*► Consulting & Development*

*► System Analysis*

*► Support*

**Profile** Last update: 14 July 2025

### Personal details

|  |  |
| --- | --- |
| **Name:** Olaf Franke **Photo:****Nationality:** German**Place of birth:** Königsee / Germany**Marital status:** married**Profession:** Bachelor of Engineering in System Conception**Business:** IT-Consultant, freelancer**Address:** Olaf Franke, Dipl.-Ing. Bahnstr. 61 64546 Mörfelden-Walldorf, Germany**Contact:** Mobil: +49 173 345 53 68 Office: +49 6105 707 8201 Email: olaf@franke-edv-beratung.de**Link:** [www.franke-edv-beratung.de/Profil\_Eng.pdf](https://www.franke-edv-beratung.de/Profil_Eng.pdf)**… in German:** [www.franke-edv-beratung.de/Profil.pdf](https://www.franke-edv-beratung.de/Profil.pdf) | Ein Bild, das Menschliches Gesicht, Person, Lächeln, Kiefer enthält. |

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### CV – Curriculum Vitae

|  |  |  |
| --- | --- | --- |
| 1970 - | 1980 | **P**olytechnische **O**ber**s**chule (POS) first grade to grade 10 in Suhl (this comes up to elementary school + grammar school) final grade passed with „distinction“. |
| 1980 - | 1982 | Apprenticeship with A - levels of Mechanic for Data processing- and Office Machines - final grade passed with „good”. |
| 1982 - | 1983 | Achievement of matriculation standard (high school diploma) at the Labour- and Farmer Faculty to Halle/Saale to prepare myself to study abroad. |
| 1983 - | 1988 | Study at University of Electro Technology to Novosibirsk and degree as Bachelor of Engineering for System Design Technology passed with „distinction“. |
| Sep.1988 - | Oct.1990 | Employment as a system designer in the Research & Development department of Robotron Elektronik Zella-Mehlis (creation of a syntax parser for a new designed programming language). |
| Nov.1990 - | Mar.1995 | Employment as IT Consultant at DIGNOS EDV GmbH in Mörfelden-Walldorf: including service on several clients, project analysis, database design, implementation. |
| Apr.1995 - | Nov.1997 | Freelance activity as an IT-consultant: contracts for services with MLP Dignos Software GmbH to Heidelberg, service on several clients, project management, project analysis, database - design, implementation. |
| Dec.1997 | Dec.2001 | Freelance activity for TLC GmbH with projects doing parallel for several corporations of the Deutsche Bahn (appr. DB, German railways): advisory service, analysis, project management, programming, business management, supporting technical management. |
| Jan.2002 | Jan.2003 | Freelance activity for DB Systems GmbH with projects for several corporations of the Deutsche Bahn, analysis, programming, business management, TM1-implementation, supporting technical Management. |
| Feb.2002 | Jun. 2003 | Freelance activity for Beckman Coulter, project management, analysis, user-software development. |
| Aug.2003 | Sep.2003 | Freelance activity for Sinius GmbH: programming for software packaging; automatic installation procedures for a Citrix terminal server. |
| Oct.2003 | Nov. 2005 | Extensive advisory service at a BI[[1]](#footnote-1)-Project for a market leader in developing technical orthopedics, development of a „Sales & Management Information System“ and a call planning and reporting system. |
| Dec.2005 | Feb. 2006 | Developing of programs for offline – visiting – reporting. |
| Mar.2006 | May 2007 | BI development for „Cost Savings Tracking“ with Applix TM1 for a major bank in Amsterdam / Netherlands. |
| June2006 | Sep. 2007 | BI development for „Global Cost Savings Tracking“ with FDM, Hyperion Essbase and MS SQL 2005 for a major bank in Amsterdam / Netherlands. |
| Jan.2008 | Jan.2008 | SMIS – Sales Management Information System. POC[[2]](#footnote-2), to replace the whole OLAP Objects – Web frontend by arcplan. (this project is not listed separately below) |
| Nov.2007 | Feb. 2008 | BI: Redesign und performance tuning of the "Sales Panning Tool" with MS SQL 2000 und MS Analysis Services for a supplier company for automobile parts |
| Mar.2008 | July 2009 | BI development: „General and Administrative Cost Forecasting (G&A)“ in the branche of industrial real estate in Amsterdam/NL. |
| Jan.2009 | Oct. 2009 | Design of a TM1 OLAP database and a TM1Web frontend in order to analyze SAP key figures; based on SAP BW – cubes. |
| Aug.2009 | Sept. 2009 | Optimization of Cytomics™ Bead Assay Analysis; implementation of new curve fits. |
| Oct.2009 | Oct.2009 | Enhancement of arcplan functionality: an interface to start TM1 Turbointegrator processes and gather their results |
| Nov.2009 | Dec.2009 | Design of a TM1 database for technical quality analysis project (Deutsche Bahn). |
| Jan.2010 | June2010 | **BI** Analysis & Development: Remediation of a Cost Estimation Tool. |
| Jan.2010 | June2010 | BI development with arcplan building a Dashboard for the purchase controlling; based on SAP/BW and MS SQL 2005. |
| Dec.2010 | Apr. 2011 | BI analysis and development: Design of a TM1 DB for Cognos Controller data - preparation for Cognos BI reporting. |
| May2011 | June 2011 | Prototyping BI reporting of SAP sales data. |
| June2011 | Jan.2016 | Extensive development (TM1, Oracle, VBA) and support tasks in planning and controlling for a large investment company. Various projects with customers to customize implemented TM1 BI solutions. Training Courses. |
| Feb.2016 | Mar. 2017 | TM1-BI solution with TM1Web for "Planning and Reporting Re-Design" in the logistics sector based on TM1. |
| Apr.2017 | Oct. 2020 | Projects for controlling, analyzing and reporting costs, as well as continuous further development of TM1 **BI** systems. |
| Jan. 2021 | Dec. 2024 | Analysis, migration, development and support in the controlling environment; creation and further development of TM1 **BI** systems. |
| Dec. 2024 | Apr. 2025 | Analysis of existing and forecast of future depreciation in a TM1 model. |
| Mai 2025 | June2025 | Refactoring of a cash discount monitoring system in MySQL and TM1. |

### My aim

*Development of error-free, easy-to-use and powerful applications with the latest know-how in a very short time; of applications with which the customer can analyse, efficiently and flexibly control his company and to ensure the long-term viability and expansion of his company.*

### Focus (in finding projects)

1. Development of BI (Business Intelligence) and BPM (Business Performance Management) systems, based on the OLAP technologies of IBM Cognos TM1, MS Analysis Services / MS Integration Services
2. Web design (TM1 Web, arcplan)
3. Software development (Python/TM1py, VBA, TM1-Turbointegrator, awk, C, Perl, PS, cmd, sh)
4. Database design (SQL DBs and OLAP DBs) and Database Scripting
5. System administration Windows 2016/2019/... (also amazon cloud), Linux, Unix
6. Software distribution, installation routines

### Services

1. Advisory service / consulting
2. Project management / organization / coordination
3. Project analysis / software - design
4. Administration / support
5. Quality management / testing
6. reporting

### Business areas in which development has taken place

1. Advice / Consulting
2. Project management / Organization / Coordination
3. Project analysis / Software development
4. Administration / Support
5. Quality assurance / Testing
6. Documentation

### Software- and Hardware Proficiency

#### Programming languages

1. TM1: very good knowledge: TI programming, rules, any optimization
2. Python/TM1py: very good knowledge
3. SQL: very good knowledge
4. VBA: very good knowledge
5. Perl: very good knowledge: see Skills/Programming
6. awk: Copybook and MICROFOCUS dialogue system syntax analyzer, extensive scripts for code generation (Cobol, C), analysis scripts TM1 log files: very good knowledge
7. C: very good knowledge
8. PL/SQL: under Oracle 11.2: very good knowledge
9. Powershell, cmd: good knowledge, extensive scripts
10. Shell: sh, csh, ksh: very good knowledge
11. Wise: InstallMaster scripts for various installation routines (Windows 95/NT/2000/2013): very good knowledge
12. C++: Batch programming; Visual Studio 5.0 and 6.0: good knowledge
13. Mantis: together with SUPRA/SQL and ADABAS D under IBM Host and HP/Unix: very good knowledge
14. Clipper: very good knowledge
15. dBase: dBase III, Foxpro: very good knowledge
16. Fortran: good knowledge
17. Pascal: good knowledge
18. Rexx: used under OS/2: good knowledge
19. yacc/lex: syntax analyser for MANTIS: good knowledge
20. Assembler: MASM, 80x86, 8080, Z80: good knowledge
21. Machine languages: Z80: very good knowledge

#### Operating systems

1. Windows Server: 2003 / 2008 R2 / 2012 / 2016 / 2019: extensive knowledge of installation and administration
2. Windows: XP, 7, 8.1, 10, 11
3. HPUX: HP 9000/Unix, MANTIS and ADABAS D
4. Unix
5. SuSE Linux
6. Red Hat Linux: advanced knowledge of Unix/Linux; several years of experience in the administration of Linux servers
7. SUN OS, Solaris, Free BSD: Administrator knowledge of Sun Solaris and BSD

