Standard Summary Project Fiche – IPA centralised programmes
Project Fiche:

1. Basic information

1.1	CRIS Number:	2013/023-583
1.2	Title:	Strengthening the Capacities of Diplomatic-Consular Network of the Ministry of Foreign Affairs and European Integration
1.3	ELARG Statistical code:	01.24
1.4	Location:	Montenegro

Implementing arrangements:

1.5	Contracting Authority:	Delegation of the European Commission to Montenegro
1.6	Implementing Agency:	N/A

1.7 Beneficiary (including details of project manager):

Ministry of Foreign Affairs and European Integration
Stanka Dragojevica, 2
81000 Podgorica, Montenegro

IT Unit
Mr. Milan Kojicic, Head of the Unit
+382 67 892 534
E-mail: milan.kojicic@mfa.gov.me

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Financing:

1.8	Overall cost:	650,000 EUR
1.9	EU contribution:	500,000 EUR
1.10	Final date for contracting:	Three years from the date of the conclusion of the Financing Agreement
1.11	Final date for execution of contracts:	Two years from the final date for contracting
1.12	Final date for disbursements:	One year from the final date for execution of contracts.

2. Overall Objective and Project Purpose

2.1 Overall Objective:

Overall objective of the project is to strengthen the capacities of the Ministry of Foreign Affairs and European Integrations, particularly regarding efficient management of the foreign policies of Montenegro.

2.2 Project purpose:

Project purpose is *to facilitate the business processes within Montenegrin diplomatic-consular network and improve efficiency of the Ministry of Foreign Affairs and European Integrations by providing secured computer network.*

2.3 Link with AP/NPAA / EP/ SAA

The **European Partnership (EP)** in the section related to the Justice, freedom and security subsection Visa, border control, asylum and migration stress out the need to *develop institutional capacity in relation to visa policy and align visa policies with those of the EU.*

Stabilization and Association Agreement (SAA) in article 82 related to Visa, border management, asylum and migration defines that the Parties shall cooperate in the areas of visa, border control, asylum and migration and shall set up a framework for the cooperation, including at a regional level, in these fields, taking into account and making full use of other existing initiatives in this area as appropriate. Cooperation in the matters above shall be based on mutual consultations and close coordination between the Parties and should include technical and administrative assistance for:

(a) the exchange of information on legislation and practices;

(b) the drafting of legislation;

(c) enhancing the efficiency of the institutions;

(d) the training of staff;

(e) the security of travel documents and detection of false documents;

(f) border management.

Montenegro 2012 Progress Report for chapter 24 – Justice, freedom and security stresses that *there is not still no electronic link between the diplomatic and consular missions and the national visa system of the Ministry of Foreign Affairs and European Integration (MFAEI), nor is there a visa with security features*.

2.4 Link with Multi-Annual Indicative Planning Document (MIPD)

The project supports objectives of the MIPD (20011-2013) related to the Public Administration Reform and Justice and Home Affairs support area. Having in mind that visa issuing system is one of the key aspects in the area of justice and home affairs and that project purpose tackle the improving of efficiency of Ministry of Foreign Affairs and European Integration it directly links the project with public administration process.

2.5 Link with National Development Plan

N.A.

2.6 Link with national/ sectoral investment plans

N.A.

3. Description of project

The project will introduce new encrypted channel for exchange of information with embassies and other diplomatic missions of Montenegro. Once it is established overall security of all documents that are being exchanged through network of diplomatic missions will be improved. New encrypted channel for information exchange will enable introducing of IP based telephony as secure and cost effective way of voice communication between embassies and Ministry of Foreign Affairs and European Integrations. This means that both computer and voice data will be securely exchanged with central.

3.1 Background and justification:

After gaining independence Montenegro is facing growing need for intensive communication between the Ministry of Foreign Affairs and European Integration and the diplomatic and consular missions of Montenegro in the world, especially having in mind increasingly demanding challenges towards European and Euro-Atlantic integration.

Montenegro has developed diplomatic and consular network and working on its expansion. However, Montenegrin diplomats face serious security risks when establishing communication with the Ministry.

Ministry of Foreign Affairs and European Integration haven't got developed any information system, to provide fast and safe electronic communications for diplomatic network and electronic support to any of the business process in the embassies and consulates.

The current situation is such that there is no safe way of sharing information between central ministries and DCM's network. The connection is made via Internet, without any means of encryption. Voice communication to the Ministry is provided by regular telephone line or mobile operator without special protection. Equipment at the offices is from the various manufacturers, mostly obsolete without a unique anti-virus protection. In addition the Ministry of Foreign Affairs and European Integration haven't got developed any information system, consequently there is no proper server room or proper server infrastructure that could support any project.

