

ADVANTAGES

- **Mass Operations:**

MiBAS allows performing provisioning operations on multiple radios simultaneously. Among available mass operations: addition, configuration, activation, deletion, on-going changes, and more.

- **Data Integrity:**

MiBAS accesses the network elements (where applicable) directly and generates the proper file formats for the radio programming process. So inconsistency is avoided and data integrity is assured.

- **Radio Configuration by Template:**

MiBAS allows for a quick configuration of radios by applying predefined templates.

- **Consolidated database:**

MiBAS maintains all relevant customer and subscriber information in a single database, integrated with the network and handset information.

- **Logging Changes:**

MiBAS logs and stores provisioning changes including the exact parameter changes, the time of the change and the user who performed the change.

- **Self-care Through Web Access:**

Agencies or other remote administrators can add their own subscribers and perform various other provisioning tasks with an easy Internet/Intranet browser-based application. Access to MiBAS is over SSL channels and under permissions.

- **Support Current and Future ASTRO 25 releases:**

MiBAS supports current ASTRO®25 features and is committed to support future ASTRO®25 functionality.



MiBAS

For further information please check our website:

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or contact us at:

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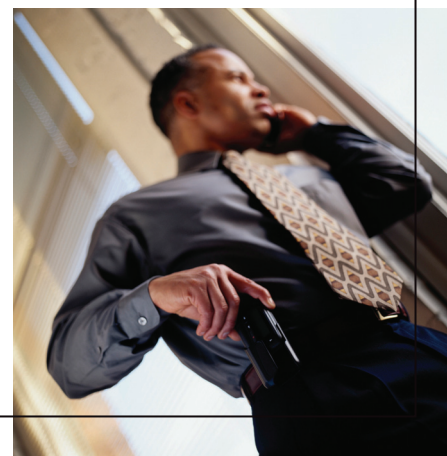
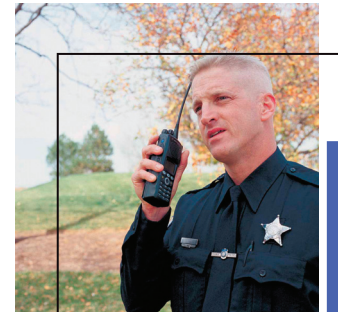


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MiBAS

Motorola *i*ntegrated Billing & Administration System



MiBAS for ASTRO®25

Optimized Billing & Provisioning

Less Effort. More Control.

ASTRO®25



MiBAS FOR ASTRO®25
Motorola integrated Billing & Administration System

ASTRO®25 technology expands the possibilities for sophisticated networking. But it also intensifies the challenges of management, administration, control, and data integrity. To tame the complexity of ASTRO®25 networking with a single solution, Motorola offers you **MiBAS**: the **M**otorola **i**ntegrated **B**illing & **A**dministration **S**ystem.

MiBAS is Motorola's provisioning and billing system for small to large-scale wireless networks. Introduced in 1994, MiBAS has been running successfully at installations in North and South America, Europe, and the Far East. Standing behind MiBAS are Motorola's proven expertise and years of experience in dispatch, telephony, packet data and networking.

