

Jordan Insurance Federation

Nationwide Electronic Motor Insurance System

NEMIS

Specifications, Requirements

And

General Terms & Conditions

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Contents

Executive Summary	5
1. Managed Frame Relay WAN.....	7
1.1 General Requirements	7
1.2 Phase (I).....	8
1.2.1 Jordan Insurance Federation	8
1.2.1.a JOIF Head Office.....	8
1.2.1.b JOIF Offices In PSD Licensing Centers	8
1.2.2 Public Security Department	9
1.2.2.a PSD Main Departments	9
1.2.2.b PSD DVLC Sections.....	9
1.2.3 Insurance Companies.....	9
1.2.4 Links & Bandwidth.....	10
1.2.4.a JOIF Locations.....	10
1.2.4.b PSD Locations	10
1.2.4.c Insurance Companies Locations	11
1.3 Phase (II).....	12
1.3.1 Ministry Of Finance / Customs Department	12
1.3.2 JOIF Offices / Border Crossings	12
1.3.3 Links & Bandwidth.....	12
1.4 Phase (III).....	13
1.4.1 The Insurance Commission	13
1.4.2 Ministry Of Finance.....	13
1.4.3 Banks In Jordan.....	13
1.4.4 Links & Bandwidth.....	13
2. Hardware Requirements	14
2.1 Main Server Configurations.....	14
2.1.1 Servers	14
2.1.2 RAID Storage.....	15
2.1.3 Backup Devices	16
2.2 Personal Computers	17
2.3 Notebook Computers.....	18
2.4 Printers	19
2.4.1 Network Printers.....	19
2.4.2 Personal Printers.....	19
2.5 Hardware Distribution List	20
3. Encryption Equipment	22
3.1 Stand Alone Frame Encryptors.....	22
3.2 Encryptor Distribution List	23
4. Networking & Communications	25
4.1 Frame Relay Access Devices	25
4.1.1 Main Routers.....	25
4.1.2 Branch Routers	25
4.2 Firewalls	26
4.2.1 Main Firewalls	26
4.2.2 Branch Firewalls.....	26

4.3	Ethernet Switches.....	27
4.4	Uninterruptible Power Supplies	27
4.5	Networking & Communications Distribution List	28
5.	Application Software.....	30
5.1	PSD Applications	30
5.1.1	Vehicle Information Database	30
5.1.2	Driver Information Database	30
5.2	JOIF Applications	30
5.2.1	Insurance Policy Issue Module	30
5.2.1.a	Vehicles Registered in Jordan	30
5.2.1.b	Vehicles To Registered in Jordan	31
5.2.1.c	Foreign Vehicles	31
5.2.2	Accidents & Claims Module	31
5.2.3	Reporting Module	31
5.2.3.a	Periodic Operational Reports.....	32
5.2.3.b	Periodic Financial Reports.....	32
5.2.4	Electronic Payment Processing.....	32
5.2.5	Security And Tacking Module	32
6.	System Software	33
6.1	Client Interface.....	33
6.2	Development Platform	33
6.3	Database	33
6.4	Operating Systems	33
7.	Terms & Conditions	34
7.1	General Terms & Conditions	34
7.1.1	Submittal Date, Time & Location	34
7.1.2	Validity	34
7.1.3	Questions And Clarifications.....	34
7.1.4	Language & Copies	34
7.1.5	Authorized Signatory.....	35
7.1.6	Acceptance Of Bids	35
7.1.7	Response Cover Letter	35
7.2	Financial Terms And Conditions	36
7.2.1	Prices And Currency	36
7.2.2	Bid Bond	36
7.2.3	Performance Bond	36
7.2.4	Advance Payment Bond.....	36
7.2.5	Warranty And Maintenance Bond	37
7.2.6	Sales Tax	37
7.2.7	Payment Terms	37
7.2.7.a	Standard Payment Terms	37
7.2.7.b	Alternative Payment Terms	38
7.2.8	Warranty Period	38
7.2.9	Annual Support Charges.....	38
7.3	Project Execution And Technical Conditions	39
7.3.1	Completeness Of Proposed Solution.....	39

7.3.2	Technical Support	39
7.3.3	Options.....	39
7.3.4	Obsolescence	39
7.3.5	Intellectual Property Rights	39
7.3.6	Viruses.....	40
7.3.7	Project Plan.....	40
7.4	Proposal Evaluation Criteria	40
7.4.1	Points System.....	40
7.4.2	Evaluation Procedure	41
7.5	Bid Bond Format.....	42
7.6	Performance Bond Format.....	43
7.7	Advance Payment Bond Format	44
7.8	Warranty And Maintenance Bond Format	45
7.9	Response Cover Letter Format	46
8.	Pricing Tables	47
8.1	Managed Frame Relay Service Pricing.....	47
8.1.1	Phase (I) Pricing	47
8.1.1.a	Phase (I) – One Time Setup Charges	47
8.1.1.b	Phase (I) – Annual Recurring Charges	50
8.1.2	Phase (II) Pricing	53
8.1.2.a	Phase (II) – One Time Setup Charges.....	53
8.1.2.b	Phase (II) – Annual Recurring Charges.....	53
8.1.3	Phase (III) Pricing.....	53
8.2	Hardware Pricing	54
8.3	Frame Encryptors Pricing.....	55
8.4	Networking & Communications Pricing.....	56
8.5	Applications Software Pricing	57
8.6	System Software Pricing	58
9.	Network Diagrams	59
9.1	JOIF Main Site	59
9.2	JOIF Branch / Border Sites	60
9.3	PSD Main Site	61
9.4	PSD Branch Sites.....	62
9.5	Insurance Company Sites	63

Executive Summary

The Jordan Insurance Federation (JOIF) seeks to fully automate and enhance the issue, tracking and claims of third party mandatory motor insurance policies through the implementation of a Nationwide Electronic Motor Insurance System (NEMIS). The project includes the following specializations:

- Install, Manage & Support Nationwide Frame Relay Network
- Supply, Install & Support Servers, PCs and Printers
- Supply, Install & Support Encryption Equipment
- Supply, Install & Support LAN Equipment
- Supply, Install & Support System SW (RDMS, OS, etc)
- Design, Develop & Maintain Web Enabled Applications SW

The primary stakeholders of NEMIS are:

- The Jordan Insurance Federation (JOIF)
- The Public Security Department
- Insurance Companies in Jordan

Secondary stakeholders include

- The Insurance Commission
- The Ministry Of Finance
- Banks In Jordan

JOIF initiated a prequalification procedure for interested ICT products and services companies within the various specializations in December 2003 and successful candidates were subsequently informed of their respective results.

Pre-qualified candidates will receive a copy of his document which outlines the various products and services required to implement NEMIS.

A radical improvement in the quality and type of services is expected. Automating operations on a centralized basis will be achieved by developing an integrated set of applications covering all relevant current functions and services. Enhanced services will be of particular benefit to all stakeholders including relevant government departments and ministries, insurance companies operating in Jordan, tourists and visitors as well as the general public as a whole.

The successful implementation of NEMIS will have the following effects:

- Provide speedy, accurate and convenient access to information.
- Improve JOIF operational efficiency, planning and introduce more controls.
- Improve the financial standing of insurance companies by reducing motor insurance fraud and implementing the "Points System" for premium calculations.
- Raise awareness and instill responsible driving habits in the general public by adopting the "Points System" as a basis for premium calculations.
- Timely introduction of new services.

For practical purposes, the project will be implemented in three phases as follows:

- Phase (I) JOIF Head Office, Branches, Offices
PSD (DVLC Departments), DVLC Sections
Insurance Companies (Head Offices)

- Phase (II) JOIF Offices At Border Crossings
Ministry Of Finance - Customs Department

- Phase (III) Insurance Commission,
Ministry Of Finance - Sales Tax Department
Ministry Of Finance - Stamps
Banks In Jordan

NEMIS is expected to be implemented within six (6) months of contract(s) signature.

While JOIF has already obtained PSD's **preliminary and conditional** conceptual approval, all link specifications, locations, information exchange services and functionality pertaining to PSD are still subject to their final approval. A formal agreement to this effect is expected to be signed between JOIF and PSD in due course.

1. Managed Frame Relay WAN

1.1 General Requirements

NEMIS requirements for the Managed FR Wide Area Network are as follows:

Availability & Support

A modern digital network with high availability is required. A high quality service including technical support, account manager, centralized network management, 24 x 7 monitoring, quick response in fault handling and service level commitments is required.

Nationwide Coverage

The Managed Frame Relay network nodes are required on a nationwide basis for the specified locations.

Reliability & Transparency

Standard technologies (ATM & Frame Relay) adopted worldwide shall be deployed. Transmission shall be transparent regardless of content data, voice or images on same link.

Scalability & Flexibility

Various bandwidth access capacities shall be made available. Adding Permanent Virtual Circuits (PVCs) in multi-directions without additional leased lines or additional equipment shall also be possible.

Productivity

Full network management services are required.

Multiple PVC Support

Multiple PVC support is required. Details will be made available during implementation.

1.2 Phase (I)

The following entities were selected for implementation during Phase (I):

- JOIF Head Office, Branches, Offices
- Public Security Department (DVLC Centers & Sections)
- Insurance Companies (Head Offices)

Phase (I) includes a total of sixty five (65) nationwide locations distributed as follows:

1.2.1 Jordan Insurance Federation

The Jordan Insurance Federation operates out of various locations distributed nationwide. All listed JTC Exchange information should be subject to verification:

1.2.1.a JOIF Head Office

JOIF's Head Office is located in the Shmeisani area of Amman, opposite the Royal Cultural Center. This building will serve as the main center of operations.

#	Designation	Location	JTC Exchange
1	JOIF Head Office	Amman – Shmeisani	Abdali

1.2.1.b JOIF Offices In PSD Licensing Centers

JOIF also has eighteen (18) offices located in or adjacent to all Drivers & Vehicles Licensing Centers and Sections (DVLCs) operated by the Public Security Department (PSD).

#	Designation	Location	JTC Exchange
2	Marka	Marka DVLC	Marka
3	Al-Hizam	Al-Hizam DVLC	Marka
4	South Amman – Sahab	Sahab DVLC	Sahab
5	Amman Customs	Queismeh	Ashrafieh
6	Salt	Salt DVLC	Salt
7	Madaba	Madaba DVLC	Madaba
8	Zarqa	Zarqa DVLC	Zarqa Central
9	Mafrag	Mafrag DVLC	Mafrag
10	Jerash	Jerash DVLC	Jerash
11	Irbid	Irbid DVLC	Aidon
12	Karak	Karak DVLC	Thanieh Karak
13	Tafileh	Tafileh DVLC	Tafileh
14	Maan	Maan DVLC	Maan
15	Ajloun	Ajloun DVLC	Ajloun
16	Aqaba	Aqaba DVLC	Aqaba
17	Zarqa Free Zone	Zarqa Free Zone	Zarqa Free Zone
18	Ramtha	Next To Ramtha DVLC	Ramtha
19	Irbid – West	West Irbid DVLC	Irbid Shamali

1.2.2 Public Security Department

There are twenty one (21) Departments/Sections of the Public Security Department (PSD) of direct relevance to NEMIS. All listed JTC Exchange information should be subject to verification:

1.2.2.a PSD Main Departments

#	Designation	Location	JTC Exchange
20	Main DLC Department	Marka	Marka
21	Main VLC Department	Marka	Marka
22	Traffic Department	Mahatta	Mahatta
23	Highway Patrol Department	Jubeiha	Jubeiha

1.2.2.b PSD DVLC Sections

#	Designation	Location	JTC Exchange
24	Al-Hizam DVLC	Hizam	Marka
25	South Amman – Sahab DVLC	Sahab	Sahab
26	Amman Customs VLC	Quweismeh	Ashrafieh
27	Salt DVLC	Salt	Salt
28	Madaba DVLC	Madaba	Madaba
29	Zarqa DVLC	Zarqa	Zarqa Central
30	Mafrag DVLC	Mafrag	Mafrag
31	Jerash DVLC	Jerash	Jerash
32	Irbid DVLC	Irbid	Aidon
33	Karak DVLC	Karak	Thanieh Karak
34	Tafileh DVLC	Tafileh	Tafileh
35	Maan DVLC	Maan	Maan
36	Ajloun DVLC	Ajloun	Ajloun
37	Aqaba DVLC	Aqaba	Aqaba
38	Zarqa Free Zone VLC	Zarqa Free Zone	Zarqa Free Zone
39	Ramtha DVLC	Ramtha	Ramtha
40	Irbid West DVLC	Irbid	Irbid Shamali