Due to lack of funds, the Ministry of Foreign Affairs and European Integration was unable to provide an adequate system of encrypted communication between Ministry and DCM's that would be fully compatible with EU standards. Current process of electronic communications between Ministry and DCM is performed by internet without any encryption and does not meet the minimum standards. This lead to everyday security risk for data that are exchanged between Ministry and DCM:

- Attackers can intercept unencrypted data traveling over a network, not only impacting privacy but potentially opening the potential to modify or substitute data as a way to stage more sophisticated attacks.
- Because of the lack of the protection for data in motion, Ministry risk fines, embarrassing data breach, and resulting damage to its reputation.

Also, one of the core business processes in the DCM is issuing visas. The nature of the visa process imposes an obligation that all applicants' data are safely transferred and saved in a centralized database. This means development of a safe encrypted communication between the network of diplomatic and consular missions and headquarters of the Ministry in Montenegro. Once this secure encrypted network is implemented it will enable development of other IT systems within Ministry of Foreign Affairs and European Integrations, such is IT system for visa issuing.

Since the implementation of such information systems, that will protect sensitive data over untrusted network, is our obligation in the process of Euro-Atlantic integration, but also because their introduction optimizes business processes in ministry, the implementation of encrypted communication network project is recognized as one of the priority tasks of the Ministry of Foreign Affairs.

The implementation of an information system that would allow efficient, cost effective, and safe, encrypted electronic communication with headquarters is essential to the success of the mission Montenegrin diplomats and vital for our national interests. This communication channel for exchange of encrypted data is necessary to provide an adequate level of protection in accordance with the requirements of the EU and NATO, as well as the legislation of Montenegro in the field of information security and the protection of classified information.

Benefits of implementing system for data encryption between Ministry and DCM are:

- Secure processing, and transfer of data
- Reduction of network costs
- Integration of many different applications and services
- Simple commissioning in overseas diplomatic representations
- Handling of differently-classified documents
- Facilitates
    - data sharing,
    - secure remote access
    - conferencing capabilities
- Enables other IT project in the Ministry, such as IP telephony, IT system for Visa issuing etc.

Introduction of network encryption means that at each embassy location, a network encryptor is installed so that the traffic is encrypted/decrypted just as it enters or leaves the embassy. Ministry as central site also has one encryptor installed, so all communication between them is protected. This means that not only computer data, but also voice data could be safely transmitted through this network. This can be done by implementing IP telephony.

IP Telephony principally satisfies a simple need: Enabling the use of open standard LAN/WAN and distributed data networks for the transport of voice, replacing the use of traditional (and proprietary) telephone networks and equipment for that purpose. With IP Telephony, voice conversations are converted into packets of data and then transmitted over

data networks much in the same manner as e-mails or instant messages. Using standard Internet Protocol (IP) data networks and methods to transport all forms of information media – voice, data and video is more efficient. Benefits of IP Telephony implementation are:

- Lower voice networking costs
- Lower equipment administration costs
- Centralized network control and management
- Increased communications capabilities and productivity for remote employees
- Improves conferencing capabilities

3.2 Assessment of project impact, catalytic effect, sustainability and cross border impact

Implementation of the IT system of the Ministry of Foreign Affairs and European Integration will have **impact** on the optimization of the business processes in the diplomatic and consular missions of Montenegro. An efficient and secure exchange of data between consular offices and headquarters of the Ministry will lead to a faster response to the applicant's requests in the consular offices. The introduction of VoIP technology will enable better coordination between ministries and embassies. This will have **catalytic effect** in increasing of the volume of the exchanged information's between central of the Ministry and embassies and the consulates, and contribute to more efficient management of the foreign policies of Montenegro.

Sustainability of the project is reflected in the effort of the Ministry to optimize business processes and reduce costs as much as possible. The introduction of IT technology in the consular offices will largely lead to optimizing business processes. Business processes, once optimized, as such, are accepted by the entire management. This project will lead to both process optimization and cost reduction. Also when we talk about sustainability we must bear in mind that Montenegro as a country that is negotiating with the EU is obliged to implement EU regulative concerning visa policy, thus guaranteeing the **sustainability** of the project results since introducing encrypted network is one of the preconditions form implementation of the Visa information system.

In terms of cross-border impact, the introduction of this system will significantly contribute to the efficient management of the foreign policies of Montenegro abroad.

