

# CDMA OTA PROVISIONING

## Simplify Handset Activations and Gain Visibility

Reduce costs associated with manual provisioning of devices and proactively troubleshoot and address issues.

Our SS7-based, IS-683 compliant OTA solution is the most powerful provisioning and parameter administration platform in the market. Driven by groups, such as 3GPP and the CDG OMH initiative, CDMA handsets continue to expand in functionality and rich features, creating increased demand to not only bring these devices to market, but also manage existing deployed handsets.

### ➤ SIMPLIFY PROGRAMMING

As collaboration and roaming agreements between operators continue to expand and change, the need to assign viable preferred roaming partners to devices is now deemed critical. The Interop Technologies CDMA OTA solution makes handset programming simple. Over-the-Air Service Provisioning (OTASP) enables subscribers to quickly and easily activate their devices. Our solution offers an optional Interactive Voice Response (IVR) System that is fully integrated into the OTAF, saving you time and resources by automating routine tasks, including activation, MDN changes, ESN swaps, and PRL updates and inquiries, while making services available 24 hours a day. Through online reports, you can view the outcome results of a session and the total number of times a session was attempted during a specified time frame via a specific MDN or TRN.

real-time  
visibility is key

With Over-the-Air Parameter Administration (OTAPA), operators can simply send mass updates to customer devices or reprogram individual devices. Customer service representatives can do “one-off” updates so engineers can focus on more technical tasks. OTAPA provides full business visibility with real-time, Web-based customer care and reporting from the OTA campaign to the individual customer level.

### ➤ OPTIMIZE PRODUCTIVITY WITH INTELLIGENT PROGRAMMING

The Interop Technologies CDMA OTA solution helps you manage expenses across your customer base more effectively and react quickly to lock in lower costs when roaming relationships change.

Automated PRL Selection dynamically determines the most appropriate PRL for a target device based on a number of operator-specified device or subscriber parameters. Parameters can

ways  
to  
deploy

### CHOOSE FROM FOUR DEPLOYMENT OPTIONS

Interop Technologies offers four flexible deployment options:

**Hosted**—Share technology in a service bureau environment.

**Modified Hosted**—Deploy our solution at your site without capital expense; we manage it for you.

**Turnkey**—Purchase our solution outright for on-site deployment.

**Turnkey with Managed Services**—Purchase our solution outright; we handle operations and management.

All four options include our world-class technology, and our architecture enables easy migration from hosted to turnkey if and when your business requires a different strategy.

include those collected directly from the device (via the protocol capabilities request, for example) or from other operator systems, such as the rate plan. Unlike traditional PRL updates, this capability helps ensure that every device gets the right PRL, raising success rates, reducing the number of corrective resends, and optimizing the overall effectiveness of operators' roaming agreements.

A Service Programming Code (SPC) Algorithm and Retry Mechanism provides the flexibility necessary to ensure maximum success rates for unlocking devices—an essential step in any device programming session. The mechanism can leverage a standard code, a standard algorithm, or an operator-provided algorithm. If the first SPC fails to unlock a device or the appropriate algorithm is unknown, the solution can be configured to retry using a sequence of other available algorithms and codes.

### ➤ HOST UNTIL YOU'RE READY TO BUY OUR TURNKEY SOLUTION

Don't let resource constraints or evolving business environments dictate your long-term strategy.

Unlike other hosting companies, which can only provide long-term hosted solutions using another company's technology, we can easily migrate your services from our hosted to turnkey solutions. Should your business needs change and you decide to migrate, we help you make the transition smoothly and quickly.

The technology is exactly the same for hosted and turnkey. Common interfaces for users, customer care, billing, and reporting simplify the migration process. With other providers, disruption occurs from switching technologies, vendors, and tools, often just as services become a critical part of your business.

Interop Technologies offers a simple migration path from hosted to turnkey, providing exceptional deployment flexibility.

### ➤ COMBINE OUR SOLUTIONS

For a complete set of handset configuration firmware and software update capabilities, add the Interop Technologies SCOPE™ device management solution to our CDMA OTA provisioning solution.

### ➤ PROVEN PARTNER

Interop Technologies has a proven track record and is a trusted business partner. We are well-positioned to support the next generation of core technologies whether in the wireless, broadband, or traditional telecommunication space.

## KEY BENEFITS

### Over-the-Air Parameter Administration (OTAPA)

- PRL "push" to individual subscriber handsets
- Mass-update tool set for fast, automatic updates to large numbers of handsets
- OTAPA Blast Tool, which enables mass handset updates for high-volume parameter administration

Ability to update and modify 3GPP, PRL, AKEY, PUZL, NAM, and MDN for additional functionality

### Over-the-Air Service Provisioning (OTASP)

- User-initiated activations and handset updates
- NAM provisioning
- Optional fully automated, customizable, multi-language-capable IVR system
- Optional API interface for operators using an existing IVR system

Automated, highly configurable PRL Selection

Configurable SPC Algorithm and Retry Mechanism

OTAPA and OTASP functions support ESN/MEID/pESN and RUIM cards

Short Code PRL Tool

- PRLs can be updated over short codes assigned to default PRL file

Extremely high activation accuracy

Real-time, Web-based customer care and reporting

"Five-nines" (99.999 percent) reliability