

DUPLICATE CHECK

Checking duplicate Master Data in SAP®

A carefree master data life without duplicates

The lifecycle of master data and its value is increasingly in focus. Many companies have experienced poor data quality due to unwanted data that has led to wrong approaches in operational and strategic planning and poor results in marketing campaigns. Reliable reporting is difficult and sometimes impossible. Duplicate checking and cleansing in the SAP system is therefore an important support for business success. In credit management, risks are minimized, the company's image is protected, and qualitative evaluations of customers and

suppliers are possible. Also for the cross-system distribution of master data, with master data governance, a clean identification of identical master data to form the „golden record“ is important.

With its solutions, ISO Professional Services makes a decisive contribution to a successful master data strategy - transparently and sustainably.



The Integrated Solution for Your SAP Application

Marlin Duplicate Check (MDC) is an SAP certified, modular solution. Depending on the requirements of the company (ERP, CRM, industry solution), the objects to be checked (customer, supplier, central business partner and contact person) are defined using different scenarios. The Marlin Materials Check (MMC) solution is available for the material master.

For the material master, the Marlin Material Check (MMC) solution is used to avoid new duplicates, the Stock Check to detect and check existing duplicate master data, and the Clearing Monitor to process duplicate groups. Further data cleansing is supported by an additional tool set.

Search Technology

The choice of search technology ensures optimal results. Depending on the amount of master data and system architecture, MDC offers several search technologies.

Marlin Basic

Is a search technology implemented in ABAP that provides the best results for small amounts of master data.

Scarus intelliSearch® Server

Is a top search technology implemented in Java that supports all alphabets and visual languages. The check is performed by comparing field contents, which are evaluated and assigned to a duplicate type.

Freely definable duplicate types (such as „sure duplicate“, „possible relocation duplicate“, or „same bank

account“) provide the user with more information for easier processing. The necessary settings for the duplicate check are individually defined and stored in SAP Customizing.

The server version of intelliSearch is designed for large data volumes with more than two million master data records and can be connected to different systems (ERP, SRM, CRM) via web services.

The connection to external systems makes it easy to check master data for duplicates. The results are available for processing in the SAP system.

Key benefits

- Integrated in SAP ERP and SAP CRM
- Certified solution
- Selectable search technology
- Modular structure for flexible deployment
- Customer, supplier, key business partner, contact person
- Dialog check, inventory check, external data check External data
- Worklist creation
- Duplicate processing monitor
- Duplicate detection by address, bank details, tax number, phone number, date of birth and other scenarios
- Extensible with add-ons
- Integrated with customer and vendor governance process
- Ready for S/4HANA

Proactive Dialog Check

The integrated dialog check prevents the creation of new duplicates during maintenance and the creation of new duplicates. A result display informs the user if the record already exists in the system. The user is provided with additional information about the records found, such as locks on the master record, company code views, company code views, or whether they have already been defined as primary data records.

From the results display, the user can create a worklist with notes and assign it to an employee for processing.

Master Data Inventory Check

To check the master data, the user creates a check project by defining selection criteria for the data set to be searched and specifying the check settings. In addition to the address, other check characteristics are available for identification, such as USTID, bank details, telephone number, tax number, e-mail address and date of birth for private individuals.

The duplicate master records found are combined into duplicate groups and stored in a document in a traceable manner. The user can view the results of the check. They receive information on the selection of duplicates found, a list display of the results, and an overview of the current processing status.

A clearing process with monitor and worklists is available for further qualified processing.

Header duplicate determination

MDC supports the user in deciding which master record should be used as the primary data record in the future and which master data should be flagged for deletion or blocked.

The header duplicate determination assigns points for various information such as: open items, number of company codes. The master record with the most points receives the header duplicate indicator.

Validate external data files

MDC can also import and validate external master data from CSV files. The results are displayed in a list view and can be exported. The Marlin Batch Import (BIS) add-on is available for importing master data into SAP ERP.

Clearing Monitor

Duplicate cleansing is performed using a processing monitor that displays the results of the checks. The master data manager can assign the duplicate groups found to individual employees in their worklists for processing.

In the clearing monitor, the duplicates found are displayed with their dependent transaction data (number of open items, orders, quotations, purchasing info records, equipment, sales, etc.) and organizational structures (number of company codes, purchasing, sales, and organizational data).

