



**IRAQ FINANCIAL MANAGEMENT INFORMATION
SYSTEM
APPLICATION/PROCESS ROLES &
RESPONSIBILITIES**

Powered by ProvenCourseSM

Iraq Economic Governance II



USAID

FROM THE AMERICAN PEOPLE

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1. INTRODUCTION

To assist the Government of Iraq (GoI) meet generally accepted standards in budget execution, the United States Agency for International Development (USAID) teamed with BearingPoint to implement a financial management information system (FMIS), which is composed of FreeBalance eFinancials software, supporting hardware infrastructure, and the Ministry of Finance (MoF) local area network (LAN). This system provides the Iraqi government the basic tools for federal financial management, combined with the flexibility to adjust to a fluid political environment during this period of reconstruction. This document will be updated periodically to reflect maturing business processes and other system changes.

The purpose of the Application/Process Roles and Responsibilities (Plan) is to define the logical security administration for all aspects (e.g., FreeBalance eFinancials, naming conventions, administration processes) of the Iraq Financial Management Information System (IFMIS). Roles define the types of tasks users are permitted to perform in the system, or the type of data and functionality the user can access.

1.1. Scope

This Plan's scope includes the production system for all global IFMIS sites. Worksheets for security and administration planning to users are included. The document will be used by security administrators, quality assurance and auditing. In addition, the Plan will be updated to reflect additional roles created as the business processes mature or additional functionality is incorporated into IFMIS.

The objectives are to:

- Protect application data against unauthorized modification, destruction or disclosure
- Ensure the integrity and high availability of application data
- Provide users with the ability to view and access transactions as authorized by their position requirements
- Minimize Information Technology (IT) security maintenance and time required to verify/provide access to authorized transactions and information
- Allow single sign-on to all instances
- Communicate the responsibilities of users, managers, business process owners, and IT security administrators authorized to use or support the application
- Define the detailed standards, naming conventions and operating procedures that will be followed in the application
- Establish a basis for measuring or auditing the effectiveness of data security administration including access administration, violation monitoring and related activities

In addition, this document addresses security for the following subcomponents of IFMIS:

- **FreeBalance eFinancials** – Authentication and authorization for both users and administrators as it relates to the application only
- **Windows LAN** - Authentication and authorization for both users and administrators as it relates to the MoF Windows LAN only
- **IFMIS Data Center** - Authentication and authorization for administrators as it relates to the MoF Data Center (MoFDC) only. This includes physical access to the IT infrastructure required to run IFMIS.

- **F5 FirePass** - Authentication and authorization for administrators as it relates to the MoF IFMIS FirePass only
- **Overarching SYSADM** – Administration and future design for the complete IFMIS including all aforementioned subcomponents

IT security mechanisms contained in the client network, and other non-IFMIS applications use different technologies and are beyond the scope of this manual. Also the only physical security aspect addressed by this document is that of the MoFDC. The Plan does not address the physical security of the MoF.

2. GENERAL SECURITY RECOMMENDATIONS

- The FreeBalance environment closest to Production should have the same security that Production does (i.e. use this instance to catch potential loopholes in production security)
- MoF IT will maintain the FreeBalance Development environment closest to Production and the security will be implemented and tested in the user acceptance testing (UAT) environment before migrating to Production
- Determine how many people know the system administrator (SYSADM) password and how it will be maintained. Minimally, the SYSADM password should be changed whenever an employee or contractor with clearance leaves the Ministry. For the time that BearingPoint is involved with the implementation, no more than two BearingPoint employees will have overarching SYSADM rights.
- Change all default passwords that came seeded with the application
- Audit all roll definition changes in the production environment
- Audit all role access in the production environment
- Roles must pass audit requirements for separation of duties
- Enforce client policy checks at the FirePass level and force redirect to the quarantine server if policy checks failed
- Do not allow full-blown secure socket layer (SSL) virtual private network (VPN) capabilities to any remote clients
- Audit all levels of security logs once a month
- Only authorized MoF IT staff will have access to the MoFDC room

3. SECURITY NAMING STANDARDS

The following naming conventions shall be followed when the Security Administrator creates or maintains the security authorization:

3.1. Users

Username will be comprised of an 8-digit random number, in Arabic numerals, assigned by the IFMIS IT staff. Users will not be able to change their usernames unless they feel security has been breached and confidentiality has been compromised. At that point users will notify their respective IFMIS Superuser who will, in turn, notify the IFMIS Help Desk.

