

Value Added Services Suite for Roaming

2G/3G/4G STEERING OF ROAMING

SOLUTION FOR MNOs AND CARRIERS

The Halys comprehensive and flexible service allows to optimize your roaming revenues and costs and cope with the constraints of your infrastructure:

- **Network Steering**
using probes or associated with roaming hubs
easy to deploy but costly to exploit (additional roaming traffic)
- **Preferred Steering**
faces the difficulty to have the SIM keys

In case of carriers or group of networks, the Halys platform centralizes the service and allows on top of a steering management by each network to have group policies.

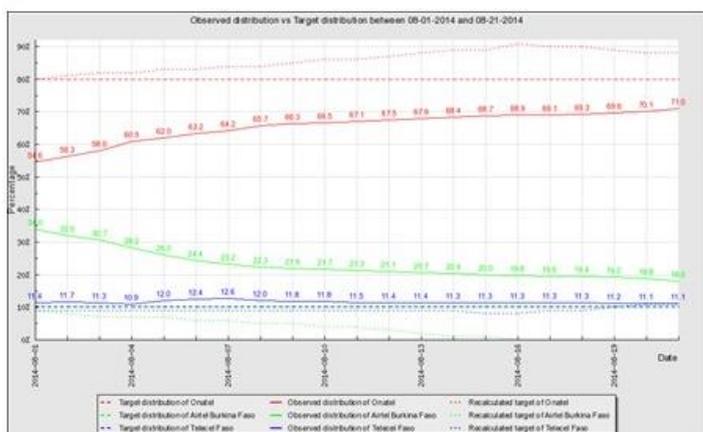
The Halys powerful associated roaming provisioning and monitoring give tools for an efficient centralized administration of the service.

1- Network Steering

SS7 or Diameter probes are added classically on the international signaling links to observe the dialogs with the partner networks.



Setting of the roamer-out target distribution in a country's various roaming partners



Display of the achievement of the target distribution.

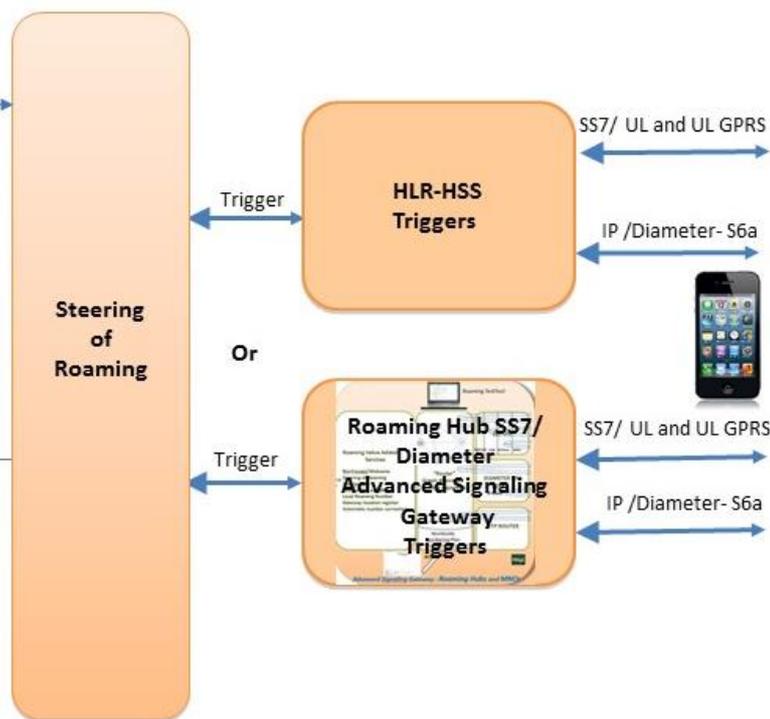


Fig 1 - Network steering triggered by the Roaming Hub or by the Halys HLR-HSS

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More preferably, probing can also be provided with a Halys associated hub that allows to be independent from the physical configurations of the signaling links.

Steering commands are sent to the out-roamer when needed to force a change of network independently from the HLR.