3.3 Results and measurable indicators:

The project will have the following measurable results:

Result 1: proper server infrastructure established, able to support IT systems within the Ministry of Foreign Affairs and European Integration.

Measurable indicators:

- Servers supplied and installed
- Core network equipment supplied and installed
- IT staff of the Ministry trained and able to maintain servers
- Further development of the IT systems within the Ministry enabled

Result 2: Established secure, encrypted communication network between consulates and central of the Ministry.

Measurable indicators:

- Encryption hardware and software supplied
- IT staff of the Ministry trained to maintain secure communications
- Secure connection established, and all data between consulates and the Ministry are safely transferred.
- Enabled further development of the IT system within the Ministry, especially development of the IP telephony and Visa Information System

Result 3: Implemented secure transfer of voice data using VOIP technology i.e. IP telephony implemented.

Measurable indicators:

- IP telephony implemented in the Ministry and the consulates and secure voice communications are enabled.
- Costs of the Ministry, for telephony services, are significantly lower.
- Better coordination between Ministry and Diplomatic and consular missions in defining and promoting Montenegrin foreign policy
- Better communication between consulates and the Ministry

3.4 Activities:

The project will be implemented through the following activities, corresponding to the specified results:

Activity 1: establishing server infrastructure:

1.1 procurement of the servers
1.2 installation of the servers
1.3 procurement of the necessary network equipment
1.4 installation of the network equipment

Activity 2: establishing encrypted computer network between consulates and Ministry

2.1 acquisition of the system
2.2 Training of IT staff
2.3 installation of the system in Podgorica
2.4 pilot project of installation in three consulates
2.5 roll-out of the system

Activity 3: Implementation of IP telephony

3.1 Procurement of equipment
3.2 installation of telephone central in the Ministry
3.3 Implementation of the VOIP telephony in the consulates

The project will be implemented through one Supply contract and one Service contract:

Contract number	Type of contract	Amount in EUR	Activities to be covered	Funding source
Contract 1	Supply	500.000	1.1,1.2,1.3,1.4,2.1,2.2,2.3, 2.4,3.1,3.2	IPA
Contract 2	Service	150.000	2.5,3.3	National funds

3.5 Conditionality and sequencing:

The beneficiary should establish an action plan for assuring the provision of adequate funding for physical and human resources necessary to ensure the continued operation and maintenance of the equipment. Participation by the beneficiary in the tender processes will be according to EU procedures. Staff and operators should be adequately trained to implement the programme.

Steering committee consisting of key stakeholders will be established before implementation. Steering committee will be supervising implementation of the project.

In terms of sequencing, it is planned that supply contract will be signed first, service contract for system rollout to the embassies are last.

3.6 Linked activities

This project will take in consideration experiences gained during implementation stage of EU funded projects.

EU funded projects:

In the previous period EU funded one partly related project:

IPA 2009 ,,*Strengthening the capacities of police administration*`` (CRIS Number: 2009/021-170) with a total value of 2.400.000 € out of which EU contribution is 2.000.000 €. The project aim was to improve and elaborate procedures for the obtaining of information on organized crime, improve the detection of individual forms of organized crime, improve technical equipment, improve the international police co-operation, fight against the drug trafficking, corruption and organized crime by specialized training in exchanging information and best practices in this field. One part of the project was implemented through a supply contract where one part of the purchased equipment on the border crossings can be used as a supplementary equipment for visa information system functioning.

Other donor's activities:

N.A.

3.7 Lessons learned

The foreign ministries are the heart of national diplomacy and their embassies and consulates represent a country abroad. Confidential and, depending on the political circumstances, critical information flows cross national boundaries. Such information can often be of great

interest to third parties and any kind of publication may have serious consequences for diplomats or even the home country. Therefore this data requires protection and its availability must be ensured everywhere at all times.

Data leakage or security breaches in such systems have a direct impact on the right to privacy and may have legal implications. Also, due to the quality and the quantity of data, leakages ex-pose citizens to various risks and can cause substantial reputational damage to official bodies. Beside other measures, the correct use of cryptography minimizes certain threats and secures e-government services.

Current satiation is that all electronic data are transmitted via internet without any encryption. Because of this risks for the Ministry are:

- Attackers can intercept unencrypted data traveling over a network, not only impacting privacy but potentially opening the potential to modify or substitute data as a way to stage more sophisticated attacks.
- Because of the lack of the protection for data in motion, Ministry risk fines, embarrassing data breach, and resulting damage to its reputation.