Example username = 10010345

NOTE: Due to a conflict between supported languages within system subcomponent access control lists (ACL) and native user languages, alphanumeric usernames are not possible. Additionally, in light of physical security concerns and the desire to keep Iraqi federal employees anonymous, using a numeric system is optimal. This will avoid possibly hazardous situations if username information is intercepted.

3.2. Password Standards/Initial Password

Initial passwords will be comprised of an 8-digit random number in Arabic numerals assigned to users by the IFMIS IT staff. Users will not be allowed to change these initial passwords.

Example password = 29360613

NOTE: Due to a conflict between supported languages within system subcomponent ACLs and native user languages, alphanumeric passwords are not possible.

Description	Settings
Password Length	<ul style="list-style-type: none"> 8 numbers
Password restrictions	<ul style="list-style-type: none"> Randomly generated All numeric in Arabic numerals
Changing Passwords	<ul style="list-style-type: none"> Users cannot change passwords Passwords will be changed by the IFMIS IT staff at random intervals User will be notified via email when the password is changed
Password Expiration	<ul style="list-style-type: none"> Random
Invalid Passwords	<ul style="list-style-type: none"> Account is locked after three invalid login attempts
Invalid Passwords	<ul style="list-style-type: none"> Alphanumeric in either English or Arabic

Table 1: Password Standards

3.3. Roles/Groups

Table 2 lists the roles within the IFMIS system. It addresses both functional roles as well as the various levels of infrastructure roles. Due to limitations in the single sign-on capabilities of FreeBalance, roles are persisted at two levels. BearingPoint anticipates that additional roles or groups will be identified as the business processes mature and additional functionality is added to IFMIS.

The System Role Name will be the implemented string for roles.

Full Role Name	System Role Name
Application Roles	
FMIS Administrator	1
FMIS Organization Manager	FMISorgmgr
FMIS Audit	FMISaud
FMIS Superuser	FMISsuper
FMIS Payment Release	FMISrls
FMIS Authority	FMISauth
FMIS User	FMISuser
FMIS Trainer	FMIStrnr
Infrastructure Roles	
Overarching Systems Administrator (Sysadm)	Administrator
FirePass Administrator	Fpadmin
FreeBalance Tech Support	FBTech
F5 Tech Support	F5Tech
FMIS User	FMISuser

** All System Role Name strings case sensitive

Table 2: Role Names

4. POLICIES

The following outlines the security policies for the IFMIS. The IFMIS IT staff will update the policy when security requirements change.

4.1. Centralized Security Maintenance versus Decentralized

IFMIS IT staff, physically located at the MoF, will perform all security maintenance centrally to ensure the confidentiality of data and limit the possibility for security breaches. In addition, the IFMIS IT staff will form a sub-unit, the Security Team, to perform audits, implement new policies, and maintain the integrity of the ACL across all subcomponents. The Security Team will meet monthly to audit the security layer of all subcomponents of IFMIS, and discuss any changes to policies and procedures.

4.2. Security Change Process

Users will not be allowed to change their usernames, passwords, or authorization level. If changes are required, users will notify the FMIS Superuser through their FMIS Organization Manager via email and include the rationale for the change (e.g., possible compromise in security). Upon receipt, the FMIS Security Team will evaluate the request, make the necessary changes, and notify the user, via email.

4.3. Terminations and Transfers

The FMIS Organization Manager will report the names of terminated employees to the FMIS Security Team via email notification to the FMIS Help Desk within one day of departure. The user will be marked as inactive and access to any layer of the FMIS will be denied to the terminated user.