1.2.3 Insurance Companies

A total of twenty six (26) insurance companies are currently licensed to operate in Jordan. The geographic distribution of their Head Offices is as follows. All listed JTC Exchange information should be subject to verification:

#	Name Of Company	Head Office Location	JTC Exchange
41	Jordan Insurance	Amman – Jabal Amman	Amman Cent.
42	Middle East Insurance	Amman – Jabal Amman	Tla Al Ali
43	National Ahlia Insurance	Amman - Shmeisani	Abdali
44	United Insurance	Amman- Downtown	Amman Cent.
45	Arabian Seas Insurance	Amman - Abdali	Amman Cent.
46	Arab General Insurance	Amman – Jabal Amman	Amman Cent.
47	Jerusalem Insurance	Amman - Shmeisani	Abdali

48	Arab Eagle Insurance	Amman - Abdali	Abdali
49	Jordan French Insurance	Amman – Shmeisani	Abdali
50	Arab Int. Union Insurance	Amman - Shmeisani	Abdali
51	Delta Insurance	Amman – Jabal Amman	Amman Cent.
52	Oasis Insurance	Amman - Shmeisani	Abdali
53	Yarmouk Insurance	Amman - Rabia	Tla Al Ali
54	Holy Land Insurance	Amman – Jabal Al-Hussein	Abdali
55	Arab Life & Accident Insurance	Amman - Shmeisani	Abdali
56	Philadelphia Insurance	Amman – Jabal Al-Hussein	Abdali
57	American Life Insurance	Amman – Jabal Amman	Abdoun
58	Jordan International Insurance	Amman – Jabal Amman	Amman Cent.
59	Arab German Insurance	Amman – Jabal Amman	Amman Cent.
60	Euro Arab Insurance	Amman - Shmeisani	Tla Al Ali
61	Islamic Insurance	Amman - Gardens	Abdali
62	Arab Insurers	Amman - Shmeisani	Abdali
63	Arab American Insurance	Amman - Abdoun	Abdoun
64	Arab Jordanian Insurance Group	Amman - Rabia	Tla Al Ali
65	Arab Orient Insurance	Amman - Abdali	Abdali
66	Jerasa Insurance	Amman – Jabal Amman	Amman Cent.

At this stage, only the Head Offices of the listed Insurance Companies will be connected. Connectivity to the branches of insurance companies, if any, will be dealt internally by each company respectively.

1.2.4 Links & Bandwidth

1.2.4.a JOIF Locations

#	Office	Location	# Of Links	CIR/Burst
1	JOIF - Head Office	Amman – Shmeisani	3	E1
2	JOIF - Marka	Marka DVLC	1	64/128 kbps
3	JOIF - Al-Hizam	Al-Hizam DVLC	1	64/128 kbps
4	JOIF - South Amman /Sahab	Sahab DVLC	1	64/128 kbps
5	JOIF - Amman Customs	Queismeh	1	64/128 kbps
6	JOIF – Salt	Salt DVLC	1	64/128 kbps
7	JOIF – Madaba	Madaba DVLC	1	64/128 kbps
8	JOIF – Zarqa	Zarqa DVLC	1	64/128 kbps
9	JOIF – Mafraq	Mafraq DVLC	1	64/128 kbps
10	JOIF – Jerash	Jerash DVLC	1	64/128 kbps
11	JOIF – Irbid	Irbid DVLC	1	64/128 kbps
12	JOIF – Karak	Karak DVLC	1	64/128 kbps
13	JOIF – Tafileh	Tafileh DVLC	1	64/128 kbps
14	JOIF – Maan	Maan DVLC	1	64/128 kbps
15	JOIF – Ajloun	Ajloun DVLC	1	64/128 kbps
16	JOIF - Aqaba	Aqaba DVLC	1	64/128 kbps
17	JOIF - Zarqa Free Zone	Zarqa Free Zone	1	64/128 kbps
18	JOIF – Ramtha	Ramtha DVLC	1	64/128 kbps
19	JOIF - Irbid West	West Irbid DVLC	1	64/128 kbps

1.2.4.b PSD Locations

#	Department / Section	Location	# Of Links	CIR/Burst
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20	PSD - Main DLC Dept.	Marka	1	E1
21	PSD - Main VLC Dept.	Marka	1	E1
22	PSD - Traffic Dept.	Mahatta	1	64/128 kbps
23	PSD - Highway Patrol Dept.	Jubeiha	1	64/128 kbps
24	PSD - Al-Hizam	Hizam	1	64/128 kbps
25	PSD - South Amman / Sahab	Sahab	1	64/128 kbps
26	PSD - Amman Customs	Quweismeh	1	64/128 kbps
27	PSD – Salt	Salt	1	64/128 kbps
28	PSD – Madaba	Madaba	1	64/128 kbps
29	PSD – Zarqa	Zarqa	1	64/128 kbps
30	PSD – Mafrag	Mafrag	1	64/128 kbps
31	PSD – Jerash	Jerash	1	64/128 kbps
32	PSD – Irbid	Irbid	1	64/128 kbps
33	PSD – Karak	Karak	1	64/128 kbps
34	PSD – Tafileh	Tafileh	1	64/128 kbps
35	PSD – Maan	Maan	1	64/128 kbps
36	PSD – Ajloun	Ajloun	1	64/128 kbps
37	PSD - Aqaba	Aqaba	1	64/128 kbps
38	PSD - Zarqa Free Zone	Zarqa Free Zone	1	64/128 kbps
39	PSD – Ramtha	Ramtha	1	64/128 kbps
40	PSD - Irbid – West	Irbid	1	64/128 kbps

1.2.4.c Insurance Companies Locations

#	Insurance Company	Location	# Of Links	CIR/Burst
41	Jordan Ins.	Amman - J. Amman	1	64/128 kbps
42	Middle East Ins.	Amman - J. Amman	1	64/128 kbps
43	National Ahlia Ins.	Amman - Shmeisani	1	64/128 kbps
44	United Ins.	Amman - Downtown	1	64/128 kbps
45	Arabian Seas Ins.	Amman - Abdali	1	64/128 kbps
46	Arab General Ins.	Amman - J. Amman	1	64/128 kbps
47	Jerusalem Ins.	Amman - Shmeisani	1	64/128 kbps
48	Arab Eagle Ins.	Amman - Abdali	1	64/128 kbps
49	Jordan French Ins.	Amman - Shmeisani	1	64/128 kbps
50	Arab International Union Ins.	Amman - Shmeisani	1	64/128 kbps
51	Delta Ins.	Amman - J. Amman	1	64/128 kbps
52	Oasis Ins.	Amman - Shmeisani	1	64/128 kbps
53	Yarmouk Ins.	Amman - Rabia	1	64/128 kbps
54	Holy Land Ins.	Amman - J. Al-Hussein	1	64/128 kbps
55	Arab Life & Accident Ins.	Amman - Shmeisani	1	64/128 kbps
56	Philadelphia Ins.	Amman - J. Al-Hussein	1	64/128 kbps
57	American Life Ins.	Amman - J. Amman	1	64/128 kbps
58	Jordan International Ins.	Amman - J. Amman	1	64/128 kbps
59	Arab German Ins.	Amman - J. Amman	1	64/128 kbps
60	Euro Arab Ins.	Amman - Shmeisani	1	64/128 kbps
61	Islamic Ins.	Amman - Gardens	1	64/128 kbps
62	Arab Insurers	Amman - Shmeisani	1	64/128 kbps
63	Arab American Ins.	Amman - Abdoun	1	64/128 kbps
64	Arab Jordanian Ins.	Amman - Rabia	1	64/128 kbps
65	Arab Orient Ins.	Amman - Abdali	1	64/128 kbps
66	Jerasa Ins.	Amman - J. Amman	1	64/128 kbps

1.3 Phase (II)

The following entities were selected for implementation during Phase (II):

- Ministry Of Finance / Customs Department – Amman Head Office
- JOIF Branches And Offices At Border Crossings

Phase (II) includes a total of eleven (11) nationwide locations distributed as follows:

1.3.1 Ministry Of Finance / Customs Department

This office is situated at the Ministry Of Finance/Customs Department in Amman.

#	Designation	Location	JTC Exchange
67	Ministry Of Finance	Customs Department	Amman Cent.

1.3.2 JOIF Offices / Border Crossings

JOIF has a presence at all land/sea border crossings in the Kingdom totaling ten (10) locations. These will be implemented in Phase (II):

#	Designation	Location	JTC Exchange
68	Al-Durra	Durra Border	
69	Aqaba Passenger Terminal	Aqaba Port	Aqaba
70	Wadi Araba	Wadi Araba Border	
71	Jordan Valley	Sheikh Hussein Bridge	
72	Jaber	Jaber Border	
73	Karameh	Karameh Border	
74	Omari	Omari Border	
75	Mudawarra	Mudawarra Border	
76	Ramtha	Ramtha Border	
77	Aqaba Customs	Aqaba Port	Aqaba

1.3.3 Links & Bandwidth

#	Name	Location	# Of Links	CIR/Burst
67	MoF / Customs Department	Amman	1	64/128 kbps
68	Al-Durra	Durra Border	1	64/128 kbps
69	Aqaba Passenger Terminal	Aqaba Port	1	64/128 kbps
70	Wadi Araba	Wadi Araba Border	1	64/128 kbps
71	Jordan Valley	Sheikh Hussein Bridge	1	64/128 kbps
72	Jaber	Jaber Border	1	64/128 kbps
73	Karameh	Karameh Border	1	64/128 kbps
74	Omari	Omari Border	1	64/128 kbps
75	Mudawarra	Mudawarra Border	1	64/128 kbps
76	Ramtha	Ramtha Border	1	64/128 kbps
77	Aqaba Customs	Aqaba Port	1	64/128 kbps

1.4 Phase (III)

The third and final phase of implementation will cover a number of external entities that will benefit from NEMIS. They are as follows:

1.4.1 The Insurance Commission

#	Name Of Entity	Head Office Location	JTC Exchange
78	Insurance Commission	Amman – Shmeisani	Abdali

1.4.2 Ministry Of Finance

#	Name Of Entity	Head Office Location	JTC Exchange
79	Ministry Of Finance – Sales Tax	Amman – Jabal Amman	
80	Ministry Of Finance - Stamps	Amman- Downtown	

1.4.3 Banks In Jordan

#	Name Of Entity	Head Office Location	JTC Exchange
81	Banks In Jordan	To Be Defined	To Be Defined

1.4.4 Links & Bandwidth

The following requirements for Phase (III) are preliminary. Exact locations and connectivity speeds will be defined in due course.

#	Name Of Entity	Location	# Of Links	CIR/Burst
78	Insurance Commission	Amman - Shmeisani	1	64/128 kbps
79	MoF / Sales Tax	Amman - J. Amman	1	64/128 kbps
80	MoF / Stamps	Amman - Downtown	1	64/128 kbps
81	Banks In Jordan	To Be Defined	20	64/128 kbps

2. Hardware Requirements

2.1 Main Server Configurations

Server configurations with the following minimum specifications are required. Numbers and installation locations are listed in the section marked "[2.5 Hardware Distribution List](#)":

2.1.1 Servers

		Required Server Specs
1	CPU	
	Type	4 x Intel Zeon MP
	Speed	2.8 GHz
	FSB	400 MHz
	Technology	Hyper-threading
	Processor Upgrade	None
2	Memory	
	Capacity	4 GB DDR SD RAM
	L2 Cache	512 KB Integrated
	L3 Cache	2 MB Integrated
	Expansion	Up to 16 GB
3	Disk Storage	
	Controller	Dual Channel Ultra3 SCSI RAID Smart Array Support
	Hard Disks	4 x 144 GB / 15000 RPM
		Hot Swap
	CD- ROM	48 x Drive
	FD	3.5" 1.44 MB
4	Interfaces	
	Serial	1
	Parallel	1
	USB	2
	Mouse	1
	Keyboard	1
	RJ 45	1
5	Networking	
	Ethernet	Integrated Gigabit Wake On LAN
6	Multimedia	
	Audio	-
	Speakers	-
	Graphics Card	SVGA ATI Rage 8 MB
	Monitor	17" LCD Colour Flat Panel
7	Peripherals	
	Keyboard	Standard A/L PS-2
	Mouse	PS-2 , 2 Button + Pad
8	Case & Power	
	Rating	2 x 600 Watt Hot Swap
	Form Factor	Tower
	Colour	Matching Set

