Face Recognition Vendor Test Ongoing

Still Face 1:N Identification

Application Programming Interface
VERSION 1.0

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April 1, 2019



FRVT Ongoing 1:N

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35 **1. FRVT 1:N**

36 **1.1. Scope**

- 37 This document establishes a concept of operations and an application programming interface (API) for evaluation of one-
- 38 to-many face recognition algorithms applied to faces appearing in 2D still photographs. The test will include cooperative
- 39 portrait images, e.g. mugshots¹ as well as non-cooperative images². The API communicates the type of image to the
- 40 algorithm, so that feature extraction may be tailored.

2. Rules for participation

2.1. Relation to the FRVT Ongoing 1:1 Evaluation

- 43 Since February 2017, NIST has been running an ongoing evaluation of one-to-one face verification algorithms, FRVT 1:1.
- 44 This allows any developer to submit algorithms at any time, once every few months, thereby better aligning development
- 45 and evaluation schedules. It will benefit developers to submit their core 1:1 recognition algorithms to the FRVT 1:1
- 46 process.

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- 47 **IMPORTANT:** Participation in the FRVT Ongoing 1:1 is <u>required</u> for participation in FRVT Ongoing 1:N. Participants must
- 48 meet minimum accuracy requirements in the 1:1 test in order to submit to the 1:N.

3. General FRVT Evaluation Specifications

- 50 General and common information shared between all Ongoing FRVT tracks are documented in the FRVT General
- 51 Evaluation Specifications document https://www.nist.gov/system/files/documents/2019/03/20/frvt_common_1.0.pdf.
- 52 This includes rules for participation, hardware and operating system environment, software requirements, reporting, and
- common data structures that support the APIs.

4. Core accuracy metrics

- This test will execute open-universe searches. That is, some proportion of searches will not have an enrolled mate. From the candidate lists returned by algorithms, NIST will compute and report accuracy metrics, primarily:
- 57 False negative identification rate (FNIR) the proportion of mated searches which do not yield a mate within the top 88 R ranks and at or above threshold, T.
- 59 False positive identification rate (FPIR) the proportion of non-mated searches returning any (1 or more) candidates at or above a threshold, T.
- Selectivity the number of non-mated candidates returned at or above a threshold, T. This quantity has a value
 running from 0 to L, the number of candidates requested. It may be fractional, as it is estimated as a count divided by
 the number of non-mate searches.
- These quantities are estimated from candidate lists produced by requesting the top L most similar candidates to the search. We do not intend to execute searches requesting only those candidates above a specified input threshold.
- We will report FNIR, FPIR and selectivity by sweeping the threshold over the interval [0, infinity). Error tradeoff plots (FNIR vs. FPIR, parametric on threshold) will be the primary reporting mechanism.
- We will also report FNIR by sweeping a rank R over the interval [1, L] to produce (the complement of) the cumulative match characteristic (CMC).
- We will report proportions of attempted template generations that fail to produce a viable template i.e failure to enroll rate (FTE).

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¹ The MEDS database includes sample mugshots.

² The IJB-C database includes non-cooperative, in-the-wild images.

5. Application relevance

- 73 NIST anticipates reporting FNIR in two FPIR / Selectivity regimes:
 - Investigation mode: Given candidate lists and a threshold of zero, the CMC metric is relevant to investigational
 applications where human examiners will adjudicate candidates in decreasing order of similarity. This is common in
 law enforcement "lead generation".
 - Identification mode: We will apply (high) thresholds to candidate lists and report FNIR values relevant to
 identification applications where human labor is matched to the tolerable number of false positives per unit time.
 This is used in duplicate-ID detection searches for credential issuance and, more so, in surveillance applications.
- Given that multiple algorithms may be submitted, developers are encouraged to submit variants tailored to minimize FNIR in the two FPIR regimes, and to explore the speed-accuracy trade space.

6. Limits

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6.1. Time limits

The elemental functions of the implementations shall execute under the time constraints of Table 1. These time limits apply to the function call invocations defined in section 9. Assuming the times are random variables, NIST cannot regulate the maximum value, so the time limits are median values. This means that the median of all operations should take less than the identified duration. Timing will be estimated from at least 1000 separate invocations of each elemental function. Timing will be measured on Xeon R CPU E5-2630 v4 @ 2.20GHz processors.

