

Volume 1

GPR Design Final Report

Introduction and Summary

PREPARED FOR

The General Organization for Export and
Import Control, The Ministry of Economy and
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SUBMITTED TO

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Glossary

ASP	Active Server Pages
CE	Communaute Europeane, a safety mark for electronic equipment in the EC
DEPRA	Development Economic Policy Reform Analysis—a USAID-funded technical assistance project, for which Nathan Associates in the prime contractor.
DT-II	Development Training–II; a USAID-funded training project in Egypt
GOE	Government of Egypt
GOEIC	General Organization for Export and Import Control
GPR	GOEIC Product Registry
FTS	Foreign Trade Sector
IIS	Internet Information Server (webserver software from Microsoft)
LAN	Local Area Network
MEFT	Ministry of Economy and Foreign Trade
MS	Microsoft
IT	Information Technology
TA	Technical Assistance
USAID	United States Agency for International Development
UL	Underwriters Laboratory, a safety mark.
VI	Visual InterDev, a Microsoft programming tool for building a web site
HTML	Hypertext Markup Language
SQL	Standard Query Language
WAN	Wide Area Network

Preface

The GPR Design Final Report is the full set of printed documents supporting the GOEIC Product Register. These documents are arranged in the following six volumes:

- Volume 1. Introduction and Summary
- Volume 2. GPR Database Developer and Installation Guide
- Volume 3. GPR Database Appendixes
- Volume 4. GPR Web Site User's Manual
- Volume 5. GPR Web Site Installation Guide
- Volume 6. GPR Administration and Control Program

Further guidance on the contents of these volumes and on how these files are stored on the companion CD-ROM is at the end of this volume.

Many people have been important in developing the GOEIC product register programs and advocating the adoption of product register system for the good of Egypt. At the highest level, these include the Minister of Economy, H.E. Youssef Boutros Ghali, and the Director of GOEIC, Chairman Fakhr Abu El-Ezz. Many others within GOEIC contributed significantly. This study cannot name them all, but the DEPRA project and the DEPRA GPR development team appreciate and wish to thank them all.

We also wish to acknowledge the following persons most directly associated with the design and development of the programs:

- Mr. Paul Rezucha, the principal developer of the Web Page programs;
- Mr. Sherif F. Elantil, responsible for developing the database component and the program for administration and control;
- Ms. Michelle Morgan, team leader for the GPR project and an early proponent of the product register concept;
- Dr. Ahmed Mahrous Moharram, who helped explain and document the product sampling and testing process so that programmers would be able to write appropriate software;
- Mr. Abdel Wahab Heikal, the DEPRA project's senior Egyptian adviser who helped the team construct and carry out interviews and participated in many meetings to advance equipment specifications and tender evaluations;
- Dr. Hafiz Shaltout, USAID's Cognizant Technical Officer (CTO) for DEPRA, along with Mr. Heikal, provided encouragement and liaison assistance to all parties (GOEIC, DEPRA, and USAID) throughout the project, including assisting GOEIC with efforts to obtain GOE budgetary approvals; and

- Mr. Ashraf Ahmed El-Sandili and Ms. Amel Amin, who assisted with testing and documentation and assisted the committee evaluating the hardware tenders.

The development team also wishes to acknowledge Mr. Hussien Sabry, the GOEIC IT manager; Mr. Hany Samir and others of the GOEIC Airport office; and Mr. Khaled Ibrahim of FTS.

Finally, this work could not have done with the financial assistance and encouragement provided by the Cairo Mission of the United States Agency for International Development.

Introduction

BACKGROUND

In 1998, senior officials in the General Organization of Exports and Import Control (GOEIC) and the Foreign Trade Sector commissioned the DEPRA project to design a computer program that would help with the process of product inspections. Faced with an increased volume and variety of imports, both government officials and private sector importers were interested in minimizing delays due to inspection and testing without sacrificing health and safety standards. Government officials were interested in a means of reducing the number of inspections, especially for materials or products that had previously been imported, inspected and passed. The DEPRA project was asked to design a register that would enable GOEIC to track imported shipments with notations as to the product, importer, origin and the result of the inspection test. The conceptual goal was to devise a system to document good performance, reduce inspection requirements and expedite clearance for future imports of those products and importers that establish a suitable record of passing inspections.

