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Biometric Standard -Vocabulary for Testing

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Sponsor Security Industry Association

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ACKNOWLEDGMENTS

The project to develop a standard vocabulary for use in testing and evaluating biometric products was initiated in 1987 by the International Biometric Association (IBA) Standards Committee. In 1989, the Committee became affiliated with the Security Industry Association (SIA) and changed its name to "SIA Biometric Standards Sub-Committee".

SIA gratefully acknowledges the efforts of the many volunteers from the security industry that helped the Subcommittee to develop this standard.

The IBA Biometric Standards Committee had the following members during 1987-1989:

Chairman of the IBA Standards Committee:

Rod Beatson (1987 – 1989) Edward C. Driscoll (1988 – 1989)

Contributing Members of the IBA Standards Committee:

Arlen Remnitz Conrad S. Banner Joseph Barry Robert Hammond Richard Hudak Stuart Jolly Howard Koenig Russ Maxwell Gary Poock Dennis Porter Robert M. Stock Peter Stropparo

The SIA Biometric Standards Subcommittee had the following members during 1989-1992:

Chairman of the SIA Biometric Standards Subcommittee:

Conrad Banner

Contributing Members of the SIA Standards Biometric Subcommittee:

Rod Beatson Charles Colbert Jay Cornish Anthony English Joseph P. Freeman Randall Hawks, Jr. James P. Holmes Francis E. Torpey Robert Voosen

SIA also gratefully recognizes the efforts of the SIA Biometric Standards Subcommittee members who were significant contributors to the 2000 Revision:

Chairman of the SIA Standards Committee:

ADTWilliam N. Moody

Chairman of the SIA Biometrics Standards Subcommittee:

Iriscan, Inc.Jerry Williams

Contributors to the 2000 Revisions:

PIDEAC	Charles Colbert, Phd., P	ΡE
biometric identification, Inc.	David Gittelson	

SIA Staff Administrators:

Wadei Powell L. Virginia Williams

Open industry vote, ballots cast by the following companies: (80% approval in ballots cast)

ADT	Samuel S. Wen
Advanced Technology Associates	David S. Terrett
ALOA Education	David M. Lowell
C&K Systems	Chuck Burns
Caddx Controls	Frank Clark
CHPA Consulting Engineers	Tim Tadlock
Datastrip, Inc.	Stephen M. Hunt
Dolph & Associates	Robert Dolph
Iriscan	Gerald O. Williams
J. Markowitz Consultants	Judith Markowitz
J. P. Freeman Co., Inc.	Joe Freeman
Tesa Entry Systems, Inc.	Jon Payne
Underwriters Laboratories, Inc.	Lou Chavez

REVISION HISTORY

The following are changes made to this document listed by revision.

FEBRUARY 1993 BASELINE Original Publication

JUNE 2000 REVISION

- Added several new terms and definitions to section 3.2
- Document facelift to current style/conventions of SIA Standards

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1.0 INTRODUCTION AND SCOPE

1.1 Introduction

Biometric products represent a new and emerging technology which may be unfamiliar to many people. The advent of any new technology brings with it new terms which need definition and the application of pre-existing terms in new ways which needs clarification. This standard sets forth the terms most frequently used by representatives of the biometric industry and provides their biometric-specific definitions.

This standard does not include testing methodologies and procedures. They will be the subjects of subsequent standards.

1.2 Scope

This standard establishes the terminology to be used in connection with the testing and evaluation of biometric technology products; and defines the terms to be used in connection with the testing and evaluation of biometric technology products.

The purpose of this standard is to provide a glossary of terms and definitions which are meaningful and useful to individuals and entities engaged in: (i) the solicitation, evaluation, purchase, and/or use of biometric products; (ii) the research and development, manufacture, distribution, sale, or importation of biometric products; and/or (iii) the development of specifications for, and methods of, testing and evaluating the performance characteristics and accuracy of biometric products.

This standard is applicable to all biometric technologies, including those based on fingerprints, hand geometry, eye/retina scanning, voice prints, signature/handwriting, and keystroking.

2.0 CONVENTIONS AND DEFINITIONS

2.1 Conventions

2.1.1 Terms Defined Elsewhere in This Document

Whenever a term is used in a definition and that term is also defined elsewhere in this standard, it is underlined. For example, "<u>biometric sample</u>" is defined as "A representation of a <u>biometric</u>, which can be used as input to a <u>biometric identification</u> <u>device</u>. Both "biometric" and "<u>biometric</u> <u>identification device</u>" have been underlined because they are defined somewhere else in the standard.

2.2 Definitions

aberrant data: Test data which is found to be anomalous and to have an irregular meaning in the context of that trial.

acceptance threshold score: The score on a <u>biometric</u> "match/no match" scale chosen to differentiate <u>impostors</u> from <u>authentic</u>s.