Table 1 – Processing time limits in seconds, per 640 x 480 color image, on a single CPU

Function	1:N
Template Generation: One image to one template	1
1:N finalization (on gallery of 1 million enrolled templates)	40000
1:N search for:	10
 N = 1 million enrolled templates 	
 L = 100 returned candidates 	

6.2. Template size limits

- 91 NIST anticipates evaluating performance with N well in excess of 107. For implementations that represent a gallery in
- 92 memory with a linear data structure, the memory of our machines implies a limit on template sizes. Thus, for a template
- 93 size B, the total memory requirement would be about NB. NIST anticipates running the largest N values on machines
- 94 equipped with 768GB of memory. With N = 25 million, templates should not exceed 32KB.
- 95 The API, however, supports multi-stage searches and read access of the disk during the 1:N search. Disk access would
- 96 likely be very slow. In all cases, algorithms shall conform to the search duration limits given in Table 1, with linear scaling.

7. Implementation Library Filename

- 98 The core library shall be named as libfrvt_1N_<*provider>*_<*sequence>*.so, with
 - provider: single word, non-infringing name of the main provider. Example: acme
 - sequence: a three digit decimal identifier to start at 000 and incremented by 1 every time a library is sent to NIST. Example: 007

Example core library names: libfrvt_1N_acme_000.so, libfrvt_1N_mycompany_006.so.

104 Important: Public results will be attributed with the provider name and the 3-digit sequence number in the submitted

105 library name.

8. Data structures supporting the API

107 The general data structures supporting this API are documented in the FRVT - General Evaluation Specifications document

available at https://www.nist.gov/system/files/documents/2019/03/20/frvt common 1.0.pdf. The data structures

109 specific to this particular test are described within this document. The header files are published at

110 https://github.com/usnistgov/frvt.

8.1. File structure for enrolled template collection

112 To support this 1:N test, NIST will concatenate enrollment templates into a single large file, the EDB (for enrollment

database). The EDB is a simple binary concatenation of proprietary templates. There is no header. There are no

delimiters. The EDB may be many gigabytes in length.

115 This file will be accompanied by a manifest; this is an ASCII text file documenting the contents of the EDB. The manifest

has the format shown as an example in Table 2. If the EDB contains N templates, the manifest will contain N lines. The

fields are space (ASCII decimal 32) delimited. There are three fields. Strictly speaking, the third column is redundant.

Important: If a call to the template generation function fails, or does not return a template, NIST will include the Template ID in the manifest with size 0. Implementations must handle this appropriately.

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Table 2 - Enrollment dataset template manifest

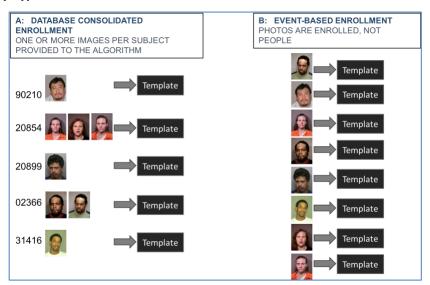
Field name	Template ID	Template Length	Position of first byte in EDB
Datatype required	std::string	uint64_t	uint64_t
Example lines of a manifest file appear	90201744	1024	0
to the right. Lines 1, 2, 3 and N appear.	person01	1536	1024
	7456433	512	2560
	subject12	1024	307200000

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The EDB scheme avoids the file system overhead associated with storing millions of small individual files.

8.1.1. Gallery Type



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Figure 1 – Illustration of consolidated versus unconsolidated enrollment database³

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³ The face images contained in this figure are from the publicly available Special Database 32 - Multiple Encounter Dataset (MEDS). https://www.nist.gov/itl/iad/image-group/special-database-32-multiple-encounter-dataset-meds

126 Figure 1 illustrates two types of galleries:

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- Consolidated: The database is formed by enrolling all images of a subject under a common identity label. The result is a gallery with N identities and N templates. This type of gallery presents us with the cleanest experimental design, "one needle in a haystack" scenario. It allows algorithms to perform image and feature level fusion. Operationally it requires high integrity biographical information to maintain.
- Unconsolidated: The database is formed by enrolling photographs without regard to whether the subject already has
 already been enrolled or not. Under this scheme, different images of the same person can exist in the gallery under
 different subject identifiers, that is, there are N identities, and M > N database entries.