PURPOSE

The GOEIC product register (GPR) system is designed to speed up product inspection and reduce the direct and indirect costs of inspection. It is a system for waiving inspection for products that are repeatedly imported and have a successful history of passing inspection. To establish a usable, reliable history of inspection results for each product, it was necessary to devise a system for GOEIC personnel at any port of entry to *register* each product consignment and *record* the eventual test results for that product. Many products are imported repeatedly and under the traditional system repeatedly tested. These repeats can be identified by product codes, manufacturer, origin, vendor, and importer. The product register enables GOEIC to store the results of its own testing and benefit from those stored results. With a reliable, accessible database of earlier test results, it will be possible to test a product the first few times it passes through an Egyptian port and store the results in a register that records the company, product, and test results. As subsequent shipments of the same product arrive, GOEIC officers can use expedited measures (e.g., sight checks or spot checks) for products that have a record of passed inspections.

The value of such a system to the general economy of Egypt is both obvious and significant. Speedier processing of imported products will tend to lower the cost of imports while facilitating an increase in their volume without adding to government costs or sacrificing health or safety. Lower costs and an increased volume will benefit Egyptian consumers, and probably add to government revenues. Lower cost imports will also facilitate more competitive local industry including increased exports, creating much-needed jobs. Although no detailed study was made of the economic impact of a GPR and waiver system, most economists would agree that a reduction of even one day in average

time required for inspection would yield benefits to the Egyptian economy in excess of millions of dollars annually.

Development History

INITIAL EFFORTS

For a major part of 1998 and 1999, the team of DEPRA project experts worked closely with Egyptian counterparts from GOEIC on development of the product register. Ports were visited, and the procedures studied to define the recording, testing, and decision-making processes. The initial programming was done and the concept of using a Web Site and the Egyptian Internet for communication was approved. DEPRA experts also assisted GOEIC and GOE officials with the specifications for a tender to supply the needed computer hardware, and assisted with evaluation of the tenders submitted.

DEMONSTRATION OF GPR PROGRAM

One November 29, 1999, at the request of GOEIC officials, DEPRA personnel demonstrated a prototype GPR software program before an that included two GOEIC representatives from each port of entry. The demonstration was successful and the reception very positive. Senior GOEIC officials stated that the system is consistent with and meets their basic requirements. Plans were made for further developing the program, and for finalizing the procurement of the hardware. GOEIC proceeded with steps to establish legal authority for keeping and using the product register to expedite or waive inspections. GOEIC officials also asked for a number of modifications and improvements to the GPR program that would expand its utility as a tool for record keeping and communication among GOEIC offices.

LEGAL AUTHORITY

On December 12, 1999, the Minister of Economy bestowed legal authority on the concept of a product register by *MEFT Ministerial Decree No501/1999* which ordered the product register system to be implemented manually, in advance of the procurement and installation of a computerized tracking system.

RECENT DEVELOPMENTS

As the DEPRA project drew to a close in October of 2000, it was clear that the GPR hardware being procured would not arrive in time for the DEPRA project to complete the next steps. The plan had been to continue with program development after installing the programs on the actual computers where they are intended to reside. Once it became clear that the DEPRA project would end before the computers arrived, it was necessary to halt further development of the programs and complete all documentation.

CURRENT STATUS

Software

The software programs to create the needed database and Web Site had been developed, demonstrated and tested as far as practical, prior to installation and actual field testing on the computers to be installed in GOEIC branch offices. Any complicated software program design must go through six basic phases:

- 1) Analysis, design and development (done by the design team)
- 2) Code testing and debugging (done by the design team)
- 3) Deployment (by the design team and GOEIC working together)
- 4) Functional testing with live data (still to be done by team and GOEIC users)
- 5) Customization, modification and bug fixes (still to be done by the design team after the testing)
- 6) Acceptance testing and sign off (still to be done by GOEIC)

The program cannot be considered ready for use until all six of these steps are completed. In the case of the GPR programs, the first two steps have been completed, and the DEpra project is providing the equivalent or semi-developed or “beta” version of the programs to GOEIC with sufficient documentation to proceed with the additional steps as soon as practical.

