DRAFT

ACCOUNTING APPLICATIONS

SALARIES

1. Service Definition

- Calculation of salaries for CERN Staff.
- Control, archiving and utilisation of the salary package output.

2. System Support Structure

- The GIP program used under VM/CMS and/or DOS comprises 2 files:
  - The payroll file
  - Personnel file and their individual files

Apart of this, the program handles:

- The file with the results of current payments
- Archives with yearly results
- Archives with individual recalls

The monthly results are, with help of interfaces written by ADP, transferred into:

- The financial database of the General Accounting
- VSAM files accessible by means of the report Generator EASYTRIEVE

The GIP program comprises an exploration generator permitting personal document selecting, extract information, sorting, printing, etc.

3. Access method hardware/software

Running under VM/CMS. Used are:

- 2 IBM terminals of the type 3278
- 1 Olivetti terminal TCV288
- 1 local Olivetti printer 1370

4. User Community

- Accounting Personnel
5. User Objectives

- Maximal automation of work concerning salaries and additional payments.
- Availability of a test system for new or complex cases.

6. Description of Utilisation

- Partial update of individual files
- Production of monthly, periodical, annual justifications and additional payments
- Interrogation of individual files and results of salaries.

7. User Problems

- Absence of a test system permanently available for immediate results.
- Insufficient documentation
- Modification of programs too slow.

8. Desired Developments

- Conversion of individual files to "flat files" to facilitate their interrogation
- Listings printed on A4 paper.

9. Relations with Service Group – Communications

- The current user problems are discussed with the ADP analysts, who contact if necessary the supplier CGI, of the GIP software.

10. Service Level versus User Expectations

- See 7.

11. Desired Modifications

Permanent assignment of an ADP analyst to study the particular user problems.
ADVANCES AND CLAIMS

1. Service Definition

Registering and payment of:

- Advances
- Claims
- Bills of third parties concerning personnel expenses

This application should shortly be run under GIP software (1987?)

2. System Support Structure

In 1973 and later, several programs have been written by ADP for this application. At the moment the data entry is done with K7 under IDMS/DC. Some information is controlled or extracted from the individual GIP files. All the files are VSAM type and can be interrogated via the report generator EASYTRIEVE. All batch data is transferred (interfaces written by ADP) on a weekly basis to the financial database of the General Accounting and monthly to the VSAM files with the results of the payments.

3. Access method hardware/software

- 1 IBM terminal Type 3278
- 1 Olivetti terminal TCV288
- 1 local Olivetti printer Type 1370

4. User Community

- Personnel Division
- Accounting Personnel

5. User Objectives

- Maximal automation of processing of advances and claims.

6. Description of Utilisation

- Entry and registering of data
- Production of automatic payment slips and periodical justifications, monthly/yearly.
- File interrogation

7. Technical Limitations

- Access problems to ADP computer (number of ports limited)
- The current system written in 1973 needs a total review.
8. User Problems

- Absence of interactive system to access advances and claims files.
- Missing statistical data
- Clumsiness of administrative circuits
- Data transfer to financial data base

9. Desired developments

- Analysis of needs and means to be settled as soon as possible with divisions and services concerned.
- Listings printed on A4 paper

10. Relations with Service Groups

- Communications
- Current user problems are rare. They are treated, if necessary, with the ADP analyst, who conceived the application programs.

11. Desired Modifications

- Permanent assignment of an ADP analyst to study the particular user problems
- Increase of data available to facilitate the analysed work on expenses and their extrapolation.
ACCOUNTING ON NIXDORF

1. COMPUTER SYSTEM CHARACTERISTICS
   - Nixdorf 8860 Model 30
   - Central Unit 1 MKb
   - 2 disks 66 Kb
   - 1 tape unit double density 800/1600 BPI
   - 1 controller for telecommunication
   - DIPOS operating system
   - TECOS telecommunication operating system
   - COBOL compiler
   - NIOS (Nixdorf integrated organisation software)
   - Software realised with the firm Brodmann and then developed in the context of the Nixdorf contract.
   - Dialis Query
   - Multi-post system
   - 6 terminals, 2 printers

2. FINANCIAL ASPECTS
   - 207 KCHF for progressive installation since 1983
   - Maintenance and licences – 34 KCHF
   - Basic Software – 46 KCHF (BSS)
   - Contract for assistance in developments – 20 KCHF/year (to be renewed each year)

3. PERSONNEL INVOLVED
   - Data Entry and processing of Bilbook
   - Data Entry and processing of file of suppliers, debtors
   - Treasure
   - Data Entry and processing of housing funds
   - Control of payments
   - Data Entry and processing of taxes (Icha – TVA)
   - Hardware/software/development management – 1 man/year

4. FUNCTIONAL DESCRIPTION
   Objectives of the system
   - Computerise most FI – F tasks
   - Diminish ADP overload (e.g. continuation of data entry during salary processing.
   - Develop punctual applications)
   - Language version used
   - English/French for programs
   - French for data
   - Technical Limitations
   - Printing being slow
   - Planned Improvements
   - Supplier accounting – follow-up cash management
5. COMMUNICATION

At present transactions are sent to ADP processing. A line in 3270 mode for dialogue with, and use of Nixdorf terminals (like IBM) is foreseen.

6. Specific text-processing applications

• A4 – A3 page/page or continuous stationary
• Requirement for French characters
• Typewriter quality text

7. USER COMMENTS

• Typically corresponds to decentralisation needs for a better service, avoids to overload the central system and has no contingency of multi-users.
• The actual deficiencies are connected to personnel and budget limitations.
• Realise developments mentioned above.

8. RELATIONS WITH SUPPLIERS

Good.
ACCOUNTING ON ADP

1. DESCRIPTION

- Service Definition
  - Creation, follow-up, update of commitments (orders, contracts, etc.)
  - Constitution of payment slips according to bills, payment instructions, etc.). Accounting of payments (expenses).
  - Accounting of various financial instructions, book-keeping and follow-up of cash management.

- System Support Structure
  For the processing of this data in the financial base (FDB), the teleprocessing system IDMS/DC is used.
  - This system drives about 10 IBM terminals of the type 3278 and Olivetti TCV288.

2. USER SERVICE

- User Community
  Finance and accounting services and User Divisions

- User Objectives/Description of Utilisation
  Computerised production of statement of accounts, analytical statements, monthly/yearly balances, payment slips, magnetic tapes with payments information. Updating of financial data base.

- Current performance/Technical Limitations/User problems
  Current performance good, difficulties when requiring new applications or developments.

- Desired Developments
  - Permanent updating of the FDB for on-line interrogation needs.
  - More generalised printing of A4 listings.

3. RELATIONS WITH SERVICE GROUP

- Communications
  All problems are discussed with the responsible ADP analyst, who contacts operators for hardware problems, if necessary.

- Desired Modifications
  It should be foreseen to assign an analyst to F-I-F.