Links, such as customer to vendor or a customer/vendor business partner defined as a customer/vendor, and usage by other master data (head office branch, partner functions, customer hierarchy, etc.) are clearly displayed. Using a master data structure browser, field contents and usage can be compared and reviewed quickly and easily.

Transactional data information can be enhanced with customer-specific extension modules to accurately identify intentional duplicates and master records within a corporate hierarchy.

Duplicate relationships are tagged with primary and secondary indicators, and the relationships created are stored in a repository. From there, they are available to other applications such as BW or for reporting.

Data Quality Monitoring

An integrated central document management system logs all duplicate checks and processing in the Clearing Monitor. This makes it possible to track usage over time and improve quality.



Data cleansing in six steps

1. Inventory check of a selected set of master data
2. Identify header duplicates so that the correct duplicates are flagged for deletion or locked
3. Creation of worklists for processing duplicate groups and defining primary and secondary master records
4. Copying tool for the company code, stock and sales organization views, so that the primary master record can be used operationally
5. Copy tool for the purchasing info record, so that the conditions are transferred to the primary master record
6. Cleanup tool for equipment or technical work center, so that the secondary master record is changed to the primary master record

Functions supported

- Supported objects include customer, vendor, central business partner, contact person
- Dialog check for creation and maintenance of master data
- Inventory check for selected master data
- External data validation via CSV upload
- Duplicate check by address, phone number, email, bank details and tax number, VAT ID
- Header duplicate detection
- Clearing monitor for fast and secure processing
- Group duplicates into duplicate groups
- Classification by duplicate type (e.g., secure duplicate/removed duplicate)
- Assignment by primary and secondary relationship
- Display of transaction data (OP, orders, offers)
- Search by organizational data at field level
- Object structure browser to display dependencies
- Flexible handling through customizing
- Error-tolerant F4 search with additional information
- Integrated with the Marlin Data Governance process for customers/suppliers and business partners
- BAdI for connection to the customer's Z programs
- Web service to connect to external systems (CRM, SRM)

Additional Data Cleansing Tools

The functionality of MDC can be extended with add-ons.

Marlin Import Data (MID)

Transfer fields from the legal disclaimer or e-mail signature directly into the master record.

Marlin Structure Browser (MSB)

Structure analysis of customers and vendors for field populating, usage and dependencies

Marlin Tool Set (MTS)

- Compare duplicate group and copy company code, EK-Org, VK-Org to primary record
- Copy purchasing info record from source vendor to target vendor
- Compare duplicate group and copy equipment, technical work center to primary record

Data Governance Integration

The duplicate check is integrated with the Marlin Data Governance for Customers, Suppliers and Business Partners product. Customers who later decide to implement a data governance process can simply use the integrated duplicate check. Settings are applied automatically. There is no additional customization or installation required.

Software Architecture

The software has been developed in the protected ISO namespace for optimal integration with SAP systems. The standard SAP technology BAdI (Business Add-In) for Central Address Management (ZAV) from Release ECC6 Business Address Services (BAS) has been integrated.

Marlin Certification

The Marlin solution is certified by SAP.



MARLIN SUITE FOR SAP

- **Master Data Governance**
for customer, vendor, business partner, material master, and other objects
- **Business partner duplicate checking**
Dialog, inventory, CSV upload, header duplicate detection
- **Material master duplicate check**
Short text, long text, MARA fields
- **Address Validation**
Standardization, correction, geodata
- **Fault Tolerant Search**
F4 search for business partners, material master, purchase and sales documents
- **IBAN and Bank Check**
Determine the bank address for an IBAN and create or update the bank master
- **Import data**
Easily import field information from the imprint or email signature
- **VAT ID check**
Dialog, inventory, FI and SD documents
- **Sanctions data**
Web service to import sanctions lists for Marlin products | CSV, XML, SAP GTS format
- **Business Partner Identification**
Legal entity check against an international company database to determine if a business partner is active
- **Data Enrichment and Updating**
Company name, address, tax number, marketing characteristics, parent company
- **Customer Hierarchy**
Group structure is imported for a master record
- **Credit check**
Credit check and connection to FCSM credit management
- **Intelligent Search Technology**
Scarus Data Quality Server, thesaurus, transcription, business form recognition, measurement unit conversion
- **Data Web Service**
Sanctions lists, PEP lists, Dow Jones, lists, municipality keys, international postal addresses, bank master data
- **Translation of add-ons and Z Programs**
Analysis and translation of SAP programs (screen, data element, note text) into various languages

