Xamime filter process path

Detailing of the Xamime filtering process

Startup

Parse command line parameters (check for debugging and other special behaviour flags)
Load configuration files, licence file, initialize all subsystems (decoders, ACLs)

Initialisation

Create initial sandbox zone in the Xamime storage location (ie /usr/local/xamime/tmp/inf*)

Email Input

Read Email from the Standard-Input (stdin) and store to a local file

Prefilter

If required, invoke the program defined in the prefilter configuration. Location of the mailpack, sender and receiver are sent to the prefilter as command line parameters. The prefilter is free to modify the mailpack at this stage. This is the only location you can alter the mailpack and have it affect the unpacking.

Main Xamime process loop

The following process is performed for every valid recipient

If there is more than one recipient, duplicate the mailpack into a unique inf* sandbox

- Decode email into its attachments
- Obtain information on each file (type/size/etc)
- Check and clean sender/receiver address pair

Process ACLs

For each ACL in the Xamime ACL database;
- Test ACL 'name' against the sender and/or receiver address to see if it's applicable
- If the ACL is applicable, perform tests as detailed in the ACL items

Repeat until either all ACL's are tested, or a PASS or DENY condition is flagged.

If required, append x-headers and disclaimers

Perform logging operations of email status

If email is blocked,
- Write redelivery script
- If required, write and deliver admin, sender and receiver blocked-email reports

If email is passed,
- Deliver email

Postfilter

Execute the postfilter application; often used to populate external databases with logging information. Xamime sends a URI encoded data set to the called application via STDIN on a single LF terminated line.

Closing

If required, remove all files associated with the Xamime decode/filtering process.

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