Public Sector

NIVADIS

The high-performance procedure handling system for the police

Knowledge-based procedure handling system for the support of any police proceedings. Emphasis on efficiency and on support of investigations without media conversion.

Motivation

The essential requirements concerning IT deriving from police investigations and case handling are:

_ Cross-functional information management that aims to make all information that is relevant and helpful for an investigation available online

_ Efficient retrieval of information

_ Independence of the local workstation because data and information follow the user to different work locations

_ Flexible data entry functionality for the realistic and comprehensive recording of real cases without inflexible clinging to forms

_ Overcoming obstacles within the areas of organisational and hierarchical structures, competence areas, fields of responsibility and department boundaries

_ Maximum optimisation of previously time-consuming manual processes (e.g. information services)

_ State and nationwide standardisation of data entry and data quality as well as a shared approach regarding data analysis

_ Organisation neutrality through very flexible authorisation system

_ Cost-effective operation and platform independence

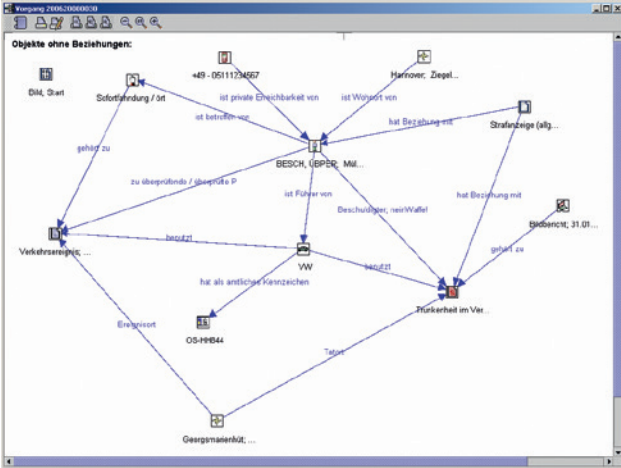## The solution: NIVADIS

Convenient processing

The graphical user interface of NIVADIS is based on known PC programmes and therefore allows easy and convenient use of the application. Individual logon profiles ensure that only task-related screens are displayed to the end user. The data entry is supported by catalogue support and system-based plausibility checks thus achieving a high grade of data quality.

Statewide central architecture

NIVADIS is based on a completely central architecture. All 11,500 workstations in Lower Saxony have online access to a central database, thus acquiring any case and search information, depending on personal authorisations. This applies Xto any police department and subject area.

_ General Criminality

_ Traffic

_ State Guards

_ Organised Criminality

_ Water Guards

_ Search (POLAS/INPOL/SIS)

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Access rights

NIVADIS contains a completely organisation-neutral authorisation system. With this system any organisational structure can be implemented and access rights can be granted at user, group and folder level. This covers any possible authorisation requirements of the police, from standard processing to particularly sensitive cases. Even major changes in the organisational structure can be implemented in NIVADIS with little personnel effort.

Full flexibility rather than clinging to forms

NIVADIS is designed to record any "objects" related to a case, such as people, objects, cars, events, measures, as single information objects (IOs).

These information objects are linked with each other by their relations. This approach allows the recording of any case in NIVADIS as it actually happened without information loss.

Automatic generation of forms

The automatic generation of forms is based on information objects. This information is selected automatically and included in the form. Depending on the chosen form, manual amendments can or must be made. Thus the effort required for the generation of a form can be extremely reduced once the various information objects are recorded. The selection of existing forms is context-sensitive. Depending on the chosen information object, only the appropriate forms are shown, which increases clarity.

Full integration of PKS data

NIVADIS offers the user the functionality to mark a case as PKS*– relevant when closing it. The additional information necessary for the PKS can then be recorded and tested for plausibility errors. The information generated from this process and the increased data quality are automatically transferred to the analysis database, which then automatically generates the PKS. Besides the technical control of data quality, no further manual intervention such as double recording is necessary.

Full integration of police information and search systems

The most important police information and search systems are integrated in the NIVADIS interface: POLAS/INPOL, Schengen Information System, the central register for foreigners and the central traffic and information system. These systems can be operated directly without changing a window or application using the existing data.

Consistent one-time data entry

NIVADIS consistently pursues the principle of one-time data entry for each case. Example: A recorded person can appear in a case in several roles (whistleblower, suspect, owner, user...). The person has to be recorded only once.

Automatic information service proceeding

NIVADIS supports selection through the crime key ("Deliktschlüssel") as well as the use of analysis markers for police information services. Any necessary information is retrieved from the recorded case data and automatically made available on the analysis page to the specific departments on a daily basis or, if requested, nationwide as generated reports.

Through this functionality

_ Formerly paper-based information services can be completely replaced

_ More information is recorded

_ The necessary effort is considerably reduced

Further functionalities

_ Convenient processing because of

- Graphical user interface

- Extended catalogue support (state- and/ or nationwide standard catalogue)

- Task-related views

- Individual logon profiles (non-authorised parts of the application are not shown)

_ Connection to GIS

_ Integrated full-text search

_ Function-orientated workflow support

_ Implementation of the electronic case file

_ Implementation of the electronic criminal file

_ Integration of digital images (image report, slide presentation)

_ Topic-related collection

Technology

_ Platform independence (J2EE, Java, Open-Source): NIVADIS is usable client- and serverwise with Windows, Linux and Unix.

_ Availability > 99.8 % because of cluster technology, redundancy and message queues

_ Highly scalable technical architecture

_ Full functionality through DSL connection

* Police criminal statistics
  In German: Polizeiliche Kriminalstatistik, PKS

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Sopra Steria, a European leader in consulting, digital services and software development, helps its clients drive their digital transformation to obtain tangible and sustainable benefits. 45,000 experts in 25 countries provide end-to-end solutions to make large companies and organisations more competitive by combining in-depth knowledge of a wide range of business sectors and innovative technologies with a fully collaborative approach. Sopra Steria places people at the heart of everything it does and is committed to making the most of digital technology to build a positive future for its clients.

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