FMIS Organization Managers must report employees who transfer to a different organization at least one week prior to transfer to ensure access rights are changed to reflect the move. Data that is pertinent to the previous organization will not follow the user to the new organization.

4.4. View Access

FMIS Organization Managers will have only View access in the application.

5. BUSINESS PROCESS OWNERS

Business Process Owners (BPO) represent the operations management departments and are responsible for defining roles associated with the business processes in their area of responsibility. This Plan identifies the minimum roles to record, approve, and monitor transactions entered into the application. As business processes mature and new functionality incorporated into IFMIS, additional roles may be created to represent the needs of various business operational areas. After "going live" and the interim period, BPO's will have the following responsibilities:

- Serving as the "owner" of roles that support their business area. A BPO can delegate role ownership to subordinates who are more familiar with the detailed business processes supported by the role.
- Authorizing all changes and deletions to existing roles either for transaction and authorization content and/or for the positions that will be automatically provided the role.
- Approving the creation of new roles with respect to transaction and authorization content and the positions that will automatically be assigned that new role.

6. INFRASTRUCTURE ROLES

Infrastructure roles focus on the supporting technologies used to provision the FreeBalance application. Specifically, this pertains to access control for the network through which FreeBalance is provided. These roles will be used to maintain the system and its security protocols. The MoF IT staff will staff these roles.

6.1. Overarching Systems Administrator

The Overarching Systems Administrator will have the ability to read, write, and edit all components of IFMIS. This role is held within the Windows Active Directory (AD) and coincides with the Windows 2000 Domain Administrator. This role encompasses the responsibilities and access rights of all other infrastructure users. Due to system limitations with single sign-on, the Overarching Systems Administrator must use the login credentials of the subordinate infrastructure roles in order to assume role permissions.

6.2. FirePass Administrator

The FirePass Administrator Role has complete read, write, and edit access to the FirePass controllers. It has no Windows network privileges and cannot authenticate against the Windows AD. It's sole purpose is to administer the configuration of the FirePass Controllers.

6.3. FreeBalance Tech Support

The FreeBalance Tech Support role allows for access to the FreeBalance Servers through the FirePass Controller. Once authenticated, this role will login to the application as an FMIS administrator.

6.4. F5 Tech Support

The F5 Technical Support Role allows for technicians from F5 (the company that produces the FirePass appliance) to access the FirePass units and Active Directory for troubleshooting and administration. This role will also have access to the FirePass Administrator responsibilities.

6.5. FMIS User

The FMIS User Role allows for network access to the terminal server that is providing the FreeBalance application through the FirePass. At this point this role will login to the application and assume the application level role it the user is assigned.

7. FUNCTIONAL ROLES

Functional roles¹ provide an additional layer of security by protecting data integrity through defined user level access to application modules and functionality. In the application, the System Security functions are used to establish each user, including individual access rights. Specifically, each user must be associated with a location (i.e. Iraq), user group, and functional class to access FreeBalance.

- **User group** defines common data access rights by associating a code range within the Chart of Accounts (COA) that is accessible to these users. For example, reports generated by members of a given user group will only see those records to which they have access rights.
- **Functional class** (Class) defines the level of access to FreeBalance modules and application functions within that module.

BearingPoint anticipates that, once fully implemented, there will be seven application roles as shown in Table 3. Of these, FMIS Administrator, FMIS Organization Manager, FMIS Superuser, FMIS User are core functional roles and will roll-out to support the pilot implementation. The FMIS Audit role will deploy after those users receive training in *FreeBalance eFinancials*. This Plan focuses on this set of core functional roles and will be updated to reflect the requirements of maturing business processes.

¹ For the purposes of the document, “functional” and “application” are used interchangeably.