The Halys Network Steering is one of the most economical solution on the market : one of its main economic features is the permanent minimization of the number of Update Location rejects (it is reminded that due to the network selection logic in the mobile, it needs 4 to 8 rejects before the phone changes to another network). In order to optimize, the algorithm follows a smart “torpedo curve” (shoot ahead of the ship) instead of a dumb “dog curve”.

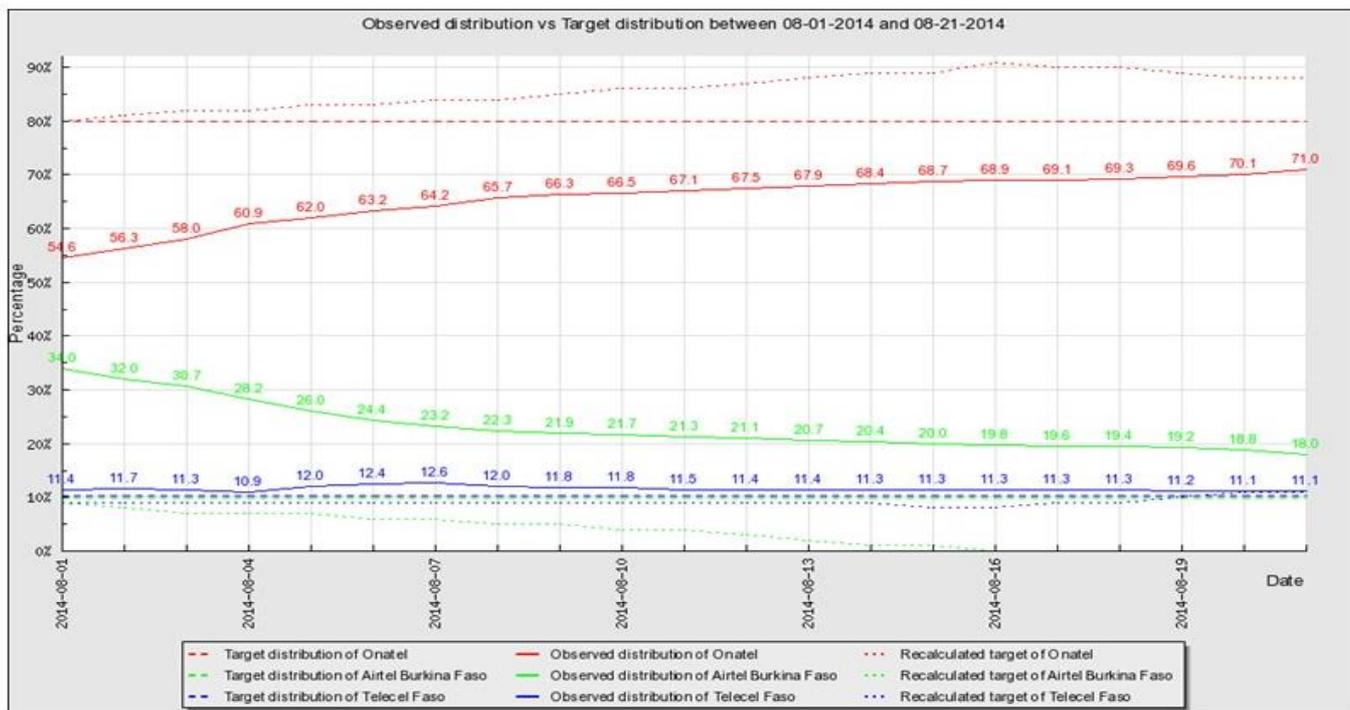


Fig 2 - SoR daily catchup with the Target distribution

The "Target Distribution (between the partners)" is used with the "Distribution (between the partners) before Steering" and "Catchup Policies" (urgency to meet the target) to drive the service.

In case of a SoR for a carrier or a group of networks, the distributions can be defined in associating the roamers out of several networks.

2- Preferred Steering

Halys provides an integrated OTA server that allows the dynamic management of the SIM cards content. The different steering policies are applied by the modification of the SIM registers related to the selection of the visited networks.

3 Monitoring of Steering

The Halys platform do record all the roaming transactions as well as its Steering activities. Global statistics and reports as well as specific IMSI roaming behaviour are provided to allow an efficient management of the service.

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