



Gregor Huyskens

SAP-Support Expert, Scientist


After 20 years of support of SAP projects I can understand architecture and details of Netweaver systems and solve problems.

My science studies also helped me to see major flaws in today's destructive and illusive world. So rose my support for sustainable farming projects which I support with IT system development.

I am part of SAP Support Teams to analyse the cause of technical problems and find solutions.

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 **Work:** Lisbon, Portugal

WORK EXPERIENCE

Developing a Farm Production Tracking System

Self

01/2023 – Current

 Jomtien, Thailand

Farm technology is a rising sector. The use of ERP for urban farms is yet rare.

From concept to implementation of the first versions I suggested and enhanced a production tracking system allowing farm owners to monitor, compare and plan production quantities while organizing stock and sales smoothly with an open source ERP solution.

Achievements:

Delivered a prototype of a multi lingual offline/ online tracking app serving customer db and central ERP db.

Python, Odoo 16, Android Apps, JS, Aquaponics

● **Developed a Warehouse Picking App**

Self

04/2023

📍 Hamburg, Germany

Design and Implementation of an Android App allowing to display picking orders and use of QRCode scanner to identify order items and avoid costly misspicks.

The app is designed around an online database which gets relevant delivery orders from the clients sales system.

When orders are received via fax to the warehouse the app identifies all requested product numbers and displays order line detail and instructions per pick.

Achievements:

Delivered a complete application with challenging legacy DB integration.

Python, Odoo 16, QRCode Scanners, Andorid Apps, JS, Droidsript, MySQL

● **Developer ABAP, WebDynpro, Fiori**

fileon UG

01/03/2022 – 30/10/2022

📍 Ludwigshafen, Germany

nag Informatik AG in Bern (CH), PAX Insurance

Extension of Contract Administration, a PAX inhouse development, required implementation experience with ABAP to correct and build Webdynpros and BAPIs in three week sprint cycles (Scrum).

Apart of ABAP OO some of the applications use SAP Workflow and custom extended Fiori Applications i.e. a specific Workflow task inbox.

Analysis of bug reports led in all cases to solutions or proposals for improvement.

SAP HANA, Netweaver, ABAP OO, BAPIs, Webdynro, WebIDE, Javascript, UI5, OData, SAP Workflow

● Software Developer

fileon UG

11/2021 – 02/2022

 Lisbon, Portugal

Improving the Portal Software of fileon.de was required for better usability and customer satisfaction.

Apart from Python programs extended for the Odoo System version 14, backend processes could be improved using QR codes for fast and reliable identification of documents.

Achievements:


Extended Python modules of Odoo 14 and employed many open standard protocols and libraries. Designed and refined backend processes.

Odoo 14, Python, OWL, Javascript, node.js, Web Server Administration, Image Processing, Cloud Server

● Systems developer

Self

01/2021 – 10/2021

 Lisbon, Portugal

The demand for energy and nutrition is rising and new technologies have to optimize the use of resources.

Since 2016 we follow the development of farming techniques for micro algae.

The company Emyune PT, Lda was founded in Lisbon to build new farm types and find better ways for production. We focussed on low cost ponds with off grid power supply and a network integrated management system.

We suggested cooperations with ISA (Instituto Superior da Agronomia) and local organizations.

Achievements:

Studied alga production, their use, benefits and metabolism. Learned to use tools and chemistry for better production approaches. Learned to fight the Portuguese bureaucracy.

Microbiology, Chemistry, Nutrition, Spirulina, Microcontrollers, Farming

● **Application Developer, 2nd Level Support**

fileon UG, ITSCare Gbr

07/2018 – 12/2020

 Stuttgart, Germany

Supplying online services is a demanding task for big insurance companies with millions of users.

AOK is a group of german public insurance providers who offer access through an internet portal. Their system is an SAP custom development and runs 24/7 for four million users.

My project had several aspects: Solving daily problems of different type in second level support and developing an order application for customizing changes.

This order application uses the Odoo (Python ERP) framework to let about 50 key users of 11 subsidiaries identify relevant settings through a CMS, create change orders and track the status of these orders.

Achievements:

Solved 900+ technical problems. Designed and implemented an order tracking system.