#### Databases

1. *SQL: extensive knowledge of database design*
2. *SQL Server 14.0, SSIS*
3. *mySQL*
4. *Access: Access 97, Access 2000-2010*
5. *Adabas: ADABAS D*
6. *DB2*
7. *SQL-DS*
8. *SQL SUPRA*
9. *ERWIN Data Modeler (Entity Relation Ship Manager for Windows)Applix TM1* OLAP / MOLAP database
10. IBM COGNOS TM1 PAL/PAX/PAW:
	* Version 11.7, Turbo Integrator, Perspectives, Rules, Feeders, Cubewise:arc
	* DatawareHousing (Data Warehouse/Datawarehouse please search for 🡪DatawareHousing)
	* Specialised knowledge of installation, setup, upgrade, backup, user management, security management, tuning, performance measurement, operational management of Windows NT servers, Windows 2008 servers (32 & 64 bit)
	* Design of OLAP-DBs
	* Process programming in Turbo-Integrator (Architect and abc), use of Perspectives
	* Creation of user interfaces with Excel (worksheet functions and VBA programming)
	* Creation of web frontends with TM1 Web and insight/dynasight, Apliqo UX
11. *Hyperion Essbase* OLAP Datenbank
	* Creation of web front-ends with inSight developer
12. *Oracle* 7 and 8
	* Database design, Data warehousing
	* extensive proficiency in setup, tuning / performance - readings and backup large

Oracle – databases (for example: EPA reservation – database); automatic generation of loading - scripts

* + script controlled setup of complete Oracle - databases

#### Network proficiency

1. Windows network: network - administration of Windows NT 4.0 / Windows 2000 - domains
2. Setup network links WinNT / Windows 2003 terminal server
3. Network link to computer through Switches and HUBs
4. Setup of DSL - routers (incl. DNS, Wins and Firewall)
5. extensive proficiency to features in linking of BKU - computers within the network of DB AG
6. extensive proficiency in dealing with printers, printer driver, installation of network- and station printer, solution of printer problems
7. Samba: setup / administration under Linux

#### Microsoft Office 97-2021

1. very good proficiency in using Word, Excel, Access, Powerpoint and Outlook and VBA -Programming under MS Office
2. VBA - API programming

### Soft - Skills

#### Management - proficiency

1. Controlling of IT - projects from the analysis to concept creation and implementation even to cut - over and support, staff coaching
2. Proceeding - controlling: acceptance 🡪 test 🡪 production
3. Advisory service and support for the project management
4. Capable providing of a 2nd- and 3rd- Level Support; high standard IT - support of users
5. Analysis to support - projects with subsequent consultation and quoting with appropriate Service Level Agreements (SLAs)
6. Documentation of the project progress (provide status reports), statistics
7. Providing of development-, acceptance- and production environment for Windows 2008:
	* Analyzing of the required equipment for production environment to match the client´s appropriate server components and the required hardware
	* Ordering processing for the technical environment
	* Hardware setup; complete setup of the environment with or without supplier´s support
	* Installation of the operating system and additional tools for remote controlled maintenance and bug analysis; trial run with optimizing the hard- and software environment
	* Implementation of all development-, acceptance- or production relevant software
8. To accomplish of application interviews
9. To acquire new projects with the customer for the customer

#### Communication, learning aptitude, flexibility

1. English language good in speaking and writing
2. Perfect Russian in speaking and writing
3. In my opinion I can comprehend coherences and backgrounds very well based on the capability to duplicate new issues very fast. That means an excellent understanding of IT – processes. That allows me:
	* to realize problems fast and find solutions
	* to customize into technical solutions
	* to get familiarized on my own in new topics and operate them at once (learning by doing)
	* *to grant to prioritize client’s concerns and NOT “gadgetries”*
4. high coordination- and team aptitude: I have been part of a team quite often in which the individuals has to complement each other to find a solution.
5. I am able to recruit every professional essential for a project. My very good aptitude to communicate allows me to involve everybody in a project and receive all necessary information to guarantee a smooth process.
6. I always keep contacts (e. g. employees, professional contact persons, clients, inhouse support, technical support, project managers, purchasing, project controlling, key account management, etc. pp.) on a high standard what allows me to clear up differences and find an agreement about duties and responsibilities to be done between people involved. This affords individuals to chase the project successfully and turn their attention to the problems to be solved.
7. Due to my very good aptitude in communication with customers I am able to achieve:
	* quick consultations with customers concerning their requirements
	* easy and efficient clarification of issues
	* prompt useful succor, hence you really see what is required and can be turned into applications
8. Flexible support assistance (from 09:00 to 19:00, in well founded cases longer and at weekends)

#### Line of business Know How

1. Banks: cost reporting, cost savings tracking
2. Orthopedic industry: products, distribution, planning, marketing strategies
3. Transport / logistic: long lived proficiency (five years) of special organizational demands, general conditions and processes at **Deutsche Bahn AG**; in particular experienced in projects at the area of management of the technical IT - management for the corporates DB (Deutsche Bahn) Reise und Touristik (travel and tourism), DB Station und Service (station and service), DB Regio und die Zentrale (regional and headquarter). Last year a very important role played the implementation of OLAP databases (TM1) into the field of cost center accounting and finance controlling of the corporate mentioned above.
4. Financial service / insurance: know - how to life insurances, unit linked **LV** (life insurance), administration of assets, **Funds** – purchase / sales and **commission - systems** of insurances

### Projects

Hint: been sorted decreased – latest project appears at first

|  |  |  |
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|  | **Line of business** | Transport/Transport, Central Controlling |
|  | **Projects** | Refactoring of a cash discount monitoring system |
|  | **Term** | May 2025 – June 2025 |
|  | **Products /Environment** | *IBM Planning Analytics 2.1 / TM1, PAW/PAX, Cubewise arc; MySQL; Windows Server 2019.*  |
|  | **Topic / Content** | Analysis, documentation, performance optimisation and support. |
|  | **Type of activity** | * Objective: Takeover and documentation of a complex system for the consolidation of all incoming and outgoing invoices in the company; ETL routes from all connected interfaces (mainly SAP), consolidation in MySQL, as well as import and further processing in TM1 for discount analysis and other checks
* Detecting and resolving performance drops in MySQL scripts and TM1 processes
* Correction of errors and further development of day and night processing processes
* Includes knowledge of special job control software, Perl scripts, MySQL scripts, TM1-TI processes and rules
* Optimisation of MySQL settings
* Monitoring and restarting running jobs
* Analysis, documentation, performance optimisation and support.
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|  | **Line of business** | Cargo Transport / Controlling |
|  | **Projects** | Simulation Model for Depreciation |
|  | **Term** | December 2024 – March 2025 |
|  | **Products /Environment** | *IBM Planning Analytics 2.1 / TM1, TM1Web, PAX/PAfE, Cubewise arc; Python, TM1py; MS Excel, VBA; Windows Server 2016/2019.*  |
|  | **Topic / Content** | BI development of an amortization model for simulations. |
|  | **Type of activity** | * Goal: Replacement of a difficult-to-use Excel application with automated TM1 processes
* Analysis of existing extensive depreciation and net book value data of a large company
* Script in Python to convert the SAP export
* Import of inventory data from SAP: ETL: SAP 🡪 TM1 staging cube
* Concept of an evaluation cube and the required dimensions
* Development of TI processes for the generation of linear depreciation time series up to max. 2070
* Implementation of a split cube and rules for the distribution of depreciation and residual book values to the company's business units for the calculation of details in the forecast cube
* Coordination and implementation of the concept for transferring planned investments (medium-term and long-term planning) of data from an existing TM1 investment model for comparison purposes in the forecast cube
* Development of a TM1 web front end (PASS) and a PAfE front end (PAX) to control the SAP, TM1 and Excel imports into the AfA cubes (realized via VBA export scripts and TI processes with automatic creation of dimensions)
* Transfer of a framework cost dimension from another TM1 instance with TM1py scripts, embedded in TI processes
* Performance and data optimization
* Tests, documentation and user training
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|  | **Line of business** | Cargo Transport / Controlling |
|  | **Projects** | Analysis, migration, development and support in the controlling environment; creation and further development of TM1 BI systems. |
|  | **Term** | January 2021 – December 2024 |
|  | **Products /Environment** | *TM1 11.8 / PA 2.0.9, Perspectives, TM1Web, Rest API, PAX/PAfE, Cubewise: Pulse, arc; Python, PyCharm, TM1py; MS Excel, VBA; PowerShell, Cmd; MS SQL, SQL-Developer, Windows Server 2016/2019.*  |
|  | **Topic / Content** | BI development and support tasks in the TM1 environment. |
|  | **Type of activity** | * TM1 Performance Tuning
* AWS/Windows Server Administration
* Migration of TM1 databases to Amazon Cloud Server (port activations, new ODBC connections, synchronization of data, backups, conversion of TIs with consideration of hard disc access).
* Development of synchronization scripts for data exchange from and to the cloud server, extension of a backup procedure for 15 TM1 instances.
* Testing and implementation of SQL access to various interfaces (performance monitor, company data, etc.)
* Development of a version-controlled top-town planning model in TM1, which maps the KPIs (key performance indicators) for controlling the company in TM1 via hierarchies and rules using a driver logic; visualization via Mind Manager diagrams, interface for entering new KPIs and automatic rule generation; >530 rules for calculating the KPIs.
* Migration and extension of a TM1 investment planning model (separation from a larger TM1 instance, adaptation/recreation of TM1Web sites, adaptation of rules, extension of the support interface in TM1Web, implementation of new functions (cubes and rules) for the evaluation and forecasting of project efficiency analyses).
* Extensive development task to convert an offline cost planning tool running under Perspectives/VBA: Complete revision of the VBA code to use PAfE objects (32/64Bit, PAfE load, login, refresh), update of identifier sheets via PAX functions, performance tests, error logging to the cloud, use of forms for input.
* Turbointegrator scripts for the provision of plan data and secondary billing, start of TIs via PAfE function.
* Connection of TM1 instances via TM1py to central TM1 databases from which cube and dimension data is transferred (e.g. exchange rates, company dimension, framework cost centers, accounts, etc. (modern RESTAPI access to TM1 IBM Planning Analytics without CSV or SQL interfaces); is required for the changeover to the new version 12 of TM1.
* Ongoing TM1 support for users (e.g. with non-functioning Excel reports after the changeover from Perspectives to PAX, non-functioning Active Forms or performance problems) and system support for troubleshooting TI processes or analyzing + fixing various faults in the operation of the Windows cloud environment.
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|  | **Line of business** | IT Service Provider, Controlling |
|  | **Projects** | Redesign of a planning and reporting front end |
|  | **Term** | February 2016 – March 2017 |
|  | **Products /Environment** | TM1 10.2.2, TM1Web, Oracle 12, APEX, Talend, SQL-Developer, Excel 2010, VBA, PowerShell, Windows Server 2012R2 |
|  | **Topic / Content** | Development tasks as part of the Planning & Reporting Re-Design project for the Controlling division |
|  | **Type of activity** | Development of the following solutions:* Conception and implementation of the module: Job control, based on Oracle (tables, views, PL/SQL), TM1-TI scripts and TM1Web frontend sheets
* Development of generic TI scripts to build dimensions and cubes for effort and revenue planning.
* Implementation of the operational management tool (websites and Powershell scripts for backup & migration)
* Conception & implementation of the personnel reporting / personnel expense planning module
* Windows Server Management
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|  | **Line of business** | Fonds Investment |
|  | **Projects** | Transfer Price Agreement (TPA[[3]](#footnote-3)) Booking Interface |
|  | **Term** | Dec. 2014 – Jan. 2016 |
|  | **Products /Environment** | VBA, Oracle 11.2, PL/SQL-Developer (IDE), PL/SQL Scripting, Sql Loader, MS Excel 2010, MS Share Point |
|  | **Topic / Content** | Development tasks as part of the new TPA system for profit distribution; input for SAP |
|  | **Type of activity** | Development of the following solutions:* Requirements analysis / project planning
* Loading different formats and validating input data; general: VBA programming with forms for visualization; PL/Sql for processing in Oracle
* Interface with error display, filtering by deliverables and context-related menus for calling validation functions (e.g. for management fees)
* New volume/revenue cube and extended TM1 interface for loading TPA data; automatic transport of .log files to the client
* Extension of the ECOS Manager (currently 55,000 lines of code)
* Implementation of security functions to fix the status after the booking deadline.
* Validations before starting the transformation (calculation module).
* Preparation of booking information for SAP via extensive (pivot) selects in Oracle. VBA scripts for displaying the bookings in Excel sheets
* 3rd level support from the revenue and cost controlling team
* Provision on Share Point Drives
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|  | **Line of business** | Software development |
|  | **Projects** | TM1 Web Training |
|  | **Term** | Jan. 2015 |
|  | **Products /Environment** | IBM Cognos TM1 10.2.2, TM1-Web, Turbointegrator (TI), Java, Apache Tomcat, Excel, Mozilla Firefox  |
|  | **Topic / Content** | Developer training TM1 Web |
|  | **Type of activity** | In preparation for a major customer project, the developers were introduced to the techniques and handling of TM1 Web.* Preparation of the training
* Holding the 2-day training course
* - Implementation of a practical workshop
 |

