STANDARD SUMMARY PROJECT FICHE

1. Basic Information

1.1 Désirée Number: CZ 2003/004-338.05.05

1.2 Title: Schengen Information System

1.3 Sector: Justice and Home Affairs

1.4 Location: Czech Republic

2. Objectives

2.1 Overall objective

- Stability of institutions guaranteeing democracy, the rule of law, human rights and respect for and protection of minorities
- Ability to take on the obligations of membership, including adherence to the aims of political, economic and monetary union

2.2 Project purpose

- To improve IT infrastructure for building-up the Czech N-SIS and future connection to SIS and to ensure availability of transmission capacity in the backbone part of the border-area network with regard to increase in data transmission requirements

2.3 Accession Partnership 2001 priority:

- Ensure due implementation of the Schengen Action Plan
- Continue preparation for future participation in Schengen Information System by developing national databases and registers

2.4 Contribution to National Development Plan N/A

2.5 Cross Border Impact N/A

3. Description

3.1 Background and Justification

- In the last three years a great improvement has been achieved in the communication and information support of the Alien and Border Police units. The following information systems have been introduced: LOOK for scanning and digitizing of car plates, optical readers of travel documents, AFIS for taking and digitizing of finger prints. Police units have been equipped with PSION hand-held computers for the fieldwork. The present project is intended to further improve the communication and information support and to prepare the relevant authorities for joining SIS II. The project will take account of the following documents: Council Decision 2001/886/JAI and Council Regulation 2424/2001 of 6 December 2001 on the development of SIS II and Commission Communication (720)2001 of 18 December 2001 on SIS II.

Steps taken up to now have offered the Alien and Border Police better access to the data network, but an increased need for availability of transmission band in the backbone part of the network has become obvious.

For effective use and functioning of the above-mentioned systems it is necessary that the data network (WAN) responds to enquiries in real time.

Since 2000 a gradual process of connecting the basic police units frame relay (FR) technology has been taking place to enable them to share the capacity of transmission facilities for voice and data applications. There are 2 to 4 interfaces to data networks and 2 to 6 interfaces for voice applications at
each basic unit (depending on the type of unit). By the end of the year 2002, the total of 260 basic police units (namely of the Alien and Border Police) will have been connected via FR technology.

The present project will therefore be aimed at improving IT infrastructure to be used by the Alien and Border Police by way of strengthening the transmission network, enlarging the new Zlín Region communication node and ensuring a comprehensive supervision and management of the frame-relay (FR) equipment. It should provide the lacking transmission capacity of the backbone part of the network in response to increased data transmission requirements. This will ensure effective use of the systems installed at the Aliens and Border Police units and promote preconditions for the operation of SIS.

Results of the project are supposed to prove especially positive after lifting of border controls at the Slovak border by improved information and communication support for the units of the Alien and Border Police that will work under new conditions. But it is also necessary to view the private network of the Ministry of the Interior as an integral whole. Reinforcing of one communication node will bring improvement to the whole private network, contributing to higher security of data transmission. Other parts of the network are going to be reconstructed or adapted in a required way from financial resources of the Czech Republic.

Getting ready for using the Schengen Information System (SIS) presumes building-up of such a national structure that enables data input and direct and continual access of authorised bodies to the data. It presumes concretely - establishment of the national centre of the SIS - N.SIS CR, - establishment of the SIRENE office, - finishing the setting-up of the transmission network of the Ministry of the Interior for data input and using the data contained in the N.SIS CR, - harmonisation of national databases with the Schengen standards, - to equip end work places with information technology and creation of necessary software. To finish the setting-up of the transmission network belongs among the key steps and therefore it was made one of the tasks of the Schengen Action Plan (submitted in 2001 and containing tasks to be implemented in order to prepare the Czech Republic for accession to the EU and Schengen Agreements). This also results from awareness of the Czech Republic as a future Member State of necessity to improve continuously information and communication support to Schengen acquis implementation that means reflection of looking for the ways how to bring future Schengen co-operation more effective.