During gallery finalization, algorithms will be provided with an enumerated label from Table 3 which specifies the type of gallery being processed.

Table 3 – Labels describing gallery composition

Label as C++ enumeration	Meaning
enum class GalleryType {	
Consolidated,	Consolidated, subject-based enrollment
Unconsolidated	Unconsolidated, event-based or photo-based enrollment
};	

8.1.2. Data structure for result of an identification search

All identification searches shall return a candidate list of a NIST-specified length. The list shall be sorted with the most similar matching entries list first with lowest rank. The data structure shall be that of Table 4.

Table 4 – Structure for a candidate

	C++ code fragment	Remarks
1.	typedef struct Candidate	
2.	{	
3.	bool isAssigned;	If the candidate computation succeeded, this value is set to true. False otherwise.
		If value is set to false, similarityScore and templateld will be ignored entirely.
4.	std::string templateId;	The Template ID from the enrollment database manifest defined in clause 8.1.
5.	double similarityScore;	Measure of similarity between the identification template and the enrolled candidate.
		Higher scores mean more likelihood that the samples are of the same person.
		An algorithm is free to assign any value [0, DBL_MAX] to a candidate. The distribution of
		values will have an impact on the false-negative and false-positive identification rates.
6.	} Candidate;	

9. API specification

FRVT 1:N participants shall implement the relevant C++ prototyped interfaces of section 9. C++ was chosen in order to make use of some object-oriented features.

Please note that included with the FRVT 1:N validation package (available at https://github.com/usnistgov/frvt) is a "null" implementation of this API. The null implementation has no real functionality but demonstrates mechanically how one could go about implementing this API.

9.1. Header File

The prototypes from this document will be written to a file named **frvt1N.h** and will be available to implementers at https://github.com/usnistgov/frvt.

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152 **9.2.** Namespace

- All supporting data structures will be declared in the FRVT namespace. All API interfaces/function calls for this track will
- be declared in the FRVT 1N namespace.

155 **9.3. Overview**

- 156 The 1:N identification application proceeds in three phases: enrollment, finalization and identification. The identification
- 157 phase includes separate probe feature extraction and search stages.
- 158 The design reflects the following *testing* objectives for 1:N implementations.
 - support distributed enrollment on multiple machines, with multiple processes running in parallel
 - allow recovery after a fatal exception, and measure the number of occurrences
 - allow NIST to copy enrollment data onto many machines to support parallel testing
 - respect the black-box nature of biometric templates
 - extend complete freedom to the provider to use arbitrary algorithms
 - support measurement of duration of core function calls
 - support measurement of template size
 - support measurement of template insertion and removal times into an enrollment database

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Table 5 - Procedural overview of the 1:N test

Phase	#	Name	Description	Performance Metrics to be reported by NIST
Enrollment	E1	Initialization	initializeTemplateCreation(TemplateRole=Enrollment_1N) Give the implementation the name of a directory where any provider-supplied configuration data will have been placed by NIST. This location will otherwise be empty. The implementation is permitted read-only access to the configuration directory.	
	E2	Parallel Enrollment	createTemplate(TemplateRole=Enrollment_1N) For each of N individuals, pass K >= 1 images of the individual to the implementation for conversion to a template. The implementation will return a template to the calling application. NIST's calling application will be responsible for storing all templates as binary files. These will not be available to the implementation during this enrollment phase. Multiple instances of the calling application may run simultaneously or sequentially. These may be executing on different computers.	Statistics of the times needed to enroll an individual. Statistics of the sizes of created templates. The incidence of failed template creations.
Gallery Finalization	F1	Finalization	finalizeEnrollment() Permanently finalize the enrollment directory. This supports, for example, adaptation of the image-processing functions, adaptation of the representation, writing of a manifest, indexing, and computation of statistical information over the enrollment dataset. The implementation is permitted read-write-delete access to the enrollment directory and read-only access to the configuration directory during this phase. Note: finalizeEnrollment() will be called in a separate process than the enrollment functions.	Size of the enrollment database as a function of population size N. Duration of this operation. The time needed to execute this function shall be reported with the preceding enrollment times.
Probe	S1	Initialization	initializeTemplateCreation(TemplateRole=Search_1N) Give the implementation the name of a directory where any provider-supplied configuration data will have been placed by NIST. This location will otherwise be empty. The implementation is permitted read-only access to the configuration directory.	Statistics of the time needed for this operation.

