

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**.

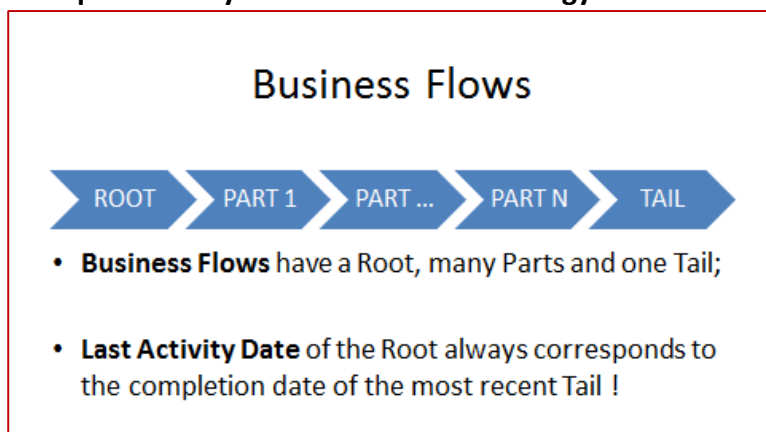
"The right to be forgotten entitles the data subject to have the data controller erase his/her personal data, cease further dissemination of the data, and potentially have third parties halt processing of the data. The conditions for erasure, as outlined in article 17, include the data no longer being 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	0	117			0	0	0	
310 BARRIERS_FUND	FM_FUNRES	2	0	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