Encryption transforms data into an unusable form, reducing the risk in the case of unauthorized access. Once employed only for the most sensitive government secrets, encryption is today a common practice with strategic importance for businesses of all types. Given that failure to protect confidential information may be not only embarrassing but also illegal, it's easy to see why encryption is becoming a core component in a broad data protection.

Benefits of implementing encrypted communication are:

- Secure processing, and transfer of data
- Reduction of network costs
- Integration of many different applications and services
- Simple commissioning in overseas diplomatic representations
- Handling of differently-classified documents
- Facilitates
    - data sharing,
    - secure remote access
    - conferencing capabilities
- Enables other IT project in the Ministry, such as IP telephony, IT system for Visa issuing etc.

Ministries of Foreign Affairs (MoFAs) are responsible for managing a network of embassies around the globe. Each site requires secure, reliable and always-available communications with headquarters and other agencies in order to carry out critical diplomatic functions. Foreign Ministries who implemented their world-wide embassy network with encrypted communication and with IP telephony reduced costs, improved the collaboration of the sites and speed up working processes.

4. Indicative Budget (amounts in €)

				SOURCES OF FUNDING								
			TOTAL EXP.RE	IPA COMMUNITY CONTRIBUTION		NATIONAL CONTRIBUTION					PRIVATE CONTRIBUTION	
ACTIVITIES	IB	INV	EUR (a)=(b)+(c)+(d)	EUR (b)	%	Total EUR (c)=(x)+(y)+(z)	%	Central EUR (x)	Regional/ Local EUR (y)	IFIs EUR (z)	EUR (d)	%
Activity 1.1, 1.2, 1.3,1.4												
contract 1 (supply) lot 1		X	60.000	60.000	100%							–
Activity 2.1,2.2,2.3,2.4												
contract 1 (supply) lot 2		X	295.000	295.000	100%							–
Activity 3.1, 3.2												
contract 1 (supply) lot 3		X	145.000	145.000	100%							
Activity 2.5, 3.3												
contract 2 (service)		X				150.000	100%	150.000				
TOTAL IB			0	0	0%	150.000	100%	150.000				
TOTAL INV			500.000	500.000	100%							
TOTAL PROJECT			**500.000**	**500.000**	**76.93%**	**150.000**	**23.07**	**150.000**				

Amounts net of VAT

5. Indicative Implementation Schedule (periods broken down per quarter)

Contracts	Start of Tendering	Signature of contract	Project Completion
Contract 1 (Supply)	Q4 2013	Q1 2014	Q1 2015

Contracts 2, is responsibility of the national authority. The indicative implementation schedule for them is below:

Contracts	Start of Tendering	Signature of contract	Project Completion
Contract 2 (Service)	Q1 2014	Q2 2014	Q1 2015

6. Cross cutting issues

6.1 Equal Opportunity

In Montenegro there is extensive legislation related to equal opportunity issues. The Project will ensure, as far as is practicable, that the internal policies, structure or operating procedures of the beneficiary will conform to relevant EU directives and/or laws related to the promotion of equal opportunity.

In general, gender needs will be considered as an analytical instrument, from programme design onwards. The project will be gender sensitive and ensure access of women to its benefits, particularly with regards to access to training and increasing opportunities for employment and career advancement. The advertising of job vacancies and recruitment will be by via a process of fair and open competition. Equal treatment and opportunities for women in the relevant institutions will be taken into account in policies and practices that reflect the working capacities and family obligations of their staff, especially women's participation.

6.2 Environment

Environmental issues will be mainstreamed through the whole project cycle. Based on equipment that will be purchased, it is assessed that there will be no implications on the environment. We are speaking about the standard equipment that meets all required standards in the field of environment protection.

6.3 Minorities

It is important that the policy of equal opportunities is respected by the beneficiary when it comes to employing people. The principle of non-discrimination shall also be applied in planning the required training activities. Montenegro has legislation pertaining to protection of minority rights. The proposed project will ensure that internal policy, structures and operative procedures are in compliance with and are promoting minority rights. While implementing the project all minority related topics will be respected in raising awareness and trainings.