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|  | **Line of business** | Fonds Investment |
|  | **Projects** | Cost and Revenue Reporting with TM1 |
|  | **Term** | Aug. 2014 – Aug. 2015 |
|  | **Products /Environment** | IBM Cognos TM1 10.2.2, Turbointegrator (TI), TM1-API, VBA, Oracle 11g, PL/SQL-Developer (IDE), PL/SQL Scripting |
|  | **Topic / Content** | Introduction of TM1 OLAP[[4]](#footnote-4), BI solutions for various volume/revenue and cost cubes. ETL interface for importing data into cubes. |
|  | **Type of activity** | Development of a BI solution:* Changeover to TM1 version 10.2.2, tests.
* Workshop to introduce TM1 to employees.
* Advice on setting up the cube architecture.
* Creating the cube dimensions based on technical specifications
* Cube prototyping based on Excel pivots: Breaking down the number of dimensions from 49 to 28; cube performance tests.
* Data consistency checks of the cube with Excel pivot data Integration of rules for calculating statistical key figures.
* TI processes for the dimension and cube update and control via VBA and the TM1 API via a VBA front end.
* Development of Oracle PL/SQL scripts and views for the preparation of dimension metadata and transaction data.
* Administration of the TM1 server and security.
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|  | **Line of business** | Fonds Investment |
|  | **Projects** | Master Data Editor |
|  | **Term** | Mar. 2014 – Juli 2014 |
|  | **Products /Environment** | Excel, VBA, iGrid, Oracle 11.2, ADODB, ActiveX, PL/SQL-Developer |
|  | **Topic / Content** | Development of a new master data editor for fund master data |
|  | **Type of activity** | Prototyping, development and rollout of an editor independently, based on the ActiveX object "iGrid" from 10Tec.The editor was designed according to revenue controlling specifications and includes the following characteristics:* User survey, requirements analysis, project planning
* Various validations of inputs; e.g. via stored default values in Oracle
* Connection to a "Golden Source" interface
* Automatic recognition of changes in the "Golden Source" and manual or automatic transfer of changes
* Cursor control: context menus depending on operated objects
* Integration of existing MS ComCtl objects such as date/time picker and combo box.
* In addition, an editor for adapting default values has been developed.
* Generic interface for data import/export between the Oracle data stage and Excel developed.
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|  | **Line of business** | Fonds Investment |
|  | **Projects** | TM1 Tools |
|  | **Term** | Mar. 2015 – May 2015 |
|  | **Products /Environment** | Excel, VBA, TM1 v10.2.2, Perspectives, TM1-API, Turbointegrator (TI), Excel 2010 |
|  | **Topic / Content** | Development of new tools to support users |
|  | **Type of activity** | It includes the further development of a Controlling Tools ribbon for Excel; this menu is used by the entire Planning & Controlling team as an add-in.The following functions have been added:* TM1 formula tracer for isolating errors
* Hierarchy build from TM1 to Excel
* Replace TM1 formula with result values
* Reinstating TM1 formulas that were replaced with values
* One-click performance optimization (automatically insert VBA code into the workbook, set important settings in the workbook)
* Start the TM1 Top Utility via a front-end
* Load / Reload Perspectives (even after a crash)
* Start the functions you really need from your own TM1 ribbon

In addition, I coached the employees in Planning & Controlling during their first steps in TM1. |

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|  | **Line of business** | Fonds Investment |
|  | **Projects** | Development and introduction of ECOS 3[[5]](#footnote-5) |
|  | **Term** | Jan. 2013 – Aug. 2014 |
|  | **Products /Environment** | Oracle, PL/SQL-Developer, PL/SQL Scripting, Excel, VBA, ADODB, Hyperion Essbase |
|  | **Topic / Content** | Re-Development of the revenue part of ECOS: extended VBA front end, new data staging and database core processes. |
|  | **Type of activity** | Further development of the user ETL front end ECOS Manager to automate the new revenue loading processes from a new revenue interface:* Loading of fund volumes and revenues in various formats via text or from Excel sheets
* Load performance optimization
* Implementation of PL/SQL processes and interfaces
* Rules for validating the data (Revenues ⬄ Master Data (MD), AuM (Assets under Management) ⬄ MD)
* Connection of the business statistics output, a distribution matrix and other reports
* Connection of Essbase cubes

Support for employees in Planning & Controlling during the introduction of ECOS 3 and continuous further development of the ECOS Manager until 2015:* Immediate resolution of technical problems (3rd level support) as 1 of 2 developers in the team.
* Integration of various required functions such as filling Excel statistics from the DB, statistics test filling (BMS), text/number converter, analysis tool for searching the statistics filling (BMS) for errors
* Import-export tools: Excel sheets ⬄ Database
* Tools for checking closing AuMs / AuM structure
* Connection to external interface for obtaining and testing fund master data
* Integration of an extended name manager for Excel
* Load script for Hyperion Essbase Cost Cube
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|  | **Line of business** | Fonds Investment |
|  | **Projects** | HR Reporting Tool  |
|  | **Term** | June 2011 – Jan. 2016 |
|  | **Products /Environment** | MS Access 2010, VBA, Oracle 11.2, PL/SQL-Developer(IDE), MS Excel 2010 |
|  | **Topic / Content** | Further development of an HR reporting tool under MS Access for SAP and ECOS data delivery. |
|  | **Type of activity** | * Migration of Access tables to Oracle
* Further development of data loading (ETL)
* Creation of new / adaptation of existing Access forms for ETL control and reports
* Extensive adjustments to the database model (in Oracle)
* Migration tests for the production handover
* VBA and PL/SQL programming
* 2nd level support, error tracking
* Training of employees regarding the HR tool functionality
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|  | **Line of business** | Fonds Investment |
|  | **Projects** | Implementation of ECOS 2 |
|  | **Term** | June 2011 – Dec. 2012 |
|  | **Products /Environment** | PL/SQL Developer, PL/SQL Scripting, VBA, MS Access, MS Excel, ADODB, Hyperion Essbase |
|  | **Topic / Content** | Replacement of the old system, based on MS Access, with the newly developed **E**uropean **Co**ntrolling **S**ystem, based on Oracle. Support and further development. |
|  | **Type of activity** | * Support of the loading and processing procedures of the old system until the changeover to ECOS 2 in Sept. 2012.
* Guidance of employees during the introduction of ECOS 2.
* Assumption of all tasks for the further expansion of the VBA front end (ECOS Manager) in cost and revenue controlling
* 2nd and 3rd level support for ECOS 2
* Integration of ECOS functions for loading costs and revenues into a clear Excel ribbon (menu ribbon)
* Development of a script-controlled version rollout system for the ECOS Manager in Planning & Controlling
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|  | **Line of business** | Kosmetik / Beiersdorf AG |
|  | **Projects** | Prototyping BI Reporting of SAP Sales Data |
|  | **Term** | May 2011 – Juni 2011 |
|  | **Products /Environment** | IBM Cognos TM1 9.5.1, Tm1Web, Turbointegrator (TI), Cognos |
|  | **Topic / Content** | **BI** development of cubes for displaying data in Cognos frames based on TM1Web websites. |
|  | **Type of activity** | I have created and optimized a cube with associated dimensions and rules. It was tested and demonstrated that it is possible to work performantly with a TM1 cube, which is based on a very large amount of data. |