Prior to accessing the Schengen Agreements, the Zlín Region communication node needs to be enlarged regardless of whether the Czech Republic and Slovakia will join the Schengen system jointly or not. A large increase in data transmission requirements to the MoI network is expected. In addition, the transmission network has to be able to transfer large amounts of data in real time. The network should provide data transfer throughout the Czech Republic with uniform quality.

3.2. Linked Activities
Since the start and with the assistance of Phare programme in the Czech Republic, a number of systems have been introduced, which improve border controls and border management and help the Czech Republic to get ready for the accession to the EU and Schengen Agreements. The previous projects assisted in obtaining higher-standard equipment for new demanding tasks or for replacing obsolete technology. They were aimed at improving the end parts of the transmission network (when paying particular attention to the Government Resolution No.1257 of 2002 on list of bodies authorised to search for the data contained in the N.SIS), but none of the Phare projects has so far been designed to upgrade the network or increase data transmission.

Projects implemented or under implementation:
- CZ 98-10-01 Strengthening Border Control (investment in information technology to reinforce data communication with border crossing points, in motor vehicle registration number scanning device)
- CZ 99-04-01 Strengthening the Operation of Law Enforcement Institutions and the Judiciary, sub-project Preparation for Schengen Implementation (delivery of specialist assistance for implementation of the Schengen Agreements and for the building up a National Schengen Information System in the form of twinning, investment in information technology)
• CZ00-07-02 Schengen information system and strengthening the border management (investment in information technology to ensure accessibility of the NSIS information by the Police of the CR)

• CZ 02-07-02 Schengen action plan and SIS part II (further development of the NSIS Centre and the communication centre for co-operation with police forces of other EU Member States by delivery of specialist assistance and investment in information technology).

3.3 Results
• Current district communication node of Zlín reconfigured to regional level,
• Administration and configuration of individual FR links enabled through the method of determination of the end points (end-to-end path management) and better performance of the links,
• Current regional communications nodes of Brno and Ostrava reconfigured to higher capacity.

3.4 Activities
1) Reconfiguration of the current district communication node of Zlín to the regional level by means of:
• purchase and installation of the XP140 ATM backbone switch and its integration into the current ATM network and management,
• purchase and installation of the A4400 R4.2 transit central office including A4760 v2.0 management system (full pack, topology options, 500 users),
• purchase and installation of the 7206VXR/400 CISCO ATM backbone router including integration into the current ATM network and management,
• purchase and installation of an effective FR switch to provide access for subordinated police units,
• purchase of the managing and supervising regional system for the FR equipment with the path management (more than 250 supervised elements). The management system has to enable the administration and configuration of individual links through the method of determination of the end points (end-to-end path management) and better performance of the links. Integral parts of the system have to be the supervision of applications, the web interface and the sending of error messages to the central helpdesk system via e-mail,
• reconstruction and securing of the feeding centre,
• reconstruction of the digital distribution frame.

2) Reconfiguration of the existing communications nodes of Brno and Ostrava to the higher capacity by means of:
• supplementing the ATM backbone switch with the STM1 Dual MM 155 card,
• purchase and installation of the A4400 v2.0 transit central office including A4760 v2.0 management system (full pack, topology options, 500 users),
• purchase and installation of an effective FR switch providing access for subordinated units,
• purchase of the regional managing and supervising system for the FR equipment with the path management (more than 250 supervised elements). The management system has to enable the administration and configuration of individual links through the method of determination of the end points (end-to-end path management) and better performance of the links. Integral parts of the system have to be the supervision of applications, the web interface and the sending of error messages to the central helpdesk system via e-mail.

Necessary bandwidth of 155Mbit/s will be leased from Czech Telecom and links Zlín-Brno and Zlín-Ostrava will be set up, all by financial means from state budget. Leasing fee will be covered by the Czech Budget.

The equipment mentioned is indicative and will be specified in detail when preparing Technical Specification.

PAA for CZ 02-07-02 Schengen action plan and SIS part II will be consulted regarding equipments needs (avoiding overlaps with Phare 2002 and this project) and regarding drafting of Technical Specifications.

