CONTENT

Chapter One System Installation and Configuration

1.1 System Application Flow Chart	. 1
1.2 System Installation	. 1
1.3 System Configuration	.3
1.3.1 System Configuration	.3
1.3.2 Modifying passwords	.4

Chapter Two System Application Flow

2.1 Personnel Information Management	4
2.1.1 Adding personnel	4
2.1.2 Modifying/Deleting personnel	5
2.1.3 Querying Personnel	6
2.2 Setting Reading Head Parameters	6
2.2.1 Obtaining reading head parameters	7
2.2.2 Setting reading head parameters	7
2.3 Fingerprint Reading Head Management	8
2.3.1 Adding reading heads	8
2.3.2 Initializing reading heads	9
2.3.3 Modifying/Deleting reading heads	10
2.4 Fingerprint data collection	10
2.4.1 Registering fingerprints	10
2.4.2 Deleting fingerprints	14
2.5 Fingerprint Data Management	15
2.5.1 Personnel groups	16
2.5.2 Personnel registration	18
2.6 Database Maintenance	22
2.6.1 Database backup	22
2.6.2 Database restoration	22
2.6.3 Database optimization	22
2.6.4 Database repair	22
2.7 About	23

Chapter One System Installation and Configuration

1.1 System Application Flow Chart



Figure 1.1 System Application Flow Chart

1.2 System Installation

Click the installation program to install the MF-10 reading head management system to the specified path on your computer according to the setup wizard. After the installation is completed, the system automatically runs the software.



Figure 1.2

Reading Head Management System User's Manual



Figure 1.3



Figure 1.4



Figure 1.5

1.3 System Configuration

1.3.1 System Configuration

You can configure the system simply before initial use. Click the "System configuration" (Figure 1.5). In the displayed window, set the personnel No. length. The default personnel No. length is 5 that indicates that 1-99999 people can be entered (Figure 1.6). Please determine whether to reset according to actual situations.

Note: After personnel is entered, the personnel No. length cannot be changed.

System setting	×
(Number rule)	
Work ID length 5	
E Save	cit

Figure 1.6

Reading Head Management System User's Manual

lodify PWD		×
When correi passw	changing password, ensure its ctness. When entering new ord, ensure consistency.	
Old password:		ĺ
New password:	****	
Confirm PWD:	*****	
	✓ OK (O)	

Figure 1.7

1.3.2 Modifying passwords

The system login password is null by default. You can modify it. A password can be English and numbers and is case sensitive. A password can be successfully modified only when a new password is consistent with a confirmation password (Figure 1.7). Please remember the new password after modification.

Chapter Two System Application Flow

2.1 Personnel Information Management

2.1.1 Adding personnel

[Steps]

1. Click "Personnel information management". In the displayed window, enter the personnel name, gender, entry data etc.

2. Click "Save" to add the personnel.

Note: Blue identifications must be filled. The personnel No. and the registration No. are automatic numbers by default and cannot be repeated. Please tick "Continuous entry" to continuously enter personnel.

luick query Vork ID:		Reg No.:	[ame:	🔎 Que	ry (E)
Work ID	Reg No. Nam	e Gender	Identity No.	Entry date	Remarks	Operator	Operate Date
	Edit staff					×	
	Name:	Aaron		Gender:	Male	I	
/	Work ID	Auto No.					
	Reg No.	Auto No.		Entry date:	2010-05-18	3	
	Identity No.:						
	Remarks:					-	
	,						
	Add in ser	es		🖌 Sav	e 🕕 Exit		
		~		1			
	/						
RecNum: 0	/						

Reading Head Management System User's Manual

Figure 2.1

2.1.2 Modifying/Deleting personnel

If you want to modify/delete personnel, select personnel records and click "Modify"/"Delete" to perform corresponding operations. Only one record can be modified/deleted at a time.

ork ID:			Reg No.:		Na	me:		iery (<u>F</u>)
Work ID	Reg No.	Name	Gender	Identity No.	Entry date	Remarks	Operati	or Operate Date
00001	00001	Aaron	Male		2010-05-18		sa	2010-05-18
	Edit stafi							
	Name	e [Aaron		Gender:	Male	-	
	Work	ID	00001					
	Regi	<i>i</i> o. [00001		Entry date:	2010-05-18	-	
	Ident	ity No.:						
	Dom	vites E					_	
	Konik	1K3.					_	
					Save	e Exit		
RecNum:	1	-						-
	(1						

