



Duplicate Check

Master Data Check for Duplicates in SAP®



Master data life without having to worry about duplicates

The life cycle and usefulness of master data is moving more and more into the focus of attention. Unintentionally created master data causes poor data quality, resulting for many companies in faulty approaches to their strategic and operational planning and poor outcomes of their marketing campaigns. Reliable reporting is difficult, often even impossible.

Therefore, checking for duplicates in the SAP® system and cleansing them is an important step toward economic success. It minimizes risks in credit management, safeguards the company's image and allows the qualitative evaluation of customers and suppliers.

Clearly identifying identical master data in order to create the "golden record" is likewise important for a system-wide master data distribution with master data governance.

The integrated solution for your SAP applications

Marlin Duplicate Check (MDC) is a modular solution that is SAP certified. Depending on the company's requirements (ERP, CRM, industry solution), the objects to be examined (customer, vendor or business partner) are defined using various scenarios.

The three core components include the Dialog Check (to prevent new duplicates), the Inventory Audit (to recognize existing duplicates and for regularly checking) and the Clearing Monitor (for processing groups of doublets).

Search technology

The choice of search technology ensures optimal results. MDC offers various technologies, depending on the master data volume and the system architecture.

intelliBasic:

This a search technology programmed in ABAP, best suited for lower volume master data.

intelliSearch:

This a top search technology programmed in JAVA. It is available as a DLL or a search server and supports all alphabets and pictorial languages.

Using Webservice and standard interfaces, other search technologies can be connected. These can then access the integrated processes of MDC.

The check is performed by comparing field values, which are then rated and assigned a duplicate type. Freely definable duplicate types (for example "positive duplicate", "potential relocation duplicate" or "identical bank details") provide users with more information for easier processing. The required settings for the duplicate check are defined individually and can be changed using the SAP Customizing.

Advantages

- integrated in SAP ERP and SAP CRM systems
- certified solution
- the search technology can be selected
- modular design for flexible use
- customer, vendor, central business partner, contact person
- dialog check, inventory audit, check for external files
- work lists and monitor for processing
- expandable using add-ons
- integrated with the governance process customer and vendor

Proactive Dialog Check

The integrated dialog check prevents new double entries when editing and changing master data. A results display informs users if a record already exists in the system. They also receive information about the record(s) found – whether the master record is locked, has company code views or has been defined as a primary set.

From within this popup window, the user can inform other staff members about the process or make a reference for further processing.

Master data inventory audit

To carry out an inventory audit of the master data, the user creates a check project by selecting the amount of data to be searched and defining the test settings. Beside the address, these include the bank details, telephone number, tax number, e-mail address and, for individuals, the date of birth.

The duplicates found are combined into duplicate groups and stored in a traceable document. Users can get information about the test project using a view. This view shows details about the duplicates found, offers a results list and an overview of the current editing status.

For further processing, a clearing process with monitor and work lists are available.

Checking external data files

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

Clearing Monitor

Clearing duplicates is done in an editing monitor, which is called from the check project. For further processing, the person with the “master data support” role can assign the found duplicate groups to specific employees in work lists.

The duplicates found are shown in the clearing monitor along with the dependent transaction data (number of open items, orders, offers, purchasing information records, equipment, sales, etc.) and the organizational structures (number company codes, purchasing data, sales data, organizational data).

Assignments – such as customer to vendor, or a business partner is defined as customer or vendor – and the use by other master data (head office / branches, partner functions, customer hierarchies, and others) are clearly shown. Using a master data structure browser, field contents and their use can be comprehensibly compared and quickly tested.

To accurately identify intentional duplicates and master records within a corporate hierarchy, details on transaction data can be customized with the help of function modules. The settings made are saved and made available to other applications such as BW, or for reports through the primary and secondary indicators.

The screenshot displays the SAP MAC Pro - View - Details interface. It features a list of duplicate groups on the left and a summary table on the right. The list includes columns for Gruppe, Typ, Bezeichnung, Land, Stammnr, O-art, GP-Art, Name, Name 2, Name 3, Name 4, and Straße. The summary table shows the following data:

Ty	Bezeichnung	Summe	AE	CA	DE	FR	GB	IT	JP	KR	US
03	Phonetisch identisch	44	0	2	0	2	0	2	2	0	36
04	sichere Dublette	82	0	0	17	0	2	0	2	0	61
05	sichere Dublette (Postfach)	2	0	0	2	0	0	0	0	0	0
06	gute Dublette	153	2	2	18	2	0	0	2	0	127
07	mögliche Dublette	357	0	0	11	0	34	0	0	0	312
08	Urmzug innerorts	56	0	0	13	0	7	0	0	2	34
			2	4	61	4	43	2	6	2	570