ANNEXES

Annex 1- Log frame in Standard Format

Annex 2- Amounts contracted and Disbursed per Quarter over the full duration of Programme

Annex 3 - Reference to laws, regulations and strategic documents:

Annex 4- Description of the Institutional framework

Annex 5- Details per EU funded contract

Annex 1- Log frame in Standard Format

Project Logframe	**Strengthening the capacities of diplomatic-consular network of the Ministry of Foreign Affairs and European integrations**		
	Contracting period expires: Two years after conclusion of the Financial Agreement	**Disbursement period expires:** One year after the final date for the execution of contracts	
	Total Budget: 650,000 €	**IPA budget :** 500,000 €	
Overall objective	**Objectively verifiable indicators**	**Sources of Verification**	
Strengthening the capacities of the Ministry of Foreign Affairs and European Integrations, particularly regarding efficient management of the foreign policies of Montenegro.	▪ More efficient implementation of Montenegrin foreign policy. ▪ established secured communication with DCMs.	▪ Annual Reports of the Ministry of Foreign Affairs and European Integrations	
Project purpose	**Objectively verifiable indicators**	**Sources of Verification**	**Assumptions**
Fully implementation of the secured computer network of the Ministry of Foreign Affairs and European Integrations and implementation of IP telephony between DCMs and Ministry	▪ Enhanced security ▪ Cost effective communication with DCMs enabled	▪ Annual Reports of the Ministry of Foreign Affairs and European Integrations ▪ Project report.	Ministry of Foreign Affairs and European Integrations remains committed to implementation of the secured computer network and IP telephony.

Results	Objectively verifiable indicators	Sources of Verification	Assumptions
Result 1: proper server infrastructure established, able to support IT systems within of Ministry of Foreign Affairs a European Integration.	- Servers supplied and installed - Core network equipment supplied and installed - IT staff of the Ministry trained and able to maintain servers - Further development of the IT systems within the Ministry enabled	▪ Project Report	▪ One room allocated within Ministry to be a server -room
Result 3: Established secure, encrypted communication network between consulates and central of the Ministry.	- Encryption hardware and software supplied - IT staff of the Ministry trained to maintain secure communications - Secure connection established, and all data between consulates and the Ministry are safely transferred. - Enabled further development of the IT system within the Ministry, especially development of the Visa Information System	▪ Annual Report of the MVPEI. ▪ Project Report	▪ All diplomatic and consular missions have internet access and computers connected in Local Area Network
Result 4: Implemented secure transfer of voice data using VOIP technology i.e. IP telephony implemented.	- IP telephony implemented in the Ministry and the consulates and secure voice communications are enabled. - Costs of the Ministry, for telephony services, are significantly reduced. - Better coordination between Ministry and Diplomatic and consular missions in defining and promoting Montenegrin foreign policy - Better communication between consulates and the Ministry	▪ Project Report	▪ Secured, encrypted communications exists between consulates and Ministry

Activities	Means	Costs	Assumptions
Activity 1: establishing server infrastructure: 1.1 procurement of the servers 1.2 installation of the servers 1.3 procurement of the necessary network equipment 1.4 installation of the network equipment **Activity 2: establishing encrypted computer network between consulates and Ministry** 3.1 acquisition of the system 3.2 Training of IT staff 3.3 installation of the system in Podgorica 3.4 pilot project of installation in three consulates 3.5 roll-out of the system **Activity 3: Implementation of IP telephony** 4.1 Procurement of equipment 4.2 installation of telephone central in the Ministry 4.3 Implementation of the VOIP telephony in the consulates predefined	1 Service contract 1 Supply contracts Human resources Technical resources Material resources	IPA – 500.000 EUR – Contract 1 Supply- 500.000 National co-funding – 150.000,00EUR – Contract 2 Service- 150.000 In kind: - server room provided by beneficiary - Translation services provided by beneficiary	▪ Commitment on behalf of senior level officials and experts of MVPEI involved in project implementation ▪ Commitment of IT staff of MVPEI ▪ Qualified staff from consulates available and actively participating to the project activities. ▪ Available technical documentation ▪ Available premises and infrastructure **Preconditions** Allocation of sufficient and stable financial technical and human resources to the MFAEI

Annex 2- Amounts contracted and Disbursed per Quarter over the full duration of Programme

Contracted	**Q4 2013**	**Q1 2014**	**Q2 2014**	**Q3 2014**	**Q4 2014**	**Q1 2015**
Contract 1		500.000				
Cumulated		**500.000**				
Disbursed	**Q4 2013**	**Q1 2014**	**Q2 2014**	**Q3 2014**	**Q4 2014**	**Q1 2015**
Contract 1		300.000	150.000			50.000
Cumulated		**300.000**	**450.000**			**500.000**

Annex 3 - Reference to laws, regulations and strategic documents

Laws:

- Law on Informational security (Official Gazette of the Republic of Montenegro, No. 14/10)
- Rules on Informational security measures (Official Gazette of the Republic of Montenegro, No. 58/10)