	Voltage	Universal 100-240 VAC
	Frequency	Universal 50 -60 Hz
	Cooling	Power Supply, Processor & Chassis Fans
9	Software	
	OS	Multiple OS Support
	Setup Utility	CD-ROM Installation & Configuration
	Diagnostics	Software & LED Map
	Security	Power On, Administrator Passwords
		Lockable Front Door
		Un-attended Boot
		Selectable Boot

2.1.2 RAID Storage

An external Storage Array with the following specifications is required with each server configuration:

		Specifications
1	Storage Capacity	
	Maximum	1440 GB
2	RAID Support	
	RAID 1,0	Yes
	RAID 5	Yes
3	Disk Drives	
	Number Of Drives	> 10
	Drive Speed	> 10k RPM
	Drive Capacity	144 GB
4	Controller	
	Type	Wide Ultra 3 SCSI
	Redundancy	Dual Active
	Memory	64 MB Each
5	Power Supply	
	Type	Universal
	Redundancy	Dual Hot Swap
6	Reliability	
	MBTF	> 200,000 Hours @ 100% Duty
	Error Detection	Reed Solomon

2.1.3 Backup Devices

An external Tape Drive with the following specifications is required with each server configuration:

		Specifications
1	Storage Capacity	
	Uncompressed	200 GB
2	Transfer Rates	
	Sustained	30 MB/s Uncompressed
	Burst	160 MB/s
3	Data Access Times	
	From BOT	< 75 Seconds
	Load To BOT	< 20 Seconds
	Unload From BOT	< 15 Seconds
	Rewind Time From EOT	< 90 seconds
	Rewind Speed	> 7 m/s
4	Memory Buffer	
	Capacity	64 MB
5	Interface	
	Type	Wide Ultra 3 SCSI
	Connector	68 Pin HD-LVDS
6	Reliability	
	MBTF	> 200,000 Hours @ 100% Duty
	Error Detection	Reed Solomon

2.2 Personal Computers

PCs with the following minimum specifications are required. Numbers and installation locations are listed in the section marked "[2.5 Hardware Distribution List](#)":

		Required PC Specs
1	CPU	
	Type	Intel Pentium 4
	Speed	3.0 GHz
	FSB	800 MHz
2	Memory	
	Standard	Intel 845G
	Capacity	512 MB DDR SD RAM
	L2 Cache	512 KB Integrated
3	Disk Storage	
	Expansion	-
	Controller	SMART III UATA/100
	HD Capacity	40GB / 7200 RPM
4	Interfaces	
	CD- ROM	48x CD ROM Drive
	FD	3.5" 1.44 MB
	Parallel	1
	Serial	1
	USB	4
	Mouse	1
5	Networking	
	Keyboard	1
6	Multimedia	
	LAN Card	Integrated Gigabit Ethernet
	Audio	Integrated Intel Audio
	Speakers	Internal Stereo
7	Peripherals	
	Graphics Card	Integrated Intel (845) 32MB
	Monitor	17" Flat Panel Colour LCD
	Keyboard	Standard A/L PS-2
8	Power Supply	
	Mouse	PS-2 , 2 Button + Pad
	Rating	240 Watts
	Case	Desktop
	Colour	Matching Set
	Voltage	Universal 100-240 VAC
	Frequency	Universal 50 -60 Hz
9	Software	
	Cooling	VS Power Fans
	OS	Windows XP Pro SP1 - Arabic Enabled
	Applications	None
	Setup Utility	ROM Based
	Diagnostics	For Windows XP
	Passwords	Power On, Setup, Port Enable

2.3 Notebook Computers

Notebook computers with the following minimum specifications are required. Numbers and installation locations are listed in the section marked "[2.5 Hardware Distribution List](#)":

		Required Notebook Specs
1	CPU	
	Type	Intel Pentium 4
	Speed	2.8 GHz
	FSB	800 MHz
	Standard	Intel 845G
2	Memory	
	Capacity	512 MB DDR SD RAM
	L2 Cache	512 KB Integrated
	Expansion	-
3	Disk Storage	
	Controller	SMART III UATA/100
	HD Capacity	40GB / 7200 RPM
	CD- ROM	48x DVD-CD RW Combo Drive
	FD	3.5" 1.44 MB
4	Interfaces	
	Parallel	1
	Serial	1
	USB	1
	Mouse	1
	Keyboard	1
	Audio	1
	External Monitor	1
	RJ 45	1
	RJ11	1
5	Networking	
	LAN Card	Integrated 10/100 Ethernet
6	Multimedia	
	Audio	Integrated Intel Audio
	Speakers	Internal Stereo
	Graphics Card	Integrated Intel (845) 32MB
	Monitor	15" Flat Panel Colour LCD
7	Peripherals	
	Keyboard	Standard A/L PS-2
	Mouse	PS-2 , 2 Button + Pad
8	Power Supply	
	Rating	90 Watts
	Voltage	Universal 100-240 VAC
	Frequency	Universal 50 -60 Hz
	Cooling	Power Fan
9	Software	
	OS	Windows XP Pro SP1 - Arabic Enabled
	Applications	None
	Setup Utility	ROM Based
	Diagnostics	For Windows XP
	Passwords	Power On, Setup, Port Enable

2.4 Printers

2.4.1 Network Printers

Two (2) Network Printers are required. They will be installed at JOIF Head Office.

		Network Printer Specifications
1	Technology	
	Type	Laser BW
	Resolution	Up to 1200 dpi
	Paper Size	A3/A4
	Paper Type	Standard Sheets + Env.
	Print Speed	20-30 ppm
2	Memory	
	RAM Capacity	32 MB
4	Interfaces	
	USB	1
	Infrared	1
5	Networking	
	LAN Card	Ethernet
9	Software	
	OS Use	For Windows Server
	Applictations	Installation CD
		Fonts
		Diagnostics

2.4.2 Personal Printers

Personal Printers with the following minimum specifications are required. Numbers and installation locations are listed in the section marked "[2.5 Hardware Distribution List](#)":

		Printer Specifications
1	Technology	
	Type	Laser BW
	Resolution	Up to 1200 dpi
	Paper Size	A4
	Paper Type	Standard Sheets + Env.
	Print Speed	8-12 ppm
2	Memory	
	RAM Capacity	8 MB
4	Interfaces	
	USB	1
	Infrared	1
5	Networking	
	LAN Card	-
9	Software	
	OS Use	For Windows XP
	Applictations	Installation CD
		Fonts
		Diagnostics

2.5 Hardware Distribution List

For JOIF locations, hardware will be distributed and installed as follows:

#	JOIF Locations	Servers	PCs	Notebooks	Printers
1	JOIF - Head Office	2	2	3	2 x Network
2	JOIF - Marka	0	10	0	10 x Branch
3	JOIF - Al-Hizam	0	3	0	3 x Branch
4	JOIF - South Amman /Sahab	0	3	0	3 x Branch
5	JOIF - Amman Customs	0	2	0	2 x Branch
6	JOIF – Salt	0	3	0	3 x Branch
7	JOIF – Madaba	0	2	0	2 x Branch
8	JOIF – Zarqa	0	3	0	3 x Branch
9	JOIF – Mafrag	0	2	0	2 x Branch
10	JOIF – Jerash	0	2	0	2 x Branch
11	JOIF – Irbid	0	4	0	4 x Branch
12	JOIF – Karak	0	2	0	2 x Branch
13	JOIF – Tafileh	0	2	0	2 x Branch
14	JOIF – Maan	0	2	0	2 x Branch
15	JOIF – Ajloun	0	2	0	2 x Branch
16	JOIF – Aqaba	0	2	0	2 x Branch
17	JOIF - Zarqa Free Zone	0	2	0	2 x Branch
18	JOIF – Ramtha	0	2	0	2 x Branch
19	JOIF - Irbid West	0	2	0	2 x Branch
	Totals	2	52	3	52

For PSD locations, hardware will be distributed and installed as follows:

#	PSD Locations	Servers	PCs	Notebooks	Printers
20	PSD - Main DLC Dept.	1	1	0	1 x Network
21	PSD - Main VLC Dept.	0	1	0	1 x Branch
22	PSD - Traffic Dept.	0	1	0	1 x Branch
23	PSD - Highway Patrol Dept.	0	1	0	1 x Branch
24	PSD - Al-Hizam	0	1	0	1 x Branch
25	PSD - South Amman / Sahab	0	1	0	1 x Branch
26	PSD - Amman Customs	0	1	0	1 x Branch
27	PSD – Salt	0	1	0	1 x Branch
28	PSD – Madaba	0	1	0	1 x Branch
29	PSD – Zarqa	0	1	0	1 x Branch
30	PSD – Mafrag	0	1	0	1 x Branch
31	PSD – Jerash	0	1	0	1 x Branch
32	PSD – Irbid	0	1	0	1 x Branch
33	PSD – Karak	0	1	0	1 x Branch
34	PSD – Tafileh	0	1	0	1 x Branch
35	PSD – Maan	0	1	0	1 x Branch
36	PSD – Ajloun	0	1	0	1 x Branch
37	PSD - Aqaba	0	1	0	1 x Branch
38	PSD - Zarqa Free Zone	0	1	0	1 x Branch
39	PSD – Ramtha	0	1	0	1 x Branch
40	PSD - Irbid – West	0	1	0	1 x Branch
	Totals	1	21	0	21

For Insurance Company locations, hardware will be distributed and installed as follows:

#	Insurance Company	Servers	PCs	Notebooks	Printers
41	Jordan Ins.	0	1	0	1 x Branch
42	Middle East Ins.	0	1	0	1 x Branch
43	National Ahlia Ins.	0	1	0	1 x Branch
44	United Ins.	0	1	0	1 x Branch
45	Arabian Seas Ins.	0	1	0	1 x Branch
46	Arab General Ins.	0	1	0	1 x Branch
47	Jerusalem Ins.	0	1	0	1 x Branch
48	Arab Eagle Ins.	0	1	0	1 x Branch
49	Jordan French Ins.	0	1	0	1 x Branch
50	Arab International Union Ins.	0	1	0	1 x Branch
51	Delta Ins.	0	1	0	1 x Branch
52	Oasis Ins.	0	1	0	1 x Branch
53	Yarmouk Ins.	0	1	0	1 x Branch
54	Holy Land Ins.	0	1	0	1 x Branch
55	Arab Life & Accident Ins.	0	1	0	1 x Branch
56	Philadelphia Ins.	0	1	0	1 x Branch
57	American Life Ins.	0	1	0	1 x Branch
58	Jordan International Ins.	0	1	0	1 x Branch
59	Arab German Ins.	0	1	0	1 x Branch
60	Euro Arab Ins.	0	1	0	1 x Branch
61	Islamic Ins.	0	1	0	1 x Branch
62	Arab Insurers	0	1	0	1 x Branch
63	Arab American Ins.	0	1	0	1 x Branch
64	Arab Jordanian Ins.	0	1	0	1 x Branch
65	Arab Orient Ins.	0	1	0	1 x Branch
66	Jerasa Ins.	0	1	0	1 x Branch
	Totals	0	26	0	26

For Borders & Crossings locations, hardware will be distributed and installed as follows:

#	Borders	Servers	PCs	Notebooks	Printers
67	MoF / Customs Department	0	1	0	1 x Branch
68	Al-Durra	0	2	0	2 x Branch
69	Aqaba Passenger Terminal	0	1	0	1 x Branch
70	Wadi Araba	0	1	0	1 x Branch
71	Jordan Valley	0	1	0	1 x Branch
72	Jaber	0	3	0	3 x Branch
73	Karameh	0	3	0	3 x Branch
74	Omari	0	4	0	4 x Branch
75	Mudawarra	0	2	0	2 x Branch
76	Ramtha	0	1	0	1 x Branch
77	Aqaba Customs	0	2	2	2 x Branch
	Totals	0	21	2	21

3. Encryption Equipment

3.1 Stand Alone Frame Encryptors

Stand alone Frame Encryptors with the following minimum specifications and features are required. Software encryption functionality in routers will not be considered. Numbers and installation locations are listed in the section marked "[3.2 Encryptor Distribution List](#)":

General Features

- Security management software.
- Multiple encryption keys for different virtual circuits.
- Tamper proof, tamper resistant construction.
- Filtering of unauthorized sources.
- Operationally transparent.

Technical Specifications

- Two models supporting (Branch / 256 kbps) and (Main / 2 Mbps) full duplex speeds.
- DES and TDES algorithms.
- Automatic Diffie-Hellman public key management.
- Multiple PVC support.
- Digital Certificates and Signatures for authentication.
- V.35, X.21, Ethernet and RS-232 interfaces.
- SNMP based management.
- Multiple clock speeds.
- Auto ranging universal power supply.