To proceed with program development, GOEIC should arrange to employ or contract software developers with proficiency in both the database programming using Microsoft SQL server and the web site development programming using Visual Interdev, ASP, HTML, JavaScript, VBScript, remote scripting, *and* SQL.

Hardware

The main items of hardware needed are computers (approximately 157 work stations and 2 powerful servers) and telecommunications—leased lines and a frame relay to support the Wide Area Network (WAN)- Computers & Telecom. The initial cost of the computer hardware plus the start up fees and one year’s annual subscription for leased lines or frame relay connections is to be financed with counterpart funds under an agreement with the Government of Italy. The tender for the computers and peripheral items was re-issued in late 1999. An award was made in June of 2000. As of October, 2000, the expected arrival date of the computer equipment is uncertain, as is the status of the application for either leased lines (telephone) or a frame relay for the WAN.

Training

A training plan has been developed and presented to the USAID-funded DT-II project as well as to GOEIC and FTS. The plan includes recommendations for an initial “train the trainer” phase aimed at training 8-10 GOEIC personnel who will learn how to use the product register and how to train others. This cohort of trainers will then undertake to train more than 150 to 200 GOEIC personnel from field offices and testing laboratories who will become the ultimate users and operators of the GPR system. The training plan is planned to begin after the procurement is completed.

This GPR Report

This report in six volumes and the companion CD-ROM contain the essential documentation and program files needed to install and operate the GOEIC Product Register—the Database, Web Site, and the Administration and Control Program.

The documentation also contains guides and notes for the Database and Website administrators and for future developers who will undertake the installation, testing, and the next stages of development. These manuals, in particular the GPR Web Site User Manual, also represent the training manual for GOEIC staff in field offices and labs who will be using the GPR.

NEXT STEPS

The Chairman of GOEIC, Fakhr Abu El Ezz has called the GPR “A major step forward toward establishing a modern product inspection process.” Additional work is needed to continue the process and realize the value of investments made to date. The DEPRA project offers the following recommendations regarding the next steps to be taken in this process of implementing the GPR.

1. Complete the procurement and acquisition of the hardware
2. Arrange for leased lines or the frame relay connections
3. Continue the manual version of the product register and carry out an evaluation, recording the experience of GOEIC field staff, lab staff, and importers. This evaluation will result in recommendations for improving the automated version.
4. Install the current versions of the GPR software programs on the procured servers. Test, debug, and finalize the current versions before attempting improvements and modifications. Installation is a complex task. The Product Register database program itself operates correctly only with the proper configuration of the network software (Microsoft NT, IIS, and SQL 6.5). All of these have to be installed and configured correctly with all service packs for the whole system to function. The documentation in this report contains step-by-step instructions to guide installation; however only skilled, experienced personnel should do the installation.
5. Establish the GOEIC Information Technology (IT) unit that will be responsible for maintaining the GPR software. Train and develop the skills and experience of this staff.
6. Proceed with the training of the GOEIC field staff and lab staff that will be the end users of the GPR system, as planned for using the DT-II program.
7. Use the GPR as a basis for adding new features and tools that several GOEIC staffs have already identified as ways to streamline inspections and improve productivity.

Training

Training and trained staff are essential to the installation and implementation of the GPR. The same holds true for operating and maintaining the system and doubly true for improving and expanding it.

The GPR is a robust but sophisticated technology that accelerates the need for the GOE to develop programs and incentives to attract, develop, and retain persons skilled in information technology.

Training of the key staff for the GOEIC IT unit is most important. At least six skilled programmers and IT hardware experts should be singled out for special training: two in the database development programs (SQL Server), two Website Development Programs (Visual Interdev, and HTML) and two in network management software (Windows NT, IIS). Only the few key developers in GOEIC will need to learn these programs. These few will be the same ones to make use of most of the developer and installation guides in this report.