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|  | **Line of business** | Financial services, asset management / IBM Switzerland |
|  | **Projects** | Cognos Group Reporting |
|  | **Term** | Dec. 2010 – April 2011 |
|  | **Products /Environment** | IBM Cognos TM1, TI (Turbo Integrator), IBM Cognos Controller 8.5, Windows Server 2003, MS SQL 2005, VMware |
|  | **Topic / Content** | Support for the IBM headquarters in Switzerland: Analyzing and building a TM1-DB with the ability to drill down to posting level as part of the consolidation for group reporting. |
|  | **Type of activity** | Analysis and definition of the FAP Cube and BI Cube dimensions in consultation with the business. Creation of a design document, specifications for the ETL database for loading Computron accounting data, ETL processes for the implementation of test data with the help of MS Integration Services, integrity checks of the defined TM1 hierarchies.Main task: TI script-controlled complete replication of the FAP cube (Financial Analytics Publishing) and automatic creation of dimensions and transfer of data. Creation of dimensions and transfer of data to TM1 BI model, design of rules for currency conversions and calculation of monthly values. Creation of Windows 2003 WMware images under Windows 7 for Controller 8.4 and 8.5 as a development environment and for the upgrade of controller structures from 8.4 to 8.5. |

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|  | **Line of business** | Automobile Construction |
|  | **Projects** | Remediation of a Cost Estimation Tool |
|  | **Term** | Aug. 2010 – Oct. 2010 |
|  | **Products /Environment** | IBM Cognos TM1 v9.5.1, Tm1Web, Turbointegrator (TI)[[6]](#footnote-6) |
|  | **Topic / Content** | **BI** development of a TM1Web front end for a cost accounting tool in the area of planning new plants. |
|  | **Type of activity** | Development of complex TM1 websites for creating cost calculations. Analysis of the existing application, creation of the prototyping, workflow design, implementation of the website design, the TM1 database design including associated TI scripts for triggering website actions. |

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 | **Line of business** | Power Supply |
|  | **Projects** | ZESAR Frontend-Development |
|  | **Term** | Jan. 2010 - June 2010 |
|  | **Products /Environment** | arcplan, MS SQL 2005, Integration Services, TSQL, SAP/BW APD(Analysis Process Designer) |
|  | **Topic / Content** | **BI**-development with arcplan building a Dashboard for the purchase controlling; based on SAP/BW and MS SQL 2005. |
|  | **Type of activity** | Design and update of dashboard sites which show up purchase contracts und reseller overviews.Adaptation and creation of new SAP/BW “Load Process Chains” as well as new Integration Services ETL procedures, development of complex arcplan web sites to present data in an acceptable way for finance controllers. Scripting of Turbo-SQL to re-organize data from SAP/BW. Results are checked out by customers, sites hand over in the productive environment. Support of the current application. |

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|  | **Line of business** | Transport-, Traffic- and Logistics Services |
|  | **Projects** | Design of a TM1 database for technical quality analysis  |
|  | **Term** | November - December 2009 |
|  | **Products /Environment** | MS SQL 2005, Integration Services, T-SQL, Oracle 10g, IBM Cognos TM1[[7]](#footnote-7) 9.5, TI[[8]](#footnote-8) (Turbo Integrator), TM1Web, Cubeware Cockpit, MS Hyper-V Server 2008 R2 |
|  | **Topic / Content** | Development of a management tool to present quality analyzes of stations and trains. |
|  | **Type of activity** | My part of the project: connect TM1 to an existing Oracle-Source and create ETL-processes to build necessary dimensions and fill TM1 OLAP – cubes with data. At the beginning it was necessary to create a development environment based on a Windows 2008 Hyper-V – Servers, installation of MS SQL 2005, TM1/TM1Web and the Cubeware Cockpit. |

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|  | **Line of business** | Healthcare  |
|  | **Projects** | SMIS – Sales and Management Info System |
|  | **Term** | October 2009 |
|  | **Products /Environment** | IBM Cognos TM1, TI (Turbo Integrator),arcplan Enterprise Application Designer[[9]](#footnote-9), Windows Shell |
|  | **Topic / Content** | Enhancement of arcplan functionality: an interface to start TM1 Turbointegrator processes and gather their results |
|  | **Type of activity** | Development of an arcplan🡪TM1 interfaces to start asynchronously mixed sequences of TM1 chores and processes. A specific arcplan-background document hands over parameters through an Windows-Shell, generates shell scripts which are starting TI-processes and this TM1 processes giving back return messages to arcplan. It makes possible this way to create complex administrative websites. |

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|  | **Line of business** | Laboratory technology, Medicine, Cancer researching |
|  | **Projects** | Beckman Coulter |
|  | **Term** | Cytomics™ Bead Assay Analysis |
|  | **Products /Environment** | August 2009 – September 2009 |
|  | **Topic / Content** | Windows XP, Office 2003, Visual Basic for Applications |
|  | **Type of activity** | Implementation of new curve fit models using the Akima library: „Akima Spline“ and „Linear Spline“. |
|  |  | Proof of concept, quotation, implementation and test.Target: a) increase the calculation precision in the lower part of curve fit curves, b) implementation of new curve fit models to fix curve fit errors.Large parts of the VBA code were reviewed in order to increase the performance of analysis calculations. |

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|  | **Line of business****Enterprise** | Audit, Tax, Consulting and Corporate FinanceDeloitte & Touche GmbH |
|  | **Projects** | SAP BW Reporting |
|  | **Term** | January 2009 – October 2009 |
|  | **Products /Environment** | SAP BW, IBM Cognos TM1 9.4, MS Office 2007, TM1Web |
|  | **Topic / Content** | Design of a TM1 OLAP database and a TM1Web frontend in order to analyze SAP key figures; based on SAP BW – cubes. |
|  | **Type of activity** | The main focus at the beginning was the implementation of a prototype database and the POC (Proof of Concept); to work out important target [specification](http://dict.leo.org/ende?lp=ende&p=Ci4HO3kMAA&search=specification&trestr=0x8001)s. In particular, the POC had to demonstrate that it is possible to implement very complex security roles. Afterwards the development part was handed over to a subcontractor of “Franke EDV-Beratung”; the developer was guided at the time of the whole project by myself.Work finished:- Proof of Concept (POC), implementation of a new TM1 security model- definition of all data load processes - scripting of TI[[10]](#footnote-10) processes to update report cubes: SAP BW 🡪 TM1- TI processes to manage implemented security roles- frontend design using TM1Web- documentation |

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 | **Line of business****Enterprise** | Industrial Real EstateProLogis Amsterdam / NL |
|  | **Projects** | General and Administrative cost forecasting (G&A) |
|  | **Term** | Marc 2008 – August 2009 |
|  | **Products /Environment** | - MOLAP-Database: IBM Cognos TM1 (earlier Applix/TM1), TM1Web- Windows Server 2003 64 Bit, Windows XP, Excel 2003- Frontend: arcplan Enterprise® 5.5 (earlier arcplan/dynaSight)- PeopleSoft Finance, PeopleSoft HRM |
|  | **Topic / Content** | This project supports the calculation and analyses of the monthly cost forecasts for employee salary and taxes as well as allows the input of Budgets. |
|  | **Type of activity** | Analysis, Development and Re-Design including TM1, TM1web und arcplan for cost analysis and cost forecast calculations.At the beginning I made a detailed analysis of the existing G&A Data Model and the related arcplan frontends as well: - documentation and bug-finding in 78 TI scripts - bug-fixing and performance tuning of all TI scripts - performance tuning of existing arcplan websites: search for recursions using “SEMI Script Pro”, „clean-up“ of central arcplan documents. - complete graphical re-design of the user interface: a) navigation update b) introduction of standards for interactive objects c) adaptation of websites (user friendly and intuitive control, bug-fixing, implementing easier filters using MDX[[11]](#footnote-11)-Subsets)Additional development demands: - migration from dynaSight 4.1 to arcplan 5.5; migration tests - creation of a new arcplan sites for Plan-/Actual-Analysis - update of Power Point help sites - implementation of a dynamical print menu within the navigation context site  - development of arcplan print sites - development of an arcplan->TM1 interface to start TI- processes asynchronously on websites - creating of arcplan maintenance websites; e.g. create new forecast versions - Re-Design of the whole G&A model: a) bring in additional dimensions into G&A cubes b) create & update dimensions directly from PeopleSoft (PS) c) download of PS HRM[[12]](#footnote-12) data into TM1 employee cube d) creation of TM1Web budget input sites (incl. Action Buttons & background processes) e) creation of a new security model with user roles implemented in TM1 using rule-driven security.Supporting the Forecast- & Analysis team when they implementing changes on the TM1 model, when occurring any TM1 problems, delivering TM1 database administration and arcplan enterprise services administration. |