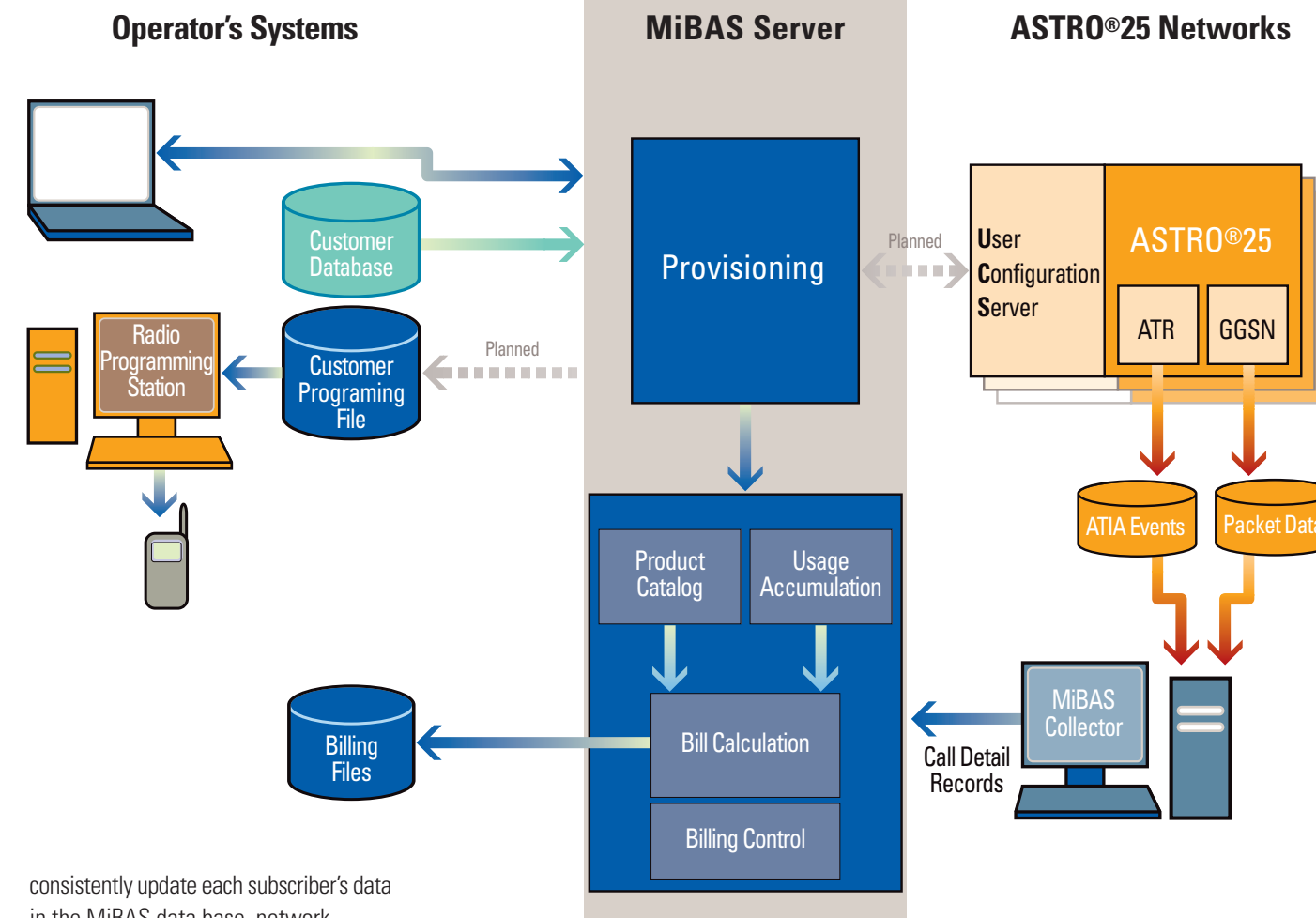
MiBAS is a scalable and adaptable system designed to fit the complete range of ASTRO®25 networks. It supports dispatch, telephone interconnect and data applications for both private and shared networks ranging from regional to nationwide systems. MiBAS has a modular, open architecture, so it can be configured and integrated with Oracle Applications, SAP/R3, and many other external applications and packages – as well as with future ASTRO®25 elements. Motorola is committed to MiBAS upgradability, benefiting from our position as an industry leader.

The MiBAS solution covers all the necessary provisioning and cost allocation activities for ASTRO®25:

- Provisioning subscriber units
- Activation
- Creating files for radio programming
- Rate plans management
- Billing mediation
- Bill calculation
- Billing control
- Inquiries
- Traffic analysis

PROVISIONING

MiBAS is a powerful automated tool for configuring subscriber units according to each subscriber's purchased services. Its browser-based and Windows-based man-machine interfaces make it easy to manage subscriber profiles. For example, an operator can use MiBAS profiles to apply a full set of predefined properties to a new subscriber all at once. And rather than provisioning subscribers on an individual basis, you can reconfigure and assign services by selecting and acting on multiple subscribers simultaneously. MiBAS then automatically reaches out to