	S2	Template	createTemplate(TemplateRole=Search_1N)	Statistics of the time
		preparation	For each probe, create a template from K >= 1 images.	needed for this operation.
			The result of this step is a search template.	Statistics of the size of
			Multiple instances of the calling application may run simultaneously or sequentially. These may be executing on different computers.	the search template.
Search	\$3	Initialization	initializeIdentification() Tell the implementation the location of an enrollment directory that contains the gallery files produced from the finalize() function. The enrollment directory will always contain a successfully finalized gallery (i.e. will never be empty). The implementation should read all or some of the enrolled data into main memory, so that searches can commence. The implementation is permitted read-only access to the enrollment directory during this phase. Note: The search functions (initializeIdentification(), identifyTemplate()) will be called in a separate process from the enrollment functions, therefore, you cannot assume that	Statistics of the time needed for this operation.
			initializeTemplateCreation() is called by the test harness prior to the search functions.	
	S4	Search	identifyTemplate() A template is searched against the enrollment database. Developers shall not attempt to improve the duration of the identifyTemplate() function by offloading any of its processing into the createTemplate() function.	Statistics of the time needed for this operation. Accuracy metrics - Type I + II error rates. Failure rates.
sert	G1	Initialization	initializeIdentification() Tell the implementation the location of an enrollment directory. The implementation should read all or some of the enrolled data into main memory, so that searches can commence. The implementation is permitted read-only access to the enrollment directory during this phase.	Statistics of the duration of the operation.
Gallery Insert	G2	Template insertion into gallery	galleryInsertID() galleryInsertID() is executed one or more times to insert a template created with createTemplate(TemplateRole=Enrollment_1N) into the gallery.	Statistics of the duration of the operation.
	G3	Search	identifyTemplate() A template is searched against the enrollment database.	Statistics of the duration of the operation. Accuracy metrics - Type I + II error rates.

9.4. API

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161 **9.4.1.** Interface

The software under test must implement the interface Interface by subclassing this class and implementing each method specified therein.

	C++ code fragment	Remarks
1.	Class Interface	
2.	{	
	public:	

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```
3. static std::shared_ptr<Interface> getImplementation();
Factory method to return a managed pointer to the Interface object. This function is implemented by the submitted library and must return a managed pointer to the Interface object.

4. // Other functions to implement

5. };
```

There is one class (static) method declared in Interface. getImplementation() which must also be implemented. This method returns a shared pointer to the object of the interface type, an instantiation of the implementation class. A typical implementation of this method is also shown below as an example.

```
C++code fragment
#include "frvtlN.h"

using namespace FRVT_1N;