3.2 Encryptor Distribution List

For JOIF locations, FR Encryptors will be distributed and installed as follows:

#	JOIF Locations	E1 FR Encryptor	256k FR Encryptor
1	JOIF - Head Office	3	0
2	JOIF - Marka	0	1
3	JOIF - Al-Hizam	0	1
4	JOIF - South Amman /Sahab	0	1
5	JOIF - Amman Customs	0	1
6	JOIF – Salt	0	1
7	JOIF – Madaba	0	1
8	JOIF – Zarqa	0	1
9	JOIF – Mafraq	0	1
10	JOIF – Jerash	0	1
11	JOIF – Irbid	0	1
12	JOIF – Karak	0	1
13	JOIF – Tafileh	0	1
14	JOIF – Maan	0	1
15	JOIF – Ajloun	0	1
16	JOIF – Aqaba	0	1
17	JOIF - Zarqa Free Zone	0	1
18	JOIF – Ramtha	0	1
19	JOIF - Irbid West	0	1
	Totals	3	18

For PSD locations, FR Encryptors will be distributed and installed as follows:

#	PSD Locations	E1 Encryptors	256k Encryptors
20	PSD - Main DLC Dept.	2	0
21	PSD - Main VLC Dept.	0	0
22	PSD - Traffic Dept.	0	1
23	PSD - Highway Patrol Dept.	0	1
24	PSD - Al-Hizam	0	1
25	PSD - South Amman / Sahab	0	1
26	PSD - Amman Customs	0	1
27	PSD – Salt	0	1
28	PSD – Madaba	0	1
29	PSD – Zarqa	0	1
30	PSD – Mafraq	0	1
31	PSD – Jerash	0	1
32	PSD – Irbid	0	1
33	PSD – Karak	0	1
34	PSD – Tafileh	0	1
35	PSD – Maan	0	1
36	PSD – Ajloun	0	1
37	PSD - Aqaba	0	1
38	PSD - Zarqa Free Zone	0	1
39	PSD – Ramtha	0	1
40	PSD - Irbid – West	0	1
	Totals	2	19

For Insurance Company locations, FR Encryptors will be distributed and installed as follows:

#	Insurance Company	E1 Encryptors	256k Encryptors
41	Jordan Ins.	0	1
42	Middle East Ins.	0	1
43	National Ahlia Ins.	0	1
44	United Ins.	0	1
45	Arabian Seas Ins.	0	1
46	Arab General Ins.	0	1
47	Jerusalem Ins.	0	1
48	Arab Eagle Ins.	0	1
49	Jordan French Ins.	0	1
50	Arab International Union Ins.	0	1
51	Delta Ins.	0	1
52	Oasis Ins.	0	1
53	Yarmouk Ins.	0	1
54	Holy Land Ins.	0	1
55	Arab Life & Accident Ins.	0	1
56	Philadelphia Ins.	0	1
57	American Life Ins.	0	1
58	Jordan International Ins.	0	1
59	Arab German Ins.	0	1
60	Euro Arab Ins.	0	1
61	Islamic Ins.	0	1
62	Arab Insurers	0	1
63	Arab American Ins.	0	1
64	Arab Jordanian Ins.	0	1
65	Arab Orient Ins.	0	1
66	Jerasa Ins.	0	1
	Totals	0	26

For Borders & Crossings locations, FR Encryptors will be distributed and installed as follows:

#	Borders	E1 Encryptors	256k Encryptors
67	MoF / Customs Department	0	1
68	Al-Durra	0	1
69	Aqaba Passenger Terminal	0	1
70	Wadi Araba	0	1
71	Jordan Valley	0	1
72	Jaber	0	1
73	Karameh	0	1
74	Omari	0	1
75	Mudawarra	0	1
76	Ramtha	0	1
77	Aqaba Customs	0	1
	Totals	0	11

4. Networking & Communications

4.1 Frame Relay Access Devices

Two types of routers are required. The first type will be installed in the main JOIF and PSD sites, while the second type will be installed in the various branches and offices. The following minimum specifications and features are required. Numbers and installation locations are listed in the section marked "[4.5 Networking & Communications Distribution List](#)":

4.1.1 Main Routers

General Features

- Multi service router for integrated FR packet data and voice.
- VoIP and VoFR capability with voice compression algorithms.
- Menu driven management software.
- Flexible and modular platform and desktop design.

Technical Specifications

- 1 x 10/100 Auto-sensing Ethernet port.
- 1 x Universal Serial port with SW selectable interface.
- 1 x RS-232c management port.
- 1 x RS-232c serial port (300 – 115 kbps)
- 2 x High Speed serial ports (up to E1)
- Expandable by adding daughter cards.
- 32 MB DRAM and 4 MB non volatile Flash memory.
- Auto ranging universal power supply.

4.1.2 Branch Routers

General Features

- Multi service router for integrated FR packet data and voice.
- VoIP and VoFR capability with voice compression algorithms.
- Menu driven management software.
- Flexible and modular platform and desktop design.

Technical Specifications

- 1 x 10/100 Auto-sensing Ethernet port.
- 1 x Universal Serial port with SW selectable interface.
- 1 x RS-232c management port.
- Expandable by adding daughter cards.
- Minimum 16 MB DRAM and 4 MB non volatile Flash memory..
- Auto ranging universal power supply.

4.2 Firewalls

Two types of firewalls (Main & Branch) with the following minimum specifications and features are required. Numbers and installation locations are listed in the section marked "[4.5 Networking & Communications Distribution List](#)":

4.2.1 Main Firewalls

General Features

- Easy setup and installation.
- Transparent Operation.
- Multiple certification authority support
- Dos, DDos, Malformed & Malicious Packet Protection
- Zone Configurable Firewall Attack Protection
- Policy Based Central Management

Technical Specifications

- Minimum of 100,000 concurrent sessions and 10,000 new sessions per second.
- 70+ Policies
- Minimum 500 Mbps firewall performance
- 8 x 10/100 Base T Configurable Interfaces

4.2.2 Branch Firewalls

General Features

- Easy setup and installation.
- Transparent Operation.
- Multiple certification authority support
- Dos, DDos, Malformed & Malicious Packet Protection
- Zone Configurable Firewall Attack Protection
- Policy Based Central Management

Technical Specifications

- Minimum 1500 concurrent sessions and 1500 new sessions/second.
- 3000+ Policies
- Minimum 50 Mbps Firewall Performance
- 1 x 10/100 Base T Un-trusted Interface
- 4 x 10/100 Base T Trusted Interface

4.3 Ethernet Switches

Standard, stand alone Ethernet switches with the following minimum specifications and features are required. Numbers and installation locations are listed in the section marked "[4.5 Networking & Communications Distribution List](#)":

- 10/100 Mbps Auto-sensing
- 16 Ports
- LED Status Panel
- Universal Power Supply

4.4 Uninterruptible Power Supplies

Two capacities of UPS equipment with the following minimum specifications and features are required. Numbers and installation locations are listed in the section marked "[4.5 Networking & Communications Distribution List](#)":

		10 KVA Unit	2 KVA Unit
1	Rating		
	KVA Rating	10 KVA	2 KVA
	Power Factor	0.8	0.8
2	Design		
	True On Line	Yes	Yes
	Precise Sine Wave	Yes	Yes
3	Input		
	Voltage	220 VAC \pm 15%	220 VAC
	Phase	AC Single Phase	AC Single Phase
	Frequency	50 Hz \pm 5%	50 Hz \pm 5%
4	Output		
	Voltage	220 VAC \pm 3%	220 VAC \pm 3%
	Phase	AC Single Phase	AC Single Phase
	Frequency	50 Hz \pm 1% Locked	50 Hz \pm 1% Locked
		50 Hz \pm 0.05 % Locked	50 Hz \pm 0.05 % Locked
5	Distortion		
	Linear Load	Less Than 3% THD	Less Than 3% THD
6	Batteries		
	Type	Sealed Lead Acid	Sealed Lead Acid
	Autonomy	10 Minutes Full Load	10 Minutes Full Load
7	Interface		
	Indicators	Full Set	Full Set
	Network Interface	Ethernet	Ethernet
	Software	Full Control	Full Control

4.5 Networking & Communications Distribution List

For JOIF locations, Comms & Networking equipment will be distributed and installed as follows:

#	JOIF Locations	Routers	Firewall	Switch	UPS
1	JOIF - Head Office	3 x Main	1 x Main	1	2 x 10 KVA
2	JOIF - Marka	1 x Branch	1 x Branch	1	1 x 2 KVA
3	JOIF - Al-Hizam	1 x Branch	1 x Branch	1	1 x 2 KVA
4	JOIF - South Amman /Sahab	1 x Branch	1 x Branch	1	1 x 2 KVA
5	JOIF - Amman Customs	1 x Branch	1 x Branch	1	1 x 2 KVA
6	JOIF – Salt	1 x Branch	1 x Branch	1	1 x 2 KVA
7	JOIF – Madaba	1 x Branch	1 x Branch	1	1 x 2 KVA
8	JOIF – Zarqa	1 x Branch	1 x Branch	1	1 x 2 KVA
9	JOIF – Mafrag	1 x Branch	1 x Branch	1	1 x 2 KVA
10	JOIF – Jerash	1 x Branch	1 x Branch	1	1 x 2 KVA
11	JOIF – Irbid	1 x Branch	1 x Branch	1	1 x 2 KVA
12	JOIF – Karak	1 x Branch	1 x Branch	1	1 x 2 KVA
13	JOIF – Tafileh	1 x Branch	1 x Branch	1	1 x 2 KVA
14	JOIF – Maan	1 x Branch	1 x Branch	1	1 x 2 KVA
15	JOIF – Ajloun	1 x Branch	1 x Branch	1	1 x 2 KVA
16	JOIF – Aqaba	1 x Branch	1 x Branch	1	1 x 2 KVA
17	JOIF - Zarqa Free Zone	1 x Branch	1 x Branch	1	1 x 2 KVA
18	JOIF – Ramtha	1 x Branch	1 x Branch	1	1 x 2 KVA
19	JOIF - Irbid West	1 x Branch	1 x Branch	1	1 x 2 KVA
	Totals	21	19	19	20

For PSD locations, Communications & Networking equipment will be distributed and installed as follows:

#	PSD Locations	Routers	Firewalls	Ethernet	UPS
20	PSD - Main DLC Dept.	2 x Main	1 x Main	1	0
21	PSD - Main VLC Dept.	0	0	0	0
22	PSD - Traffic Dept.	1 x Branch	1 x Branch	1	0
23	PSD - Highway Patrol Dept.	1 x Branch	1 x Branch	1	0
24	PSD - Al-Hizam	1 x Branch	1 x Branch	1	0
25	PSD - South Amman / Sahab	1 x Branch	1 x Branch	1	0
26	PSD - Amman Customs	1 x Branch	1 x Branch	1	0
27	PSD – Salt	1 x Branch	1 x Branch	1	0
28	PSD – Madaba	1 x Branch	1 x Branch	1	0
29	PSD – Zarqa	1 x Branch	1 x Branch	1	0
30	PSD – Mafrag	1 x Branch	1 x Branch	1	0
31	PSD – Jerash	1 x Branch	1 x Branch	1	0
32	PSD – Irbid	1 x Branch	1 x Branch	1	0
33	PSD – Karak	1 x Branch	1 x Branch	1	0
34	PSD – Tafileh	1 x Branch	1 x Branch	1	0
35	PSD – Maan	1 x Branch	1 x Branch	1	0
36	PSD – Ajloun	1 x Branch	1 x Branch	1	0
37	PSD - Aqaba	1 x Branch	1 x Branch	1	0
38	PSD - Zarqa Free Zone	1 x Branch	1 x Branch	1	0
39	PSD – Ramtha	1 x Branch	1 x Branch	1	0
40	PSD - Irbid – West	1 x Branch	1 x Branch	1	0
	Totals	21	20	20	0

For Insurance Company locations, Comms & Networking equipment will be distributed and installed as follows:

