



# bio-METRICA

One Identity, Everywhere.

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## Bio-Metrica Border Guardian - BG™



**Border Guardian - BG™** is a modular and easy to use system that securely enrolls and identifies travelers using biometrics. **BG™** is a scalable and customizable system that provides the ability to choose a biometric technology (e.g. fingerprint, face, iris, signature, vein, among others), and provides a multi-biometric system (i.e. to identify users using a combination of different biometric methods), over a versatile infrastructure (land, mobile units, handheld terminals, etc.).

All of this runs on the robust **BII™** architecture, which allows collected information to be shared across multiple applications.

**BG™** makes it easy to enroll and identify travelers using biometrics to verify their identity and organize that information in an easy to query system. By using biometrics, **BG™** provides a higher level of security by ensuring people are who they claim to be.

**BG™** provides a set of functions that allow easy enrollment and identification of travelers:

- Enroll multiple types of biometrics via a variety of devices from different manufacturers.
- Maintain a strict log of data that has been entered in the system including enrolled travelers, and travelers that have been already identified at particular ports of entry.
- Compare travelers against 3rd party databases such as no fly lists, criminal systems (AFIS), and other national intelligence assets.
- Keep detailed information of administrators performing verification of travelers and controlling access to system data via a multi-tiered access scheme.
- Flexible deployment on desktops, mobile systems, or hand held terminals for remote deployments.

**BG™** is used by governments who require a robust and secure system to enroll and identify travelers.

**BG™** is also a customizable system which can be adapted for any government's needs.

## Enrollment

The Enrollment screen is where all data on the traveler is entered in the system. The operator will capture all the information in a customizable form and then enroll the traveler's fingerprints (or other biometric types) and take several photos. Enrollment generally includes both demographic and biometric information including identification characteristics, a picture, name, address and identification documents (by default the system will use fingerprints, but the biometric method can be customized according to customer requirements). Enrollment can be configured in a way that it will not let the operator to save the information until a set of activities are established, such as high resolution fingerprints, minimum number of fingerprints captured, specific mandatory fields, high resolution pictures taken, immediate duplication search within the local database, and near real time duplication search for the entire database, etc.

## Identification / Verification

After enrolling the traveler, **BG™** makes it easy to confirm their identity. **BG™** uses a variety of methods to identify and verify the identity of traveler.

There are two types of searches that can be performed.

- **Verification Search (1:1):** An operator can enter biographical information for the user in order to locate the specific record.
- **Identification search (1:N, 2:N, 4:N or 10:N):** This method will take a fingerprint and compare it to all other fingerprints in order to find a matching record. In order to minimize the amount of records the search is required to go through, the operator can also enter some combination of a biographical plus biometric trait.

Out of the two the short list search is the most efficient and utilizes less server resources.

## Investigations

While **BG™** makes it very easy to enroll new travelers, there is always the possibility for people to try and take advantage of a system through the easiest way: Through Operators.

In order to ensure fraudulent data is not in the system, **BG™** runs has two methods of checking newly entered information is both unique and genuine. Both of these searches are run nightly to check new records created during the day.

- **Biometric Duplication Search:** This search method takes each of the enrolled biometrics and compares them against all of the previously enrolled records in the database.
- **Biographic Information Search:** The second search takes the biographical information collected during enrollment and performs a comparison against text entered in other records.

In the Investigations area, results from both of these searches are displayed, and combined to allow investigators to remove fraudulent records as well as identify individuals who are perpetuating the fraud.



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