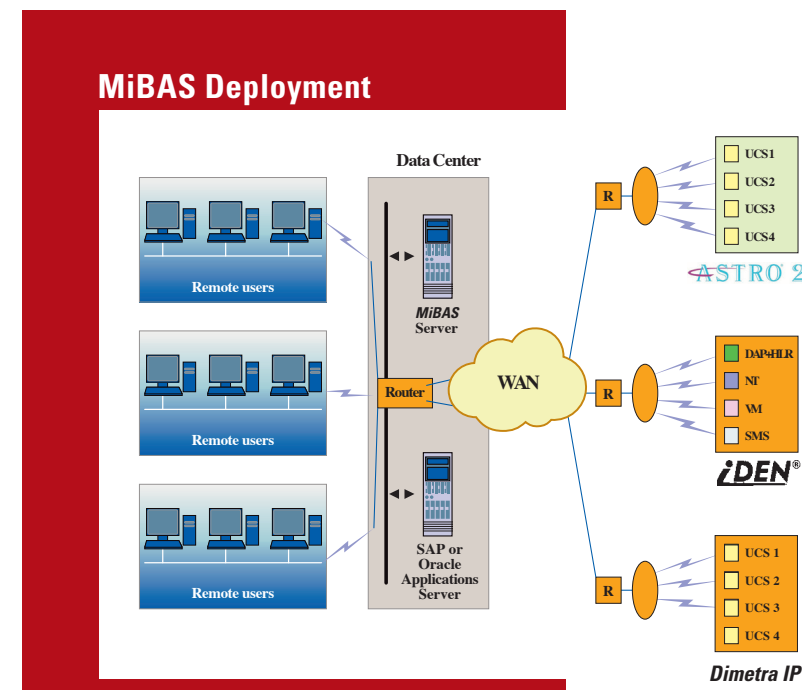


consistently update each subscriber's data in the MiBAS data base, network elements and handset files, without extra effort from the operator. MiBAS gives the ASTRO®25 operator multiple provisioning capabilities:

- Create and manage subscribers accounts
- Activate subscriber (and verify proper subscriber configuration)
- Suspend / Resume subscription
- Add / Omit features
- Assign numbers (Sublds, phone numbers, IP addresses, talk groups, etc.)
- Replace handsets

ASTRO®25 networks from Motorola can benefit from end-to-end automatic MiBAS provisioning by using the ASTRO®25 Provisioning API.

MiBAS allows self-provisioning by authorized customer administrators over the web. This saves time and encourages subscribers to make the best use of their equipment.



BILLING

In a private network, inefficient use of resources is always a concern. MiBAS billing answers this concern by giving operators the tools to track and influence the usage patterns of ASTRO®25 subscribers. The system distinguishes between different types of service, so you can identify and bill particular users or business units accurately. In a ASTRO®25 network run for profit, the same billing technology can be a way to steer users toward greater use of premium services. In both cases, MiBAS leads to cost-effective usage of your network capacity.

Building on MiBAS's extensive deployment for private and shared digital radio networks, the system has been enhanced with unique billing features that perfectly meet the needs of the ASTRO®25 operator. The MiBAS rating and billing solution is flexible, rich in features, and user-friendly.

MiBAS gives the ASTRO®25 operator versatile rating capabilities, among them:

- Recurrent or one time fixed charges
- Optional fixed charges
- Usage fee for telephony airtime
- Usage fee for dispatch airtime
- Usage fee for Short Data Service
- Usage fee for packet data
- Free usage packages
- Discount packages
- Cost sharing contracts between customer (corporate) and handset-holder

The **billing mediation module - MiBAS Collector**, collects billing events for voice and data and prepares them for rating, billing and traffic analysis. In a ASTRO®25 network, for example, it works like this: The call event information is written into ATIA files. Then the MiBAS Collector module collects the billing events, converts them and creates call detail record (CDR) files for further processing and analysis. The MiBAS Collector module is a Linux-based application deployed with each zone controller.

Administrators can access their customers list, activate subscribers, configure the handset and replace subscriber unit via web-based application.