Sound consulting and tried and tested products

With the Marlin product suite for SAP solutions and Scarus for non-SAP systems, ISO has created a holistic approach to data quality. After more than 1,100 successfully completed projects, over 200 customers are currently using our solutions on about 600 systems (SAP ERP, S/4HANA, CRM, SRM). We offer reliable project management and first-class expertise in data quality and master data management. Depending on requirements, we complement our offering by collaborating with other data quality experts who provide web services, content or technology.

Benefits

- SAP Integrated Solution
- for S/4HANA, SAP ERP
- ISO provides own lists via web service
- Language independent screening technology
- Web service to connect to other systems (portal, SRM, CRM)
- Validation of CSV lists

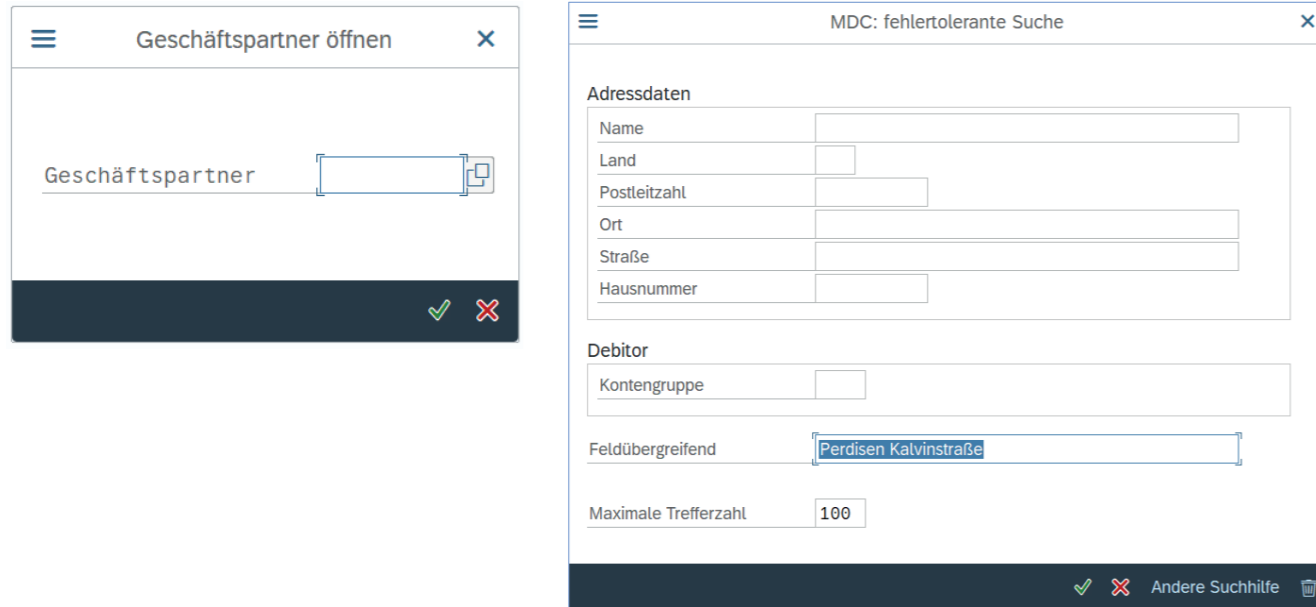


Figure 1: F4 search help with cross-field search

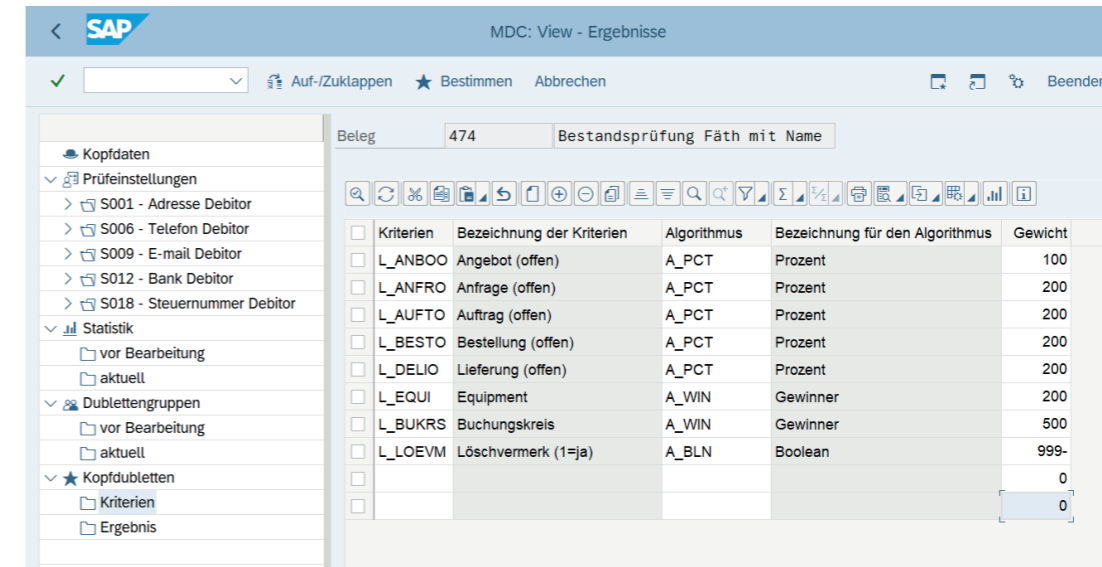


Figure 3: Criteria for head doublet determination

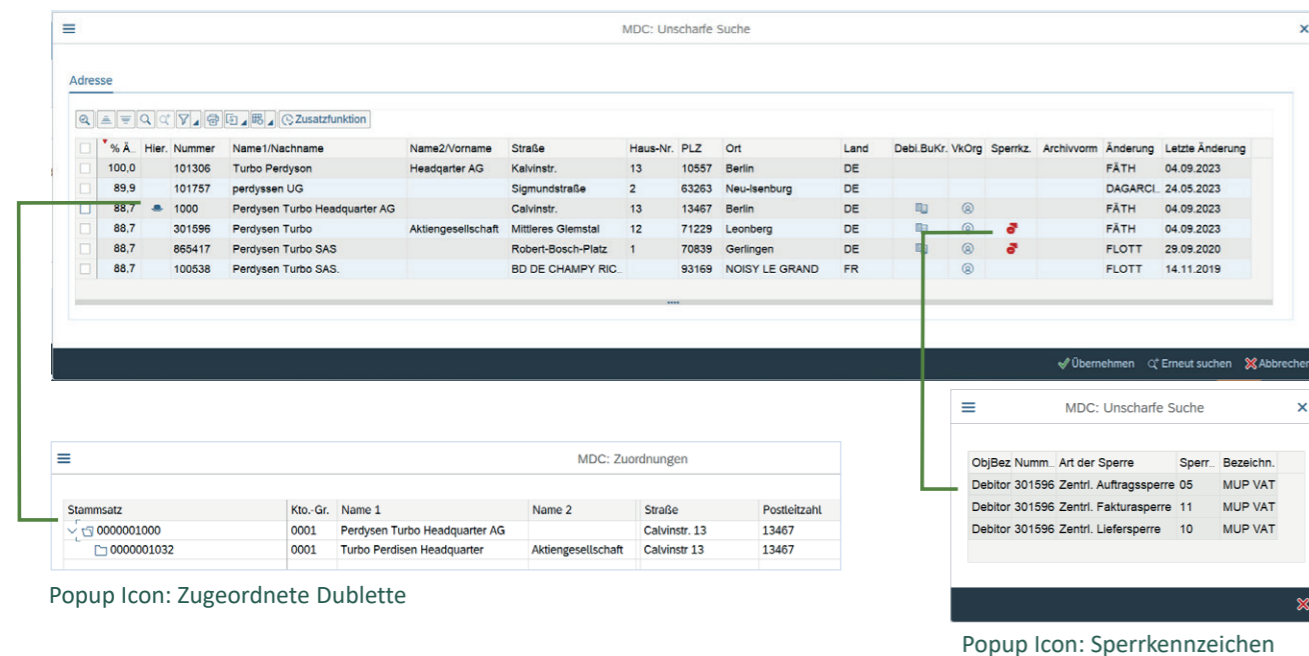


Figure 2: Search result with additional information via pop-up F4 search help with cross-field search