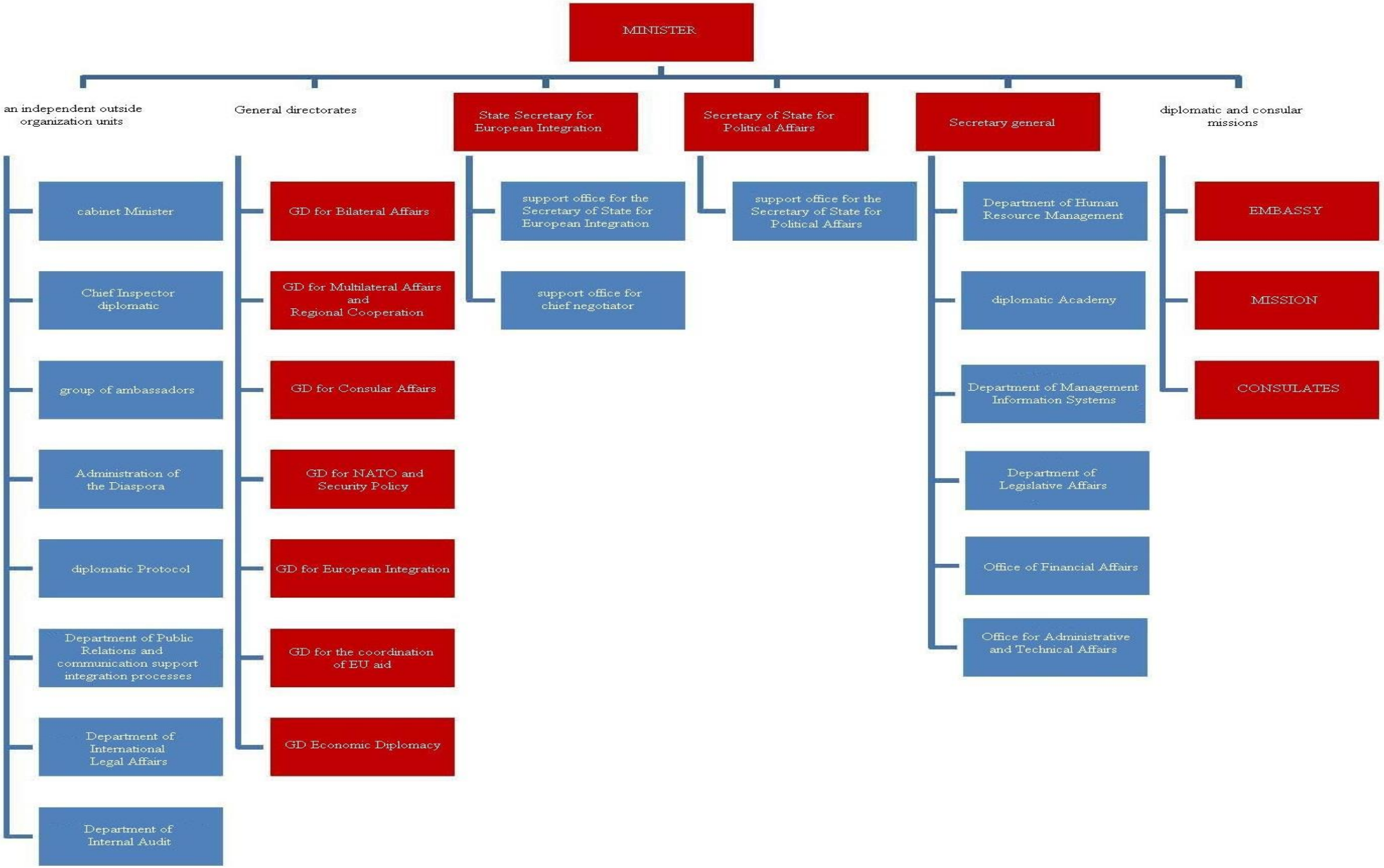
EU Strategic documents:

- The **European Partnership (EP)** in the section related to the Justice, freedom and security subsection Visa, border control, asylum and migration stress out the need to *develop institutional capacity in relation to visa policy and align visa policies with those of the EU.*

- **Stabilization and Association Agreement** (SAA) in article 82 related to Visa, border management, asylum and migration defines that the Parties shall cooperate in the areas of visa, border control, asylum and migration and shall set up a framework for the cooperation, including at a regional level, in these fields, taking into account and making full use of other existing initiatives in this area as appropriate.