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Application Roles	Responsibilities
FMIS Administrator	<ul style="list-style-type: none"> Support all application activities needed to maintain IFMIS (e.g., FreeBalance eFinancials, Help Desk, hardware, connectivity) Coordinate with Government stakeholders (e.g., Ministries, Governorates) and BPOs to identify new requirements, business processes Be responsible for baseline management and quality assurance
FMIS Organization Manager	<ul style="list-style-type: none"> Coordinate with the IFMIS Security Team to establish, modify, and terminate user accounts Change user roles
FMIS Audit	<ul style="list-style-type: none"> Specific to Site Manager, Internal Audit, the Board of Supreme Audit (BSA) and the Commission on Public Integrity (CPI) Assess quality and integrity of transaction entered in IFMIS through periodic audits of data
FMIS Superuser	<ul style="list-style-type: none"> Provide functional support to all users Establishes user accounts Single point of entry to IFMIS Help Desk support
FMIS Payment Release	<ul style="list-style-type: none"> Review and approve payments for release Specific to the Authorization Officer (AO) in each spending unit
FMIS Authority	<ul style="list-style-type: none"> Review the accuracy of the data and release transactions Specific to the certifying officer (CO) in each spending unit
FMIS User	<ul style="list-style-type: none"> Enter data into IFMIS
FMIS Trainer	<ul style="list-style-type: none"> Develop and provide training Restricted to the Training environment

Table 3: Application Roles and Responsibilities

7.1. Universal Responsibilities

All users are responsible for maintaining the security of IFMIS and the integrity of the data. To ensure this, users will:

- Maintain the confidentiality of their password. Once a password is assigned, no other user, not even the IFMIS Security Team, has or can obtain the password. Therefore, all application activity associated with a userid is assumed to have been performed by that user.
- Contact the Help Desk immediately if they suspect that their password has been reset without their knowledge. Individuals on the Help Desk and the IFMIS Security Team have the ability to reset passwords and could potentially reset the user's password and login as the user. However, the person who reset the password cannot reset the password to the original value.

7.2. Core Functional Roles and Responsibilities

During the pilot implementation, only core functional roles will be implemented.

7.2.1. FMIS Administrator Responsibilities

The FMIS Administrator (system role name, 1) is responsible for all application support activities needed to maintain IFMIS (e.g., FreeBalance eFinancials, Help Desk, hardware, connectivity). In addition, the FMIS Administrator coordinates with Government stakeholders (e.g., Ministries, Governorates) and BPOs to identify new requirements, business processes, and will be responsible for baseline management and quality assurance.

7.2.2. FMIS Organization Manager Responsibilities

Each organization will have one on-site FMIS Organization Manager (system role name, FMISorgmgr) who is responsible for coordinating with the IFMIS Security Team to establish, modify, and terminate user accounts. In general, the FMIS Organization Manager will be the director of a spending agency financial department or each governorate treasury department, or designee. In addition, there will at least one person authorized to act for the primary FMIS Organization Manager in his or her absence. This role is responsible for:

- Requesting New Userids – After the pilot implementation, the on-site FMIS Organization Manager will authorize the IFMIS Security Team to create userids for new FMIS Users. Upon receipt of this request, the IFMIS Security Team will create the user credentials and provide the requesting FMIS Organization Manager with the requested userid and initial password.
- Notifying IFMIS Security Team of Terminations and Transfers - The on-site FMIS Organization Manager should notify the IFMIS Security Team immediately upon any terminations or transfers in accordance with Section 4: Policies. This is critical as the integrity of IFMIS depends upon strict adherence to this policy.
- Changing the Content and Assignment of Roles - After implementation, the on-site FMIS Organization Manager will coordinate with BPOs and the FMIS Administrator to identify new or evolving requirements and business processes.

7.2.3. FMIS Audit

The FMIS Audit (system role name, FMISaud) provides oversight and quality assurance in the system. This role only has privileges to access the system to generate reports. This role will be limited to IFMIS Site Managers, Internal Audit, BSA, and OPI staff.