Figure 2.2

Work ID Reg No. Name Sender Identity No. Entry date Remarks Operator Operator Operator	Quick query Work ID:	[_	Reg No.:		Name		🔎 Qu	ery (<u>F</u>)
MF-10读头管理系统 If delete the current logs? 尾位	Work ID 00001	Reg No. 00001	Name Aaron	Gender Male	Identity No.	Entry date 2010-05-18	Remarks	Operato sa	r Operate Date 2010-05-18
MF-10读失管理系统 了 If delete the current logs? 尾①				_			_		
<u>是(y)</u> 否(w)				8	4F-10读头管理系 ? If dele	统	•		
]否(N)			
RecNum: 1	RecNum:	1							

Reading Head Management System User's Manual

Figure 2.3

2.1.3 Querying Personnel

You can search personnel information through the personnel No., registration No and name.

👌 Manage staf	ff information							
Quick query Work ID:	(_ `	Reg No.:	•	Name	Aaron	Que	ry (E)
Work ID	Reg No.	Name	Gender	Identity No.	Entry date	Remarks	Operator	Operate Date
00001	00001	Aaron	Male		2010-05-18		sa	2010-05-18 :
RecNum:	1							
Keenann	1*		16 16		- M		- 27	

Figure 2.4

2.2 Setting Reading Head Parameters

You can obtain/set reading head parameters through the broadcast mode and the known reading head. If you do not know parameters like reading head No., please obtain/set reading head parameters through the broadcast mode.

2.2.1 Obtaining reading head parameters

Connect the reading head to the computer normally, and access the "Set reading head parameters" module. In the displayed window, select a setting mode (broadcast mode/known reading head mode), and click "Obtain reading head parameters".

Set device parameter	×
Select set mode Using broadcast set reading para Using known reading Setting	am Reader where the serial COM1 💽 Select reading No.:
Reading No.: 001 IP address: 192.168.10.176 Port No.: 5005 Wigand output mode • Wigand 26 C Wigand 34	Default Gateway: 192.168.10.1 Wigand output type User ID • Machine No. + User ID Set read param (S)

Figure 2.5

2.2.2 Setting reading head parameters

If reading head parameters must be reset, please access the "Set reading head parameters" module. In the displayed window, select a setting mode (broadcast mode/known reading head mode). After reading head parameters are obtained, reset reading head parameters, and click "Set reading head parameters:.

Note: If the reading head is set through the broadcast mode, the system can be connected to one MF11 reading head only.

Select set mode Using broadcast set reading paran Using known reading Setting	n Reader where the serial COM1 💌 Select reading No.:
Reading No.: 002 IP address: 192.168.10.176 Port No.: 5005 Wigand output mode © Wigand 26 © Wigand 34	Default Gateway: 192.168.10.1 Wigand output type C User ID
🔎 Get read param (<u>R</u>)	👔 Set read param (S)

Reading Head Management System User's Manual

Figure 2.6

2.3 Fingerprint Reading Head Management

2.3.1Adding reading heads

Obtain relevant reading head parameters such as the reading head No., IP address and port No., and you can add corresponding reading heads according to parameters.

[Steps]

- Click "Fingerprint reading head management" and "Reading head editing > Adding reading heads". In the display new window, select a corresponding communication mode (TCP/IP or serial port communication).
- Enter the reading head name, reading head No. and corresponding communication mode (For TCP/IP communication, the corresponding IP address and port No. must be entered. For serial port communication, the corresponding serial port must be selected).
- 3. Click "Save" to add the reading head.

Note: If multiple reading heads are added, the reading head No. cannot be repeated.

🚯 FP reader management	- ¤ ×
💭 All devices	Set reader Manage list information for reader ,Add new reader,Modify reader parameter,Delete reader , Please slect reader from left reader list and then modify and delete reader and when modify reader ,one time just can choose one reader for
Device in Reac Com TCP IP	rmator[Add] × rn ame Device1 Reader No. 001 nunication TCP/IP IP communication parameter ddress 192.168.10.223 No. 5005 Cancel (C) er No. + User ID eram (S)
Online check (S)	

Reading Head Management System User's Manual

Figure 2.7

2.3.2 Initializing reading heads

If you use a reading head for the first time and there is no effective data saved in the MF11 reading head, you shall perform the initialization operation first. "Initialize reading head" will clear all registration information in the reading head and thus shall be used with caution.