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|  | **Line of business****Enterprise** | Automobile ConstructionZF-Lenksysteme |
|  | **Projects** | Re-Design and Performance-Tuning of a Sales Panning Tool under MS Analysis Services and MS SQL |
|  | **Term** | November 2007 – February 2008 |
|  | **Products /Environment** | - Databases: MS Analysis Services and MS SQL 2000, TSQL[[13]](#footnote-13), DTS[[14]](#footnote-14)- Windows Server 2000, Windows XP, Excel 2003- Cubus/ABC[[15]](#footnote-15) for OLAP: Planning Tool, used as frontend to MSAS[[16]](#footnote-16) |
|  | **Topic / Content** | Target: In order to increase the performance of planning processes a re-design of all ETL processes has to be take place (>250 kB source code).🡪 ETL[[17]](#footnote-17) preparation of following data parts: actual data, manual inserted budget data, plan data, sales program data.New scripts has to load MS Analysis fact tables much faster based on the optimized data flow. The goal is to load/update hourly all planning cubes. The whole data processing has to be done now by stored procedures (no DTS processing of data). In all stored procedures has to be implemented a detailed logging. That makes possible to find out very fast performance problems and fix occurring bugs.  |
|  | **Type of activity** | The Analysis of all existing DTS jobs and stored procedures, re-design and development of new stored procedures was done by myself (I got functional support from a ZF sales employee). Implementing all needed changes about 80% of ETL scripts is re-developed. E.g.: The script to load only budget data includes about 1000 lines. |

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|  | **Line of business****Enterprise** | Banks / Financial ReportingABN AMRO Amsterdam / NL |
|  | **Project** | Cost Savings Tracking / Provisioning / Performance Measurement |
|  | **Term** | March 2006 – May 2007 |
|  | **Products /Environment** | - Applix TM1 - multidimensional OLAP DB, Turbo Integrator (TI)- TM1-API (Application Programming Interface), Excel VBA- Windows Server 2000, Windows XP, Excel 2002- awk, sed, cmd |
|  | **Topic / Content** | advisory service / development to every task around the TM1 – database: analysis / (further) development / fault isolation / support  |
|  | **Type of activity** | - to generate and modify at the model of OLAP database model e. g. adaption to the current structure of organization- extensive designing with the Turbo Integrator (TI) for dynamic analyzing, converting and filling of cubes  with (cost-)dates, based on different source dates - developing of (TI) - processes for bug tracking - to generate / to modify of multidimensional TM1 - rules - Planning, implementation and cutover of an extensive security  concept with rule - calculated security- implementation of extensive rules into provisioning - cube  and in a cube for performance - readings- Support the MI -teams (MI=Management Information) at  creation of Excel - TM1 - based reports- TM1 – API - programming in VBA to automation of data - uploads and for dynamical generation of reports- Cooperation with data analysts in India- Communication in English (spoken & written)- high flexibility and responsibility at completing the jobs- Administration of two TM1-Databases (reconciliation & production) |

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|  | **Line of business** | Healthcare |
|  | **Project** | Offline Reporting of call plannings |
|  | **Term** | Dec 2005 – Feb 2006 |
|  | **Products /Environment** | - Applix TM1 (OLAP/MOLAP), perspectives, server explorer- Turbo integrator (TI) as scripting - language- TM1 - API (Application Programming Interface)- Excel 2000 / 2002 / 2003, Excel VBA- Internet information server 6.0- FTP, Zip - Tool, cmd |
|  | **Topic / Content** | Offline - reporting to calling on customers through Excel work sheets in addition to call plannings in the web (see: SMIS) Planned calles can be downloaded into these Exel sheets. However, the sheets can be filled in offline (without a link to TM1) and uploaded online into TM1. For this it was necessary to develop a new high performance process for data exchange with TM1 to use 65 Kbps – modem connections as well. |
|  | **Type of activity** | All from one source:- Analysis, conception, prototyping, implementation- Performance tests of TM1 accesses (API and work sheet function)- TM1 – API - programming for process control- TM1 – Turbo – Integrator - Processes programming of data uploads and downloads; synchronal drive through VB - programs- VB - programming to control and fill in the worksheets- Design of the offline – reporting - surface with VB - Controls, with identical functions on the website- Programming of the High – Performance - Interface- to implement language independency (English, German, French …) |

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|  | **Line of business** | Healthcare |
|  | **Project** | SMIS: Sales and Management Information System |
|  | **Term** | Nov 2003 – Nov 2005 |
|  | **Products /Environment** | - Applix TM1® (OLAP / MOLAP), Perspectives, Server Explorer- Turbo Integrator (TI) for scripting - language- OLAP Objects® for TM1 (Web – Frontend)- Excel 2002- Windows 2003 Server, Internet Information Server 6.0- MS SQL 2000, DTS (Data Transformation Services) |
|  | **Topic / Content** | **Business Intelligence** (BI) / Online Analytical Processing (OLAP)It has been provided a web based, world wide available, standardized information-, planning- and controlling platform for the sales as well as the management. Users are the central management, the management of the sales companies and the respective representatives. The system runs with access authority and provides high performance, just in time information about *turnover, disposal, margin, pending invoices, potential of customers, extrapolation and differences to budget* referring to *companies, products, sales areas, customers, currencies, sales channels and business activities.* In addition it has been implemented a platform for call – management.  |
|  | **Type of activity** | I authoritatively have been involved in developing and responsible for: - Analysis and concept creation of sales system- Project Management: prototyping, implementation, performance - tuning- Trainer: administration TM1, development TM1, design of dimensions, cubes and creation of rules, creation of Turbo Integrator - processes, creation of websites with the „OLAP Objects Frontend“, several workshops- Development: Design of TM1 OLAP – database: dimensions, cubes, rules, feeders, security- Development: Design of data warehouse under MS SQL 2000, DTS-jobs for download and go off (ETL) of dates- in particular it was developed a numerous number of Turbo Integrator (TI) processes for automatic setup of TM1 – database- Performance – Tuning / adaption of TM1 and the websites- Conception and implementation of an online – call planning and – reporting platform  |

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|  | **Line of business** | Banks and Financial Service |
|  | **Enterprise** | Deutsche Bank, Sinius GmbH |
|  | **Project** | eBranch Rollout |
|  | **Term** | Aug 2003 – Sept 2003 |
|  | **Products /Environment** | Wise Package Studio, Netinstaller, Wise Script, Windows 2000 / Terminal Server, W2k, active Directory, Perl Development Kit, Cmd, Windows Scripting Host, Windows Resource Kit |
|  | **Topic / Content** | Packaging and test of software for a Citrix Terminal Server Farm within the eBranch - project to adoption of Windows 2000 for every application  |
|  | **Type of activity** | Consultation to methods of installation, implementation of all duties and responsibilities regarding to the project on my own initiative: Analysis of the delivered software, install the software and generate the trace, MSI installation packages to generate and to modify, installation tests and integration tests Developing of special scripts in Perl, wsh, vbs and cmd. Creation and formulation of solutions in teamwork Creation of SSC - packages (Sinius Install Manager) |

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|  | **Line of business** | New Media |
|  | **Enterprise** | OLAPLINE GmbH & Co. KG |
|  | **Project** | OLAPLINE Web server |
|  | **Term** | July 2003 – August 2003 |
|  | **Products /Environment** | Windows 2003 Web Edition (Internet-Server), Sharepoint Services, MS SQL, FTP, HTTP, IIS, IPsec |
|  | **Topic / Content** | Implementation of a communication - server for exchanging documents, for scheduling and implementation of Net-Meetings and surveys |
|  | **Type of activity** | implementation of every duties and responsibilities regarding to the project on my own initiative: Analysis, setting servers, install services, implementation of the security procedures (IPsec); administration of Share – Point - Services and MS SQL – database |

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|  | **Line of business** | Laboratory technology, Medicine, Cancer researching |
|  | **Enterprise** | Beckman Coulter |
|  | **Project** | Cytomics™ Bead Array Analysis |
|  | **Term** | Feb. 2003 – June 2003 |
|  | **Products /Environment** | Windows NT / 2000 / XP, Excel 97 / 2000 / XP, VBA |
|  | **Topic / Content** | Concentration identification and visualization of data coming from a Cytomics™ RXP Analysis[[18]](#footnote-18), programming of frontends, charts, curve fits to the results and the proof - concentration–identification, project implementation at a fixed price |
|  | **Type of activity** | Project analysis, quotation, creation of a target specification and complete implementation of every duties and responsibilities regarding to the project on my own initiative: researching and determination of appropriate curve – fitting models, statistical rating of the curve, proof charging, printing out the results, matching and test at the client, extensive programming with Excel VBA to create professional Excel – workbooks for using in lab process |

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|  | **Line of business** | Transport-, Traffic- and Logistics Services |
|  | **Enterprise** | TLC GmbH, DB Systems GmbH |
|  | **Project** | ELFE (electronic phone call billing system) |
|  | **Term** | Aug. 2000 – Jan. 2003 |
|  | **Products /Environment** | NT 4.0 - Terminalserver, Access 97, Veritas Backup Exec, Perl, FTP, Topline[[19]](#footnote-19), ELRE[[20]](#footnote-20) - Trans [[21]](#footnote-21), BusinessMail (Mailbox X.400), SAP, PC-Box, Mailbox X.400, EDIFACT[[22]](#footnote-22) |
|  | **Topic / Content** | 1. automatic download of telecommunication invoices (supplier Telekom – Festnetz (landline), D1-Mobil, D2-Vodafon) for ten companies of Deutschen Bahn AG through Perl - Programs
2. simple user editing of the invoices in Topline
3. to forward the dates to a finance archive and for booking to a