7.2.4. FMIS Superuser

The FMIS Superuser (system role name, FMISsuper) provides functional support to all users, establishes user accounts (reference Part 4: Policies), and will have access to all functionality in FreeBalance eFinancials. This role is the single point of entry to IFMIS Help Desk support. This role is associated with MoF and BearingPoint resources, currently conducting training sessions for IFMIS users.

7.2.5. FMIS User

FMIS User (system role name, FMISuser) is responsible for entering data into IFMIS in accordance with applicable policies and regulations. All users who have completed FMIS training will initially be assigned this role. As business processes mature and additional functionality is added to IFMIS, the FMIS Organization Manager will request the FMIS User's account to be updated.

7.2.6. FMIS Trainer

FMIS Trainer (system role name, FMISTrnr) is responsible for preparing and delivering training for IFMIS users.

8. PROCEDURES FOR NOT BEING ABLE TO PERFORM A REQUIRED TRANSACTION

Users should first contact the FMIS Superuser if they are not able to perform a required transaction. If the FMIS Superuser is unsuccessful, the Superuser will escalate the issue to the IFMIS Help Desk. The IFMIS Security Team will evaluate the situation and execute changes if deemed appropriate.

9. OPEN ISSUES AND OTHER CONSIDERATIONS

9.1. Implementation Tasks

The following tasks must be completed to implement this Plan.

Task	Resource
Set-up Help Desk email account	MoF IT
Identify MoF IT Help Desk resource(s)	MoF IT
Establish IFMIS Security Team	MoF/BE
Confirm role definitions	IFMIS Functional Leads

9.2. Definitions, Acronyms, and Abbreviations

- ACL Access control list
- AD Accounting Directorate
- AD Active Directory
- AO Authorization Officer
- BPO Business process owner
- CO Certifying Officer
- COA Chart of Accounts
- IFMIS Iraq Financial Management Information System
- IT Information Technology
- GoI Government of Iraq
- MoF Ministry of Finance
- MoFDC Ministry of Finance Data Center
- UAT User acceptance testing

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- SSL Single socket layer
- VPN Virtual private network
- BSA Board of Supreme Audit
- CPI Commission on Public Integrity

9.3. References and Related Documents

- Go-Live Support Plan, V 1.0, March 11, 2005, BearingPoint, Inc.
- OnGoing Support Plan, V1.0, April 2, 2005, BearingPoint, Inc.
- Production Environment Plan, V1.0, March 11, 2005, BearingPoint, Inc.
- Controls Module User's Guide, Version 4.6, December 2003, FreeBalance Inc.

APPENDICES

Appendix A – Define Functional Roles

Function	FreeBalance eFinancials Module	FMIS Administrator	FMIS Organization Manger	FMIS Audit	FMIS Superuser	FMIS Payment Release	FMIS Authority	FMIS User
Approve new users.	IFMIS Help Desk		X					
Create user accounts.	IFMIS, Controls				X			
Change passwords, roles, and user privileges.	IFMIS, Controls				X			
Enter Allotment 1 records.	Appropriations							X
Change Allotment 1 records.	Appropriations						X	
View Allotment 1 records.	Appropriations	X	X	X	X		X	X
Enter Allotment transfer voucher.	Appropriations							X
Approve Allotment 1 and 2 transfer vouchers.	Appropriations						X	
Enter Allotment 2 records.	Appropriations							X
Approve Allotment 2 records.	Appropriations						X	
View Allotment 2 records.	Appropriations	X	X	X	X	X	X	X
Enter financial budget.	Appropriations							X
Approve financial budget.	Appropriations						X	
View financial budget.	Appropriations	X	X	X	X	X	X	X
Enter budget transfer voucher.	Appropriations							X