[Steps]

- 1. Select a reading head to be initialized, and click "Online test" to check that the reading head is normally connected.
- 2. Click "Initialize reading head" to clear data.

All devices Device1(001) 192.168.10.223,5005	Set reader Manage list information for reader ,Add new reader,Modify reader parameter,Delete reader. Please sleet reader from operation. Set the reader parameter Initialize reader "Initialize reader" is to clear all the registration information. Me=101894812566 ↓ Initialize the device? ↓ Initialize the device? ↓ Initialize the device?
Online check (S)	

Reading Head Management System User's Manual

Figure 2.8

2.3.3 Modifying/Deleting reading heads

If you want to modify/delete reading heads, please select reading heads to be modified/deleted and perform corresponding operations.

Note: Only one reading head can be modified at a time. Multiple reading heads can be deleted at a time.



Figure 2.9

2.4 Fingerprint data collection

Fingerprint data collection is to register fingerprint data of the personnel into a computer through a USB fingerprint instrument or MF11 reading head. Please select a collection mode (USB fingerprint instrument or MF11) to collect fingerprints according to actual situations.

2.4.1 Registering fingerprints

(1) Registering fingerprints through a USB fingerprint instrument

Before fingerprints are registered, please connect a USB fingerprint instrument to a computer normally.

[Steps]

- Click "Fingerprint data collection". In the displayed window, find personnel whose fingerprints need to be registered (you can query through the personnel No./name/registration No.). If query conditions are null, it indicates querying all personnel.)
- 2. Select personnel whose fingerprints need to be registered (only one person can be registered at a time).
- 3. USB fingerprint instrument: Click "Register fingerprints". If the fingerprint instrument is normally connected, the interface will prompt "Please press your finger ...". Register fingerprints on the fingerprint instrument according to the prompt by using unregistered fingerprints. If fingerprint data are successfully collected to the system, the prompt "The fingerprint is successfully registered" will be given and the first (second/third) fingerprint point will be ticked (which indicates registered).

Note: One person can be registered with up to three fingerprints. If a certain person has registered three fingerprints, a new fingerprint can be registered only after a certain fingerprint is deleted. If you want to cancel the operation during registration, click "Stop registration".

Example: The employee Zhang Shan registers one fingerprint through a USB fingerprint instrument.



Reading Head Management System User's Manual

Figure 2.10



Figure 2.11

(2) Registering fingerprints through MF11

Before fingerprints are registered through MF11, please check that the corresponding reading head has been added in the system and that the system can be normally connected to the MF11 reading head.

[Steps]

- Click "Fingerprint data collection". In the displayed window, find personnel whose fingerprints need to be registered (you can query through the personnel No./name/registration No.). If query conditions are null, it indicates querying all personnel.)
- 2. Select personnel whose fingerprints need to be registered (only one person can be registered at a time).
- MF11: Select a reading head No., click "Register fingerprints" to start collecting fingerprints.

Note: One person can be registered with up to three fingerprints. If a certain person has registered three fingerprints, a new fingerprint can be registered only after a certain fingerprint is deleted.

Example: The employee Li Si registers one fingerprint through MF11.



Figure 2.12



Reading Head Management System User's Manual

Figure 2.13

2.4.2 Deleting fingerprints

Deleting fingerprints is to delete a certain fingerprint of a certain person in a computer. Only one fingerprint of a person can be deleted at a time.

[Steps]

- 1. "Fingerprint data collection" module: Select personnel whose fingerprints need to be deleted.
- USB fingerprint instrument/MF11: Click "Delete fingerprints". In the displayed window, select fingerprints to be deleted, and click "OK" to delete them.

Example: The first fingerprint of the employee Zhang Shan is deleted.