Most GOEIC personnel will be workstation users of the GPR. They will not need to learn about installation or maintenance. They will need introductory training in computers. Many have never used one. They will need to learn how to "logon" to the GPR Intranet and how to use the keyboard and mouse to enter data and move from screen to screen. Then they will be ready for training in the GRP Web Site, for which the User's manual in this report is also the appropriate training manual.

Future Improvements to the GPR

Translation

Several important improvements to the GPR have already been suggested. The first, most obvious one is to translate all text on the user screens into Arabic. The operating system and application software used in the Product Register fully supports programs in Arabic as well as in English. No translation needs to be done nor should be done on operating systems. Regarding the Product Register program itself, Egyptian, as well as foreign experts recommend that translation of the web pages (user screens) into Arabic be undertaken only after the current program is installed, tested, fully operational and all amendments (modifications) have been made and finalized. The task of translating the pages and text that users will see on the computer screen requires opening each of the web pages created in English and changing the English words and texts into Arabic. This is not a difficult process for a person skilled in Visual Interdev and HTML, and it is a problem that many Egyptian IT firms and individuals are skilled at solving.

Other Improvements and Future Benefits

The GPR represents a tool that GOEIC can use to standardize and improve its handling of testing and to enable it to concentrate on testing where and when the Egyptian consumer most needs it. Already several GOEIC senior staff have pointed out that the GPR will facilitate GOEIC's monitoring of products bearing international safety marks (UL, CE, etc.), tracking the performance of international inspection companies that carry out pre-shipment inspection. The system is currently capable of tracking inspection results for exports as well as imports, thereby streamlining their inspection and processing of exports.

The GPR network of computers in each port linked to a central database also provides a platform for addressing the delays resulting from many other inspections that delay or hinder imports and exports (e.g. tests by the Ministries of Health, Agriculture, Veterinary Services, etc.) Currently the results of all these tests are manually delivered to GOEIC as the end party responsible for authorizing

Customs to release consignments. Replacing hand carried and delivered results with electronic transmission would contribute considerably to reducing administrative delays.

Overview of GOEIC Product Register (GPR) Design

The GOEIC Product Register (GPR) is a set of computer workstations linked together into a network with a central server and database that contains all of the information entered by GOEIC branches and laboratories located in the various ports of entry (land, sea, and air) around Egypt. Each user of the system enters and accesses data through the a central GOEIC web site, using interactive web pages that can send information to and retrieve information from the database. GOEIC branch users and lab users access different areas of the web site specially designed for the tasks they perform. Implementing the GPR will require one hundred sixty (160) computers, software, WAN servers, reaching GOEIC offices in over 20 port locations as well as GOEIC testing laboratories. Each workstation will be operated by a trained user/operator. The system also requires a central control office with a web server and database server staffed and maintained by IT and database professionals, and a senior office to oversee the administrative actions of issuing waivers. GOEIC as an agency will be able to register each industrial product, carry data on laboratory test results, and waive further tests during a significant amount of time thereafter.