SAP – System |
|  | **Type of activity** | analysis, installation and operation of the NT – Terminal - Server, creation of a target specification, interface programming for finance archive and for SAP R2 in Perl, 2nd Level Support NT – Terminal - Server and ELFE – processes, operating of a Windows – domain, maintenance / modification and performance - tuning of the Access-Databases |

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|  | **Line of business** | Transport-, Traffic- and Logistics services |
|  | **Enterprise** | TLC GmbH, DB Systems GmbH |
|  | **Project** | EPA Statistics |
|  | **Term** | Dec. 1998 – Jan. 2003 |
|  | **Products /Environment** | Oracle 8, PL/SQL, Perl, FTP, Tandem, Windows NT 4.0, Veritas Backup Exec, Microsoft Office |
|  | **Topic / Content** | 1. EPA: **E**lektronische **P**latzbuchungs **A**nlage (electronic seat booking system of Deutsche Bahn)
2. Migration of a TANDEM - database for Germany wide bookings based on Oracle, upgrading as an online – information – database, data compression at migration
3. Due to modifying database design performance, extensive online - queries to booking - information are permitted, (can be used for debugging in bookings, too).
4. The dates have to be saved for data recall for at least two years

(ca. 180 GB) (before done on Tandem - Host max. 1 year). Attention has been turned to processing huge quantity of information fast(several hundred thousands bookings a day) as well as a performance - orientated optimization of this database.1. To generate an interface to Index - Sequentially database files from tandem host; conversion in a loadable Oracle data type; automatic creation of load - procedures for loading the dates according to Oracle
2. hardware selection and setup for setup of an adequate server under Windows NT
3. daily downloads and processing of the dates after migration had been done
4. ‘to retrace‘ the modifications in Oracle, which are carried out on tandem host while production was running
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|  | **Type of activity** | Project management, analysis, database design, programming of the conversion- and loading scripts in PL / SQL and Perl, administration of NT - servers and the Oracle - DB (hardware extension, database performance optimizing, backup, restore), service after system completion, using guide, daily automatic batch - processes for processing all dates in Perl, backup - concept and implementation of the backup process via Veritas Backup Exec |

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|  | **Line of business** | Transport-, Traffic- and Logistics services |
|  | **Enterprise** | TLC GmbH, DB Systems GmbH |
|  | **Project** | CM Operation Management |
|  | **Term** | Oct. 1998 – Dec. 2002 |
|  | **Products /Environment** | Server : NT 4.0, Win 2000; Clients: Win 95 / NT /2000 / XP, Web-Server: SuSE Linux / Apache, SAMBA; Tools: Visual Studio 6.0, Wise Installer / InstallMaster, Install Shield, AdminStudio, Perl, sh, ksh, cmd, C/C++, MS Excel, MS Word, PL / SQL, NetObjects Fusion 7; Databases / interfaces: Oracle 7&8, MS Access, Windows Registry, ODBC, TCP/IP, SMB, FTP |
|  | **Topic / Content** | **C**hange **M**anagement: Establishing standard procedures for automatically distributing of software to several hundreds users of Windows 95, subsequently NT / 2000 / XP; for user information it has to be run a web – server  |
|  | **Type of activity** | Based on a software supplying server the application will be tested via an acceptance procedure within the acceptance environment and then released for production - environment to several hundred users. However, at the relevant users an installation or update will be accomplished. The installation will be made by appropriate scripts through Wise – Installer / InstallShield as EXE and MSI. The distribution affected software as follows primarily:1. **ARIS Toolset** (COOL:Biz, COOL:Gen)
2. **KURS´90 Doku** (documentation for ticket selling system in HTML)
3. **Star Quadra** (Client library - administration)
4. **VPS** (traffic - planning - system as online version and local version)
5. **Relinfo** (relations information to driven distances, public travel vehicles and ticket prices)
6. **TM1-Clients** (different OLAP – database – client - installation with Lizenz-Management)

Tasks as follow had been done:1. Distribution and automatically installation programming to get the software established at the user
2. to compile / completion of delivery packets
3. Completion / input of Oracle - dates under Sun Solaris (Relinfo)
4. Supervising of version controlled distributing
5. Bug analysis and debugging at 2nd Level Support, debugging at database connection and network - communication; management of network- and FTP- releasing and database access authorizations
6. Training of the 1st Level Support product delivery
7. Management: project management, analysis and design of the complete project in personal responsibility; this affected the data distributing and 2nd – level – support, too
8. Programming of Wise - Scripts and InstallShield - Scripts, plug ins for distributing into C/C++, NT – Server – Administration

The software distribution was insofar quite sensitive as already existing Oracle- and MS Office – installations have to be used within the BKU - environment (**B**üro**k**ommunikation **U**nternehmensweit / office communication corporate wide) Hence it was necessary to select the being modified registering keys and DLL’s, OCX’e, etc. to avoid a negative influence on the other applications. 1. succeeded tests of the extraditable software have been done extensively in tight cooperation with the Acceptance – Test Persons. Rollback - mechanisms for delivery rounded out the picture.
2. For forwarding information to the users an information - server as Apache - Web-Server has been installed, setup and administrated under SuSE Linux.
3. Everything has been reported comprehensively.

For supervising of the completed software distribution – systems following duties and responsibilities were included:1. guidance of the 1st Level Supports
2. 2nd Level Support on my own initiative referring to bugs which appear on installation of the products of ODBC- and database -components as well as network – access - faults
3. supporting routines for elimination of bugs which appear on individual users only
4. bug reporting to the Web - Server
5. Web - Server editing
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|  | **Line of business** | Transport-, Traffic- and Logistics services |
|  | **Enterprise** | TLC GmbH, DB Systems GmbH |
|  | **Project** | Manual Incomings |
|  | **Term** | March 2000 – Dec 2002 |
|  | **Products / Environment** | VBA Access 97, Windows NT, Visual Studio 6.0 |
|  | **Topic / Content** | 1. monthly calculation of the incomings of key accounts which do not use the direct ticket sales
 |
|  | **Type of activity** | programming, implementation of calculations, debugging, reporting |

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|  | **Line of business** | Transport-, Traffic- and Logistics services |
|  | **Enterprise** | TLC GmbH, DB Systems GmbH |
|  | **Project** | ZEBRA (Central Backup and Restore System) |
|  | **Term** | Dec. 2001 – Jan. 2003 |
|  | **Products /Environment** | Red Hat Linux, Arkeia, PowerStor L500 Library, Exceed, Xfree86, Windows NT / 2000, Sun Solaris, AIX |
|  | **Topic / Content** | Backup and restores in the areas: 1. setup - management (e.g. new price system of DB)
2. NTA PDB / TDB (new ticket – machines)
3. TM1 - databases at the area station and service
4. further development environments
 |
|  | **Type of activity** | installation, administration, user´s advisory service, creation user guide |

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|  | **Line of business** | Transport-, Traffic- and Logistics services |
|  | **Enterprise** | DB Systems GmbH |
|  | **Project** | TM1 - Kopla (cost center – planning - database) |
|  | **Term** | April 2002 – Dec. 2002 |
|  | **Products /Environment** | TM1 OLAP Database, Windows 2000 Advanced Server, Compaq-Proliant-Server, MS Office 97 |
|  | **Topic / Content** | 1. Database for central cost planning of a corporate
2. Setup and running of TM1-Database
 |
|  | **Type of activity** | Analysis, Advisory service, Installation, Setup: Server and TM1-DB. Support of Key – Account - Management, reporting, user´s and designer´s 2nd Level Support  |

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|  | **Line of business** | Transport-, Traffic- and Logistics services |
|  | **Enterprise** | DB Systems GmbH |
|  | **Project** | TM1 - BQA (database for station quality analysis) |
|  | **Term** | Jan. 2002 – Dec. 2002 |
|  | **Products /Environment** | TM1 OLAP Database, Perspectives, Excel-VBA, Windows 2000 Advanced Server, Compaq Proliant Server |
|  | **Topic / Content** | 1. database for central collection of quality features of flag stops
2. setup and operation of the TM1 - database
 |
|  | **Type of activity** | analysis, server installation, programming, support of the applications, debugging within the TM1 - environment, upload dates, user´s and designer´s 2nd Level Support  |

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|  | **Line of business** | Transport-, Traffic- and Logistics services |
|  | **Enterprise** | DB Systems GmbH |
|  | **Project** | TM1 - VEMIS |
|  | **Term** | Nov. 2002 – Dec. 2002 |
|  | **Products /Environment** | TM1 OLAP database, Windows 2000 Advanced Server, Compaq-Proliant-Server, Apache Web server, arcplan dynaSight, MS Office 97 |
|  | **Topic / Content** | 1. DatawareHousing: providing of development environment for a web server supported information system with TM1 and arcplan DynaSight
 |
|  | **Type of activity** | analysis, advisory service, installation, setup: server and TM1 - db, Appache Web server, arcplan DynaSight, support Key - Account-Management, user guide, user´s and designer´s 2nd Level Support |

