



EXECUTIVE SUMMARY

Communications System Plan: Final Report February 2001

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Region: Europe
Country: Hungary
Sector: Services

TDA Activity Number: 1999-70063A
NTIS Number: PB2001103813

Section I -Introduction

In May 2000, the Hungarian Ministry of Interior (herein after referred to as the "Ministry") retained the services of Auriga Corporation to conduct a feasibility study for the communication system plan. The purpose of this study is to prepare a comprehensive communication system plan for the National Directorate General for Disaster Management.

1.1 Background

The National Directorate General (herein after referred to as the "Directorate") was established on January 1, 2000 under the legislative ACT No. LXXIV of 1999 on the "Direction and Organization of Disaster Protection and the Protection Against Serious Accidents Related to Hazardous Material".

Previously, these services were provided by the following organizations:

1. State Fire Department
2. Civil Defense

The Directorate General is responsible for the direction of the performance of the tasks of the professional State Fire Services and the Civil Protection defined in the statutory provisions. It is financed by the state budget and controls its own financial expenditures. The responsibilities of the Directorate General include the following:

- Determine professional requirements for prevention, rescue work, and disaster protection; and direct and control the work of the subordinate organizations.
- Participate in the prevention and elimination of the nuclear accidents and the probable consequences of natural and industrial disasters and in the organization of protection and national level planning.
- Develop planning, organization and preparation principles and requirements of disaster protection related to classified periods and planning and organization tasks in connection with the rescue of the population and direct the recovery activity of the subordinate organizations.
- Provide for the transportation of the organs designated for international assistance to the disaster area, if needed.
- Fulfill the authority, special authority and special tasks within its sphere of competence and provide a staff of experts for the purpose of executing those activities.
- Perform preparation, application, elimination and planning tasks related to disaster protection and render professional assistance to local governments to plan and organize their tasks and to train their personnel.
- Establish world wide international cooperation in order to strengthen the scientific foundations of prevention, training, elimination- and in some cases: recovery - and collect international experience.

- Cooperate with the central organs of domestic organizations participating in disaster protection and operate continuous duty.

The organizational structure of the disaster protection directorate and the counties is shown in Figure I - 1.

Because of the merger of the two organizations (i.e. Fire and Civil Defense) the communication systems and management information systems (MIS) of the two organizations need to be integrated to provide effective operation of the Directorate General.

1.2 Objectives and Scope

The purpose of this project is to assist the Ministry with its development of a catastrophe prevention information technology (IT) network. This network should meet the immediate needs of the Ministry in terms of catastrophe prevention and should have broad enough range of capabilities to serve as a basis for the expansion of the network into other areas for which the Ministry has the competency.

The primary objective of this project is to design the network architecture and information system necessary to meet the Ministry's goals based on the proposed plan. The secondary objective is to assist the Ministry in expanding its project management and planning skills.

The scope of this project includes: 1. Network Assessment 2. Requirements Analysis 3. Network Design 4. Project Management Plan 5. Tender Document Preparation and/or Procurement Negotiation Memorandum 6. Final Report

1.3 Approach and Methodology

A detailed project plan was prepared by Auriga Corporation in May 2000. This plan included:

1. An agenda for the project kick-off meeting and first two weeks of the project.
2. A list of questions to be discussed and clarified during the project kick-off meeting
3. A list of information to be obtained during the project kick-off meeting
4. A detailed project schedule .
5. A preliminary outline of the feasibility study report.

This plan was submitted to the Ministry of Interior, Hungary one week prior to the project kick-off meeting.

1.3.1 Project Kick-off Meeting

A project kick-off meeting was conducted on Monday June 5, 2000 at the Directorate General. The following people attended the meeting:

1. Mr. Laszlo Babjak, Ministry of Interior
2. Istvan Tatarka, BMOKF
3. Dr. Bela Morotz, BMOKF
4. Gabor Somodi, BMOKF
5. Jozsef Ambris, BMOKF
6. Parkash Daryani, Auriga Corporation
7. Dieter Lohr, Auriga Corporation
8. Brad Bakke, Auriga Corporation
9. Dr. Barnabas Balogh, ENTEL
10. Peter Petri, Interpreter

1.3.2 Interviews

Interviews were conducted with the key personnel at the Directorate General and representative counties to discuss the goals, objectives and expectations of the project and to determine the project requirements. Table 1-1 shows the list of personnel and the meeting schedule.