3.5 Lessons learned
All relevant recommendations from previous projects have been taken into account.
4. Institutional Framework

The project will be implemented by the Ministry of the Interior and the Police Presidium of the Czech Republic, namely the Department for Asylum and Migration Policies of the Ministry of Interior and the Directorate of Alien and Border Police Service of the Police Presidium.

5. Detailed Budget (mil. €)

<table>
<thead>
<tr>
<th>Project Components</th>
<th>Phare Support</th>
<th>Total Phare (I+IB)</th>
<th>*National Co-financing</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Investment Support</td>
<td>Institution Building</td>
<td>0.9</td>
<td>0.9</td>
</tr>
<tr>
<td>(1) Supply of Equipment</td>
<td>1.00</td>
<td>1.00</td>
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<td>1.00</td>
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<tr>
<td>(2) Supply of Equipment</td>
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<tr>
<td>Total</td>
<td>1.00</td>
<td>1.00</td>
<td>0.9</td>
<td>1.90</td>
</tr>
</tbody>
</table>

*There will be parallel co-financing - 900 000 EUR from the national budget 2004, chapter nr.314 – Ministry of Interior - will be spent on the modification of the microwave links for Police of the Czech Republic and on the management system for the transit central offices as well as on leasing band with 155Mbit/s.

6. Implementation Arrangements

6.1 Implementing Agency

The CFCU will be the implementing agency responsible for tendering, contracting and accounting. Responsibility for technical aspects related to preparation, implementation and control rests with the Ministry of the Interior as the beneficiary institution.

Contacting persons:
Mr Jan Slavíček, Head of CFCU, tel.: +420 257044551 jan.slavicek@mfcr.cz
Ms. Markéta Pokorná, Ministry of Interior, Department for Asylum and Migration Policies, tel.: +420 24107 2566, opu@mvcr.cz

6.2 Non-standard aspects

N/A

6.3 Contract

(1) contract – supply of equipment 1 MEUR

7. Implementation Schedule

7.1 Start of tendering/call for proposals 3Q/2003
7.2 Start of project activity 1Q/2004
7.3 Project Completion 3Q/2004

8. Equal Opportunity

Equal opportunity principles and practices in ensuring equitable gender participation in the project will be guaranteed.

9. Environment

N/A

10. Rates of Return

N/A

11. Investment Criteria

N/A
12. Conditionality and Sequencing

- Establishment of the Steering Committee from representatives of the responsible department. This Committee will ensure effective and sufficient co-ordination of the project.

ANNEXES TO PROJECT FICHE

1. Logframe planning matrix
2. Detailed implementation chart
3. Contracting and disbursement schedule
4. Indicative technical justification
## Logframe Planning Matrix