#	Insurance Company	Routers	Firewalls	Ethernet	UPS
41	Jordan Ins.	1 x Branch	1 x Branch	1	0
42	Middle East Ins.	1 x Branch	1 x Branch	1	0
43	National Ahlia Ins.	1 x Branch	1 x Branch	1	0
44	United Ins.	1 x Branch	1 x Branch	1	0
45	Arabian Seas Ins.	1 x Branch	1 x Branch	1	0
46	Arab General Ins.	1 x Branch	1 x Branch	1	0
47	Jerusalem Ins.	1 x Branch	1 x Branch	1	0
48	Arab Eagle Ins.	1 x Branch	1 x Branch	1	0
49	Jordan French Ins.	1 x Branch	1 x Branch	1	0
50	Arab International Union Ins.	1 x Branch	1 x Branch	1	0
51	Delta Ins.	1 x Branch	1 x Branch	1	0
52	Oasis Ins.	1 x Branch	1 x Branch	1	0
53	Yarmouk Ins.	1 x Branch	1 x Branch	1	0
54	Holy Land Ins.	1 x Branch	1 x Branch	1	0
55	Arab Life & Accident Ins.	1 x Branch	1 x Branch	1	0
56	Philadelphia Ins.	1 x Branch	1 x Branch	1	0
57	American Life Ins.	1 x Branch	1 x Branch	1	0
58	Jordan International Ins.	1 x Branch	1 x Branch	1	0
59	Arab German Ins.	1 x Branch	1 x Branch	1	0
60	Euro Arab Ins.	1 x Branch	1 x Branch	1	0
61	Islamic Ins.	1 x Branch	1 x Branch	1	0
62	Arab Insurers	1 x Branch	1 x Branch	1	0
63	Arab American Ins.	1 x Branch	1 x Branch	1	0
64	Arab Jordanian Ins.	1 x Branch	1 x Branch	1	0
65	Arab Orient Ins.	1 x Branch	1 x Branch	1	0
66	Jerasa Ins.	1 x Branch	1 x Branch	1	0
	Totals	26	26	26	0

For Borders & Crossings locations, Comms & Networking equipment will be distributed and installed as follows:

#	Borders	Routers	Firewalls	Ethernet	UPS
67	MoF / Customs Department	1 x Branch	0	0	0
68	Al-Durra	1 x Branch	1 x Branch	1	1 x 2 KVA
69	Aqaba Passenger Terminal	1 x Branch	1 x Branch	1	1 x 2 KVA
70	Wadi Araba	1 x Branch	1 x Branch	1	1 x 2 KVA
71	Jordan Valley	1 x Branch	1 x Branch	1	1 x 2 KVA
72	Jaber	1 x Branch	1 x Branch	1	1 x 2 KVA
73	Karameh	1 x Branch	1 x Branch	1	1 x 2 KVA
74	Omari	1 x Branch	1 x Branch	1	1 x 2 KVA
75	Mudawarrah	1 x Branch	1 x Branch	1	1 x 2 KVA
76	Ramtha	1 x Branch	1 x Branch	1	1 x 2 KVA
77	Aqaba Customs	1 x Branch	1 x Branch	1	1 x 2 KVA
	Totals	11	10	10	

5. Application Software

5.1 PSD Applications

The bulk of PSD side applications are related to the merge and on-line update of their Vehicle and Driver information currently distributed on various PSD servers in Licensing Centers nationwide. As a result, the following databases will be produced and continuously updated by PSD on a server dedicated to NEMIS at Main DVLC in Marka:

5.1.1 Vehicle Information Database

This will include all the standard information currently available on a typical Vehicle License & Registration document in addition to owner related information as required for issuing insurance policies.

5.1.2 Driver Information Database

This will include all the information currently available on a typical Driver's License in addition to Accumulated Points and Tickets related information as required for calculating insurance premiums.

Format, keys, indexing and cross- indexing for both databases will be identified during the software design phase.

PSD technical teams will undertake the development of all necessary merge and update applications on their side.

5.2 JOIF Applications

In terms of license plates and registration, the functionality of NEMIS will operate on information available at JOIF Main Server. In case such information is not readily available on JOIF Server, it will be requested from PSD Server and duplicated on JOIF Main Server.

5.2.1 Insurance Policy Issue Module

This module will differentiate between three types of vehicles:

5.2.1.a Vehicles Registered in Jordan

These are vehicles already carrying Jordanian number plates. The following functions are required:

- Retrieve Vehicle Information
- Retrieve Driver/Owner Information
- Calculate Insurance Premium & Set Insurance Company
- Calculate & Distribute Financial Allocations (Taxes, Stamps etc)
- Issue/Print Insurance Policy & Receipt

- Transmit Policy To PSD and Relevant Insurance Company Electronically.

At border crossings, the cross movement of such vehicles will also be registered:

- Register Vehicle Exit
- Register Vehicle Re-Entry

5.2.1.b Vehicles To Registered in Jordan

These are new vehicles that do not yet carry any number plates but will be issued Jordanian number plates for the first time. The following functions are required:

- Enter Vehicle Information
- Retrieve Driver/Owner Information
- Calculate Insurance Premium & Set Insurance Company
- Calculate & Distribute Financial Allocations (Premium, Taxes, Stamps etc)
- Issue/Print Insurance Policy & Receipt
- Transmit Policy To PSD and Relevant Insurance Company Electronically.

5.2.1.c Foreign Vehicles

The following functions are required upon entry into the country:

- Enter Vehicle Information
- Enter Driver/Owner Information
- Calculate Insurance Premium & Set Insurance Company
- Calculate & Distribute Financial Allocations (Premium, Taxes, Stamps etc)
- Print Insurance Policy & Payment Receipt
- Register Vehicle Entry Including Insurance Expiry Date
- Transmit Policy To PSD and Relevant Insurance Company Electronically.

The following functions are required upon exiting the country:

- Calculate Insurance Extension Fee if needed.
- Calculate & Distribute Financial Allocations (Premium, Taxes, Stamps etc)
- Print Payment Receipt
- Register Vehicle Border Exit

5.2.2 Accidents & Claims Module

This module will operate on all three types of vehicles identified above. The following functions are required:

- Register New Accident/Claim
- Check Claims History For Vehicle/Owner/Driver
- Register Claim Settlement
- Close Registered Accident/Claim

5.2.3 Reporting Module

A wide range of reporting and enquiry functions are required in accordance to various stakeholder requirements. All reports whether pre-defined or requested or generated shall be made available on-line for access by users in accordance to set privileges. The following list is just a sample:

5.2.3.a Periodic Operational Reports

- Operations Report
- Insurance Status – Foreign Vehicles
- Border Vehicle Movement Report
- Accidents And Claims

5.2.3.b Periodic Financial Reports

- Combined Financial Allocations
- General JOIF Income Statement
- Income Statement – Per Insurance Company
- Income Statement – Sales Tax
- Income Statement – Stamps
- Income Statement – Insurance Commission

Functionality to produce ad-hoc on demand reports will also be required.

5.2.4 Electronic Payment Processing

A Secure Payment Gateway to process and collect Insurance Premiums, Taxes and Stamp Duties will be required in Phase III.

The Payment Gateway is expected to provide the following functions:

- Process All Types Of Payments
- Transfer Allocations Electronically

JPIF will consider the option of outsourcing this functionality to prominent service providers in Jordan.

5.2.5 Security And Tacking Module

This module will control and monitor user access to NEMIS. The following basic functions are required as a minimum:

- Register New User
- Suspend Existing User
- Delete Existing User
- Set User Functions & Privileges
- Modify User Functions & Privileges
- Log Operations Performed By User (Time, Date, Location & Function Details)
- Review Operations Performed By User

Additional functionality as may be needed in order to prevent user abuse and misuse of information available on NEMIS will be defined in due course.

6. System Software

6.1 Client Interface

The client interface shall be standard Microsoft Browser based with bilingual text entry capability.

6.2 Development Platform

JOIF has not set a preference for any specific development platform or language. Standard SQL conformity and a modern state of the art tools are the only requirements. Licensing costs as well as locally available technical support and expertise will be taken into consideration during proposal evaluation stage.

6.3 Database

JOIF has not set a preference for any specific relational database management system (RDBMS). Licensing costs as well as locally available technical support and expertise will be taken into consideration during proposal evaluation stage.

6.4 Operating Systems

Operating system for JOIF and PSD servers shall be Windows Server 2000 or better.

Operating system for PCs shall be Windows XP Professional SP1 Arabic Enabled.

7. Terms & Conditions

This section is intended to provide guidance to interested bidders as well as the necessary information to prepare and submit their proposals. JOIF is prepared to answer any query submitted in writing by email regarding this document and its contents.

7.1 General Terms & Conditions

7.1.1 Submittal Date, Time & Location

Proposals should be submitted by hand delivery or by courier mail to:

The Jordan Insurance Federation
NEMIS Proposal
Attn: The Secretary General
P.O.Box 1990
Amman – 11118
JORDAN

not later than 16:00 p.m. on Thursday March 11th 2004. Any proposal received after the specified time and date will not be evaluated.

7.1.2 Validity

Proposals should be valid for (90) ninety days from date of submittal. Bidders are required to maintain their prices, bid bonds as well as key personnel assigned to various tasks in their bids for the duration of the validity period.

7.1.3 Questions And Clarifications

Questions regarding this RFP should be submitted by email to secretary_general@joif.com with a cc to compcons@wanadoo.jo not later than Thursday February 19th 2004.

Responses to all questions will be circulated by email by Thursday February 29th 2004.

7.1.4 Language & Copies

All proposals shall be in the English language. Proposals shall be submitted in three identical paper copies with relevant e-versions on CDs in MS-Word or Adobe PDF formats as follows:

- The original proposal in a single large sealed envelope clearly showing the bidders name and address and marked "**Original Proposal**" containing three smaller, separately sealed envelopes marked as follows:

- #1 Original Cover Letter & Original Bid Bond
- #2 Original Technical Proposal – with CD
- #3 Original Financial Proposal – with CD

- The first copy in a single large sealed envelope clearly showing the bidders name and address and marked “**First Copy Proposal**” containing three smaller, separately sealed envelopes marked as follows:
 - #1 First Copy Of Cover Letter
 - #2 First Copy Of Technical Proposal – with CD
 - #3 First Copy Of Financial Proposal – with CD

- The second copy in a single large sealed envelope clearly showing the bidders name and address and marked “**Second Copy Proposal**” containing three smaller, separately sealed envelopes marked as follows:
 - #1 Second Copy Of Cover Letter
 - #2 Second Copy Of Technical Proposal – with CD
 - #3 Second Copy Of Financial Proposal – with CD

7.1.5 Authorized Signatory

The original proposal must be signed and dated in ink by an authorized signatory of the bidder. By submitting the proposal, the bidder represents expressly that the relevant documentation has been read, understood and that the proposal complies with the specifications, terms and conditions.

7.1.6 Acceptance Of Bids

JOIF is under no obligation to accept the lowest priced bid. JOIF also reserves its right to disqualify any proposal that does not satisfy all of the RFP requirements without giving any reason for such action.

JOIF reserves its right to reconsider any bid and award parts of the RFP or reduce/increase set of the requested quantities (e.g. number of user licenses) without giving any reason.

JOIF is under no obligation to purchase the options stated in any proposal.

7.1.7 Response Cover Letter

Bidders are required to comply with the attached format of cover letter listed in [Section 7.9](#).

7.2 Financial Terms And Conditions

7.2.1 Prices And Currency

Prices should be clearly itemized and quoted in Jordan Dinars. Listing of lump sum prices unless otherwise requested will be considered as sufficient grounds for disqualification.

7.2.2 Bid Bond

Bidders are required to submit an unconditional Bid Bond in Jordan Dinars issued by a licensed bank in Jordan in favour of JOIF in the format listed in [Section 7.5](#).

The value of the Bid Bond should be equal or greater than (5%) of the bidder's total proposal price. The Bid Bond should remain valid, in full value, for (90) ninety days from the pre-set proposal submission date.

Bids Bonds shall be released and returned to the unsuccessful bidders upon final award of contract. In the case of the successful bidder, the Bid Bond shall be released and returned after:

- The conclusion of contractual negotiations, and
- Final agreement on the terms of contract is reached, and
- Upon presentation of the required Performance Bond

7.2.3 Performance Bond

The successful bidder will be required to submit an unconditional Performance Bond in Jordan Dinars issued by a licensed bank in Jordan in favour of JOIF in the format listed in [Section 7.6](#).

The value of the Performance Bond should be greater than or equal to (10%) of the total contract value. The Performance Bond should remain valid, in full value until:

- Final Acceptance of NEMIS by JOIF, and
- Presentation of the required Warranty and Maintenance Bond.

The Performance Bond will be used as a guarantee for the correct and proper execution of the Contract and to cover for any extra expenses that might be incurred by JOIF due to performance delays, incomplete execution, damages and/or penalties.