Work ID	Reg No.	Name	Finger1	Finger2	Finger3
0001	00001	Aaron	V		
0002 ≿	00002	Sabeth		F	
0003 🔪	00003	Wallace	Ē		Γ
0004 🔪	00004	Jacalyn			Г
ling No. 00	1(Device1)	Enroll fin	gerprint	Delete finger	prints
	🚳 Sele				• × •
	Please	e choose to delet	e this personr	el in the data	abase

Reading Head Management System User's Manual

Figure 2.14

Work I	D Reg No.	Name	Finger1	Finger2	Finger3
00001	00001	Aaron	V	Г	Ē
00002	00002	Sabeth		E I	
00003	00003	Wallace	1	IT.	Г
00004	00004	Jacalyn 🦯		E.	Г
		1			

Figure 2.15

2.5 Fingerprint Data Management

After personnel's fingerprint data are collected to the computer, the registration information (fingerprints) can be registered in the MF11 reading head. You can register according to selected personnel or personnel groups. For registration

according to personnel groups, personnel must be distributed to corresponding reading heads before registration.

2.5.1 Personnel groups

Personnel groups are to distribute personnel to specific groups (reading heads) [Steps]

- Click "Fingerprint data management > Personnel groups". In the displayed window, find personnel. (You can query according to the personnel No./name/registration No. If query conditions are null, it indicates querying all personnel).
- 2. Select a reading head in the reading head list.
- 3. In the personnel information list, select personnel to be added to selected reading heads. (If all personnel need to be added, this step can be omitted).
- Click "Add selected personnel"/"Add all personnel" to distribute selected/all personnel to selected reading heads.

Note:

- 1. Adding all personnel is to add all personnel in the personnel information list into selected reading heads.
- If you want to remove selected personnel, please select personnel to be removed and then remove them. If you want to remove all personnel, no selection is needed.

Example: Distribute the personnel with the registration No. 00001, 00002, 00005 and 00006 to the group "Reading head 1".

ader list	register Personr	el info						~	
)1[Device1]	Entry s	taff Wo	rk ID	•					Query
~	W	ork ID	Reg No.	Name	Gender	Identity No.	Entry date	In readir	ng 🔼
	- 🖸 0000	01	00001	Aaron	Male		2010-05-18	001	
	0000	02 1	00002	Sabeth	Female		2010-05-18		
	0000	3 1	00003	Wallace	Male		2010-05-18		
)4	00004	Jacalyn	Male		2010-05-19	001	
	Add se	elected stat	ff D A	dd all staff		Remov	e selected sta	ff Remove a	ll staff
	Reader	registered	personnel	infor					
	000	01[Aaron]							
		U4[Jacalyn	u -						

Reading Head Management System User's Manual



Example: Add in the group "reading head 2" all corresponding personnel obtained through the query mode of registration No.

FP Data Management							;
Personnel groups Staff regis	ter		~				X
Reader list	Personnel info						
001[Device1]	Entry staff	ork ID	• 00002,	00004			Query
	Work ID	Reg No.	Name	Gender	Identity No.	Entry date	In reading 🔼
	00002	00002	Sabeth	Female		2010-05-18	001
	00004	00004	Jacalyn	Male		2010-05-19	001
_	Add selected st. Reader registere 00002[Sabet 00004[Jacaly	aff A d personnel h] (n]	ndd all staff		Remov	e selected sta	ff Remove all staff
	٤						
							Return

Figure 2.17

2.5.2 Personnel registration

(1) Registering according to selected personnel

[Steps]

- 1. Click "Fingerprint data management > Personnel registration > Register according selected personnel". Select a reading head and perform online test to check that the reading head is online.
- 2. Find personnel to be registered and display them in a list.
- Click "Register personnel information into the reading head", and the system registers all personnel's fingerprint information in the current list into a selected MF11 reading head.

Note: For "Obtain registration information from the reading head"/"Delete personnel information from the reading head", the steps are the same as those of "Register personnel information into the reading head".

- 1. Obtain registration information from the reading head is to obtain fingerprint information of the personnel in the current list to the computer from MF11.
- 2. Delete personnel information from the reading head is to delete fingerprint information of the personnel in the current list from MF11.

Example: Write the registration information of the personnel with the registration No. 00002, 00004 and 00006 into the reading head 1.

