AnyCompany's data replication functionality is an essential feature of the AnyCompany API service that enables customers to keep their data up-to-date in real-time. With this functionality, AnyCompany customers can enjoy seamless, uninterrupted, near-instantaneous data transfer between their apps and AnyCompany's API.

In this document, we will provide an overview of the AnyCompany data replication functionality and how it can be used by customers to keep their data up-to-date. We will also explain the various replication strategies supported by AnyCompany and how they can be configured.

**Data Replication Strategies Supported by AnyCompany:**

AnyCompany supports three data replication strategies: Full replication, Incremental replication, and Snapshot replication.

Full Replication:

In full replication, AnyCompany replicates all the data in a specific data source, in every iteration of data transfer. Full replication strategy is used to make a fresh copy of an entire dataset, or if some key changes are made in the source data. It is recommended that this strategy be run on an infrequent basis because of the significant computational resources required to execute a complete data transfer and the time required to transfer a large dataset.

Incremental Replication:

In incremental replication, AnyCompany transfers only the data that has been changed, added or deleted since the previous iteration of data transfer. This approach allows AnyCompany customers to transfer only newly updated or added data, thereby reducing the computing workload and computing resources requirements for data transfer.

Snapshot Replication:

In snapshot replication, AnyCompany replicates the data from a specific point in time(usually during a previous ‘Full Replication’ run) and continues replicating data updates as it happens. This strategy allows customers to easily recreate historical data up till a specific point in time.

Configuring Data Replication:

AnyCompany’s data replication functionality allows customers to set up replication on their preferred replication strategy (Full, Snapshot, or Incremental) and their data source (database, app, etc.). AnyCompany also provides a variety of configuration options for setting up data replication, including schema mapping, custom filtering, and multiple target systems.

Schema Mapping:

AnyCompany allows customers to set their desired mapping that guides how AnyCompany retrieves data from the source, and map that data to specific schema fields within the target system. Schema mapping enables seamless transfer of data between systems, regardless of any schema differences and without requiring any manual editing or intervention.

Custom Filtering:

Customers can filter out specific data to reduce data size and transfer only relevant sections of the data. With AnyCompany’s custom filtering, customers can filter by data type, size, timestamp, and other custom criteria to keep their data transfers lean and minimally sized.

Multiple Target Systems:

AnyCompany provides the flexibility to send data to multiple target systems simultaneously. This means users could replicate their data into their data warehouses, analytics systems, and sales management systems simultaneously.

**Conclusion:**

In conclusion, AnyCompany's data replication functionality is a critical feature for keeping customers’ data always up-to-date. AnyCompany offers three replication strategies: Full replication, Incremental replication, and Snapshot replication. The choice of replication strategy will depend on the customer's requirements and will need to be configured to meet these requirements. With AnyCompany's configuration options like schema mapping, custom filtering, and multiple target systems, customers can easily set up their data replication in their chosen manner and keep their data readily available to use within their app or app ecosystem.