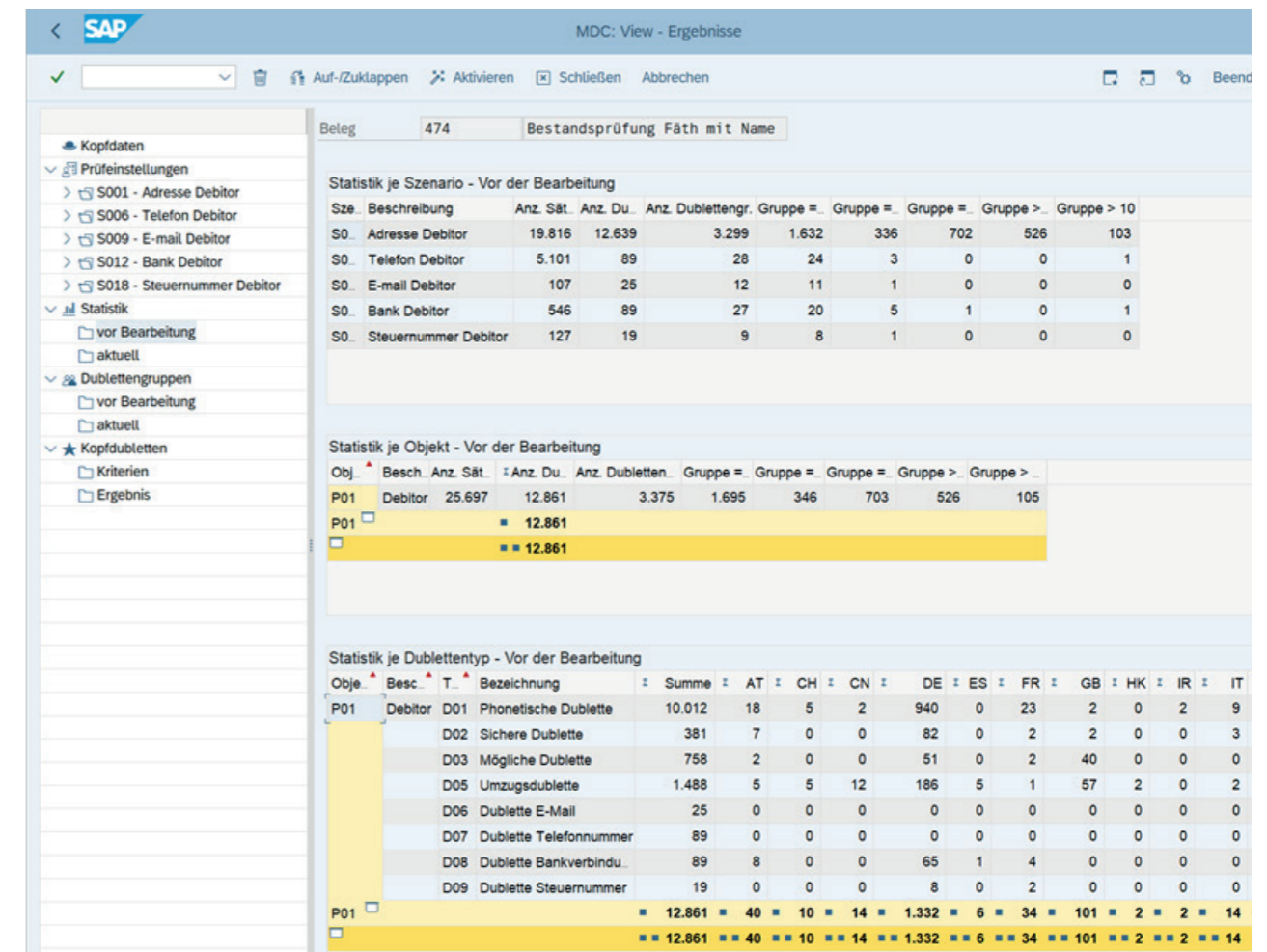


Figure 4: Summary of duplicate check results across multiple scenarios

Key Figures

- Founded in 1979
- Owner-operated company
- 138 million Euros turnover in 2022
- Around 650 employees
- Head office Nuremberg

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