



Biometric Training Programme (BTP)

Guide and Manual



The Essential Toolkit for Biometric Specialists

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1.1 Document Version Control

| Version | Detail | Issue Date | Author |
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1.2 Legal Statement

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2 Simply Biometrics: Biometric Training Programme

2.1 Introduction

Simply Biometrics (SB) is a subsidiary of Human Recognition Systems Ltd (HRS), a market leader in developing and delivering high end value based biometric solutions. SB offers a **one stop biometric shop** for a comprehensive range of biometric hardware and software applications utilizing its excellent network of partners.

SB as part of its service and solution portfolio also offers comprehensive Biometric Training Programmes (BTP) on all aspects of biometrics to help system integrators achieve competence in developing and supporting biometric solutions. Our team of experienced Biometric Consultants focus specifically on helping large and small system integrators develop competence in development and delivery of Biometric Solutions.

2.2 Scope

This training guide is designed to provide system integrators and security consultants an overview on the various BTP Modules conducted by SB to help them develop competence along critical areas of solution development. It will give a detailed overview on the various training packages on offer along with their duration and a brief on who will benefit from it.

3 BTP Objectives

3.1 Customised BTP Modules

The BTP modules focus on the following key areas:

- (a) **Commercial Aspects/Sales Training Module:** Focus on helping sales and account managers develop a comprehensive understanding of the biometrics market and current biometric applications to facilitate rapid penetration of the emerging market and effectively capture opportunities.
- (b) **Basic System Integration and Maintenance Module:** This module is aimed at system installers and takes a holistic look at the implementation of a biometric system including everything from planning an installation, to troubleshooting problems and dealing with customer concerns and objections.

The module is specifically designed to provide attendees with a strong overview of the biometric technology in question, optimum installation environment and process. The training module will help attendees develop a detailed understanding of the configuration options of the technology, relating this where possible to the actual deployment environment. It will provide practical hands on experience of diagnosing and repairing common biometric technology issues to enable a smooth repair and servicing capability. The module will also give an over view on key user concerns and how these can be overcome through training and user education.

- (c) **Beginners Basic Biometric Hardware and Software Integration Training Module:** This course is aimed at consultants and possibly lead developers who want to address standard business problems with existing biometric software and hardware solutions. The attendee should have prior knowledge of systems architectures.

This course will assist the attendee in developing their skills in identifying key requirements that need to be considered for developing a biometric solution and then answering these requirements with existing biometric hardware and software components. It will also include case studies/examples on answering



requirements with specific hardware and software solutions using various solution architectures.

- (d) **Advanced Biometric Hardware and Software Integration and Maintenance Course:** This course is aimed at software developers desirous of developing competence in building complex bespoke biometric solutions. The attendees should have knowledge of software development processes and various computer development platforms including .NET, Win32 and Java. They should also have some programming knowledge in Java or C++.

The course will begin with introduction to the specific biometric technology the SDK course is based on and then go on to introduce the users to the associated hardware and how to use it (configuration/enrolment/identification). After this hardware introduction, the course will focus on vendor specific SDK, introducing the user to all the key functional areas of the SDK including live development experience.

3.2 Who will benefit from the BTP?

The BTP is aimed at technology companies, system integrators and consultants who want to broaden their horizons and enhance their prospects in the rapidly emerging biometrics market. The various training modules offered are designed specifically to help system integrators, security consultants and technology focused companies with ambitions of developing competence in Biometrics technology.

The training modules on offer are designed for both greenhorns and experienced system integrators. The trainees stand to gain from years of technical and commercial experience of the training teams.

4 BTP: Modules

4.1 Biometric Market: Commercial/ Sales Training Module

Course Duration: 1 – 2 Days (0900 to 1730hrs)

Target Audience: Business Development/Sales Team

- i. What is Biometrics?
 - a. History, Key Milestones and Present
- ii. Introduction to:
 - a. Face Recognition
 - b. Finger Printing
 - c. Hand Geometry
 - d. Iris Scanners
 - e. Vein Recognition
 - f. Emerging/Developing Technologies

* Strengths and Weaknesses.
- iii. Demonstration and Familiarisation with Live Biometric Hardware and Software
- iv. Existing Biometric Applications and Solutions:
 - a. Commercial Sector



- b. Government Sector
- c. Business Case Study: Large, Medium and Small Solutions
- v. Contextual Environment:
 - a. Political, Social, Legal, Ethical and Technological
- vi. Competing Technologies and Solutions:
 - a. Direct and Indirect
- vii. Market Competitiveness:
 - a. Structure
 - b. Existing Competitors/Key Players
- viii. HRS Business Case Study: Manchester Airport, Methadone Dispensing and Construction Edition
- ix. How and Where to Sell Biometric Technology and Solutions:
 - a. Key Industry and Government Sectors
 - b. Strategic Approach to Clients/Customers
- x. Key Things to Consider Before Recommending a Solution/Business Proposal:
 - a. Why a Technology Focus may not be the Right Approach
 - b. Importance of People, Process and Policy Management in Developing Successful Solutions
- xi. Emerging Biometrics Market, Future and Key Growth Indicators