SAP Customer Service, Odo Python, OO Design and Implementation, Docker

● **SAP ABAP Developer**

fileon UG / E.ON BS GmbH

07/2017 – 06/2018

Utility companies like E.ON need to optimize not only standard documents but also individual communication for customer service.

In 2008 EON had started to develop a system based on SAP CRM, Adobes Document Server and forms editor.

Now these editor tools were replaced by a new system and we supported redesign of web services and small UI changes for the new integration.

Achievements:

Wrote design documents and implemented classes for data integration.

SAP CRM 7, ABAP OO, Webservices, GMC Inspire, XML

● **SAP ABAP Developer**

fileon UG / Atotech, Berlin (Deutschland)

06/2017

In 2018 Atotech plans to replace their SAP systems database with HANA DB. The preparation of this step required compliance checks for about 4.000 custom program sources. A two weeks workshop turned out a code parser and workbench supporting manual and semi automatic code upgrades. Manual efforts could be cut in half.

ABAP on HANA, Training of Developers , Netweaver 7.4

● **ERP / Mobile App Developer Logistics**

fileon UG / CCS Cargo City Süd GmbH

03/2017 – 06/2017

Use of smart phones shows large potential in transport logistics since GPS, scan and photo features help to secure and accelerate handling for driver and customer. Objective of our development for the airfreight carrier "CCS Cargo City Sued GmbH" is the renovation and mainly new development of an ERP integrated solution including verification of personnel, load tracking, bar code identification of partners, packages and vehicles.

Platform of choice is Odoo 10.0 , the ionic framework and web2py for a scaleable restful API.

Candidate is responsible for design and implementation.

Odoo, OpenERP, python, ionicframework, Android, web2py Logistics Process, Im- and Export, Airfreight

● Develop Integration of SAPUI5 with web2py

01/2017 – 02/2017

Two leading mature open source frameworks were not yet integrated in any documented way.

web2py is a stable python based web server with an excellend DAL (Data Access Layer) - an equivalent to SAP's OpenSQL in ABAP.

Python as one of the strongest server based languages allows use of large secure libraries on all major OS platforms.

Goals of the project are to build:

- 1) .. an interactive modeller for backend models
- 2) .. a generic maintenance app for associated entities
- 3) .. an application designer with a new event handler manager

After POC the prototype could be deployed on HANA DB with an extension of pydal for this new DB.

web2py's DAL opens access to several (About 18) database types.

<http://www.web2py.com/book>

<http://pydal.readthedocs.io/en/latest/>

● **Developing Spirulina Farming Concept**

10/2016 – 12/2016

Studying situation of environment and measures for overdue change I started to focus on a central topic - micro algae for nutrition and energy.

The potential of micro algae, which was promoted by WHO, UN and FAO, is widely disregarded. Value of algae like Spirulina is in addition raising or at least stable while publications of farming technique is rare.

Cooperation with Thai University in Khon Kaen (KKC) was planned.

A prototype of a scalable low cost farm could be developed and a ROI of under 6 months leaves motivation for further research.

● **SAP ABAP Developer and Trainer**

nearcons SAS

06/2016 – 09/2016

Prismian Group: High Tech Industry - International Supplier

Support of HANA upgrade project

Trainer for ABAP Developers: HANA Upgrades: "Requirements and new ABAP features"

Development of a central "Drums Replenishment Cockpit" with weekly analysis and direct order creation feature.

Development of a report for "Print and EDI message Repetition".

● **SAP ABAP Developer**

Quanta SpA

02/2016 – 04/2016

Poste Italiane - Rome, Italy


CRM 7 Backend Integrations

- Web Service Class extensions of messages with authentication parameters
- Order Export to legacy (partner) system in flat file and xml formats
- Development of fast order statics for custom front end overview screens

● SAP ABAP Developer

WIPRO Ltd., SAP SE

05/2015 – 12/2015

 Walldorf, Germany

1) Development of a "Fiori like" Application for S4 HANA

A work list for supplier evaluation was required replacing older POWL lists. In the new S/4 environment all BSP applications are replaced.

CDS Views were developed and optimized. Annotations with metadata helped to render list views generated dynamically by a new template class OData-Services were extended.

2) Extension of MM-PUR Standard Functions

New legislation regarding incoterms required code extensions down to release ECC 6.0, Netweaver 7.3. Dialogs, Reports und IDOC Functions had to be updated to cater for versioned attributes.

