



Managing complex geographic toll-free routing using the Somos SMS/800 interface is difficult and time-consuming.

When complex geographic routing is needed—for example, to generate least-cost routing CPRs (Call Processing Records)—it becomes impractical and often impossible to manually create routing updates. The result:

- Patchwork call routing and long delays in implementing or updating least-cost routes
- Loss of focus on the core business and cost reduction opportunities
- Wasted time investigating and implementing “home-grown” IT solutions, such as screen-scraping or spreadsheets

CPR Generator (CPRGen) is a powerful 8MS Cloud add-on service that automatically generates and optimizes complex geographic toll-free routing from user-supplied input. Specify how you want your toll-free calls routed, and 8MS Cloud CPRGen automatically creates complex records that:

- Select a carrier based on one or more of the following: originating 6-digits (NPA/NXX), NPA, LATA, state, or 10-digit number
- Direct traffic to POTS numbers based on any of the above
- Block calls based on any of the above
- Define a default carrier for calls not matching any origination criteria
- Create and name complex routing segments (referred to as “Trees”) with any of the above, and then attach them to the branches of other Trees to create the final complex routing

After CPRGen creates the update, the 8MS Cloud graphical user interface (GUI) is used to send the generated complex record(s) to SMS/800. Most CPRGen routing updates complete in minutes, not hours. When CPR updates are required, just modify the input file, and CPRGen automates and optimizes the plan and label creation, thereby simplifying your response to NPA-NXX additions or NPA Splits.

CPRGen meets the needs of the most demanding customers in the toll-free industry by enabling them to:

- **Improve performance** - Our clients update more than 100,000 CPRs annually using CPRGen
- **Maximize geographic routing** – Our customers generate plans that often have a large number (more than 50,000) of NPA/NXXs they want to route. A CPR with a single six-digit node can be built, but is likely to be rejected by SMS/800 because of the large number of nodes and paths. In most cases, CPRGen is able to restructure the plan as an AREA node followed by NXX nodes making it acceptable to SMS/800

“Creating and loading complex toll-free routing into SMS/800 has always been a manual process until we started using CSF’s 8MS Cloud CPRGen. Now it’s a snap!”

- **Ignore invalid NPA or NXXs** - If requested, CPRGen ignores inputs containing NPAs and (or) NXXs that include NPAs or NXXs that SMS/800 does not list as valid

- **Optimize CPR size** – Users can request that all geographic routing nodes in the CPR are examined to see if the routing logic of any branch exactly matches that of another branch. If so, CPRGen removes the branch, thereby significantly reducing the size of complex CPRs
- **Control update rate** - Somos SMS/800 has a rule that no single customer may use more than 5 percent of the CPU per hour for processing their routing data in the SMS/800 system. CPRGen allows you to specify an update rate that meets your business needs and adheres to the SMS/800 policy.

8MS Cloud Platform Services

8MS Cloud Core - The main application service of the platform that simplifies and automates the provisioning of toll-free numbers.

8MS Cloud Carrier Express - A standalone or add-on service of the platform that automates the carrier-side provisioning and activation process.

8MS Cloud API - An add-on service that allows carriers and RespOrgs to streamline the toll-free number provisioning flow and integrate the power of 8MS Cloud into their in-house IT infrastructures.

8MS Cloud CPRGen - An add-on service that automates the generation, management, and optimization of complex geographic toll-free routing.

8MS Cloud LCRGen - An add-on service that creates least-cost routing by minimizing external carrier costs and generating optimized toll-free routing.

8MS TeXT - A turnkey solution to enable carriers and RespOrgs to text-enable and deliver texting on toll-free numbers for your customers.

800ForAll.com - An e-commerce website, based on 8MS Cloud, that allows individuals to search for and reserve toll-free numbers and port those numbers to a carrier or RespOrg of their choice.

About 8MS Cloud

CSF's leading SaaS platform simplifies and automates toll-free number provisioning and complex routing with increased automation and a simple administrative interface.

With 8MS Cloud, you can reserve, update, and activate toll-free numbers in bulk in the Somos SMS/800 database and major carrier networks. Use 8MS Cloud to optimize the routing of toll-free numbers based on geography and least cost, and quickly re-route them during an emergency. The platform also provides a turnkey solution for text enabling toll-free numbers from the same interface, without the need to establish separate relationships with texting providers. Visit www.8mscloud.com to learn more.

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