FP Data Management									
Personnel groups Starr register	Register by s	elected nerso	nnel Rec	uister ha	/ nerso	nnel a	000	1	×
Device1(001) 192.168.10.:	Entry staff	Work Id	- 00001,0	00002,0	0004	-			Query
	Work ID	Reg No.	Name	inger:	inger2	inger	Gender	Identity No.	Entry date 🔼
	00001	00001	Aaron	•	Г	Г	Male		2010-05-18
× *	00002	00002	Sabeth		Г	Г	Female		2010-05-18
	00004	00004	Jacalyn	~	Г	Г	Male		2010-05-19
	Connecting 0 Connected of Aaron FP 1 W Sabeth FP 1	101 deivce,ple n001 device /rite register Write register	ese waiting. informatior r informatio	 n succes in succe	sful ssful				
	Jacalyn FP 1	Write registe	r informatio	on succi	essful				
	-	/	_						
Online check (<u>S</u>)	Upload enrol	l infor to read	der Obtai	in reg ir	nfor fro	m read	ier C	elete staff inf	or from reader
									🚺 Return

(2) Registering according to grouped personnel

Registering according to grouped personnel is to register the fingerprint information of grouped (reading head) personnel into corresponding MF11 reading heads. [Steps]

- 1. "Fingerprint data management" module: Select a reading head with personnel to be registered, and perform "Online test" to check that it is online.
- 2. Click "Register according to personnel groups".
- Click "Register personnel information into the reading head" to finish registration according to grouped personnel. The system automatically registers personnel into the corresponding reading head.

Note: Before registration, please check whether the personnel in a group (reading head) are correct. In case of incorrection, please modify them in the "Personnel group" module.

Example: Register personnel registration information into corresponding reading heads.

[Prerequisite] The personnel have been grouped into corresponding reading heads in the "Personnel group" module (Figure 2.19).

[Results] After registration, the fingerprint information of the personnel with the registration No. 00001, 00002, 00005 and 00006 is written into the reading head 1. The fingerprint information of the personnel grouped in the reading head 2 is correspondingly written into the reading head 2 (Figure 2.20).

1[Device1]	Personnel info Entry staff Work ID • Que	ery
	Work ID Reg No. Name Sender Identity No. Entry date In reading	_
	Add selected staff Add all staff Remove selected staff Remove all s	staff
	Deader registered environmellinfer	_
	. UUUU4IJacaivni	
	UUUU4[Jacaiyn]	
	uuuu4[Jacaiyn]	
	UUUU4[Jacaiyn]	

Reading Head Management System User's Manual

Figure 2.19

All devices	Register by s	elected perso	onnel Reg	gister b	y perso	nnel gr	oup		
	Selected read	der No. All d	evices		🍾 Qu	ery			
	Work ID	Reg No.	Name	inger:	finger2	inger:	Sender	Identity No.	Entry date
	00002	00002	Sabeth	V			Fernale		2010-05-18
/	00004	00004	Jacalyn	~	Г	Г	Male		2010-05-19
	RecNum:	2							>
	RecNum:	2							3
	RecNum:	2	ace waiting						2
	Connecting C	2 001 deivce,pl	ese waiting						D
	Connecting C Connected o Sabeth FP 1 Jacalyn FP 1	2 001 deivce,pli n001 device Write registe Write registe	ese waiting r informatic r informatic	 on succe	essful essful				2
	Connecting C Connected o Sabeth FP 1 Jacalyn FP 1	2 001 deivce,pl n001 device Write registe Write registe	ese waiting r informatic r informatic	 on succe	essful essful				
	RecNum:	2 001 deivce,pli n001 device Write registe Write registe	ese waiting r informatic r informatic	 on succe on succ	essful essful				D
	RecNum:	2 001 deivce,pl n001 device Write registe Write registe	ese waiting r informatic r informatic	 on succe	essful essful				
	RecNum:	2 101 deivce,pl n001 device Write registe Write registe	ese waiting r informatic r informatic	 on succe	essful essful				

Figure 2.20

Note: For "Obtain registration information from the reading head"/"Delete personnel information from the reading head", the steps are the same as those of "Register personnel information into the reading head".

1. Obtain registration information from the reading head: Obtain registration information of the personnel under the selected reading head to the computer

from the MF11 reading head (Figure 2.21).

2. Delete personnel information from the reading head: Delete registration information of the personnel under the selected reading head from the MF11 reading head (Figure 2.22).