SAP ECC 6.0, Netweaver 7.3, Fiori, OData, CDS Views, HANA DB

● Web Application and Business Developer

12/2014 – 05/2015

A&O GmbH, Ludwigshafen

fileon UG - fileon.de

Design and implementation of archiving services for SMEs

Complete development of backend and frontend modules on OpenERP

Business plan und calculation for start up

Python, Web Server Entwicklung, Linux, OpenERP

● **SAP ABAP Developer**

11/2014

Riegele KG, Augsburg

Upgrade of EMCS XML Tax Application (rel. Project Sep 2012)

Upgrade to SAP ERP Release required adaptation of reports.

Syntactical and functional extensions were planned and implemented.

SAP ERP 6.0 , ABAP

● **SAP ABAP Technical Analyst**

Tech Mahindra Ltd.

10/2013 – 09/2014

BASF - Business Services, Ludwigshafen

Support of SAP Systems for Module EHS - Environment Health and Safety Management.

Large production and trade companies have to achieve compliance with REACH legislation. Laws require to track substances imported into or produced in Europe by quantity. Exceeding quantities require specific licenses.

Analysed program flow, traced system DB access and logic of custom coding.
Incident and Problem Handling for EHS, Material Management, GTS (Global Trade System), ALE, Label Management, Substance Workbench

SAP ECC 6.0, EHS, SVT, GTS, Debugging, BAdIs, Logistics

● **Implementor OpenERP**

HUYREKA Solutions

11/2012 – 09/2013

Implementation of OpenERP

Configured Test systems for a trading company and a legal agency in Bangkok.
Proposal for ERP process integration (warehousing, project management)

Implemented a new module for integration of a web shop (osCommerce), which is extendable to other systems.

Python, OpenERP

● SAP ABAP Developer

HUYREKA Solutions

09/2012 – 10/2012

Riegele KG, Augsburg

Development of EMCS XML tax application (Excise Movement and Control System)
A standard message type for deliveries was extended with a file output for automatic transmission of tax declaration documents.

SAP 4.5, ABAP, XML

● ERP and Python Designer and Developer

HUYREKA Solutions

07/2012 – 08/2012

OSESSoftware Co. Ltd.

Development of OpenERP Migration tools
Analysed data structures of CAO-Faktura and OpenERP sales modules

Analysed and tested features of "Talend Open Studio" migration workbench

Studied market about use of Open Source ERP in Europe and Thailand

Python, OpenERP

● SAP ABAP Developer SAP

HUYREKA Solutions

03/2012 – 06/2012

Mieschke Hofmann und Partner (mhp.de) / Volkswagen AG

Developed tools for CRM7.0 country specific datamigration

Migration program for „Workshop Orders“

Designed and developed program for order creation used for opportunities from historic contacts

Developed and corrected IDOC extensions

SAPCRM7.0 (1Order, Sales, Service, BOL, ALE)

● Student

HUYREKA Solutions

10/2011 – 02/2012

Research about Online Operating Systems based on Javascript Framework ExtJS.

Analysing features and architecture, proposing generic approach for Frontend IDE for RAD in HTML5 / Script Frameworks.

Experimental, Prototyping

OOS, JS, ExtJS, OO Patterns, Software Ergonomics

● Student

HUYREKA Solutions

09/2011

Studies of SMB ERPSolutions of NSD

Market and System studies to prove concept of sales and service partnership with NSD, a french provider of a commercial ERP system.

NSD BCS, ERP, GRP

● SAP Second Level Helpdesk Support CRM

HUYREKA Solutions

11/2010 – 08/2011

HP AG www.hp.com

Development/Correction Support for Life Systems of Carl Zeiss AG, International

Zeiss roles out CRM 7.0 Template releases in half year cycles. The current life systems are in USA, UK and Germany. HP organized the help desk, responding to problem reports.

Analysed cause and conditions of user problems with CRM standard and custom applications and views. Classified incidents, proposing solutions and implemented corrections

Reviewed hand over documentation and test plans for Zeiss Custom Release Upgrades.

Delivered training sessions for new team members, presenting 4 new feature areas of the Zeiss Business Release.

Areas:

1Order Objects, BOL, View Maintenance, Quote to Order, Opportunities, Copy Rules.