**Project:** Schengen Information System

<table>
<thead>
<tr>
<th>Overall objective</th>
<th>Objectively Verifiable Indicators</th>
<th>Sources of Verification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ability to take on the obligations of membership, including adherence to the aims of political, economic and monetary union</td>
<td>Acknowledgement by the European Commission</td>
<td>EC Monitoring Report, Accession to the Schengen Agreements</td>
</tr>
<tr>
<td>Stability of institutions guaranteeing democracy, the rule of law, human rights and respect for and protection of minorities</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Project purpose</th>
<th>Objectively Verifiable Indicators</th>
<th>Sources of Verification</th>
<th>Assumptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>To improve IT infrastructure for building up the Czech N-SIS and future connection to SIS and to ensure availability of transmission capacity in the backbone part of the network with regard to increase of data transmission requirements</td>
<td>Effective use of systems installed within MoI, Effective management of the Alien and Border Police units</td>
<td>JHA expert mission reports, Report of the Police Presidium</td>
<td>Other parts of the 3rd Copenhagen Criteria fulfilled</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Results</th>
<th>Objectively Verifiable Indicators</th>
<th>Sources of Verification</th>
<th>Assumptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>The present district communication node of Zlín reconfigured to regional level</td>
<td>Response to an enquiry in real time (comparable with similar systems installed in the centre or at regional level), Increased transmission capacity of the network</td>
<td>Regular reports of the district and regional police headquarters, JHA expert mission reports, Measurement of response time in various police units by users</td>
<td>Co-financing from the state budget, Ministry programme used for activities necessary to build up NSIS, VISION, transmission network of the MoI</td>
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<tr>
<td>Administration and configuration of individual FR links enabled through the method of determination of the end points (end to end path management) and better performance of the links.</td>
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<tr>
<td>The existing regional communication nodes of Brno and Ostrava reconfigured to the higher capacity</td>
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<tr>
<td>ATM transmission network Zlín-Brno, Zlín-Ostrava realized</td>
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<tr>
<td>Activities</td>
<td>Means</td>
<td>Assumptions</td>
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</tbody>
</table>
| • 1) reconfiguration of the present district communication node of Zlín to the regional level  
• 2) reconfiguration of the existing communication nodes of Brno and Ostrava to the higher capacity  
• 3) leasing bandwidth 155Mbit/s Zlín-Brno, Zlín-Ostrava | It is envisaged that the project will be implemented by means of one supply tender:  
Total costs: 1,90 M€ (Phare contribution: 1,00 M€; Czech co-financing: 0,9 M€)  
1) Reconfiguration of the district communication node by  
• purchase and installation of the XP140 ATM backbone switch including integration to the current ATM network and management  
• purchase and installation of the A4400 R4.2 transit central office including A4760 v2.0 management system (full pack, topology options, 500 users)  
• purchase and installation of the 7206VXR/400 CISCO ATM backbone router including integration to the current ATM network and management  
• purchase and installation of an effective FR switch to provide access for subordinated units  
• purchase of the regional managing and supervising system for the FR equipment with the path management  
• reconstruction and securing of the feeding centre  
• reconstruction of the digital distribution frame | • Data connection of sufficient quality and speed to police units. Data transmission lines are gradually improved; financing is covered by the state budget  
• Basic police units of the Alien and Border Police, Order Police and basic units of the Traffic, Railway Police and offices of the Criminal Police and Investigation Service should be equipped by projects CZ 9904-01, CZ00-07-02, Schengen Information System Phase I, and CZ 02-07-02, Schengen Action Plan and Information System (SIS) Phase II  
• Czech co-financing - 900000 EUR - will be spent on the modification of the radio relay links for Police of the Czech Republic and on the management system for the transit central offices as well as on leasing bandwidth 155Mbit/s |

| 2) Reconfiguration of the existing communication nodes in Brno and Ostrava | purchase and installation of the A4400 v2.0 transit central office including A4760 v2.0 management system (full pack, topology options, 500 users)  
• purchase and installation of an effective FR switch to provide access for subordinated units |  |
- purchase of the regional managing and supervising system for the FR equipment with the path management

Preconditions: Successful realization of the previous Phare projects (esp. CZ-00-07-02 and CZ-02-07-02). These projects have assisted in obtaining higher-standard equipment for new demanding tasks and in replacing obsolete technology and were aimed at improvement of end parts of the transmission network.
### Detailed Implementation Chart for the Project

#### Schengen Information System

<table>
<thead>
<tr>
<th>Action</th>
<th>Year</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
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<tbody>
<tr>
<td>Design of Technical Specifications</td>
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<tr>
<td>Tender Launch</td>
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<tr>
<td>Contract(s) Signature</td>
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<td>Delivery of equipment</td>
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<tr>
<td>Installation of equipment</td>
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<tr>
<td>Training on the equipment</td>
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### Contracting and Disbursement Schedule

#### Cumulative Quarterly Contracting Schedule (M €)

<table>
<thead>
<tr>
<th>Quarter / Year</th>
<th>3Q/03</th>
<th>4Q/03</th>
<th>1Q/04</th>
<th>2Q/04</th>
<th>3Q/04</th>
<th>4Q/04</th>
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<th>4Q/05</th>
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<td>Schengen Information System</td>
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#### Cumulative Quarterly Disbursement Schedule (M €)