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Function	FreeBalance eFinancials Module	FMIS Administrator	FMIS Organization Manger	FMIS Audit	FMIS Superuser	FMIS Payment Release	FMIS Authority	FMIS User
Approve budget transfer voucher.	Appropriations						X	
Generate Financial Budgets Overview Report.	Appropriations	X	X	X				
Enter expense commitments/obligations.	Appropriations							X
Approve expense commitments/obligations.	Appropriations						X	
View expense commitments/obligations.	Appropriations	X	X	X	X		X	X
Allotment 1 inquiries.	Appropriations.		X	X				
Allotment 2 inquiries.	Appropriations		X	X				
Financial Budgets inquiries.	Appropriations		X	X				
Expense Commitments/Obligations inquiries.	Appropriations		X	X				
Generate Appropriations reports.	Appropriations	X	X	X				
Enter expense vouchers.	Expenditure				X			X
Change expense vouchers.	Expenditure				X		X	
Approve expense vouchers.	Expenditure						X	
View expense vouchers.	Expenditure	X	X	X	X	X	X	X
Select voucher for payment.	Expenditure					X		



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Function	FreeBalance eFinancials Module	FMIS Administrator	FMIS Organization Manger	FMIS Audit	FMIS Superuser	FMIS Payment Release	FMIS Authority	FMIS User
Approve voucher for payment.	Expenditure					X		
Release payments.	Expenditure					X		
Generate expenditure management reports.	Expenditure	X	X	X	X		X	

**Role Definition*



Appendix B – Define Users

Because of the unique security constraints for Iraqi federal government employees, GoI users will not be identified by name, but will be assigned an 8-digit numeric userid.

Userid	Name	Role	Organization (User Group)	Module and Application Function															
				Appropriations				Controls				Expenditure				General Ledger			
				A ²	V	App	R	A	V	App	R	A	V	App	R	A	V	App	R
TBD	TBD	FMIS User	Ministry of Agriculture									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Communications									X	X		X	X	X		X X
TBD	TBD	FMIS User	Ministry of Culture									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Displacement & Migration									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Education									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Environment									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Finance									X	X		X	X	X		X
TBD	TBD	FMIS Superuser	Ministry of Finance									X	X	X	X	X	X	X	X
TBD	TBD	FMIS Trainer ³	Ministry of Finance																
TBD	TBD	FMIS User	Ministry of Health									X	X		X	X	X		X

² A: Add; V: View; App: Approve; R: Report

³ Training environment only



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Userid	Name	Role	Organization (User Group)	Module and Application Function															
				Appropriations				Controls				Expenditure				General Ledger			
				A ²	V	App	R	A	V	App	R	A	V	App	R	A	V	App	R
TBD	TBD	FMIS User	Ministry of Higher Education									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Housing & Construction									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Human Rights									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Industry & Materials									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Interior									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Justice									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Labor & Social Affairs									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Municipalities & Public Works									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Oil									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Planning & Development									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Science and Technology									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Security Affairs & National Defense									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Trade									X	X		X	X	X		X



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Userid	Name	Role	Organization (User Group)	Module and Application Function																
				Appropriations				Controls				Expenditure				General Ledger				
				A ²	V	App	R	A	V	App	R	A	V	App	R	A	V	App	R	
TBD	TBD	FMIS User	Ministry of Transportation										X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Water Resources										X	X		X	X	X		X
TBD	TBD	FMIS User	Central Treasury										X	X		X	X	X		X
TBD	TBD	FMIS User	Commission of Public Integrity										X	X		X	X	X		X
TBD	TBD	FMIS User	Board of Supreme Audit										X	X		X	X	X		X
TBD	TBD	FMIS User	Office of the Presidency										X	X		X	X	X		X
TBD	TBD	FMIS User	Office of the Prime Minister										X	X		X	X	X		X
TBD	TBD	FMIS User	Office of the Cabinet										X	X		X	X	X		X
TBD	TBD	FMIS User	The Supreme Court										X	X		X	X	X		X
TBD	TBD	FMIS User	National Security Council										X	X		X	X	X		X
TBD	TBD	FMIS User	Iraqi National Assembly										X	X		X	X	X		X
TBD	TBD	FMIS User	Office of Religious Endowments (Others)										X	X		X	X	X		X
TBD	TBD	FMIS User	Office of Religious Endowments (Sunni)										X	X		X	X	X		X