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|  | **Line of business** | Transport-, Traffic- and Logistics services |
|  | **Enterprise** | DB Systems GmbH |
|  | **Project** | TM1 - MIS (Management Information System) |
|  | **Term** | Sept. 2002 – Dec. 2002 |
|  | **Products /Environment** | TM1 OLAP Database, Windows 2000 Advanced Server, Compaq Proliant Server, Apache Web server, arcplan dynaSight, MS Office 97 |
|  | **Topic / Content** | 1. DatawareHousing: web server supported management information system with TM1 and arcplans dynaSight
 |
|  | **Type of activity** | analysis, advisory service, installation, setup: TM1 db, Appache web server, arcplan dynaSight; support Key – Account - Management, management guide, user´s and designer´s 2nd Level Support |

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|  | **Line of business** | Transport-, Traffic- and Logistics services |
|  | **Enterprise** | TLC GmbH, DB Systems GmbH |
|  | **Project** | TM1 - SuSi (station and service information database) |
|  | **Term** | June 2000 – Dec. 2002 |
|  | **Products /Environment** | TM1 OLAP Database, Turbo Integrator, Perspectives, Excel-VBA, Windows 2000 Advanced Server, Compaq Proliant Server |
|  | **Topic / Content** | DatawareHousing: setup of an information database for the upper management and finance controlling for reporting:1. hardware analysis for providing of servers for TM1[[23]](#footnote-23)
2. installation, setup of the operating system environment and every respective tools for server- and TM1- management
3. optimizing of the server environment for TM1
4. TM1 - database setup
5. optimizing of TM1 database
6. monthly import of values ​​from controlling
 |
|  | **Type of activity** | Analysis, server installation, programming, support of the applications, debugging within TM1 - environment, upload dates, reporting |

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|  | **Line of business** | Transport-, Traffic- and Logistics services |
|  | **Enterprise** | DB Systems GmbH |
|  | **Project** | 1. **TM1-KSR** (cost – center accounting) and
2. **TM1-BUDPLA** (budget planning)
 |
|  | **Term** | May 2000 – Dec. 2002 |
|  | **Products /Environment** | TM1 OLAP Database, Turbo Integrator, Perspectives, Windows 2000 Advanced Server, Compaq Proliant Server |
|  | **Topic / Content** | 1. setup of TM1-databases for cost center accounting and budget planning in the field of designing of the central finance controlling
2. setup and administration of Windows 2000 domain
 |
|  | **Type of activity** | advisory service for technical fitting, installation, setting up and operating of the TM1-server, installation and setup of remote controlled analysis and supervising of Compaq Server, fault finding and fault analysis when the system crashed, setup and administration of a Windows 2000 Domain with every TM1-servers (a total of 11 in Frankfurt / Main and Berlin) at the central finance controlling, user’s and designer’s 2nd Level Support, support of the Key-Account-Management, reporting |

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|  | **Line of business** | Transport-, Traffic- and Logistics services |
|  | **Enterprise** | TLC GmbH |
|  | **Project** | EPA Data Mining |
|  | **Term** | Nov. 1999 – Dec. 1999 |
|  | **Products /Environment** | Migration Architect, Visual Insights Advisor, Oracle 8, PL/SQL, Windows NT 4.0 |
|  | **Topic / Content** | 1. Data warehousing: data mining for optimization the structure of the database
2. visualization of dates for searching of coherency at reservations
 |
|  | **Type of activity** | project management, to operate with Migration Architect and Visual Insights Advisor, reporting |

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|  | **Line of business** | Transport-, Traffic- and Logistics services |
|  | **Enterprise** | TLC GmbH |
|  | **Project** | Process Setup Management for new Ticket Machines |
|  | **Term** | Dec. 1997 – June 1998 |
|  | **Products /Environment** | PCMS**[[24]](#footnote-24)** Dimensions, PVCS, Perl, Tcl/Tk, NT 4.0, Sun Solaris for SPARC, Oracle 7.3.4  |
|  | **Topic / Content** | 1. conception of a versioning of software versions for delivery to the new ticket machines (NTA**[[25]](#footnote-25)**)
2. object orientated programming of an interface for PCMS - database in Perl for two end systems (Unix and NT) with get by on Perl –classes
 |
|  | **Type of activity** | analysis, specification, programming, testing |

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|  | **Line of business** | Transport-, Traffic- and Logistics services |
|  | **Enterprise** | TLC GmbH[[26]](#footnote-26) |
|  | **Project** | NTA Documentations-Database |
|  | **Term** | July 1998 – Sept. 1998 |
|  | **Products /Environment** | Office 97, ADABAS D[[27]](#footnote-27), MS IIS[[28]](#footnote-28), Samba[[29]](#footnote-29), SuSE Linux |
|  | **Topic / Content** | 1. reporting administration - system for NTA management based on a SQL - database and a web server
 |
|  | **Type of activity** | ADABAS-Design and –Administration, setup of Linux Server, WWW-Server Install…web server installation and administration, web page design |

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|  | **Line of business** | Insurances |
|  | **Enterprise** | Quelle AG, MLP Dignos Software GmbH |
|  | **Project** | SSV (Sende - Service) |
|  | **Term** | Dec. 1996 – Nov. 1997 |
|  | **Products /Environment** | 1. HP 9000 / UNIX
2. ksh
3. Tabellengenerator (table generator), IOGEN I/O - generator
4. OS/2: IBM C/C++ Tools 2.01, Toolkit 2.1, XVT, REXX
5. ADABAS D
6. Windows 3.11, Visual C++
7. Sun OS
8. Oracle7
9. DCE
10. MKS-Tools
 |
|  | **Topic / Content** | 1. Project analysis SSV[[30]](#footnote-30) in a team of three individuals
2. splitting the project down into sub projects, designer got task coordination and technical advisory in C/C++ and embedded SQL, implementation in a team of five individuals
3. DatawareHousing: database - analysis and database - design
4. DBA jobs
5. generation of Database - DDLs in ADABAS D and Oracle7
6. installation of Oracle7 and ADABAS D
7. setup of the Make - Environment (development environment)
8. server implementation
9. other designer´s betting modules in the server and test
10. implementation of the Command - Parsers for the server
11. generation of C - Structs for sending- / receiving formates
12. implementation of a test client
13. betting of the client and server in Sun OS, C/C++ and Oracle7
 |
|  | **Type of activity** | technical coordination, analysis with reporting, specification, db design, training C and SQL, programming |

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|  | **Line of business** | Insurances |
|  | **Enterprise** | MLP Car |
|  | **Project** | Administration System for vehicle Insurances |
|  | **Term** | May 1996 – Nov. 1996 |
|  | **Products /Environment** | 1. OS/2, Windows 95
2. MICRO FOCUS COBOL
3. Micro Focus Dialog System, Dialog System editor
4. HP 9000 / UNIX
5. ksh
6. awk (for generators)
7. Windows 95
8. MKS-Tools
 |
|  | **Topic / Content** | 1. generator for creation of standardized dialog - programs

(executing events of the graphical objects and initialing substantial processing)1. input / specifications for programming graphic display
2. expanding the I/O - generator for SQL - access
3. tests for platform - independency of the dialog - system under OS/2 and Windows 95
4. adjustment with MICRO FOCUS for debugging
 |
|  | **Type of activity** | technical project management generators, analysis and standardization, programming, reporting |

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|  | **Line of business** | Insurances |
|  | **Enterprise** | Delphin-Insurances, MLP Dignos Software GmbH |
|  | **Project** | Statistic - Evaluation to existing Systems |
|  | **Term** | Mar. 1995 – Apr. 1996 |
|  | **Products /Environment** | 1. OS/2, Win 3.11
2. Windows 95
3. HP 9000 / UNIX
4. SQL (DB2)
5. Powerbuilder
6. awk, ksh
7. MKS-Tools
8. MICRO FOCUS COBOL
 |
|  | **Topic / Content** | 1. analysis statistic of the existing system, concept and technical guidelines for the new system
2. staffs training SQL
3. DatawareHousing: database design statistic existing system
4. creation of generators for pushing the project (COBOL copybook converter (according to Powerbuilder))
 |
|  | **Type of activity** | Project management, db design, programming (generator), training |

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|  | **Line of business** | Finances and Insurances |
|  | **Enterprise** | MLP Finanzdienstleistungen AG, MLP Dignos Software GmbH |
|  | **Project** | FVV (Fondsvermögensverwaltung, fund assets administration) |
|  | **Term** | Sept. 1993 – Feb. 1995 |
|  | **Products /Environment** | 1. HP 9000/UNIX
2. OS/2
3. Windows 3.11
4. WinWord, ABC-Flow Charter
5. awk (4GL; used for generators)
6. Korn Shell (under UNIX) ksh
7. DB2
8. Database Manager für DB2
9. MICRO FOCUS COBOL
10. MKS-Tools
 |
|  | **Topic / Content** | 1. Data warehousing , involved in analyzing, enhancement of specialist documents
2. creation of the technical term glossary
3. design the database in SQL on my own initiatives completely

Creation of generators for forcing the project:1. table generator for generating of DDLs (Data Definition Language) via an text document comes from the analysis
2. I/O generator to create SQL - accessing modules in COBOL (or in any other preferred language) automatically
 |
|  | **Type of activity** | analysis, conception, professional and technical db design, program -generation, programming and enhancements of the I/O generator on my own initiative  |

