



# Factsheet Smart@Data



VX Company  
Forensic Analytics

**smart@data.**

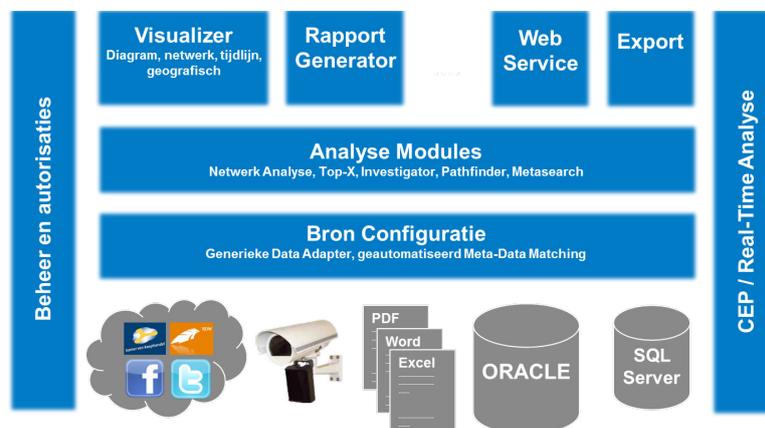


Smart@Data is a software suite designed for in-depth analysis and profiling of large volumes of data. You can use it to collect, store and manage structured and unstructured data, such as databases, spreadsheets, text documents, social media channels and sensors. Smart@Data makes it possible to discover patterns and links in large volumes of data. The analysis is being executed on the original data, no matter if these are stored in different databases or on different servers. The integrity of the analyzed data stays fully intact. Results are presented in graphic displays and reports.

## Functionality

Four main modules form the core of Smart@Data:

- Generic Data Adapter (GDA)
- Analysis modules
- Presentation/integration layer
- Real-Time Engine (RTE)

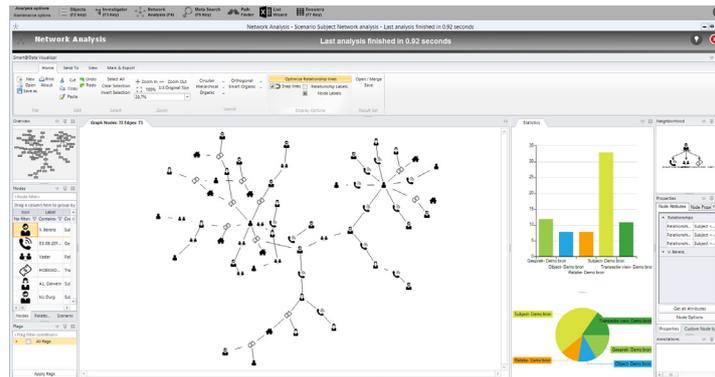


De GDA makes it possible to disclose a vast amount of sources, independent of underlying technology or data structure. In Smart@Data meta-data describing the connected sources, is stored in the internal application database. The original sources are not being imported in a data-warehouse but can be addressed directly. Though, In situations where it is preferable to import data from sources, Smart@Data provides functionality to create a data warehouse.

De analysis modules offer functionality for network analysis, profiling and automated data exploration. Data can be analyzed from every aspect with unlimited depth.



In the presentation / integration layer are the components that present the analysis results. Smart@Data offers several different modules for (geo)graphical representation of results, but can also integrate with other products like IBM i2™.



The enhanced logging and auditing mechanism keeps track of all activities on the system. The authorization mechanism admits entrance to connected data sources and the several parts of the application for each different user of the system. Smart@Data offers all the needed functionality regarding authorization, log-ging and auditing so it can be deployed in highly sensitive environments like law enforcement, intelligence services etc.

## Main features

### Unlimited amount of connections

Smart@Data can connect to an almost unlimited amount of servers and databases (local and remote).

### Create on the fly relations

An unlimited amount of relations can be defined between different files and tables, no matter the server or database these are stored on. This makes it possible to detect comprehensive networks between persons, objects and other kinds of information.

### Large variation in analysis possibilities

Smart@Data offers a large variation in analysis results, varying from realtime pattern recognition in large data-streams to statistical source exploration.

### Traceability

The analyses results produced by Smart@Data can be traced back to the original data in the sources con-nected to the system. The application keeps full logging and auditing of all user actions.



### **Metadata search**

In an environment where many different data from multiple sources are brought together, it is often difficult to perform unequivocal searches. One entity can be stored in the same or different sources as 'suspect', 'victim', witness" etc.

Smart@Data works with "meta data" objects , where data is being classified on 'meta' level. Using the meta-level labels, Smart@Data relates the the underlying objects. For example, the different appearances of persons or objects can now be searched on the meta-level of 'person', 'financial transaction' etc.

### **Easy building of complex queries**

Without any knowledge of SQL users can perform complex queries with the build in Query wizard.

### **Real-time monitoring of profiles and indicators**

The Complex Event Processor (CEP engine) handles large volumes of transactions and allows complex analyses to be executed in the background. The analyst will receive automatic notifications when analyses lead to relevant results.

### **Enhanced visualization possibilities**

Smart@Data offers enhanced visualization possibilities. Complex network-analysis can be displayed and explored in the graphical interface.

### **Comprehensive search in unstructured data**

Smart@Data offers several possibilities to search unstructured data for relevance. Even more advanced queries like phonetic search, logical expressions and searching for text-patterns can be performed.

### **Flagging of data and creating annotations**

The build in flagging mechanism makes it possible to mark (groups of) data. The moment a "flagged" item appears in an analysis, this will be shown to te user, including a description why the item was marked. In graphical analysis results, annotations can be created on objectlevel.

### **Enhanced authorization mechanism**

The enhanced logging and auditing mechanism keeps track of all activities on the system.



#### **More information?**

Erik van de Schaft

+31 6 27 18 96 62 or [evdschaft@vxcompany.com](mailto:evdschaft@vxcompany.com).