Bug Fixes, Analysis of requirement solution fit, testing

SAP CRM 7.0

● SAP ABAP Designer / Developer

HUYREKA Solutions

08/2010

DSKG Germany, www.dinkelacker-schwabenbraeu.com

Connected a mobile warehouse system (MOWIS) to SAP ECC 6, based on DSD (direct store delivery) functions.

SAP DSD, ABAP, BAPIs, Logistics, (SD) Transports

● **SAP ABAP Developer**

HUYREKA Solutions

05/2010 – 07/2010

IBM Germany, www.ibm.com

Improvements of of WebUI Usability

Service Requests and Service Order extensions on Customer Interaction Center and Backoffice Components

AET view (BOL) extensions, Layout extensions, Partner Determination BadIs, Checks on partner roles

SAP CRM 2007, CRM 7.0, ABAP OO

● **SAP ABAP Developer SAP CRM**

HUYREKA Solutions

11/2009 – 01/2010

SyBit GmbH, Radolfzell www.sybit.com

Maintenance of WebUI Extensions

Configuration of assignment blocks, extension of structures with new extension tools (integrated).

Development of new assignment block for competitive machinery in sales and marketing roles with custom persistence

Enhancement of opportunity detail views

SAP CRM 2007, CRM 7.0, ABAP OO

● SAP ABAP Developer - CRM

HUYREKA Solutions

09/2009 – 10/2009

IBM Germany, www.ibm.com

Maintenance of CRM 4.0 Custom IBase Application

Troubleshooting and functional extension of highly custom modified IBase Workplace on ERP 2005 Environment.

SAP CRM IBase custom extensions

● SAP Interface Designer / Developer

HUYREKA Solutions, Bahrain

01/2009 – 06/2009

mowis GmbH

System Integration with SAP Business Connector

DSD, Direct Store Delivery on SAP ECC 6.0 has ALE integration capabilities and can be connected via Business Connector, XI or other integration tools to mobile systems.

Targeting a configurable interface for the mobile warehouse system "MOWIS" of movis-GmbH, the SBC was chosen as preferred platform.

Implementation of a demo version for downloads to handheld devices

SAP Business Connector 4.8

● Application Designer

HUYREKA Solutions, Bahrain

2004 – 2009

Idea, Design, Implementation of an **Annotation Web Service**

Motivated by the use of e-learning software this service was developed to allow for collaborative text handling. Setting annotations on arbitrary web pages is implemented with JavaScript, PHP and SQL database only.

The portal started commercially and is currently a candidate for wider use in German class rooms.

PHP, SQL-Database, HTML, Javascript, Linux

● Web Developer

HUYREKA Solutions, Bahrain

12/2008

Web Development using Javascript Framework ExtJS

Concept and Prototype Development of Browser based IDE for ExtJS

Applications

ExtJS, Javascript, JS Framework, JSON, AJAX

● SAP Interface Developer

HUYREKA Solutions, Bahrain

09/2008 – 11/2008

Java-XML Converter

Developed an Interface platform for connecting a mobile Warehouse System to SAP ERP 2005 using XML to TXT Mapping Logic.

Javascript Framework iWeb

Open Source platform to stage e-learning multimedia content - Goal is a commercial language learning portal based on interaction and association

Java, XML, JS Framework ExtJS

● SAP ABAP Developer for SAP CRM

HUYREKA Solutions, Bahrain

03/2008 – 08/2008

e.on, Hannover

CRM WebUI Extensions, Data Retrieval Modules Integration of Adobe FormsSolution (Backend)

Development of Data Retrieval Classes for common activities, assembling details for 70 Templates of customer contact letters. Modifications of WebUI views, EEWB, Component workbench

SAP CRM 2007, WebUI, Netweaver, BSP

● **SAP ABAP Developer - CRM**

HUYREKA Solutions

09/2007 – 02/2008

Siemens AG, Munich, Germany ; Siemens Bangkok, Thailand

Extension of WebUI features and preparation for rollout of **CRM Rel. 5.2** as worldwide platform for customer and sales support.

Conversions of ICWeb Client features and Integration of modules supporting Business Partner data exchange with central MDM system

SAP CRM 5.2, WebUI

● **Designer**

HUYREKA Solutions

08/2007

BMW AG, Munich, Germany

Review and update of Development Guidelines regarding new technologies like Object Orientation, Enhancement Framework

SAP R/3 4.7

● **SAP ABAP Developer**

planbusiness consulting GmbH

Petro Rabigh, Saudi Arabia

Custom Development for MM and HR modules of a new R/3 Implementation in petrochemical industry.