4.2 Basic System Integration and Maintenance Module

Duration: 3 Days

Target Audience: System Integrators/Project Managers

- i. Technology Overview
 - a. Biometrics Overview
 - b. How the Technology Works
 - c. System Topologies
- ii. Installation Considerations
 - a. System Specifications
 - b. User ID Structuring
 - c. Integration with 3rd party systems
 - d. Site Preparation
 - e. User Training
 - f. Aftercare & Maintenance
- iii. Biometric Installation



- a. Power and Battery Back-Up
- b. Communications
- c. Special Requirements
- iv. Configuration
 - a. Initialising & Addressing the Reader
 - b. Biometric Software Configuration
 - c. External Device Integration
 - d. User Enrolment
- v. Recapitulate
 - a. Questions and Answers
- vi. Trouble Shooting (Support and Maintenance)
 - a. Reader Diagnostics
 - b. Using Diagnostic Software Tools
 - c. Common Faults – How to Fix
- vii. Course Assessment

4.3 Beginners Biometric Hardware and Software Training Module

Duration: 3 Days

Target Audience: Consultants/Lead developers

- i. Introduction to Biometric Solutions
- ii. Key Components: Building Biometric Solutions:
 - a. Biometric Hardware
 - b. Software / Licensing
 - c. Software Development Kits
 - d. Verification verses identification
 - e. Communications Infrastructure Requirements
 - f. Logical Security Requirements
 - g. Physical Security Requirements
 - h. Time and Attendance Requirements
- iii. Introduction to Biometric Hardware (common applications):
 - a. Face Readers
 - b. Fingerprint Readers
 - c. Hand Geometry Readers
 - d. Iris Cameras



- e. Vein Recognition Systems
- iv. Introduction to Biometric Software Solutions (common applications):
 - a. Face Recognition
 - b. Fingerprint Readers
 - c. Hand Geometry Readers
 - d. Iris Recognition
 - e. Vein Recognition
- v. Introduction to Biometric Software Development Kits
 - a. What is a Biometric SDK (provide an interface to biometric hardware and management software that allows for the development of custom biometric applications etc)?
 - b. What are the standard platforms that are supported (.NET , Win32, JRE)
 - c. Face SDK's (Platforms / Architectures / Pro's and Cons)
 - d. Fingerprint SDK's (Platforms / Architectures / Pro's and Cons)
 - e. Hand Geometry SDK's (Platforms / Architectures / Pro's and Cons)
 - f. Iris SDK's (Platforms / Architectures / Pro's and Cons)
 - g. Vein SDK's (Platforms / Architectures / Pro's and Cons)
- vi. Accessing business requirements and deriving the best match biometric solution:
 - a. Identifying the need for an identification or a verification solution
 - b. Identifying the need for physical access capabilities
 - c. Identifying the need for logical access capabilities
 - d. Identifying the need for Time and Attendance capabilities
 - e. Identifying infrastructure requirements
 - f. Identifying bespoke requirements
 - g. Applying requirements to the best match hardware / software solution
 - h. Live case studies

4.4 Advanced Biometric Software (Specific) Development Course

Duration: 3-4 Days

Target Audience: Software Developers

- i. Introduction to the Chosen Biometric
 - a. How the biometric works (brief insight to template generation)
 - b. Common applications of the Biometric
- ii. Introduction to the Biometric Hardware (inc. Practical Device Labs)
 - a. Overview of the hardware including it's device family



- b. Introduction to the hardware functionality (e.g. is it verification / identification)
 - c. Device communication methods (Serial / USB / Ethernet etc)
 - d. Device configuration via the device or vendor specific configuration software
 - e. User enrolment via the device and vendor specific enrolment software if required
 - f. User verification / identification via the device and vendor specific recognition software if required
- iii. Introduction to the Software Development Kit
 - a. SDK platform
 - b. Advantaged and disadvantages of the SDK
 - c. Configuring your development environment
 - iv. SDK Functionality (inc. Practical Development Labs)
 - a. Device communications
 - b. User management
 - c. Device configuration
 - d. Template management
 - e. Debugging and testing techniques and tools

5 Contacting us for BTP

We have a dedicated training team of biometric hardware and software consultants with extensive experience of developing and delivering complex biometric solutions. The training programme is developed to suite different client requirements and we suggest that you discuss your training requirements with us to help understand your requirements comprehensively.

Our training team can be contacted on:

Tele: 44 (0) 151 230 5599

Email: training@simplybiometrics.com

A technology consultant will be able to assist you in identifying the right training module for your business requirements.

* Due to extensive business commitments we suggest you book training schedules in advance to avoid inconvenience.