NullImpl:: NullImpl () { }

NullImpl::~ NullImpl () { }

std::shared_ptr<Interface>
Interface::getImplementation() {
    return std::make_shared<NullImpl>();
}
// Other implemented functions
```

9.4.2. Initialization of template creation

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Before any feature extraction/template creation calls are made, the NIST test harness will call the initialization function of Table 6. This function will be called BEFORE any calls to fork() are made.

Table 6 – Template creation initialization

Prototype	ReturnStatus initializeTempl	lateCreation(
	const std::string &configDir,		Input
	TemplateRole role);		Input
Description	This function initializes the implementation under test and sets all needed parameters in preparation for te creation. This function will be called N=1 times by the NIST application, prior to parallelizing M >= 1 calls to createTemplate() via fork(). This function will be called from a single process/thread.		
Input Parameters	configDir	A read-only directory containing any developer-supplied configuration parameters or run-time data files.	
	role		cole enumeration that indicates the intended usage of the in this case, either Enrollment_1N or Search_1N.
Output Parameters	None		
Return Value	See General Evaluation Specifications document for all valid return code values.		

171 **9.4.3.** Template Creation

172 A Multiface is converted to a single template using the function of Table 7.

Table 7 – Template Creation/Feature Extraction

Prototypes	ReturnStatus createTemplate(
	const Multiface &faces,	Input
	TemplateRole role,	Input
	std::vector <uint8_t> &templ,</uint8_t>	Output

	std::vector <eyepa< th=""><th>ir> &eyeCoordinates);</th><th>Output</th></eyepa<>	ir> &eyeCoordinates);	Output			
Description	Takes a Multiface and outputs a proprietary template and associated eye coordinates. The vector to store the template will be initially empty, and it is up to the implementation to populate it with the appropriate data.					
	Note: In the event that more than one face is detected in an image, features should be extracted from the foreground face, that is, the largest face in the image.					
	For enrollment templates (TemplateRole=Enrollment_1N): If the function executes correctly (i.e. returns a successful return code), the template will be enrolled into a gallery. The NIST calling application may store the resulting template, concatenate many templates, and pass the result to the enrollment finalization function (see section 9.4.4). The resulting template may also be inserted immediately into previously finalized gallery. When the implementation fails to produce a template (i.e. returns a non-successful return code), it shall still return a blank template (which can be zero bytes in length). The template will be included in the enrollment database/manifest like all other enrollment templates, but is not expected to contain any feature information.					
	IMPORTANT: NIST's application writes the template to disk. Any data needed during subsequent searches should be included in the template, or created from the templates during the enrollment finalization function of section 9.4.4.					
	For identification/probe templates (TemplateRole=Search_1N): The NIST calling application may commit to permanent storage, or may keep it only in memory (the developer implementation does not need to k function returns a non-successful return status, the output template will not be used in subsequent search.					
Input	face	Input Multiface				
Parameters	role	Label describing the type/role Enrollment_1N or Search_1N.	of the template to be generated. In this case, it will either be			
Output Parameters	templ		mat is entirely unregulated. This will be an empty vector when the implementation can resize and populate it with the appropriate			
	eyeCoordinates The function shall return the estimated eye centers for the input face image.					
Return Value	e See General Evaluation Specifications document for all valid return code values.					

9.4.4. Finalization

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- After all templates have been created, the function of Table 8 will be called. This freezes the enrollment data. After this call the enrollment dataset will be forever read-only.
- The function allows the implementation to conduct, for example, statistical processing of the feature data, indexing and data re-organization. The function may alter the file structure. It may increase or decrease the size of the stored data.
- No output is expected from this function, except a return code.
 - Implementations shall not move the input data. Implementations shall not point to the input data. Implementations should not assume the input data will be readable after the call. Implementations must, at a minimum, copy the input data or otherwise extract what is needed for search.

Table 8 – Enrollment finalization

Prototypes ReturnStatus finalizeEnrollment(
	const std::string &configDir,	Input	
	const std::string &enrollmentDir,	Input	
	const std::string &edbName,	Input	
	const std::string &edbManifestName,	Input	
	GalleryType galleryType);	Input	
Description	This function takes the name of the top-level directory where the enrollment database (EDB) and its manifest have		
	been stored. These are described in section 8.1. The enrollment directory permissions will be read + write.		
	The function supports post-enrollment, developer-optional, book-keeping operations, statistical processing and data re-ordering for fast in-memory searching. The function will generally be called in a separate process after all the enrollment processes are complete.		
	This function should be tolerant of being called nothing.	two or more times. Second and third invocations should probably do	