Selection mask Inventory Audit

Features

- dialog check when creating and editing master data
- inventory audit identifies existing duplicates
- checking of external data
- clearing monitor for quick and safe editing
- supported objects include customer, vendor, central business partner, contact person
- inventory audit can check address, telephone number, e-mail, bank details and tax number
- organization of duplicates into duplicate groups
- classification according to duplicate type
- assignment using primary and secondary relationship
- object dependencies are noted
- display of transaction data (OP, orders, offers)
- search across organization data at field level
- object structure browser to show dependencies
- flexible handling through customizing
- fault-tolerant F4 search
- integrated with the data governance process for customer/vendor

Add-ons

The functionality of MDC can be extended through add-ons:

Marlin Batch Import (BIS)

Interface testing to avoid duplicates when importing master data, with creation in the A-segment.

Marlin Copy (COP)

Comparison of the duplicate group and copying of the organization views of the secondary master record to the primary master record.

Marlin Substitute (MST)

Dependent master data fields of the secondary master records are replaced by the master record number of primary record.

Marlin Structure Browser (MSB)

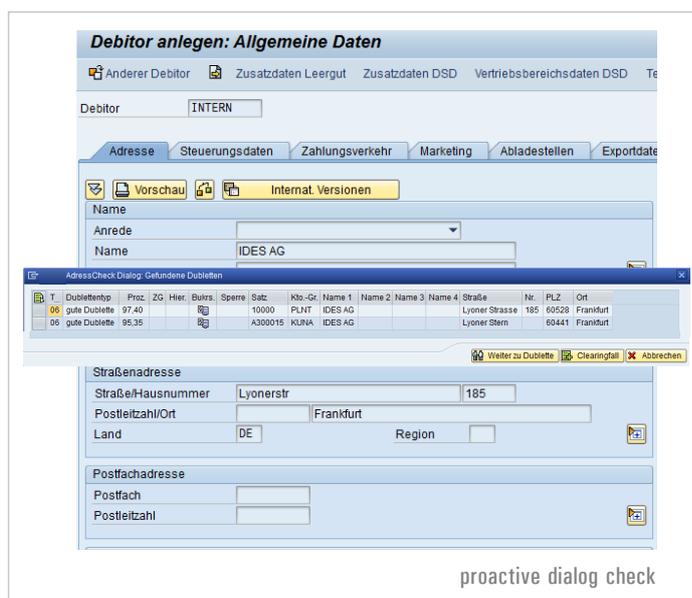
Structural analysis of customer and vendor as to data entered, use and dependencies.

Marlin Hierarchy (HIR)

Simple corporate hierarchy structure using drag & drop for VIS and COPA.

Marlin FACT-Finder (MFF)

The fault-tolerant F4 search can be supplemented by a cross-field search. The F4 search is also available in the material master.



Data governance integration

MDC is ideally integrated with the product Marlin Data Governance for customer and vendor. For customers who choose a data governance process later on, the duplicate check can easily be integrated. The settings will be applied automatically. Neither subsequent customizing nor installation costs will arise.

Monitoring data quality

An integrated central records management logs all duplicate checks and edits done in the clearing monitor. This allows time-based statements about the use and quality improvement.

Architecture

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

Various technologies are available for duplicate checking:

intelliBasic:

Programmed in APAB and integrated with SAP

intelliSearch

Java solution installed on the customer's virtual server and called from SAP via WebService

World Match

Technology from our partner OMIKRON Data Quality; installed on the customer's virtual server and called via RFC

intelliData QualityServer

Server solution by intelliSearch; the connection is done via WebServices, and is also available for non-SAP systems.

Expert advice and proven products

With Marlin for SAP and Scarus for non-SAP systems, ISO offers an integrated approach to data quality. With installations on more than 330 SAP systems (ERP/CRM/IS), we offer reliable project management as well as first-rate expertise in the fields of data quality and master data management. Depending on requirements, we complement our range by cooperating with other data quality experts who provide Web services, content or technologies.

Marlin Suite for SAP

- **Master Data Governance** – system-wide for customer, vendor, bank master, account material master
- **Master Data Inspection**– duplicate check, address validation, VAT ID, sanction lists
- **Data Enrichment**– corporate name, address, tax number, marketing characteristics parent company, hierarchy
- **Master Data Analysis**– data quality, utilization, key performance indicator dashboard
- **Data Cleansing**– where-used list and dependency check, copying views, copying specific transaction data

Scarus Suite for Non-SAP

- **intelliCleaner** – single-user version for processing various data sources
- **intelliCleaner Web**– central tool for processing various data sources
- **intelliDQM Server** – Web-Server for connecting various systems, supports multi-instances
- **intelliData Governance** – Server application for processing and qualifying master data
- **intelliData Migration** – ETL tool for migrating various data sources and processing the results of several users



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