User Exits for Purchasing Approval (Role Determination)- Interface for transfer of Personal Data (several infotypes) from a Recruitment database to PA (HR Personal Administration)Forms Development check form, CI adaptations (formatting)

SAP R/3 4.7, MM, Screen Painter

● Developer

2004 – 2007

movis GmbH, Germany

Development of an **Interface** to a **Mobile Data Capture System**

Conversion of transport orders (accumulation of delivery notes) to flat files for processing on mobile hand held computers, using BDC inbound.

SAP R/3 4.6 Shipment, IS Beverage

● SAP ABAP Developer

planbusiness consulting GmbH

02/2006 – 12/2006

Postbank AG, Germany

Master Data (GP-) Connection of two SAP CRM-Systems across companies.

The fusion of BWH and Postbank promised benefits from cross-selling potential.

GP master data on both systems had to be matched systematically in order to consolidate contract data of identical customers.

ECATT Script development for data conversion – Prototype for conversion scenario with remote system control.

Interface design and development of a solution allowing for near real time comparison of changes on GP records

SAP R/3 Basis 620, CRM 3.0

● SAP ABAP Developer

planbusiness consulting GmbH

11/2005 – 01/2006

BHW Insurance, Hameln, Germany

Design and Development of a **generalization of custom coding** addressing the need to roll out functional extensions to foreign and national subsidiaries.

Central question was, which functionality should be included in a general, customizable solution for BHW's contract management.

Evaluation of an implementation of SAP's **BRF (business rule framework)**.

SAP R/3 Basis 620, CRM 3.0

● Developer

11/2004 – 10/2005

SAP AG, Walldorf, Germany

Development of a **Database Layer** to support the BRF (Business Rule Framework)

The architecture of BRF was lacking a consistent database access through shared class methods. This feature was due because of a requirement to process data for past validity dates.

SAP R/3 Enterprise, WAS 620 , **ABAP OO**

● SAP ABAP Developer

08/2003 – 10/2004

SAP AG, Walldorf, Germany

Development of a **Price Planning Workbench** for **IS-Retail**

Design and implementation support for a dialog transaction handling mass

maintenance of price plans.

Use of ALV-Trees and Grids, UML design tools

SAP R/3 Enterprise, WAS 620 , **ABAP OO**

● **SAP ABAP Developer**

03/2003 – 06/2003

tt-netcom GmbH (later movis GmbH), Germany

Development of an **XML-Interface for the Integration of a Mobile Data Collection System** with R/3 using a MySQL database, PHP-Scripting and XSLT Transformations.

The platform independent solution builds on Java-based open source tools and allows for communication via SAP Business Connector.

Design, product selection (EAI), implementation

SAP R/3 4.6 ALE , Java, PHP, XML, Business Connector

● **Developer**

dsyd consulting GmbH

06/2002 – 09/2002

EDEKA Zentrale AG

Cooperative society of german retailers

Preparation of a **web based master data maintenance application**

Design and implementation of a prototype for customer record maintenance using SAP Java Connector and JDK 1.3.1

SAP IS-Retail, SAP R/3 4.6C, Java Connector

● **SAP ABAP Developer**

dsyd consulting GmbH

02/2001 – 04/2002

LBK - Landesbetrieb Krankenhäuser, Hamburg

Integration of SAP MM and Warehouse Management System WLS® (SALT AG Würzburg)

Designed and implemented an interface using ALE, RFC

Extension of IDOCs, definition of data structure and flow

Reporting on warehouse system WLS®

Analysis of stock database with MS ACCESS

SAP R/3 ALE, Warehouse Management, MS ACCESS

● **SAP ABAP Development Manager**

Deloitte Consulting

11/2000 – 01/2001

Team assistance for R/3® **Application Remote Support Center** (Hyderabad)

Deloitte offers off shore support with a team of specialists out of a development center in Hyderabad, India.

Customers in need of ABAP-, scripting- and configuration support get connected remotely.