Table 1-1 - Personnel Interviewed

Item	Date	Name	Subject
1.	June 6, 2000	Dr. Bela Morocz	Catastrophe Protection Law
2.	June 6, 2000	Mr. Gabor Somodi	Information Technology_System
3.	June 13, 2000	Col. Jozsef Ambris	Disaster Management
4.	June 13, 2000	Lt. Colonel Gabor Egri	Microwave Network System
5.	June 14, 2000	Mr. Zoltan Csuzda	ATM Network System

1.3.3 Site Visits

Site visits to representative facilities at the Directorate General and counties were made to obtain first hand information on the systems and equipment located at each site and obtain information of the existing system(s). Table 1-2 shows the sites visited and schedule of the site visits.

Table 1-2 - Site Visits

Item	Date	Place Visited	Contact Name
1.	June 7, 2000	Szolnok County Directorate	Mr. Hoffman, Director
2.	June 8, 2000	Police Center	Col. Lajos Nagy
3.	June 14, 2000	Fejer County Directorate	Mr. Laszlo Uveges, Director
4.	June 15, 2000	Budapest Fire Headquarters	

1.3.4 Meetings with Suppliers of Equipment

Meetings with selected equipment suppliers were conducted to get first hand information on the products and services being offered by the companies in Hungary. Table 1-3 shows the meetings conducted with the selected vendors.

Table 1-3 - Meetings with Equipment Suppliers

Item	Date	Company Name	Contact Name	Telephone No.
1.	June 9, 2000	Motorola	Dr. Jozsef Galambos	36-1-250-8330
2.	June 9, 2000	Siemens	Gyorgy Stefan	36-1-471-2460
3.	June 9, 2000	Cisco	Tivadar Dienes-Oehm	36-1-235-1124
4.	June 13, 2000	Ericsson	Gyorgy Mamusich	36-1-437-7275
5.	June 14, 2000	Compaq		

1.3.5 Evaluation of Existing Systems

Based on the information provided by the Ministry, existing systems were evaluated for adequacy, performance, and future expansion.

1.3.6 Requirement Analysis

Based on the information provided by the Ministry, existing and future requirements were developed for the network architecture and information system.

1.3.7 Network Design

Based on the existing and future requirements of the Ministry, network design was prepared.

1.3.8 Project Management Plan

A detailed project management plan was prepared for the proposed network. This included implementation schedule and cost estimate.

We recommend that the Ministry use standard project management software tools such as Microsoft Project. These tools will help to monitor and control complex project time schedules, resource usage and budget allocation. Microsoft Project can create Gantt charts and Pert Charts (Network Diagrams) which are useful tools for keeping the project team members and management staff informed of the status of the project.

1.3.9 Tender Document/Procurement Negotiation Memorandum

Technical Specifications for the proposed equipment and system were prepared. The Ministry will prepare the tender documents based on their procurement guidelines and general terms and conditions for the procurement of systems and equipment required for the network.

Technical Specifications are provided in a separate document.

1.3.10 Final Report

The findings of the study are summarized in this final report.

1.4 Report Structure

This report is organized into two volumes. Volume I contains the Final Report of the Feasibility Study. Volume II contains the Technical Specifications. Volume I - Final Report is organized as follows:

Section I provides an introduction and describes the objectives and scope of the project. Section 2 provides a brief description of existing systems. Section 3 describes the project requirements. Section 4 provides network design. Section 5 provides project management and implementation plan. Section 6 provides a summary and recommendations of the project.

Appendix A provides a list of the US manufacturers that can provide goods and services for the project.