Iraq Economic Governance II

Userid	Name	Role	Organization (User Group)	Module and Application Function															
				Appropriations				Controls				Expenditure				General Ledger			
				A ²	V	App	R	A	V	App	R	A	V	App	R	A	V	App	R
TBD	TBD	FMIS User	Judicial Council									X	X		X	X	X		X
TBD	TBD	FMIS User	Basra Governorate									X	X		X	X	X		X
TBD	TBD	FMIS User	Babil Governorate									X	X		X	X	X		X
TBD	TBD	FMIS User	Najaf Governorate									X	X		X	X	X		X
TBD	TBD	FMIS User	Dhi Qar Governorate									X	X		X	X	X		X
TBD	TBD	FMIS User	Maysan Governorate									X	X		X	X	X		X
TBD	TBD	FMIS User	Baghdad Governorate									X	X		X	X	X		X
TBD	TBD	FMIS User	Karbala Governorate									X	X		X	X	X		X
TBD	TBD	FMIS User	Al-Muthanna Governorate									X	X		X	X	X		X
TBD	TBD	FMIS User	Al-Qadissiya Governorate									X	X		X	X	X		X
TBD	TBD	FMIS User	Wasit Governorate									X	X		X	X	X		X
TBD	TBD	FMIS Audit	Ministry of Agriculture												X				X
TBD	TBD	FMIS Audit	Ministry of Communications												X				X X
TBD	TBD	FMIS Audit	Ministry of Culture												X				X
TBD	TBD	FMIS Audit	Ministry of Displacement & Migration												X				X



Iraq Economic Governance II

Userid	Name	Role	Organization (User Group)	Module and Application Function															
				Appropriations				Controls				Expenditure				General Ledger			
				A ²	V	App	R	A	V	App	R	A	V	App	R	A	V	App	R
TBD	TBD	FMIS User	Ministry of Education									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Environment									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Finance									X	X		X	X	X		X
TBD	TBD	FMIS Superuser	Ministry of Finance									X	X	X	X	X	X	X	X
TBD	TBD	FMIS Trainer ⁴	Ministry of Finance																
TBD	TBD	FMIS User	Ministry of Health									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Higher Education									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Housing & Construction									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Human Rights									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Industry & Materials									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Interior									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Justice									X	X		X	X	X		X
TBD	TBD	FMIS User	Ministry of Labor & Social Affairs									X	X		X	X	X		X

⁴ Training environment only



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Userid	Name	Role	Organization (User Group)	Module and Application Function															
				Appropriations				Controls				Expenditure				General Ledger			
				A ²	V	App	R	A	V	App	R	A	V	App	R	A	V	App	R
TBD	TBD	FMIS Audit	Ministry of Municipalities & Public Works													X			X
TBD	TBD	FMIS Audit	Ministry of Oil													X			X
TBD	TBD	FMIS Audit	Ministry of Planning & Development													X			X
TBD	TBD	FMIS Audit	Ministry of Science and Technology													X			X
TBD	TBD	FMIS Audit	Ministry of Security Affairs & National Defense													X			X
TBD	TBD	FMIS Audit	Ministry of Trade													X			X
TBD	TBD	FMIS Audit	Ministry of Transportation													X			X
TBD	TBD	FMIS Audit	Ministry of Water Resources													X			X
TBD	TBD	FMIS Audit	Central Treasury													X			X
TBD	TBD	FMIS Audit	Commission of Public Integrity													X			X
TBD	TBD	FMIS Audit	Board of Supreme Audit													X			X
TBD	TBD	FMIS Audit	Office of the Presidency													X			X