7.2.4 Advance Payment Bond

The successful bidder will be required to submit an unconditional Advance Payment Bond in Jordan Dinars issued by a licensed bank in Jordan in favour of JOIF in the format listed in [Section 7.7](#).

The value of the Advance Payment Bond should be equal to that of the agreed advance payment. The Advance Payment Bond should remain valid, in full value until:

- Final Acceptance of NEMIS by JOIF, and
- Presentation of the required Warranty Bond

The Advance Payment Bond will be used as a guarantee for the correct and proper execution of the Contract and to cover for any extra expenses that might be incurred by JOIF due to performance delays, incomplete execution, damages and/or penalties.

7.2.5 Warranty And Maintenance Bond

The successful bidder will be required to submit an unconditional Warranty and Maintenance Bond issued by a licensed bank in Jordan in favour of JOIF in the format listed in [Section 7.8](#).

The value of the Warranty And Maintenance Bond should be equal to (24) twenty-four months of Support and Warranty Charges. The Warranty Bond should remain valid, in full value until the expiry of the Warranty Period.

The Warranty And Maintenance bond will be released after (Two Years at the time of final handover).

The Warranty And Maintenance Bond will be used as a guarantee for the correct and proper execution of technical support and maintenance services and to cover for any extra expenses that might be incurred by JOIF due to performance delays, incomplete execution, damages and/or penalties.

7.2.6 Sales Tax

All prices for software and services should be inclusive of Sales Tax. This should be quoted clearly in a separate line item as specified in the [Pricing Tables](#).

If any taxes, levies, imposts or other charges including withholding taxes are required by Law to be withheld or deducted by JOIF, the bidder should fully and irrevocably authorize JOIF to make any such deductions.

7.2.7 Payment Terms

7.2.7.a Standard Payment Terms

The following payment terms shall apply:

- 15% of the total contract value due within one week of signature of contract subject to presentation of a valid and acceptable Performance Bond and Advance Payment Bond covering this payment.
- 15% of the total contract value due within one week of JOIF's formal approval on the Applications Software Functional & Technical Design.
- 25% of the total contract value after delivery and complete installation of all system components and delivery of original licenses to JOIF by the mother companies/ original owners for all components of the original software package and proof of official registration of JOIF as a client/user of the original software as delivered.

- 10% of the total contract value due within one week after successful completion of all training requirements as formally certified by JOIF.
- 20% of the total contract value due within one week of issue of Final Acceptance Certificate by JOIF subject to presentation of a valid and acceptable Warranty And Maintenance Bond.
- 15% of the total contract value due 90 days from final acceptance certificate.

7.2.7.b Alternative Payment Terms

JOIF are willing to discuss and alternative payment term calculated on a Transaction Fee Basis. In this case the successful bidder will be require to cover the complete cost of NEMIS for a five year period in return for fixed income rate levied on financially impacting transactions.

7.2.8 Warranty Period

Bidders are required to quote a minimum Warranty Period of (24) twenty-four months from the date of formal Final Acceptance of NEMIS by JOIF.

Proposals with a Warranty Period less than that specified above will be disqualified.

7.2.9 Annual Support Charges

Bidders are required to quote an Annual Maintenance And Support Charge either as a percentage or as a lump sum figure to be applied after the expiry of the Warranty Period.

Annual Maintenance And Support Charges should be applicable to all components to be supplied by the bidder including standard applications, customizations, development tools as well as any third party software that may be required for the proper operation of the system.

7.3 Project Execution And Technical Conditions

7.3.1 Completeness Of Proposed Solution

Bidders are required to propose a complete solution including any software like web server software, access security application, etc that may be needed for the proper operation of the system.

All proposed software should meet the requirements indicated in this specifications document and bidders shall be ready to provide live demonstration to prove the compliance of their solutions.

7.3.2 Technical Support

Bidders must be well established and have suitable, efficient and reliable resources as well as suitable presence in Jordan for maintenance and technical support services for the proposed solution.

7.3.3 Options

Bidders can submit a maximum of two options (one main and one option) in their proposals if necessary.

7.3.4 Obsolescence

The proposed systems shall be fully supported by the bidder and the mother company/owner and must have been formally announced for marketing purposes on or before the proposal submittal date.

The proposed systems should not be technically and/or functionally obsolete. The bidder should promptly notify the possible imminent obsolescence of the proposed system during the evaluation period.

JOIF reserves the right to contact the mother company/owner to acquire information concerning the status and relationship of the bidder with the mother company/owner as well as any technical information regarding the proposal.

7.3.5 Intellectual Property Rights

The successful bidder will be required to certify that:

- The licensed Software and associated materials do not infringe any intellectual property rights of any third party;
- There are no actual or threatened actions against the bidder arising from, or alleged under, any intellectual property rights of any third party;

7.3.6 Viruses

The successful bidder will be required to certify that the licensed Software and associated materials do not contain any surreptitious programming codes, viruses, Trojan Horses, “back doors” or any other means to facilitate or allow unauthorized remote or local access to NEMIS and JOIF proprietary information.

7.3.7 Project Plan

Bidders are required to submit a Sample Project Implementation Plan including timescales, start dates, end dates, resources and milestones for all major tasks with their proposals. The Sample Plan should be relevant to JOIF's project in particular.

Major task shall include (but are not limited to) the following:

- Requirement Survey, Data Collection & Functional Mapping
- Analysis & Design
- Functional Testing
- Installation
- Quality Assurance Testing
- Pre-Implementation Training, in detail.
- Implementation
- Post Implementation Training, in detail.

7.4 Proposal Evaluation Criteria

7.4.1 Points System

The following pointing system will be used for the evaluation process:

Technical Evaluation	70	Points
Financial Evaluation	30	Points
<u>Total</u>	<u>100</u>	<u>Points</u>

The breakdown of the Technical Points shall be as follows:

Experience	20	Points
Specifications	20	Points
Methodology	20	Points
Demo	10	Points
Key Staff	20	Points
Training	10	Points
<u>Total Technical</u>	<u>100</u>	<u>Points</u>

The breakdown of Financial Points shall be as follows:

Proposal Price	15	Points
Warranty Period	5	Points
Annual Support	10	Points
<u>Total Financial</u>	<u>30</u>	<u>Points</u>

In order to calculate and compile total points on a base of 100, the Total Technical Points for each proposal will be multiplied by a factor of 0.7.

7.4.2 Evaluation Procedure

The following two-stage procedure will be adopted in evaluating the submitted proposals:

STAGE 1 Technical Evaluation

- The technical proposals will be evaluated prior to any financial proposals being opened and analyzed. The technical evaluation criteria and the weight given to each criterion shall be as described above.
- JOIF upon advice from its Consultant will evaluate the technical proposals and Technical Ranking scores will be designated for each proposal.
- Proposals scoring total technical points of less than 70/100 shall be eliminated.
- Financial proposals shall remain sealed during this stage.

STAGE 2 Financial Evaluation

- Upon completing the technical evaluation, the financial proposals will be opened and evaluated for those proposals equaling or exceeding a total technical score of 70/100 points. The financial evaluation criteria and the weight given to each criterion shall be as described above.
- JOIF upon advice from its Consultant will evaluate the technical proposals and Financial Ranking scores will be designated for each qualified proposal.
- The Final Ranking will be established by adding the technical and the financial scores for qualified proposals.

7.5 Bid Bond Format

From the Guarantor to the Purchaser

*We, the undersigned (the bank), in order to allow.....(the bidding company) to submit a bid for (Nationwide Electronic Motor Insurance System), subject matter of (RFP dated.....), to **The Jordan Insurance Federation** hereby irrevocably, unconditionally and independently guarantee to pay **The Jordan Insurance Federation** without delay the amount of Jordan Dinars*

.....

Waiving all objections and defences by the (bidding company)

We shall effect payment under this guarantee on your first written demand, which must be accompanied by your confirmation that you have received and accepted the above-mentioned bid and that the(the bidding company) are either unwilling, unable or not prepared to abide by their bid.

This guarantee shall expire not later than, by which date we must have received any claims by letter or encoded telecommunication.

It is understood that you will return this guarantee to us on expiry or after settlement of the amount to be claimed hereunder.

Place,date

Guarantor

7.6 Performance Bond Format

From the Guarantor to the Purchaser

*We, the undersigned (the bank), in are informed that(the bidding company) has entered into a contract.....(reference and date) for the supply of a Nationwide Electronic Motor Insurance System to **The Jordan Insurance Federation** and in order to guarantee the performance of(the bidding company) under the said contract, we hereby irrevocably, unconditionally and independently guarantee to pay to **The Jordan Insurance Federation** without delay an amount not exceeding Jordan Dinars*

.....

Waiving all objections and defences by the (bidding company)

We shall effect payment under this guarantee on your first written demand, which must be accompanied by your confirmation, that the(the bidding company) are unwilling and/or unable and/or not prepared and/or failed to perform their obligations under the said contract.

This guarantee shall expire on, by which date we must have received any claims by letter or encoded telecommunication.

It is understood that you will return this guarantee to us on expiry or after settlement of the total amount to be claimed hereunder.

Place,date

Guarantor

7.7 Advance Payment Bond Format

From the Guarantor to the Purchaser

*We, the undersigned (the bank), in are informed that(the bidding company) has entered into a contract.....(reference and date) for the supply of a Nationwide Electronic Motor Insurance System to **The Jordan Insurance Federation** and in order to enable the(bidding company) to receive an advance payment under the said contract, we hereby irrevocably, unconditionally and independently guarantee to pay to **The Jordan Insurance Federation** without delay an amount not exceeding Jordan Dinars*

.....

Waiving all objections and defences by the (bidding company)

We shall effect payment under this guarantee on your first written demand, which must be accompanied by your confirmation that you have received and accepted the above-mentioned bid and that the(the bidding company) are either unwilling and/or unable and/or not prepared and/or failed to perform their obligations under the said contract.

This guarantee shall expire on, by which date we must have received any claims by letter or encoded telecommunication.

It is understood that you will return this guarantee to us on its expiry or after settlement of the amount to be claimed hereunder.

Place,date

Guarantor

7.8 Warranty And Maintenance Bond Format

From the Guarantor to the Purchaser

*We, the undersigned (the bank), in are informed that(the bidding company) has entered into a contract.....(reference and date) for the supply of a Nationwide Electronic Motor Insurance System to **The Jordan Insurance Federation** and that(the bidding company) has successfully completed all its obligations under the said contract and in order to enable the(bidding company) to receive the Final Payment under the said contract and enter into the Warranty Phase, we hereby irrevocably, unconditionally and independently guarantee to pay **The Jordan Insurance Federation** without delay an amount not exceeding Jordan Dinars*

.....

Waiving all objections and defences by the (bidding company)

We shall effect payment under this guarantee on your first written demand, which must be accompanied by your confirmation that you have accepted the above-mentioned Nationwide Electronic Motor Insurance System and that the(the bidding company) are either unwilling and/or unable and/or not prepared and/or failed to perform their technical support, maintenance and warranty services obligations under the said contract.

This guarantee shall expire on, by which date we must have received any claims by letter or encoded telecommunication.

It is understood that you will return this guarantee to us on its expiry or after settlement of the amount to be claimed hereunder.

Place,date

Guarantor

7.9 Response Cover Letter Format

*The Secretary Manager
Jordan Insurance Federation
Amman - Jordan*

Dear Sir,

We, the undersigned, offer to provide you with the products and services in accordance with your RFP (...ref ...dated.....) and our attached proposal. Our proposal, in its various sections, was prepared and sealed in separate envelopes in accordance with the terms and conditions of your RFP.

We have studied your RFP in detail and have developed a good understanding of your requirements. We also confirm that our company is capable of providing the required products and services in the specializations as pre-qualified by JOIF and in accordance with internationally accepted standards for such projects.

If negotiations are held during the validity period of our proposal, or during any other period as may be officially extended, we undertake to negotiate on the basis of our proposal and the proposed staff. Our proposal is binding upon us and subject to the modifications resulting from the negotiations process.