- **Montenegro 2012 Progress Report** for chapter 24 – Justice, freedom and security stresses that *there is still no electronic link between the diplomatic and consular missions and the national visa system of the Ministry of Foreign Affairs and European Integration (MFAEI), nor is there a visa with security features*.

Annex 4- Description of the Institutional framework



List of Embassies, consulates and missions:

Embassies:

Embassy	Located in
Republic of Albania	Tirana
Republic of Austria	Vienna
Kingdom of Belgium	Brussels
Bosnia and Herzegovina	Sarajevo
Republic of Bulgaria	Sofia
Republic of Greece	Athens
Republic of Italy	Rome
Republic of Kosovo	Pristina
People's Republic of China	Beijing
Republic of Hungary	Budapest
Republic of Macedonia	Skopje
Federal Republic of Germany	Berlin
Republic of Poland	Warsaw
Romania	Bucharest
Russian Federation	Moscow
Holy See and the Sovereign Order of Malta Knights	Rome
United States	Washington, DC
Republic of Serbia	Belgrade
Republic of Slovenia	Ljubljana
Republic of Turkey	Ankara
United Arab Emirates	Abu Dhabi
United Kingdom of Great Britain and Northern Ireland	London
Republic of France	Paris
Republic of Croatia	Zagreb
Ukraine	Kiev

Mission to the International Organizations

Mission of Montenegro to the	Based in
European Union	Brussels
North Atlantic Treaty Organization (NATO)	Brussels
United Nations (UN)	New York City
United Nations (UN) and other international organizations	Geneva
Organization for Security and Cooperation in Europe (OSCE) and the UN special organizations,	Vienna
Council of Europe (CoE)	Strasbourg
Organization for Education, Science and Cultural Organization (UNESCO)	Paris

Consular offices

Consulate General in New York, USA
Consulate General in Frankfurt, Germany
Consulate General in Munich, Germany
Consulate of the Grand Duchy of Luxembourg

Annex 5 - Details per EU funded contract

Overall contribution of IPA funds is EUR 500.000,00 which represents 76, 93%, while national contribution is EUR 150.000,00 which represents 23.07%.

The project will be managed according to the Practical Guide for contract procedures.

All project investments will remain in the ownership of Ministry of Foreign Affairs and European Integrations.

1. Supply Contract

Lot 1

Supply of the necessary equipment for establishing server infrastructure that will support all IT projects.

Location	Equipment	Quantity	cost(€)	estimated cost
Ministry of Foreign Affairs and EU integrations	Server type 1	6	4000	24000
	L3 switch for servers	2	1500	3000
	L3 switch for core network	2	10000	20000
	Backup system	1	10000	10000
	internet firewall	2	1500	3000
Total				60000

Lot 2

Establishing secure communication network between Diplomatic consular posts and Ministry.

Embassy	Located in	Equipment	Quantity	Cost (€)	Estimated cost
Embassy in Republic of Albania	Tirana	encryption module 30M throughput	1	5000	5000
Embassy in Republic of Austria	Vienna	encryption module 30M throughput	1	5000	5000
Embassy in Kingdom of Belgium	Brussels	encryption module 30M throughput	1	5000	5000
Embassy in Bosnia and Herzegovina	Sarajevo	encryption module 30M throughput	1	5000	5000
Embassy in Republic of Greece	Athens	encryption module 30M throughput	1	5000	5000
Embassy in Republic of Italy	Rome	encryption module 30M throughput	1	5000	5000
Embassy in People's Republic of China	Beijing	encryption module 30M throughput	1	5000	5000
Embassy in Republic of Hungary	Budapest	encryption module 30M throughput	1	5000	5000
Embassy in Republic of Macedonia	Skopje	encryption module 30M throughput	1	5000	5000
Embassy in Federal Republic of Germany	Berlin	encryption module 30M throughput	1	5000	5000
Embassy in Republic of Poland	Warsaw	encryption module 30M throughput	1	5000	5000
Embassy in Russian Federation	Moscow	encryption module 30M throughput	1	5000	5000
Embassy in Holy See and the Sovereign Order of Malta Knights	Rome	encryption module 30M throughput	1	5000	5000
Embassy in United States	Washington, DC	encryption module 30M throughput	1	5000	5000
Embassy in Republic of Serbia	Belgrade	encryption module 30M throughput	1	5000	5000
Embassy in Republic of Slovenia	Ljubljana	encryption module 30M throughput	1	5000	5000
Embassy in Republic of Turkey	Ankara	encryption module 30M throughput	1	5000	5000
Embassy in United Arab Emirates	Abu Dhabi	encryption module 30M throughput	1	5000	5000
Embassy in United Kingdom of Great Britain and Northern Ireland	London	encryption module 30M throughput	1	5000	5000