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<thead>
<tr>
<th>Quarter / Year</th>
<th>3Q/03</th>
<th>4Q/03</th>
<th>1Q/04</th>
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<th>Total</th>
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<td>Schengen Information System</td>
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</table>
## Indicative Technical justification

**Schengen Information System**

<table>
<thead>
<tr>
<th>Beneficiary institutions</th>
<th>Police Presidium (in particular Police Administration for regions of South and North Moravia, Regional Directorate Zlín, all police units within this territory), MoI</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of users</strong></td>
<td>Can hardly be estimated - all users of the network</td>
</tr>
</tbody>
</table>
| **Needs in general**     | - Strengthening the transmission network, enlarging the communication nodes,  
- Ensuring comprehensive supervision and management of the frame relay equipment                                                                                                                  |
| **To be purchased from Phare 2003 (indicative)** | - XP140 ATM backbone switch  
- A4400 R4.2 transit central office incl. A4760 v2.0 system,  
- CISCO7206VXR/400 backbone router,  
- FR switch,  
- managing and supervising regional system for the FR with path management,  
- feeding centre,  
- reconstruction of digital distribution frame,  
- ATM backbone switch supplemented with STM1 Dual MM 155 card  
- A4400 v2.0 transit central office,  
- FR switch,  
- managing and supervising regional system for the FR with path management |
| **Phare resources (up to now)** | CZ 9810-01, CZ 9904-01, CZ00–07–02, CZ 02-07-02- network devices (PCs, scanners etc.)  
- Communication node Zlín composed of Alcatel 4300L transit central office, MSX 140 ATM technology, Vanguard 6455 and 6560 Frame Relay technology, Cisco 3640 data router, Ericsson Minilink 4x2Mbit/s radio relay,  
- Communication node Brno composed of Alcatel 4300L transit central office, 2xMSX 140 ATM technology, 2xDSP and 1xSPMX TDM technology, Vanguard 6455 and 6560 Frame Relay technology, Cisco 3640 data router, Ericsson Minilink 8x2Mbit/s radio relay |
| **From State Budget (SB) - present** | - Communication node Blansko composed of Alcatel 4400 transit central office, feeding centre, MSX 140 ATM technology, Vanguard 6455 Frame Relay technology (approx.11.2 mil. CZK),  
- Communication node Rakovník composed of Alcatel 4400 transit central office, feeding centre, MSX 140 ATM technology, Vanguard 6455 Frame Relay technology (approx.10.5 mil. CZK),  
- Ericsson Minilink 4x2Mbit/s radio relay technology for 30 District Directorates,  
- Network management workplaces for newly established regions (approx. 9 mil. CZK),  
- Cisco 3725 data routers for MOI communication network in Prague (9.8 mil. CZK), |
| **From SB - future** | - Communication nodes composed of Alcatel 4400 transit central offices, feeding centres, MSX 140 ATM systems, Vanguard 6455 Frame Relay systems for 9 District Directorates and 11 locations in Prague,  
- Supplementing of the current communication nodes by Alcatel 4400 transit central offices,  
- Ericsson Minilink 4x2Mbit/s radio relay technology for 26 District Directorates,  
- Radio relay technology 155 Mbit/s for Praha-Ceské Budejovice, Plzeň, Ústí nad Labem, Hradec Králové, Brno, Ostrava |
| **Left to be purchased** | - Communication nodes composed of Alcatel 4400 transit central offices, feeding centres, MSX 140 ATM systems, Vanguard 6455 Frame Relay systems for 9 District Directorates and 11 locations in Prague,  
- Supplementing of the current communication nodes by Alcatel 4400 transit central offices,  
- Ericsson Minilink 4x2Mbit/s radio relay technology for 26 District Directorates,  
- Radio relay technology 155 Mbit/s for Praha-Ceské Budejovice, Plzeň, Ústí nad Labem, Hradec Králové, Brno, Ostrava |