Yours Sincerely,

*Authorized Signature
Name & Title Of Signatory
Name Of Company
Address*

8. Pricing Tables

8.1 Managed Frame Relay Service Pricing

8.1.1 Phase (I) Pricing

8.1.1.a Phase (I) – One Time Setup Charges

TABLE 8.1 / Setup Charges - JOIF Locations

#	JOIF Locations	CIR/Burst kbps	Setup Cost (JD)	Sales Tax (JD)	Total (JD)
1	JOIF - Head Office	3 x E1			
2	JOIF - Marka	1 x 64/128			
3	JOIF – Al-Hizam	1 x 64/128			
4	JOIF - South Amman /Sahab	1 x 64/128			
5	JOIF - Amman Customs	1 x 64/128			
6	JOIF – Salt	1 x 64/128			
7	JOIF – Madaba	1 x 64/128			
8	JOIF – Zarqa	1 x 64/128			
9	JOIF – Mafrag	1 x 64/128			
10	JOIF – Jerash	1 x 64/128			
11	JOIF – Irbid	1 x 64/128			
12	JOIF – Karak	1 x 64/128			
13	JOIF – Tafleh	1 x 64/128			
14	JOIF – Maan	1 x 64/128			
15	JOIF – Ajloun	1 x 64/128			
16	JOIF - Aqaba	1 x 64/128			
17	JOIF - Zarqa Free Zone	1 x 64/128			
18	JOIF – Ramtha	1 x 64/128			
19	JOIF - Irbid West	1 x 64/128			
	Total Setup Charges (JD)				

TABLE 8.2 / Setup Charges - PSD Locations

#	PSD Locations	CIR/Burst kbps	Setup Cost (JD)	Sales Tax (JD)	Total (JD)
20	PSD – Main DLC Dept.	1 x E1			
21	PSD – Main VLC Dept.	1 x E1			
22	PSD - Traffic Dept.	1 x 64/128			
23	PSD - Highway Patrol Dept.	1 x 64/128			
24	PSD - Al-Hizam	1 x 64/128			
25	PSD - South Amman / Sahab	1 x 64/128			
26	PSD - Amman Customs	1 x 64/128			
27	PSD – Salt	1 x 64/128			
28	PSD – Madaba	1 x 64/128			
29	PSD – Zarqa	1 x 64/128			
30	PSD – Mafrag	1 x 64/128			
31	PSD – Jerash	1 x 64/128			
32	PSD – Irbid	1 x 64/128			
33	PSD – Karak	1 x 64/128			
34	PSD – Tafileh	1 x 64/128			
35	PSD – Maan	1 x 64/128			
36	PSD – Ajloun	1 x 64/128			
37	PSD - Aqaba	1 x 64/128			
38	PSD - Zarqa Free Zone	1 x 64/128			
39	PSD – Ramtha	1 x 64/128			
40	PSD – Irbid – West	1 x 64/128			
	Total Setup Charges (JD)				

TABLE 8.3 / Setup Charges – Insurance Co. Locations

#	Insurance Companies	CIR/Burst kbps	Setup Cost (JD)	Sales Tax (JD)	Total (JD)
41	Jordan Ins.	1 x 64/128			
42	Middle East Ins.	1 x 64/128			
43	National Ahlia Ins.	1 x 64/128			
44	United Ins.	1 x 64/128			
45	Arabian Seas Ins.	1 x 64/128			
46	Arab General Ins.	1 x 64/128			
47	Jerusalem Ins.	1 x 64/128			
48	Arab Eagle Ins.	1 x 64/128			
49	Jordan French Ins.	1 x 64/128			
50	Arab International Union Ins.	1 x 64/128			
51	Delta Ins.	1 x 64/128			
52	Oasis Ins.	1 x 64/128			
53	Yarmouk Ins.	1 x 64/128			
54	Holy Land Ins.	1 x 64/128			
55	Arab Life & Accident Ins.	1 x 64/128			
56	Philadelphia Ins.	1 x 64/128			
57	American Life Ins.	1 x 64/128			
58	Jordan International Ins.	1 x 64/128			
59	Arab German Ins.	1 x 64/128			
60	Euro Arab Ins.	1 x 64/128			
61	Islamic Ins.	1 x 64/128			
62	Arab Insurers	1 x 64/128			
63	Arab American Ins.	1 x 64/128			
64	Arab Jordanian Ins.	1 x 64/128			
65	Arab Orient Ins.	1 x 64/128			
66	Jerasa Ins.	1 x 64/128			
	Total Setup Charges (JD)				

8.1.1.b Phase (I) – Annual Recurring Charges

TABLE 8.4 / Annual Charges - JOIF Locations

#	JOIF Locations	CIR/Burst kbps	Setup Cost (JD)	Sales Tax (JD)	Total (JD)
1	JOIF - Head Office	3 x E1			
2	JOIF - Marka	1 x 64/128			
3	JOIF - Al-Hizam	1 x 64/128			
4	JOIF - South Amman /Sahab	1 x 64/128			
5	JOIF - Amman Customs	1 x 64/128			
6	JOIF – Salt	1 x 64/128			
7	JOIF – Madaba	1 x 64/128			
8	JOIF – Zarqa	1 x 64/128			
9	JOIF – Mafraq	1 x 64/128			
10	JOIF – Jerash	1 x 64/128			
11	JOIF – Irbid	1 x 64/128			
12	JOIF – Karak	1 x 64/128			
13	JOIF – Tafileh	1 x 64/128			
14	JOIF – Maan	1 x 64/128			
15	JOIF – Ajloun	1 x 64/128			
16	JOIF - Aqaba	1 x 64/128			
17	JOIF - Zarqa Free Zone	1 x 64/128			
18	JOIF – Ramtha	1 x 64/128			
19	JOIF – Irbid West	1 x 64/128			
	Total Annual Charges (JD)				

TABLE 8.5 / Annual Charges - PSD Locations

#	PSD Locations	CIR/Burst kbps	Setup Cost (JD)	Sales Tax (JD)	Total (JD)
20	PSD – Main DLC Dept.	1 x E1			
21	PSD – Main VLC Dept.	1 x E1			
22	PSD - Traffic Dept.	1 x 64/128			
23	PSD - Highway Patrol Dept.	1 x 64/128			
24	PSD – Al-Hizam	1 x 64/128			
25	PSD - South Amman / Sahab	1 x 64/128			
26	PSD - Amman Customs	1 x 64/128			
27	PSD – Salt	1 x 64/128			
28	PSD – Madaba	1 x 64/128			
29	PSD – Zarqa	1 x 64/128			
30	PSD – Mafrag	1 x 64/128			
31	PSD – Jerash	1 x 64/128			
32	PSD – Irbid	1 x 64/128			
33	PSD – Karak	1 x 64/128			
34	PSD – Tafleh	1 x 64/128			
35	PSD – Maan	1 x 64/128			
36	PSD – Ajloun	1 x 64/128			
37	PSD - Aqaba	1 x 64/128			
38	PSD - Zarqa Free Zone	1 x 64/128			
39	PSD – Ramtha	1 x 64/128			
40	PSD – Irbid – West	1 x 64/128			
	Total Annual Charges (JD)				

TABLE 8.6 / Annual Charges – Insurance Co. Locations

#	Insurance Companies	CIR/Burst kbps	Setup Cost (JD)	Sales Tax (JD)	Total (JD)
41	Jordan Ins.	1 x 64/128			
42	Middle East Ins.	1 x 64/128			
43	National Ahlia Ins.	1 x 64/128			
44	United Ins.	1 x 64/128			
45	Arabian Seas Ins.	1 x 64/128			
46	Arab General Ins.	1 x 64/128			
47	Jerusalem Ins.	1 x 64/128			
48	Arab Eagle Ins.	1 x 64/128			
49	Jordan French Ins.	1 x 64/128			
50	Arab International Union Ins.	1 x 64/128			
51	Delta Ins.	1 x 64/128			
52	Oasis Ins.	1 x 64/128			
53	Yarmouk Ins.	1 x 64/128			
54	Holy Land Ins.	1 x 64/128			
55	Arab Life & Accident Ins.	1 x 64/128			
56	Philadelphia Ins.	1 x 64/128			
57	American Life Ins.	1 x 64/128			
58	Jordan International Ins.	1 x 64/128			
59	Arab German Ins.	1 x 64/128			
60	Euro Arab Ins.	1 x 64/128			
61	Islamic Ins.	1 x 64/128			
62	Arab Insurers	1 x 64/128			
63	Arab American Ins.	1 x 64/128			
64	Arab Jordanian Ins.	1 x 64/128			
65	Arab Orient Ins.	1 x 64/128			
66	Jerasa Ins.	1 x 64/128			
	Total Annual Charges (JD)				

8.1.2 Phase (II) Pricing

8.1.2.a Phase (II) – One Time Setup Charges

TABLE 8.7 / Setup Charges - Borders Locations

#	Location	CIR/Burst kbps	Setup Cost (JD)	Sales Tax (JD)	Total (JD)
67	MoF/Customs Department	1 x 64/128			
68	Al-Durra	1 x 64/128			
69	Aqaba Passenger Terminal	1 x 64/128			
70	Wadi Araba	1 x 64/128			
71	Jordan Valley	1 x 64/128			
72	Jaber	1 x 64/128			
73	Karameh	1 x 64/128			
74	Omari	1 x 64/128			
75	Mudawarra	1 x 64/128			
76	Ramtha	1 x 64/128			
77	Aqaba Customs	1 x 64/128			
	Total Setup Charges (JD)				

8.1.2.b Phase (II) – Annual Recurring Charges

TABLE 8.8 / Annual Charges - Borders Locations

#	Location	CIR/Burst kbps	Annual Cost (JD)	Sales Tax (JD)	Total (JD)
67	MoF/Customs Department	1 x 64/128			
68	Al-Durra	1 x 64/128			
69	Aqaba Passenger Terminal	1 x 64/128			
70	Wadi Araba	1 x 64/128			
71	Jordan Valley	1 x 64/128			
72	Jaber	1 x 64/128			
73	Karameh	1 x 64/128			
74	Omari	1 x 64/128			
75	Mudawarra	1 x 64/128			
76	Ramtha	1 x 64/128			
77	Aqaba Customs	1 x 64/128			
	Total Annual Charges (JD)				

8.1.3 Phase (III) Pricing

At this stage, no pricing is required for this phase.

8.2 Hardware Pricing

TABLE 8.9 / JOIF Hardware Pricing

		QTY	Unit Cost (JD)	Sales Tax (JD)	Total (JD)
1	Servers	2			
2	RAID	2			
3	Backup Devices	2			
4	PCs	52			
5	Notebooks	3			
6	Network Printers	2			
7	Personal Printers	52			
	Total Hardware (JD)				

TABLE 8.10 / PSD Hardware Pricing

		QTY	Unit Cost (JD)	Sales Tax (JD)	Total (JD)
1	Servers	1			
2	RAID	1			
3	Backup Devices	1			
4	PCs	21			
5	Notebooks	0			
6	Printers	21			
	Total Hardware (JD)				

TABLE 8.11 / Insurance Companies Hardware Pricing

		QTY	Unit Cost (JD)	Sales Tax (JD)	Total (JD)
1	Servers	0			
2	RAID	0			
3	Backup Devices	0			
4	PCs	26			
5	Notebooks	0			
6	Printers	26			
	Total Hardware (JD)				

TABLE 8.12 / Borders Hardware Pricing

		QTY	Unit Cost (JD)	Sales Tax (JD)	Total (JD)
1	Servers	0			
2	RAID	0			
3	Backup Devices	0			
4	PCs	21			
5	Notebooks	2			
6	Printers	21			
	Total Hardware (JD)				

8.3 Frame Encryptors Pricing

TABLE 8.13 / JOIF Encryption Pricing

		QTY	Unit Cost (JD)	Sales Tax (JD)	Total (JD)
1	E1 Frame Encryptors	3			
2	256kbps Frame Encryptors	18			
3	Security Management SW	1			
4	Operating SW Licenses	21			
5	Other				
	Total Hardware (JD)				

TABLE 8.14 / PSD Encryption Pricing

		QTY	Unit Cost (JD)	Sales Tax (JD)	Total (JD)
1	E1 Frame Encryptors	2			
2	256kbps Frame Encryptors	19			
3	Security Management SW	0			
4	Operating SW Licenses	21			
5	Other				
	Total Hardware (JD)				

TABLE 8.15 / Insurance Companies Encryption Pricing

		QTY	Unit Cost (JD)	Sales Tax (JD)	Total (JD)
1	E1 Frame Encryptors	0			
2	256kbps Frame Encryptors	26			
3	Security Management SW	0			
4	Operating SW Licenses	26			
5	Other				
	Total Hardware (JD)				

TABLE 8.16 / Borders Encryption Pricing

		QTY	Unit Cost (JD)	Sales Tax (JD)	Total (JD)
1	E1 Frame Encryptors	0			
2	256kbps Frame Encryptors	11			
3	Security Management SW	0			
4	Operating SW License	11			
5	Other				
	Total Hardware (JD)				

