History based

For each prefix,Origin AS pair
(p, AS) from updates

Is this (p, AS) pair found
in self-consistent list of
(p, origin AS) pairs
in IRRs/RIRs?

Yes

No

Obtain advertisement
time(s) of (p, AS)

X_i ; $i = 1,2,3, …$

Take differences:
$t_e(p, AS, i) = Y_i - X_i$

Obtain withdrawal
times of (p, AS)
following each
advertisement above
(if there is no
withdrawal set
$Y_i = 10^6$)

Y_i ; $i = 1,2,3, …$

$t_e (p, AS, i) > 48$ hrs
(for at least one i) ?

Yes

No

Write (p, AS) pair into
stable list of {prefix,
Origin AS} pairs

Write (p, AS) pair into
unstable list of
{prefix, Origin AS} pairs