Embassy in Republic of France	Paris	encryption module 30M throughput	1	5000	5000
Embassy in Republic of Croatia	Zagreb	encryption module 30M throughput	1	5000	5000
Mission of Montenegro to the EU	Brussels	encryption module 30M throughput	1	5000	5000
Mission of Montenegro to the NATO	Brussels	encryption module 30M throughput	1	5000	5000
Mission of Montenegro to the UN	New York City	encryption module 30M throughput	1	5000	5000
Mission of Montenegro to the UN	Geneva	encryption module 30M throughput	1	5000	5000
Mission of Montenegro to the Coe	Strasbourg	encryption module 30M throughput	1	5000	5000
Consulate General in New York, USA	New York City	encryption module 30M throughput	1	5000	5000
Consulate General in Frankfurt, Germany	Frankfurt	encryption module 30M throughput	1	5000	5000
Consulate General in Munich, Germany	Munich	encryption module 30M throughput	1	5000	5000
Ministry	Podgorica	encryption module 200M throughput	2	9000	18000
		Software	1	130000	130000
		Smart Card tokens (spare parts)	20	100	2000
Total					**295000**

Lot 3

Supply of the IP telephony.

Embassy	Located in	Equipment	Quantity	Cost (€)	Estimated cost
Embassy in Republic of Albania	Tirana	IP telephone type 1	3	100	300
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in Republic of Austria	Vienna	IP telephone type 1	5	100	500
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in Kingdom of Belgium	Brussels	IP telephone type 1	2	100	200
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in Bosnia and Herzegovina	Sarajevo	IP telephone type 1	4	100	400
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in Republic of Greece	Athens	IP telephone type 1	4	100	400
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in Republic of Italy	Rome	IP telephone type 1	4	100	400
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in People's Republic of China	Beijing	IP telephone type 1	3	100	300
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in Republic of Hungary	Budapest	IP telephone type 1	3	100	300
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in Republic of Macedonia	Skopje	IP telephone type 1	5	100	500
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in Federal Republic of Germany	Berlin	IP telephone type 1	5	100	500
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in Republic of Poland	Warsaw	IP telephone type 1	3	100	300
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in Russian Federation	Moscow	IP telephone type 1	5	100	500
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in Holy See and the	Rome	IP telephone type 1	2	100	200
		IP telephone type 2	1	250	250

Sovereign Order of Malta Knights		24 port PoE switch	1	1000	1000
Embassy in United States	Washington, DC	IP telephone type 1	7	100	700
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in Republic of Serbia	Belgrade	IP telephone type 1	10	100	1000
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in Republic of Slovenia	Ljubljana	IP telephone type 1	4	100	400
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in Republic of Turkey	Ankara	IP telephone type 1	5	100	500
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in United Arab Emirates	Abu Dhabi	IP telephone type 1	2	100	200
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in United Kingdom of Great Britain and Northern Ireland	London	IP telephone type 1	5	100	500
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in Republic of France	Paris	IP telephone type 1	5	100	500
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Embassy in Republic of Croatia	Zagreb	IP telephone type 1	3	100	300
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Mission of Montenegro to the EU	Brussels	IP telephone type 1	16	100	1600
		IP telephone type 2	2	250	500
		48 port PoE switch	1	2000	2000
Mission of Montenegro to the NATO	Brussels	IP telephone type 1	6	100	600
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Mission of Montenegro to the UN	New York City	IP telephone type 1	5	100	500
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Mission of Montenegro to the UN	Geneva	IP telephone type 1	4	100	400
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Mission of Montenegro to the CoE	Strasbourg	IP telephone type 1	6	100	600
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Consulate General in New York, USA	New York City	IP telephone type 1	4	100	400
		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Consulate General	Frankfurt	IP telephone type 1	5	100	500

in Frankfurt, Germany		IP telephone type 2	1	250	250
		24 port PoE switch	1	1000	1000
Consulate General in Munich, Germany	Munich	IP telephone type 1	3	100	300
		IP telephone type 2	1	250	250
		24 port PoE switch	3	1000	3000
Ministry	Podgorica	IP telephone type 1	140	100	14000
		IP telephone type 2	10	250	2500
		Ip telephone type 3	8	150	1200
		44 port PoE switch	6	2000	12000
		L3 switch	2	1000	2000
		IP central	1	60000	60000
Total					**145000**