	This function will be called from a single process/thread.		
Input Parameters	configDir	A read-only directory containing any developer-supplied configuration parameters or run-time data files.	
	enrollmentDir	The top-level directory in which enrollment data was placed. This variable allows an implementation to locate any private initialization data it elected to place in the directory.	
	edbName	The name of a single file containing concatenated templates, i.e. the EDB of section 8.1. While the file will have read-write-delete permission, the implementation should only alter the file if it preserves the necessary content, in other files for example. The file may be opened directly. It is not necessary to prepend a directory name. This is a NIST-provided input – implementers shall not internally hard-code or assume any values.	
	edbManifestName	The name of a single file containing the EDB manifest of section 8.1. The file may be opened directly. It is not necessary to prepend a directory name. This is a NIST-provided input – implementers shall not internally hard-code or assume any values.	
	galleryType	A label from Table 3 specifying the composition of the gallery.	
Output Parameters	None		
Return Value	See General Evaluation Specifications document for all valid return code values.		

9.4.5. Search Initialization

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The function of Table 9 will be called once prior to one or more calls of the searching function of Table 10 and the gallery insert and delete functions of Section 9.4.7. The function might set static internal variables so that the enrollment database is available to the subsequent identification searches. This function will be called BEFORE any calls to fork() are made.

189 Table 9 – Identification initialization

Prototype	ReturnStatus initializeIdentification(
	const string &configDir,		Input	
	const string &enrollment	:Dir);	Input	
Description	This function reads whatever content is present in the enrollmentDir, for example a manifest placed there by the finalizeEnrollment() function. This function will be called from a single process/thread.			
Input Parameters	configDir	A read-only directory containing any developer-supplied configuration parameters or run-time data files.		
	enrollmentDir	The read-only top-level directory in which enrollment data was placed. This directory will contain the gallery files produced from the finalize() function. The enrollment directory will always contain a successfully finalized gallery (i.e. will never be empty).		
Return Value	See General Evaluation Specifications document for all valid return code values.			

9.4.6. Search

The function of Table 10 compares a proprietary identification template against the enrollment data and returns a candidate list.

193 Table 10 – Identification search

Prototype	ReturnStatus identifyTemplate (
	const std::vector <uint8_t> &idTemplate,</uint8_t>		Input
	const uint32_t candidateListLength,		Input
	std::vector <candidate> &candidateList,</candidate>		Output
	bool &decision);		Output
Description	This function searches a template against the enrollment set, and outputs a list of candidates. The candidateList vector will initially be empty, and the implementation shall populate the vector with candidateListLength entries.		
Input Parameters	idTemplate	A template from createTemplate(TemplateRole=Search_1N) - If the value returned	

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		by that function was non-zero the contents of idTemplate will not be used and this function (i.e. identifyTemplate) will not be called.	
	candidateListLength	The number of candidates the search should return	
Output	put candidateList A vector containing "candidateListLength " objects of candidate		
Parameters		defined in section 8.1.1. Each candidate shall be populated by the implementation. The candidates shall appear in descending order of similarity score - i.e. most similar entries appear first.	
	decision	A best guess at whether there is a mate within the enrollment database. If there was a mate found, this value should be set to true, Otherwise, false. Many such decisions allow a single point to be plotted alongside a DET.	
Return Value	See General Evaluation Specifications document for all valid return code values.		

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NOTE: Ordinarily the calling application will set the input candidate list length to operationally typical values, say $0 \le L \le 200$, and L << N. We will measure the dependence of search duration on L.

9.4.7. Gallery insertion of templates

The functions of this section insert a new template into a finalized gallery.

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Table 11 – Insertion of template into a gallery

		•	5 ,
Prototype	ReturnStatus galleryInsertID(const std::vector <uint8_t> &templ,</uint8_t>		
			Input
	const std::string &id);		Input
Description	This function inserts a template with an associated id into an existing finalized gallery. Invocation of this function will always be preceded by a call to initializeddentification(), which will provide the location of the finalized gallery to be loaded into memory. One or more calls to identifyTemplate() may be made after calling this function. The template ID will not exist in the database already, so a 1:N duplicate search is not necessary. This function will be called from a single process/thread.		
Input Parameters	templ	A template created via createTemplate(TemplateRole=Enrollment_1N)	
	id	An identifier associated v	with the enrollment template
Return Value	See General Evaluation Specifications document for all valid return code values.		

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