. With masking activated, the process can be executed multiple times to create concentrated or large data sets. Alternatively, empty environments can be loaded with small amounts of data to significantly reduce data capacity requirements. The Data Refresh Tool for Test Data Generator allows the user to truncate all transactional data from the environment. The tool truncates out the selected transactional data, leaving a database with configuration ready to be loaded with a new data set.

Data copy capabilities:

- **Copy provider data** between environments

or create new providers by masking existing provider records.

- Copy existing **groups** or create new groups by masking the group ID.
- Copy existing **subscribers/members** or create new subscribers by masking the records.
- Copy relevant **claims data** based on a combination of subscriber/provider association.
- Copy **accumulators/authorizations**, or not, depending on desired data utilization requirements.

Test data creation includes the following de-identification routings:

- **First names, last names and street names** are replaced with random names selected from relevant names databases.
- **Random number** generators create realistic but de-identified member ID numbers, Social Security numbers or other identifying numeric values.
- **Dates** generally retain the year, with randomly selected months and days. Specific rules for age and other dates apply with the intent of retaining data quality.
- **Data** is modified in all corresponding locations, retaining record connectivity for traceability. Once de-identification is complete, logs are purged to eliminate re-identification of the data through database log content.

For more information about how the Cognizant line of TriZetto Healthcare Products can help you enhance revenue growth, drive administrative efficiency and improve cost and quality of care, call 1-800-569-1222 or visit www.cognizant.com.

About Cognizant

Cognizant's Healthcare Business Unit works with healthcare organizations to provide collaborative, innovative solutions that address the industry's most pressing IT and business challenges—from rethinking new business models, to optimizing operations and enabling technology innovation. A global leader in healthcare, our industry-specific services and solutions support leading payers, providers and pharmacy benefit managers worldwide. For more information, visit www.cognizant.com/healthcare.

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