(U//FOUO) Forwarding Selected MAILORDER Files Read Me

(U//FOUO) This document explains how to configure an XKS cluster to forward selected sessions via MAILORDER. Sessions are still scanned, tagged, and queryable in XKEYSCORE, even if the quota limit (category throttling) has been exceeded for the day. Use this document to learn the procedures for switching all Digital Network Intelligence (DNI) filtering and selection to the XKEYSCORE collection system.

(U//FOUO) Configuring DNI Selection in *xks.config*

(U//FOUO) Follow these steps to configure *xks.config* to use the XKS collection system for DNI filtering and selection:

1. (U//FOUO) Logon as the user `oper`.

2. (U//FOUO) At the command line from within any directory, type `vi config` and then press `Enter`. The *xks.config* file will open.

3. (U//FOUO) In the *Inputs* section of *xks.config* set the following configurations:

    a. `forward_sessions = yes` : This enables session forwarding on the `selected_output` plugin. You can verify that session forwarding is set to yes in the *defoult.xml* file located in `$XSCORE_DIR/config/plugins` .

    Note: Only after running the `xks setup plugins` process, described on page 2, will you see the *selected_output* plugin enabled in *defoult.xml*.

    b. `category_throttle = true (default)`. This sets the maximum number of sessions per category to 10,000 and the total size forwarded for any given category to be no greater than 1GB. If either of these limits is reached, XKEYSCORE will no longer forward sessions that hit on that particular category for the rest of the day. It will, however, continue to process data for other categories. These limits are reset every 24 hours.

    c. All MAILORDER files will be stored on the Master server in:

    /export/data/xkeyscore/outputs/mailorder

You can check the status of the category throttle using one of the following commands:

- `mysqls quota_status_current`
  The `quota_limits` forwarding status for all categories.

- `mysqls quota_status_yesterday`
  The `quota_limits` forwarding status for the previous day.

- `mysqls quota_throttled_current`
  The top 20 categories for the current day (The phrase "negative remaining" indicates the category was throttled).

d. `output_location = master` : All MAILORDER files will be generated in:

/xks_data/<masterHostname>/outputs/mailorder_working

Then the `mailorder_proc` process on the Master will rename and move them to:
/xks_data/<masterHostname>/outputs/mailorder

e. `mailorder = yes (default)` : On the Master, this creates the `mailorder_proc` process that polls the `mailorder_working` directory and then moves/renames any MAILORDER files to `$XSCORE_DATA_DIR/outputs/mailorder`.

4. (U//FOUO) Type `:wq!` and then press `Enter` to save and exit *xks.config*.

(U//FOUO) Additional Processes

(U//FOUO) In addition to editing the configurations in *xks.config*, it is important to run several set-up processes.

1. (U//FOUO) As the `oper` user, at the command prompt, type `xks setup plugins` and press `Enter`. This ensures any applicable changes to plugin configurations will take effect.

2. (U//FOUO) As the `oper` user, at the command prompt, type `xks setup processes` and press `Enter`. This will create the `mailorder_proc` process on the Master.

3. (U//FOUO) At the command prompt, type `rsync push_config` and press `Enter`. This pushes the latest configuration changes to the slaves.

4. (U//FOUO) As the `oper` user, at the command prompt, type `xks proc start` and press `Enter`. This will ensure all of the running processes pick up any configuration changes.

5. (U//FOUO) At the command prompt, type `xks proc saferestart` and press `Enter`. After setup is complete, this restarts `process_datas` for the new configurations to take effect.