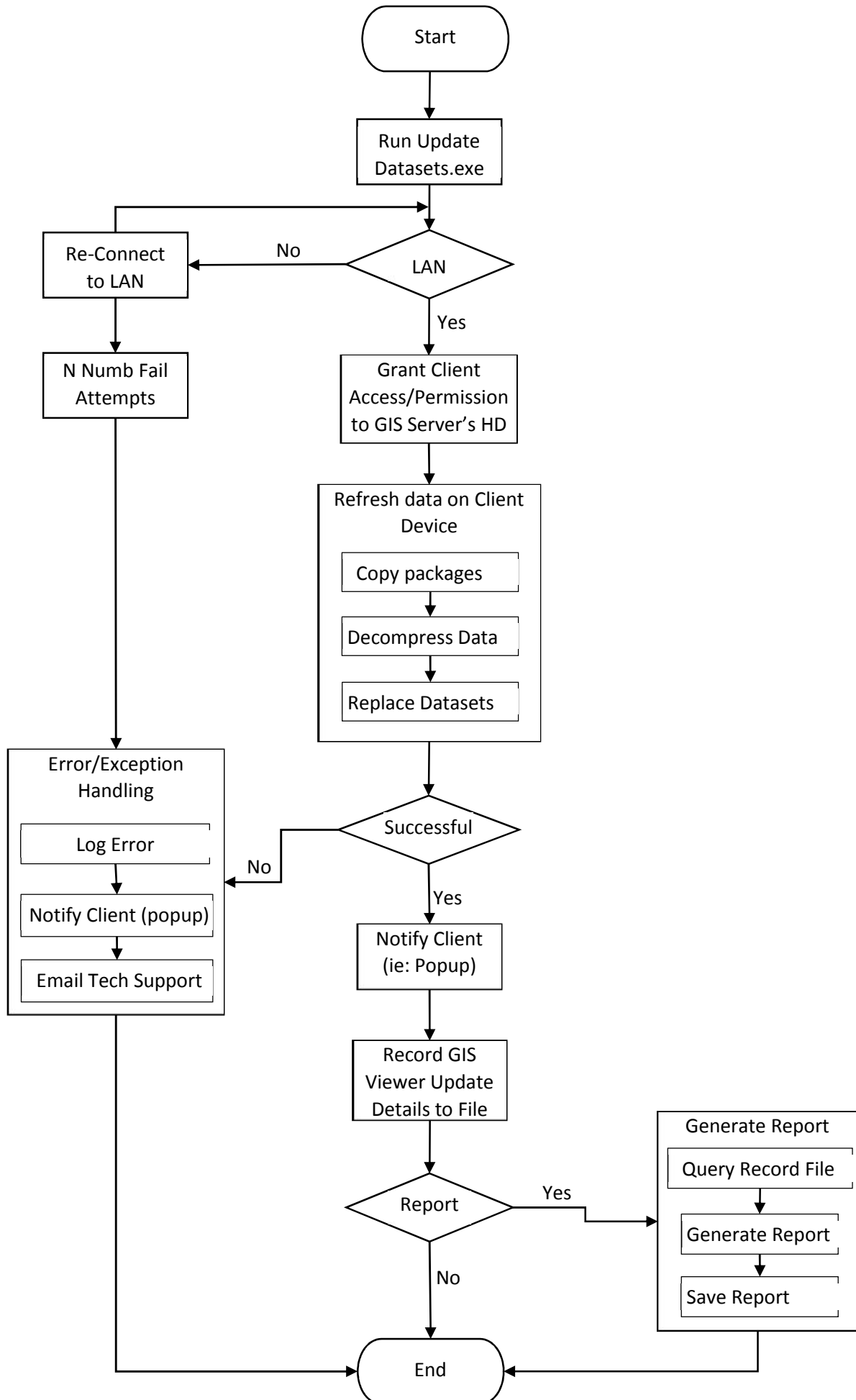


Update Client GIS Viewer & Generate Report



Notes:

1. "Refresh data on Client Device" steps include a) copy the appropriate packages from the hard disk on the GIS server to the laptop. b) decompress the packages data. c) replacing the existing datasets on client's laptop.
2. After a successful update of the client's GIS viewer the client/user, machine and application revision details are all saved on a file for future reference and client support
3. The option of generating a report or not comes from a manual input when the customer selects the "Regenerate Mobile User Report" command (overwriting the previous report if one exists).

Observations:

1. The recording of successful updates can be done either on an xml or csv file
2. The logging/recording of errors and exceptions can be done either on an xml or csv file

Constraints/Assumptions:

1. "Run_Update_Datasets.exe" application is already stored/saved on client's laptop
2. Before granting access to GIS Servers client/user authentication must be verified (ie: role-based- authentication)
3. XML file must comply with xml schema (ie: XSD) provided, which includes as a minimum the client's user name, computer name and the date and time the packages were downloaded from the server or exception occurred.

XML and CSV files Pros and Cons:

-) Some of the advantages of selecting xml files to store data are that it simplifies and speed up data queries, it facilitates the comparison and aggregation of data and also it limits the possibility of entering bad data on the system/file. Contrary, some of its disadvantages include that it may take longer to implement, xml and its schemas can be very verbose and only certain Unicode characters are allowed.
-) Some pros of choosing csv files to store data include that it can be easy to implement and save, it's suitable for small amounts of data and it can be more human-readable. On the other hand, some cons include it's not self-describing (no headers), It's strongly typed and it has a poor support of non-alphanumeric characters