Planning, documentation and supervision of development tasks for several US American clients (EDI, reporting, SAPforms)

Introduction and improvement of development standards

SAP R/3

● **SAP ABAP Developer**

Dynpro Inc.

04/2000 – 10/2000

Boehringer Ingelheim, CT, USA

Pharmaceutical Industry

Implementation of **R/3® to Host Interface**; Module QMDevelopment on MERCATOR®, Middleware for Message Exchange

Scripting (UNIX), Transaction Calls to module QM

Reporting for annual order evaluation

SAP R/3 4.0, MERCATOR®, UNIX

● **SAP ABAP Developer**

Barton Associates LLP

09/1998 – 03/2000

Office Max, OH, USA

Development Support for Retail ImplementationCoding of pricing enhancements

Design and implementation of Deal Pricing Application

Enhancements of Listing Functionality

Adjustment of material classification

Preparation of Development-Plan (Volume of 2000 developer days)

SAP R/3 IS-Retail

● **SAP ABAP Developer**

Barton Associates LLP

05/1998 – 08/1998

Hunt Wesson Foods, CA, USA

R/2 **Migration** (Rel. 4 auf 6.0). Analysis and adaptation of data and program pools for release upgrade

SAP R/2

● SAP ABAP Developer

Ernst Young LLP

04/1997 – 04/1998

Nash Finch, Retailer, MN, USA

Development Support for Retail Implementation

Development of a Background **Pricing Function** for the first US Retail roll out.
Developed a custom application to identify groups of stores and articles due for new price determination after arbitrary condition changes.

SAP R/3 , IS-Retail

● Developer

Bauer Group Inc.

01/1996 – 04/1997

ACME Steel Corp. Chicago, IL, USA

Development of a **Time Tracking and Approval Function** Concept,
implementation, training for employment time tracking transaction (Interactive Reporting)
Maintenance of interface programs integrating data capture terminals (EPIC Data, Canada) into R/3 HR

SAP R/3 2.2

● Developer

d.d. consulting GmbH

03/1994 – 12/1995

ABAP training, inhouse preparation and delivery of first courses to colleagues.

Projects for Hospitals (UK Eppendorf) and trading companies.

● **Software Developer - Technical**

1992 – 1993

PCP – Hamburg

DB development, 3D software, CAD software selection and training

EDUCATION AND TRAINING

● **Studies of Synthetic Biology**

05/2013

Study basics of biology, chemistry, genetic technology for the application in Synthetic Biology and Microbial Engineering

● **University Hamburg**

Masters Degree in Physics

1993

Calculation of optical wave guide properties with FFT Algorithms using parallel computing

Using algorithms for predictions of long range laser beam propagation, my thesis could prove the concept of applying such approximations in QM domain of weakly leading wave guides.

● **Trainer SAP Basis Features and ABAP Programming**

1994 – 1995

Instructed developers about specifics of SAP tools and architecture.

ABAP Reporting

Basis Administration

LANGUAGE SKILLS

Mother tongue(s)

German

Other language(s)

English

Listening



C2

Reading



C2

Spoken interaction



C1

Spoken production



C1

Writing



C1

Portuguese

Listening



B1

Reading



B1

Spoken interaction



B2

Spoken production



B2

Writing



B2

DIGITAL SKILLS

Other

SAP/ABAP4 | HTML/ HTML5 | JavaScript & jQuery | SAP HANA

| 2nd ITIL support Level

ORGANISATIONAL SKILLS

Organisational skills

Teams have a great potential to carry big tasks since humans are compassionate longing for integration.

Leading teams succeeds when giving directions and clear objectives, carrying everyone through difficulties and alligning their motivation.

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Exchanging, helping, discussing and understanding

Moving forward through dialog

JOB-RELATED SKILLS

Job-related skills

- 1) Experience and open mind to learn about new tools and patterns
- 2) The patience and talent to listen to the user
- 3) Abstracting from details and generalize

Object oriented languages have extensive libraries allowing to build models for real application processes.

Being familiar with such libraries allows effective implementations.

SAP Processes

Customer Relationship Management (CRM)

WebUI, Extension Framework, OneOrder Model in Sales and Service

Partner, Organization, Product, Activity

Material Management (MM)

Material Master, Classification, Warehouse Management, IDOCs

Vertrieb (SD)Product, Pricing

Retail (IS-Retail)

Product, Pricing

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