

General Data Protection Regulation Right to be Forgotten (Data Erasure) for SAP ERP & S/4HANA

Znk Methodology and Tool – YDES – Your Data Erasure Solution

An important part of the **GDPR** key elements for protecting individuals is the **Right to be Forgotten**, aka Right to Erasure or simply **Data Erasure**.

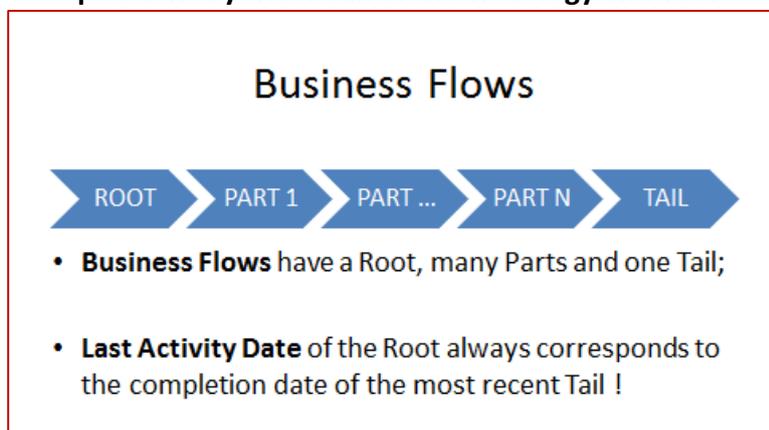
"The right to be forgotten entitles the data subject to have the data controller erase his/her personal data, cease further dissemination of the data, and potentially have third parties halt processing of the data. The conditions for erasure, as outlined in article 17, include the data no longer being relevant to original purposes for processing."

Extract from <https://eugdpr.org/the-regulation/>

It is often difficult for a company to have a clear view on how this can be applied to SAP ERP or S/4HANA environments, main questions being:

- Which data in a SAP system are considered as personal data ?
- How can we identify whether or not a data is still "relevant to original purposes for processing" ?
- And how can we erase the data in a controlled and consistent way ?

YDES is bringing you a concrete answer to all these questions by the mean of Methodology and Tool



Business Flows in the YDES Methodology

YDES Methodology

Methodology Approach

- Definition of records relevant for Data Erasure
- Data Erasure strategy per type or record
- Classification of SAP data and objects as Data Erasure records types
- The three possible Data Erasure techniques in SAP
- Limitations of classical ILM (Information Lifecycle Management) versus the Business Flows approach*
- Identification of Business Flows subject to Data Erasure and of SAP object chain in the flow and their relationships
- Handling of Master Data and archived documents

Methodology Outputs

- Data Erasure Rules
- Data Erasure Strategy

** Classical ILM enforces an erasure strategy on basis of the record age independent of the status of the business flow to which the record belongs. YDES approach considers the age of the whole flow and enforces it as erasure strategy for all records of the flow.*

YDES Methodology

The YDES Methodology provides a clear and precise approach allowing to identify and classify data of SAP objects –**Records**– relevant for Data Erasure in five groups: *Functional Records, Supporting Records, Audit Records, Technical Records and Security Records.*

The YDES methodology also describes how to retrieve the Last Activity Date of given records and how to associate them to defined **Business Flows**.

This approach ensures that **Records are Erased only when the Business Flow to which they belong has been completed for long enough.** This is a lot more powerful than classical ILM with its static rules.

As a result of the methodology, Data Erasure Rules and an Erasure Strategy are defined for all identified records...

YDES Tool

The YDES Tool comes in the form of an SAP add-on (compatible with SAP ERP and S/4HANA) and ensures the effective implementation in your system of the Data Erasure Rules and Strategy which have been defined following the YDES Methodology. In a first step the rules have to be entered in the YDES Configuration screen:

| Flow Type Name | Business Object | Data Retento | Table | Field Name | RetentPer | SQL Statement |
|----------------------|-----------------|--------------|--------|-------------|-----------|---|
| PURCHASE_CONTR | MM_EKKO(F) | PAR0 | EKKO | EBELN | | KONNR = DRP_ROOT_KEY |
| PURCHASE_CONTR | MM_REBEL | PAR1 | EKBE | BELNR GJAHR | | EBELN = DRP_PARO_KEY AND BEWTP = 'Q' |
| PURCHASE_CONTR | FI_DOCUMENT1 | PAR2 | BKPF | BELNR | | AWKEY = DRP_PAR1_KEY |
| PURCHASE_CONTR | MM_MATBEL | PAR3 | EKBE | BELNR GJAHR | | EBELN = DRP_PARO_KEY AND BEWTP = 'E' |
| PURCHASE_CONTR | FI_DOCUMENT2 | PAR4 | BKPF | BELNR | | AWKEY = DRP_PAR3_KEY |
| PURCHASE_CONTR | FM_FUNRES | PART | EKKO | KBLNR | | EBELN = DRP_PARO_KEY |
| PURCHASE_CONTR | MM_EKKO(K) | ROOT | EKKO | | 3650 | KDATB < DRP_KEY_DATE AND BSTYP = 'K' |
| PURCHASE_CONTR | MM_EKKO(F) | SREL | EKKO | | | KONNR = DRP_ROOT_KEY |
| PURCHASE_CONTR | FM_DOC_FI | TAIL | FMFIIT | ZHLDT | | VREFBN = DRP_SREL_KEY AND PAYFLG = 'X' |
| PURCHASE_ORDER | MM_REBEL | PAR1 | EKBE | BELNR GJAHR | | EBELN = DRP_ROOT_KEY AND BEWTP = 'Q' |
| PURCHASE_ORDER | FI_DOCUMENT1 | PAR2 | BKPF | BELNR | | AWKEY = DRP_PAR1_KEY |
| PURCHASE_ORDER | MM_MATBEL | PAR3 | EKBE | BELNR GJAHR | | EBELN = DRP_ROOT_KEY AND BEWTP = 'E' |
| PURCHASE_ORDER | FI_DOCUMENT2 | PAR4 | BKPF | BELNR | | AWKEY = DRP_PAR3_KEY |
| PURCHASE_ORDER | FM_FUNRES | PART | EKKO | KBLNR | | EBELN = DRP_ROOT_KEY |
| PURCHASE_ORDER | MM_EKKO(F) | ROOT | EKKO | | 3650 | AEDAT < DRP_KEY_DATE AND BSTYP = 'F' AND KONNR = '' |
| PURCHASE_ORDER | MM_EKKO(F) | SREL | EKKO | | | EBELN = DRP_ROOT_KEY AND BANFN = '' |
| PURCHASE_ORDER | FM_DOC_FI | TAIL | FMFIIT | ZHLDT | | VREFBN = DRP_SREL_KEY AND PAYFLG = 'X' |
| PURCHASE_REQUISITION | MM_EBAN | ROOT | EBAN | | 3650 | ERDAT < DRP_KEY_DATE |
| PURCHASE_REQUISITION | MM_EKKO(F) | SREL | EKKO | | | BANFN = DRP_ROOT_KEY AND KONNR = '' |
| PURCHASE_REQUISITION | FM_DOC_FI | TAIL | FMFIIT | ZHLDT | | VREFBN = DRP_SREL_KEY AND PAYFLG = 'X' |
| PURCHASE_SUPPORTING | CC FM_FUNRES | SUPR | KBLK | | 3650 | BUDAT < DRP_KEY_DATE AND BLART = 'CC' |

The flexibility of the tool allows supporting almost all possible Business Flows and Data Erasure strategies.

In a second step, the execution of the Data Erasure and its result can be controlled in the YDES Dashboard:

Data Retention Policy - Discarding Status Overview Dashboard

Data Retention Policy Dashboard

Year Being Discarded: 2008 (DRP_DISCARDING_YEAR IN TYVAR)

Today: 09-12-2018

| Client Business Flow | Bus. Obj. | Status | Identified for DRP | Not ready to be discarded | Ready to be discarded | Added to archiving process | Last Archiving Run | Last Deletion Run | Yet to be archived | Archived | and deleted | Fully d. |
|--------------------------|--------------|--------|--------------------|---------------------------|-----------------------|----------------------------|--------------------|-------------------|--------------------|----------|-------------|----------|
| 310 BUDGETARY | FM_FUNRES | ☺ | 217 | 100 | 0 | 117 | | | 0 | 0 | 0 | |
| 310 BARRIERS_FUND | FM_FUNRES | ☺ | 2 | 0 | 0 | 2 | | | 0 | 0 | 0 | |
| 310 FINANCIAL_ACCOUNTING | FI_DOCUMENT | ☺ | 109.407 | 0 | 0 | 109.407 | | 19.11.2018 | 0 | 0 | 0 | |
| 310 NON_BUDGETARY | FI_DOCUMENT | ☺ | 57.960 | 4.628 | 0 | 53.332 | | 19.11.2018 | 0 | 0 | 0 | |
| 310 PURCHASE_CONTR | MM_EKKO(F) | ☺ | 306 | 371 | 0 | 30 | | 06.11.2018 | 0 | 0 | 0 | |
| 310 PURCHASE_ORDER | MM_EKKO(F) | ☺ | 3.434 | 630 | 0 | 2.804 | | 06.11.2018 | 0 | 0 | 0 | |
| 310 STOCK_MOVEMENT | MM_MATBEL | ☺ | 773 | 0 | 0 | 773 | | | 0 | 0 | 0 | |
| 310 STOCK_RESERVATION | RESERVA_TREN | ☺ | 1.896 | 67 | 1.829 | 0 | | | 0 | 0 | 0 | |
| 310 ZOMBI_LOG_GR | MM_MATBEL | ☺ | 1.709 | 0 | 0 | 1.709 | | | 0 | 0 | 0 | |
| 310 ZOMBI_LOG_BW | MM_REBEL | ☺ | 4.324 | 0 | 0 | 4.324 | | | 0 | 0 | 0 | |

Discarding process ongoing

YDES is Your Data Erasure Solution

YDES Tool

Smart & Simple

- Pure ABAP Add-on
- Easy and quick installation
- No supplementary hardware needed

Specialized

- Especially built to support the YDES Methodology
- Supports the implementation of the Data Erasure rules by the mean of configuration tables and screens

Enforces the Data Erasure Rules & Strategy

- By generating the necessary archiving and reorganization programs variants
- By managing the data archiving and reorganization processes
- By controlling the archiving and reorganization results
- By providing a dashboard allowing to monitor, follow and manage the Data Erasure process

Coherency & Completeness

- Includes functionalities for checking the "Rules Coverage" thus ensuring that no records are missed by the defined Data Erasure rules
- Ensures all aspects of the records (Z tables, archived documents, ...) are taken into account