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|  | **Line of business** | Finances and Insurances |
|  | **Enterprise** | MLP Lebensversicherung AG, DIGNOS EDV GmbH |
|  | **Project** | FLV (Fondsgebundene Lebensversicherung; unit linked life insurance) |
|  | **Term** | Dec. 1990 – June 1993 (as of Oct. 1991 parallel to the Project ATLA-R) |
|  | Products /Environment | 1. IBM HOST, VSE, CICS
2. ab 93’ under HP 9000 / UNIX
3. 4GL MANTIS
4. embedded SUPRA/SQL, ADABAS D
5. Korn Shell (under UNIX) ksh
6. lex, yacc
 |
|  | **Topic / Content** | 1. complete prototyping of the menu driven user interface
2. complete analysis, design and realization of the commission systems
3. analysis and realization of a data dictionary for collecting program and database references
4. concept and implementation of the process control (Work Flow Management) in a team of two individuals
5. SQL – syntax analyzer / converter for Downsizing of MANTIS + SUPRA / SQL auf MANTIS+ADABAS-D (IBM HOST ⇨ HP-UNIX); gained extensive proficiency in SQL and UNIX
6. prototyping for MANTIS - Compiler (in C) and mentoring of a Diplomate (a student who is writing on his / her diploma thesis; graduand)
 |
|  | **Type of activity** | analysis, prototyping, involved in creation of a specification, Implementation, db - design, generation, test, guidance, training, creation of a documentation - database |

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|  | **Line of business** | Pharmaceutical Products |
|  | **Enterprise** | Hoechst AG, DIGNOS EDV GmbH |
|  | **Project** | ATLA-R (stock administration system) |
|  | **Term** | Oct. 1991 – Aug.1993 |
|  | **Products /Environment** | CSP[[31]](#footnote-31) (Cross System Product; Cobol like), SQL-DS[[32]](#footnote-32)(DB2 - Derivate), IBM 9370/CMS VM/ESA, IBM 3090/MVS XA, REXX |
|  | **Topic / Content** | 1. extensive maintenance in ATLAR-R[[33]](#footnote-33)
2. new development & implementation of a viewer to run a search for spare parts for classifications
 |
|  | **Type of activity** | analysis, conception, technical design, db - design, programming, reporting |

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|  | **Line of business** | Computer and IT |
|  | **Enterprise** | VEB Robotron Elektronik Zella-Mehlis |
|  | **Project** | Language Format for decentralized Data Collection |
|  | **Term** | Sept. 1988 – Oct. 1990 |
|  | **Products /Environment** | Wega-Unix, C-Shell csh, Bourne Shell sh, C-Compiler, CP/M, Format-Sprache[[34]](#footnote-34) |
|  | **Topic / Content** | Implementation and enhancement of a program for syntax analysis and code compression of the interpreter language „Format“, which is used to input at an eight – Bit – data terminal e.g. vehicle manufacturing. porting 16 – Bit - 'C' to 8 – Bit - 'C' to PC under CP / M |
|  | **Type of activity** | Programming in C under 16 - Bit Unix Wega as Cross - System, implementing and 2nd Level Support; The programs have been designed in that way to grant a high reliability and system stability of the generated code.  |

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|  | **Line of business** | College, University |
|  | **University** | Elektrotechnisches Institut Nowosibirsk |
|  | **Project** | Diploma Thesis: EPROM – Programming Devise |
|  | **Term** | Dec. 1985 – May 1988 |
|  | **Products /Environment** | Cross Assembler (TASM), CPU Z80, CP / M |
|  | **Topic / Content** | 1. design of one board – micro computer on Z80[[35]](#footnote-35) basis for EPROM[[36]](#footnote-36)-Programmer[[37]](#footnote-37)
2. setup of a running prototype
3. programming of intelligent burning routines on a CP / M[[38]](#footnote-38) - Cross -System in the language “Assembler”
 |
|  | **Type of activity** | circuit design, design and assembling of an one board micro computer(for running prototype), Assembler - programming on CP / M - Cross System, reporting as diploma thesis |

This is a short overview about my most important projects. To mention every single project been done in the past would go beyond the scope of this document.

### References

Please feel free to ask me for current references.

### Finale Statement

 I am pleased to implement your projects in a large environment of hardware and software.

 My 17 years proficiency stands me in good stead for implementation IT - projects with solutions featuring your special requirements.

Based on my extensive knowledge of IT – technologies I can define the budget and the schedule of implementation your project even within the conception stage. I can carry out professional analysis and calculate and coordinate project costs.

 I am interested in long lasting cooperation valuable for both you as my customer and me. I provide support beyond the project had been finalized. This affects projects are developed by me.

 Please do not hesitate to contact me by cell – phone or e – mail to bring forward your concern. With pleasure I will support you.

You just have this document as paper work only or you want to have the latest version – please find my brand new profile here:

* PDF: http://www.franke-edv-beratung.de/Profil\_Eng.pdf and
* Word: <http://www.franke-edv-beratung.de/Profil_Eng.doc>

With kindest regards

Olaf Franke

1. **BI**: Business Intelligence: refers to computer-based techniques used in spotting, digging-out, and analyzing business data. BI technologies provide historical, current, and predictive views of business operations. [↑](#footnote-ref-1)
2. **POC**: Proof of Concept: is a short and/or incomplete realization of a certain method or idea(s) to demonstrate its feasibility. [↑](#footnote-ref-2)
3. TPA: Transfer Price Agreement. Buchungssystem zur Verteilung der Erträge. [↑](#footnote-ref-3)
4. OLAP: Online Analytical Processing: is closely related to BI (Business Intelligence) - a process for obtaining important data for corporate management by evaluating multidimensional input data. [↑](#footnote-ref-4)
5. ECOS: European Controlling System: Control of ETL processes for revenue and cost controlling via the ECOS Manager, which includes the creation of various reports based on the ECOS Oracle DB. [↑](#footnote-ref-5)
6. TI: **T**urbo **I**ntegrator: TM1 Scripting Engine [↑](#footnote-ref-6)
7. IBM Cognos TM1: the same as IBM Planning Analytics TM1®: renamed from “Applix TM1” [↑](#footnote-ref-7)
8. TI: **T**urbo **I**ntegrator: TM1 Scripting Engine [↑](#footnote-ref-8)
9. arcplan Enterprise®: very flexible BI-Platform to design and run analytic applications [↑](#footnote-ref-9)
10. TI: **T**urbo **I**ntegrator: scripting language for database-internal steering of TM1 and for other ETL specific purposes [↑](#footnote-ref-10)
11. MDX: **M**ulti**d**imensional E**x**pressions: is used to create dimensional hierarchies dynamically [↑](#footnote-ref-11)
12. PS HRM: PeopleSoft Human Resource Management [↑](#footnote-ref-12)
13. TSQL: Transact SQL; MS SQL internal scripting language [↑](#footnote-ref-13)
14. DTS: Data Transformation Services: is a set of objects and utilities to allow the automation of extract, transform and load operations to or from a database. [↑](#footnote-ref-14)
15. Cubus/ABC: the can generate websites based on Excel workbooks to connect to MS Analysis Services [↑](#footnote-ref-15)
16. MSAS: Microsoft Analysis Services: is a part of MS SQL 2000, OLAP database. [↑](#footnote-ref-16)
17. ETL: The processes of Extracting, Transforming (or Transporting) and Loading data from source systems into a data warehouse. [↑](#footnote-ref-17)
18. **RXP Analysis**: concentration identification of messengers for information interchange amongst cells [↑](#footnote-ref-18)
19. **Topline**: program of the company WKS GmbH electronic charging of telecommunication invoices [↑](#footnote-ref-19)
20. **ELRE**: electronic charging Deutsche Telekom [↑](#footnote-ref-20)
21. **ELRE-Trans**: program of Telekom for download of telecommunication - invoices, which are provided in

so called - PC - boxes [↑](#footnote-ref-21)
22. **EDIFACT**: electronic data interchange for administration, commerce and transport; worldwide standardized language for data transfer [↑](#footnote-ref-22)
23. **TM1 OLAP**: Database Applix iTM1 is an exceptionally fast and high operating software platform for planning, analyzing and controlling as well as capable for setting up of management information systems. OLAP=Online Analytical Processing [↑](#footnote-ref-23)
24. **PCMS**: Process Setup Management System [↑](#footnote-ref-24)
25. **NTA**: New Ticket Automates of German Railways [↑](#footnote-ref-25)
26. **TLC**: TLC GmbH: Transport, Informatics and Logistics Consulting Company [↑](#footnote-ref-26)
27. **ADABAS D**: SQL- database system of Software AG [↑](#footnote-ref-27)
28. **MS IIS**: Internet Information Server of Microsoft [↑](#footnote-ref-28)
29. **Samba**: Provides on Unix – computers for Windows file- and printing services [↑](#footnote-ref-29)
30. **SSV**: Sending Service: object related data collecting, distributing of them, archiving of sending, execution of sending and receiving formats [↑](#footnote-ref-30)
31. **CSP**: is a Cobol language and integrates program modules and database modules in its own IDE [↑](#footnote-ref-31)
32. **SQL-DS**: Descendant of a DB2 database for CSP [↑](#footnote-ref-32)
33. **ATLA-R**: application for maintenance of spare parts and units, master dates, logistic, units history, location history and repair history. [↑](#footnote-ref-33)
34. **„Format“ – language:** an interpreter – script language designed by Robotron for an easy creation of input masks on eight Bit computers. It allows e.g. syntax testing array wise / box wise. [↑](#footnote-ref-34)
35. **Z80:** (legendary) eight Bit microprocessor of Zilog [↑](#footnote-ref-35)
36. **EPROM:** Erasable, programmable Read-Only-Memory [↑](#footnote-ref-36)
37. **Programmer:** Is a burner which records the data onto an EPROM – in a manner of speaking – it burns in [↑](#footnote-ref-37)
38. **CP/M:** (Control Program for micro computers) 8 Bit Operating System of Digital Research for I8080 and Z80 processors, predecessor of MS DOS [↑](#footnote-ref-38)