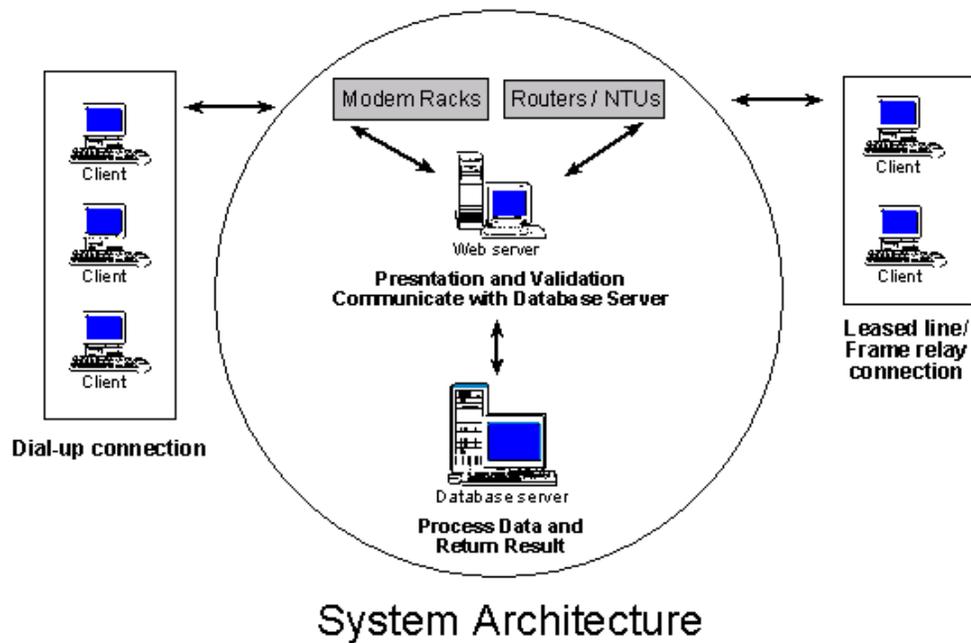
COMMUNICATIONS SYSTEM ARCHITECTURE

The GOEIC Product Register is also a communication system, an Intranet that utilizes Internet technology, within pre-defined and secure network nodes. The central node is GOEIC head office that will host the Web and database servers, network components, and the Product Register management and administration computers. GOEIC remote branches will connect to the head office via leased lines/frame relay or dial-up connections, which will form a VPN (virtual private network) that is secure and only accessible through the pre-defined network nodes (branches and labs). The system is founded on a multi-tier development approach, in which every functional component of the system is partitioned into distinct services running on different servers.

This approach offers many advantages. First it permits access to the system by different clients using any type of existing hardware with minimal modification (any PC with Internet browser and minimum hardware). Second, developers can modify the internal structure of a particular service does not require rebuilding the whole system or any other service. Third, computers can be changed, swapped, and maintained without disrupting system functionality. Fourth, only a few highly trained specialized personnel are needed to maintain and service the system.

The system services are partitioned as follows:

- Presentation services (user interface): Processed on the client machine (web browser)
- Business services (actual data transfer functions): Processed on the web server
- Data Manipulation services (searches, queries, and storage): Processed on the database server



GPR SYSTEM COMPONENTS

Early in the GPR project, the DEPRA/GRP team worked extensively on designing and configuring a workable system and detailing the specifications that would be needed to issue procurement tenders. Those specifications and other tender information are not included in this report. The following is a brief overview of the technical specifications of major items of the GPR system.

Hardware

Client PCs – approximately 157 located in GOEIC branches, labs, and administrative offices.

Web Server – one -- located in GPR headquarters

Database Server – one -- located in GPR headquarters

Communication

Medium: Intranet

Physical: Analog (Dial-up) or Digital (Leased lines / Frame relay)

Protocol: PPP/PPTP, TCP/IP

Software

Presentation: Client computers running Microsoft IE 4 web browser or later.

Web Server running Microsoft IIS 4 or later.

Database Server running Microsoft SQL server 6.5 or later.

Programs

GPR Web Site program

GOEIC branches access Web Site and use web pages to enter data and ask for information (data entry and query functionality)

GOEIC labs enter data on test results and ask for information.

GPR Database program

Stores data entered by GOEIC branches and labs in formats that facilitate examination of past results of inspections for product consignments.

GPR Administration and Control Program

Controls Product qualification

Controls Product registration

Administration Software Tools

SQL Server 6.5 Enterprise Manager

Internet Information Service Manager 4.0

Development Software Tools

MS Visual InterDev 6.0: VBScript and JavaScript within ASP framework

MS SQL Server 6.5: Transact-SQL

MS Visual Basic 6.0

FIELD PERSPECTIVE ON FEATURES AND FUNCTIONS

One of the main design purposes of the GPR was to assist GOEIC staff in the field with the task of recording various details and results of the consignments sampling and inspection process. In the initial phases of the project, the DEPRA team visited more than 20 GOEIC offices to interview staff and learn the steps followed in processing consignments. One result of those visits was a clearer picture of the main steps followed in the processing a simple consignment for inspection:

Consignment Inspection Cycle

1. Receive consignment (* External activity)
2. Enter/Modify consignment header information
3. Enter/Modify consignment product details
4. Check Inspection requirements
5. Release products that do not require inspection
6. Print Inspection requirements and sample Identifications (IDs) of products that require inspection
7. Take samples for the products that require inspection (*External activity)
8. Send samples to Labs for testing (*External activity)
9. Enter temporary release information (Optional)
10. Enter sample IDs for samples sent to Labs

11. Check lab results
12. Take other samples and process previous 2 steps (Optional)
13. Release consignment / product if Lab results are positive
14. Reject consignment / product if Lab results are negative

** External activities are all activities done outside the system such as the physical activity of taking and sending a product sample.*

Each step in this cycle that involves checking printed information, completing a form, creating an ID, or transmitting a result could be simplified or speeded up with the help of a computer and better telecommunications. Central to the advantages of automation however, is the critical concept of maintaining a product register.

REGISTER CONCEPT

The product register itself is a centralized database for storing, processing and reporting import and export consignment records entered by GOEIC staff from multiple GOEIC branches. Each consignment record is composed of the following:

- One header record that stores information related to the whole consignment.
- Multiple detail records that store information related to each (product) item within the consignment.

Most of the functions of the product register are accessed through the header or the detail records of a consignment. Users can add and modify data, query data on previously registered imports and exports, record the status of and release consignments.

The operations that can be performed in the system are categorized as follows:

1. Add data:
 - consignment and product details
2. Modify data:
 - consignment and product details
 - consignment and product status
3. Query data:
 - product inspection requirements
 - consignment and product status
 - inspection results
4. Communicate
 - Send products for testing
 - Notify administrator

5. Update product register
 - Qualify products
 - Register products

MEFT Ministerial Decree No501/1999, issued on December 12, 1999, recognized the benefits of creating and using product register and ordered implementation of a manually kept product register in advance of the procurement and installation of a computerized tracking system. The system of computers and Internet communications will both simplify the problems of maintaining the register and multiply its advantages. Every port in Egypt will be able to add to the database and extract information from the database. Importers whose consignments pass inspections in one port will enjoy the benefits of that record whenever they import the same product through another port of entry. On the other hand, importers or products that fail inspection coming through one port will not be able to “try again” by simply going to another port that has not yet rejected their consignment. The GPR will enable information to be transmitted to all users in the GOEIC net from day to day.

Guide to Documentation

This section is a list of the contents of all six volumes of the GPR Design Final Report, along with brief descriptions of the purpose and intended use of the contents in each of the main volumes and chapters.

Volume 1. Introduction and Summary

- Executive Summary
- Overview of GPR Design
- Guide to Documentation
- Guide to Contents of GPR CD-ROM

This volume is the summary that presents a brief history of the GPR Design project, gives a non-technical overview of the GPR system, recommends next development steps, and provides a guide to the technical documentation.

Volume 2. GPR Database Developer and Installation Guide

- GPR Database Developer Guide—explains the structure of the GPR database.
- GPR Database Setup and Maintenance Guide—explains how to setup the database, and how to do back-ups of all database files.
- SQL Server 6.5 Installation Guide—a guide to installing the application program that needs to be installed before setting up the GPR database

Volume 3. GPR Database Appendices

- Appendix I, GPR Database, Table Details—describes each database table in detail showing all data fields, including name, type, length, and description.
- Appendix II, Stored Procedures Details—lists and describes each SQL stored procedure used in the Product Register database program.
- Appendix III, Table Creation Scripts—contains the actual SQL script that creates most of the database tables used in the Product Register system.
- Appendix IV, Stored Procedure Creation Scripts—contains the actual SQL script that generates all the stored procedures used in the Product Register system.
- Appendix V, Data Load Scripts—contains the actual SQL script that creates and populates the three data reference tables for country, port, and currency.

Volume 4. GPR Web Site User's Manual

This is the guide for many GOEIC staff who will use the program to enter information into the GPR database and ask for information from the GPR database. This guide contains the images that users of the GPR will see on their computer screens. It is the principal manual to be used in training the end users of the system.