8.4 Networking & Communications Pricing

TABLE 8.17 / JOIF Sites Pricing

		QTY	Unit Cost (JD)	Sales Tax (JD)	Total (JD)
1	Large Multi service Router	3			
2	Small Multi service Router	18			
3	Firewalls (Main)	1			
4	Firewalls (Branch)	18			
5	Ethernet Switches	19			
6	UPS 10 KVA	2			
7	UPS 2.0 KVA	18			
	Total Hardware (JD)				

TABLE 8.18 / PSD Sites Pricing

		QTY	Unit Cost (JD)	Sales Tax (JD)	Total (JD)
1	Large Multi service Router	1			
2	Small Multi service Router	20			
3	Firewalls (Main)	1			
4	Firewalls (Branch)	19			
5	Ethernet Switches	20			
6	UPS 10 KVA	0			
7	UPS 2.0 KVA	0			
	Total Hardware (JD)				

TABLE 8.19 / Insurance Companies Sites Pricing

		QTY	Unit Cost (JD)	Sales Tax (JD)	Total (JD)
1	Large Multi service Router	0			
2	Small Multi service Router	26			
3	Firewalls (Branch)	26			
4	Ethernet Switches	26			
5	UPS 10 KVA	0			
6	UPS 2.0 KVA	0			
	Total Hardware (JD)				

TABLE 8.20 / Borders Sites Pricing

		QTY	Unit Cost (JD)	Sales Tax (JD)	Total (JD)
1	Large Multi service Router	0			
2	Small Multi service Router	11			
3	Firewalls (Branch)	10			
4	Ethernet Switches	10			
5	UPS 10 KVA	0			
6	UPS 2.0 KVA	10			
	Total Hardware (JD)				

8.5 Applications Software Pricing

TABLE 8.21 / Applications Software Pricing

		QTY	Unit Cost (JD)	Sales Tax (JD)	Total (JD)
1	PSD Applications	N/A	N/A	N/A	N/A
2	Insurance Policy Issue Module				
3	Vehicle Tracking Module				
4	Payment Processing Module				
5	Reporting Module				
6	Security Module				
7					
8					
	Total Applications Software (JD)				

8.6 System Software Pricing

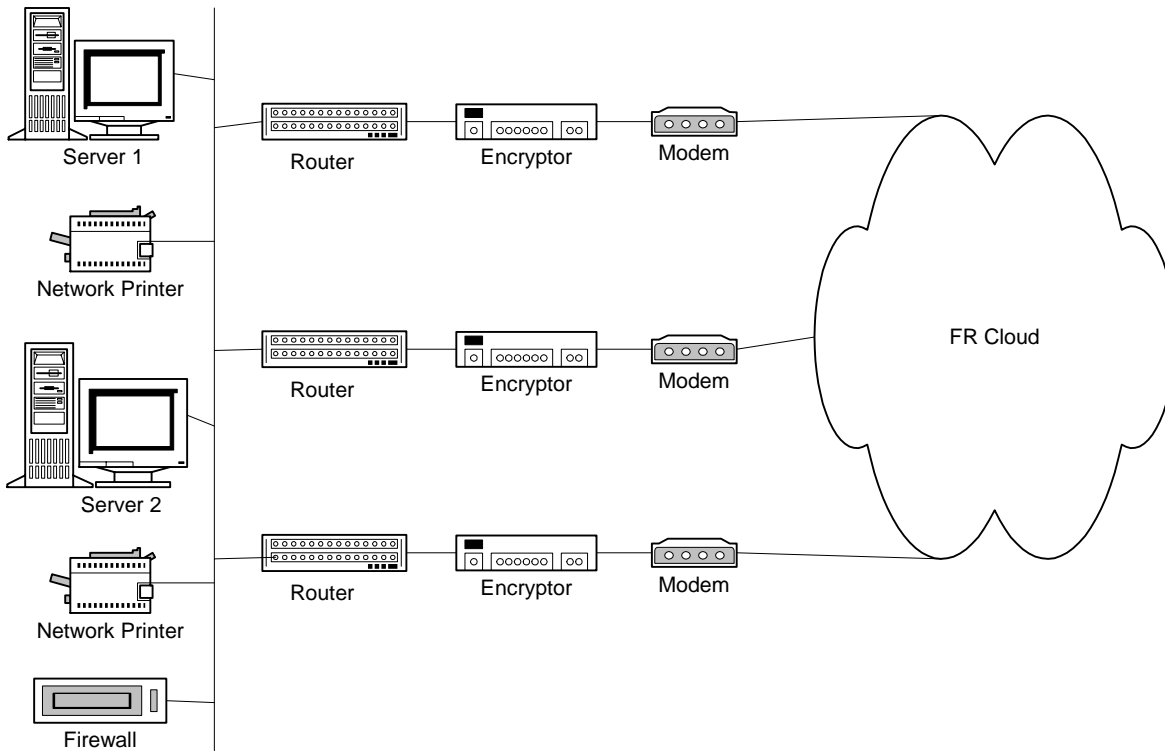
TABLE 8.22 / System Software Pricing

		QTY	Unit Cost (JD)	Sales Tax (JD)	Total (JD)
1	RDBMS Development Licenses				
2	Development Tools				
3	RDBMS User Licenses				
4	Windows Server 2000	3			
5	Windows Server 2000 Clients				
6	Windows XP Arabic Enabled SP1	Incl.	Incl.	Incl.	Incl.
7					
8					
	Total System Software (JD)				

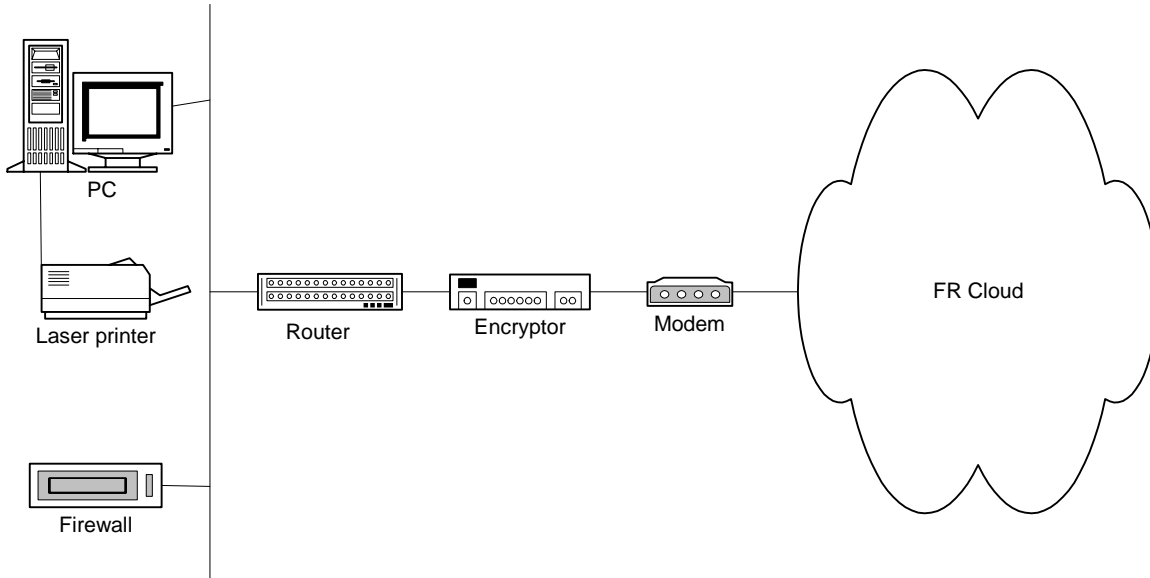
9. Network Diagrams

The following network diagrams are listed for clarification purposes only. Some JOIF branches and borders points will differ in terms of number of PCs and printers.

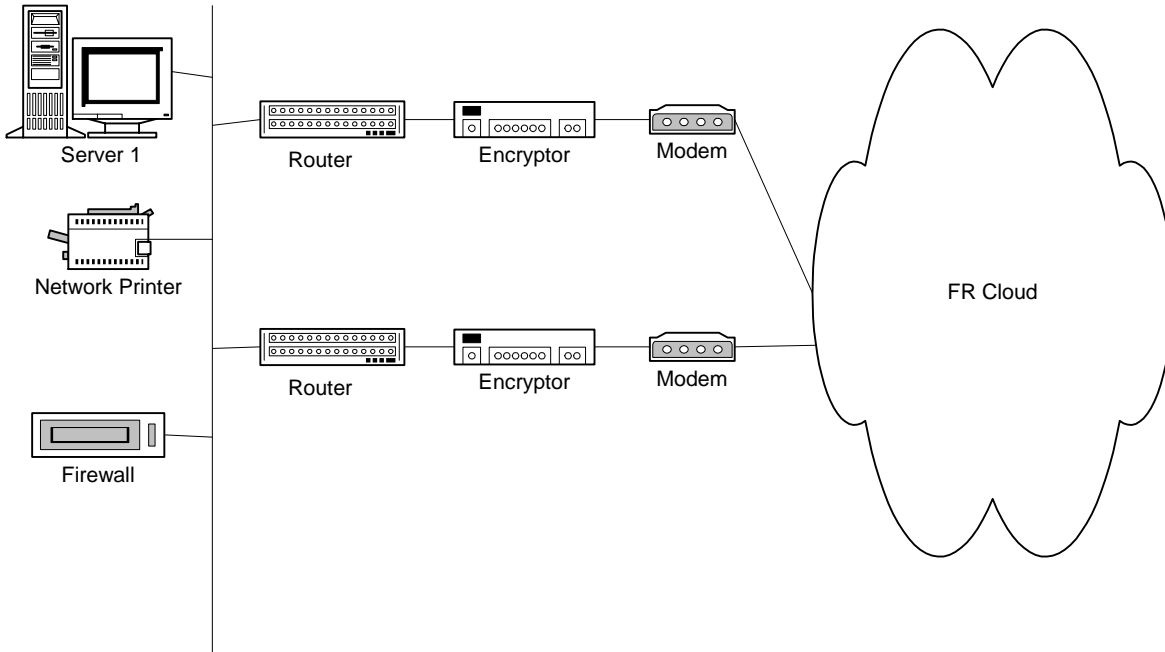
9.1 JOIF Main Site



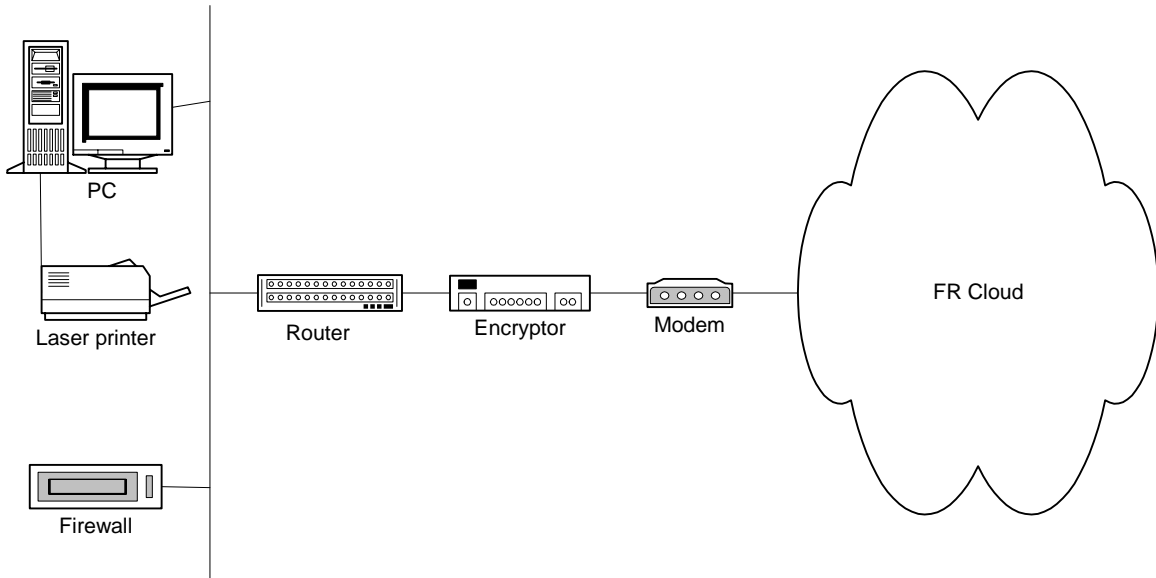
9.2 JOIF Branch / Border Sites



9.3 PSD Main Site



9.4 PSD Branch Sites



9.5 Insurance Company Sites