∃- 📝 🏈 All devices	Register by se	elected perso	onnel Reç	gister b	y perso	nnel gr	oup		
└──♥♥ Device1(001) 192.168.10.:	Selected read	der No. All d	evices	•	🍾 Qu	ery			
	Work ID	Reg No.	Name	inger:	inger2	inger:	Sender	Identity No.	Entry date
	00002	00002	Sabeth	~	П	Π	Female		2010-05-18
	00004	00004	Jacalyn	~		Г	Male		2010-05-19
	RecNum:	2							3
	RecNum:	2			-	_			
	RecNum:	2							>
	RecNum:	2	ese waiting						2
	Connecting 0 Connected or Sabeth FP 1 3	2 101 deivce,pli n001 device Success to re	ese waiting ead registra	 tion inf	ormatic	'n			•
	Connecting 0 Connected or Sabeth FP 1 S Jacalyn FP 1	2 101 deivce,plo n001 device Success to re Success to re	ese waiting ead registra ead registra	tion inf	ormatic	n			2
	Connecting 0 Connected or Sabeth FP 1 S Jacalyn FP 1	2 01 deivce,pli n001 device Success to re Success to re	ese waiting ead registra ead registra	 tion inf	ormatic	n on			>
	RecNum: Connecting O Connected or Sabeth FP 1 S Jacalyn FP 1	2 101 deivce,pl n001 device Success to re Success to re	ese waiting aad registra ead registra	tion inf	ormatic	n in			
	RecNum:	2 101 deivce,pl 1001 device Success to re Success to re	ese waiting ead registra ead registra	tion inf	ormatic	n on	_		>
Online check (S)	RecNum:	2 01 deivce,pl n001 device Success to re Success to re	ese waiting ead registra ead registra	tion inf	ormatic formatic			elete staff info	>

Figure 2.21

ersonnel groups Staff register									
E-V All devices	Register by s	elected perso	onnel Reg	gister b	y perso	nnel gr	oup		
Device1(001) 192.168.10.:	Selected read	ier No. All d	evices	•	🍾 Qu	Jery			
	Work ID	Reg No.	Name	inger:	-inger2	inger:	Gender	Identity No.	Entry date
	00002	00002	Sabeth	~		Г	Fernale		2010-05-18
	00004	00004	Jacalyn	~	-	Г	Male		2010-05-19
	RecNum:	2							
	RecNum:	2							
	RecNum:	2							D
	Connecting 0 Connected of	2 01 deivce,pl	ese waiting						D
	Connecting 0 Connected of Sabeth Delet Jacalyn Delet	2 01 deivce,plo n001 device e enrolled in te enrolled in	ese waiting formation s formation s	 uccessf	-ul ful				Ð
	Connecting 0 Connected or Sabeth Delet Jacalyn Delet	2 01 deivce,pli- n001 device e enrolled in te enrolled in	ese waiting formation s formation s	 successf	-ul ful				
	Connecting 0 Connected 0 Sabeth Delet Jacalyn Delet	2 01 deivce,plo n001 device e enrolled in te enrolled in	ese waiting formation s formation s	 successf	-ul ful				
	RecNum:	2 01 deivce,pl 001 device e enrolled in te enrolled in	ese waiting formation s formation s	 uccessf success	-ul ful				
Coline shert (S)	RecNum:	2 01 deivce,pl n001 device e enrolled in te enrolled in	ese waiting formation s	 successf	-ul ful				D
Conline check (S)	RecNum:	2 01 deivce,pli 001 device e enrolled in te enrolled in l infor to rea	ese waiting formation s formation s der Obta	in reg in	ful ful	m read	ier []	Pelete staff infr	2 or from reader

Figure 2.22

2.6 Database Maintenance

2.6.1 Database backup





2.6.2 Database restoration



Figure 2.24

2.6.3 Database optimization

Patabase maintenance	× ×
Backup Restore (Database optimization) Repair databas	e
Optimizing the database allows the database to run faster!	Optimize (<u>O</u>)

Figure 2.25

2.6.4 Database repair





2.7 About

This interface indicates the software version, program installation address, database address and other information.

bout			X
MF-10	Reading N	/lanagement S	System
Company:http	://www.tomurad	cctv.com	
EMAIL: serv	vice@psptelecom	n.co.th	
App version:	6.0.0.19	DB update date:	2009-11-27
Path of App:	D:\MF11\		
Path of DB:	D:\MF11\		
MDAC version	: 2.81.1117.0		
			Close (<u>C</u>)

Figure 2.27