Volume 5. GPR Web Site Installation Guide

- Installation of the GPR Web Site—instructions on how to install and startup the GPR Web Site. It is written for persons familiar with Visual Interdev and HTML.
- Microsoft Windows NT Server Installation Guide—assists with installation of the Windows NT on the Web Server.
- Notes on Security (Intranet)—discusses security issues and explains the built-in security features of the GPR system.
- Notes on Translation of Web Site Pages—recommendations for translating the text of the English language web pages into Arabic.

Volume 6. GPR Administration and Control Program

- Developer and Installation Guide—for the special technicians and the secure computer that will be assigned responsibility for administrative control over the list of products and importers eligible for inspection waivers.

GPR CD-ROM File Directory and Guide to Contents

All documentation and program files necessary to install and configure the GOEIC Product Register are contained on the companion CD-ROM provided to GOEIC by DEPRa along with this report. The complete CD should be copied to a client computer so that GOEIC program developers and administrators can access the files. The computer should have a large hard disk with at least 32 MB of memory available.

Future developers will need the program files to install the system, carry out tests, and make improvements and upgrades. These program files are saved in formats and with the names that will be recognized by the database and/or the website programs. These files should not be altered except by skilled programmers.

The documentation files on this CD-ROM correspond to the six printed volumes of the GOEIC Product Register (GPR) Report. These files can be printed out to create additional copies of any of the installation or user guides. All guides have been saved as MS Word documents with “. doc” extensions so that developers can make changes and additions as needed in the future.

There are four main folders on the GPR CD-ROM:

- 1. *GPR_Introduction*** contains Product Register introduction and overview documentation.
- 2. *GPR_Database*** contains Product Register database documentation and the SQL scripts required to initialize the Product Register database and populate the 3 reference tables with valid country, port, and currency information.
- 3. *GPR_Website*** contains Product Register web site documentation and all required files necessary to install and configure the Product Register web site.
- 4. *GPR_Product Register Administration*** contains documentation and an Administration Program Setup Package to fully install the Product Register Administration program.

These folders serve as directories. Below, “*folder*” means a named file folder on the CD that will appear as an icon. A folder contains either another folder or actual documents.

GPR CD-ROM

GPR = the main folder opens to four subfolders

1. *GPR_Introduction folder*
Volume 1. GPR Introduction = (*Volume 1 of GPR Report*)
2. *GPR_Database folder opens to two subfolders*

Documentation folder contains 3 documents all from Volume 2 of the GPR report

Vol. 2 DB Developer Guide
 Vol. 2 Set Up & Maint. Guide
 Vol. 2 SQL Install Guide

Database Files folder opens to two subfolders

Details folder

Stored Procedure Details

Table Details

SQL Scripts folder

Data Load Scripts

Stored Procedures Creation Scripts

Table Creation Scripts

3. GPR_Website folder

Documentation folder

Volume 5 GPR Website Installation Guide document = (Volume 5 of GPR Report)

Volume 4 Website User Manual document = (Volume 4 of GPR Report)

Website Files folder that opens to four folders of files not printed in the GPR Report; stored on CD-ROM only)

_Themes folder

GOEIC subfolder with 48 objects

ASP and HTML Files folder with 94 objects

GPR_Visual Interdev Project folder

GPR folder

GPR_Local folder

(with 102 Visual Interdev folders & files)

Four other GPR files

Images folder

Arabic Versions folder

Images subfolder (with 45 files)

English Versions folder

Images subfolder (with 45 files)

4. GPR_Administration & Control Program *folder opens to two folders*

Documentation *folder*

Volume 6 GPR Administration & Control Program
Guide (*Volume 6 of GPR Report*)

Setup Package *folder*

GOEIC AdminProgram Setup *folder*

This folder contains several subfolders and files. It is a very large (21.2 MB) executable program that will install and set up the Administration and Control Program. The program itself is on the CD-ROM. Instructions for starting it are in Volume 6 of the GRP Design – Final Report.)