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Userid	Name	Role	Organization (User Group)	Module and Application Function															
				Appropriations				Controls				Expenditure				General Ledger			
				A ²	V	App	R	A	V	App	R	A	V	App	R	A	V	App	R
TBD	TBD	FMIS Audit	Office of the Prime Minister												X				X
TBD	TBD	FMIS Audit	Office of the Cabinet												X				X
TBD	TBD	FMIS Audit	The Supreme Court												X				X
TBD	TBD	FMIS Audit	National Security Council												X				X
TBD	TBD	FMIS Audit	Iraqi National Assembly												X				X
TBD	TBD	FMIS Audit	Office of Religious Endowments (Others)												X				X
TBD	TBD	FMIS Audit	Office of Religious Endowments (Sunni)												X				X
TBD	TBD	FMIS Audit	Judicial Council												X				X
TBD	TBD	FMIS Audit	Basra Governorate												X				X
TBD	TBD	FMIS Audit	Babil Governorate												X				X
TBD	TBD	FMIS Audit	Najaf Governorate												X				X
TBD	TBD	FMIS Audit	Dhi Qar Governorate												X				X
TBD	TBD	FMIS Audit	Maysan Governorate												X				X
TBD	TBD	FMIS Audit	Baghdad Governorate												X				X
TBD	TBD	FMIS Audit	Karbala Governorate												X				X
TBD	TBD	FMIS Audit	Al-Muthanna Governorate												X				X



Iraq Economic Governance II

Userid	Name	Role	Organization (User Group)	Module and Application Function																
				Appropriations				Controls				Expenditure				General Ledger				
				A ²	V	App	R	A	V	App	R	A	V	App	R	A	V	App	R	
TBD	TBD	FMIS Audit	Al-Qadissiya Governorate													X				X
TBD	TBD	FMIS Audig	Wasit Governorate													X				X
TBD	TBD	FMIS Superuser	Ministry of Finance						X		X		X			X		X		X
TBD	TBD	FMIS Trainer	Ministry of Finance																	
		SYSADMIN	BearingPoint						X		X									
86056143	Rashed Zuhair Raffo	FMIS Superuser	BearingPoint						X		X		X			X		X		X
33623131	Araz Nabil Al-Mash hadanee	FMIS Superuser	BearingPoint						X		X		X			X		X		X
90965596	Nawar Abbas Abbas	FMIS Superuser	BearingPoint						X		X		X			X		X		X
39834741	Moaid Hussain Al- Salihi	FMIS Superuser	BearingPoint						X		X		X			X		X		X
48244091	Amira Nasir Azzu	FMIS Superuser	BearingPoint						X		X		X			X		X		X
74410430	Hussain Uday Kuba	FMIS Superuser	BearingPoint						X		X		X			X		X		X
25107896	Arkan Kamel Al- Ammar	FMIS Superuser	BearingPoint						X		X		X			X		X		X
39233132	Tha'ar Saeed Al- Hassani	FMIS Superuser	BearingPoint						X		X		X			X		X		X



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Userid	Name	Role	Organization (User Group)	Module and Application Function															
				Appropriations				Controls				Expenditure				General Ledger			
				A ²	V	App	R	A	V	App	R	A	V	App	R	A	V	App	R
81637048	Ali Jwad Al-Haje	FMIS Superuser	BearingPoint						X		X		X		X		X		X
93533777	Husam Ahmed Al- Hashami	FMIS Superuser	BearingPoint						X		X		X		X		X		X
77903162	Mwaffaq Hamid Al-Manee	FMIS Superuser	BearingPoint						X		X		X		X		X		X
51351587	Ammar Yasser Al- Ghazi	FMIS Superuser	BearingPoint						X		X		X		X		X		X
robert.voetsch	Robert Voetsch	FMIS Trainer	BearingPoint																
philip.clark	Philip Clark	FMIS Trainer	BearingPoint																
terence murdoch	Terence Murdoch	FMIS Trainer	BearingPoint																
zaid.alogaily	Zaid Al-Ogaily	System Administrator	BearingPoint						X		X								
fb.tech	FreeBalance Tech	FBTech	FreeBalance																
f5.tech	F5Tech	F5 Tech	FirePass																
demo.user	Demo User	Demo	Demo																

Appendix C – Sample Security Process Flow

