



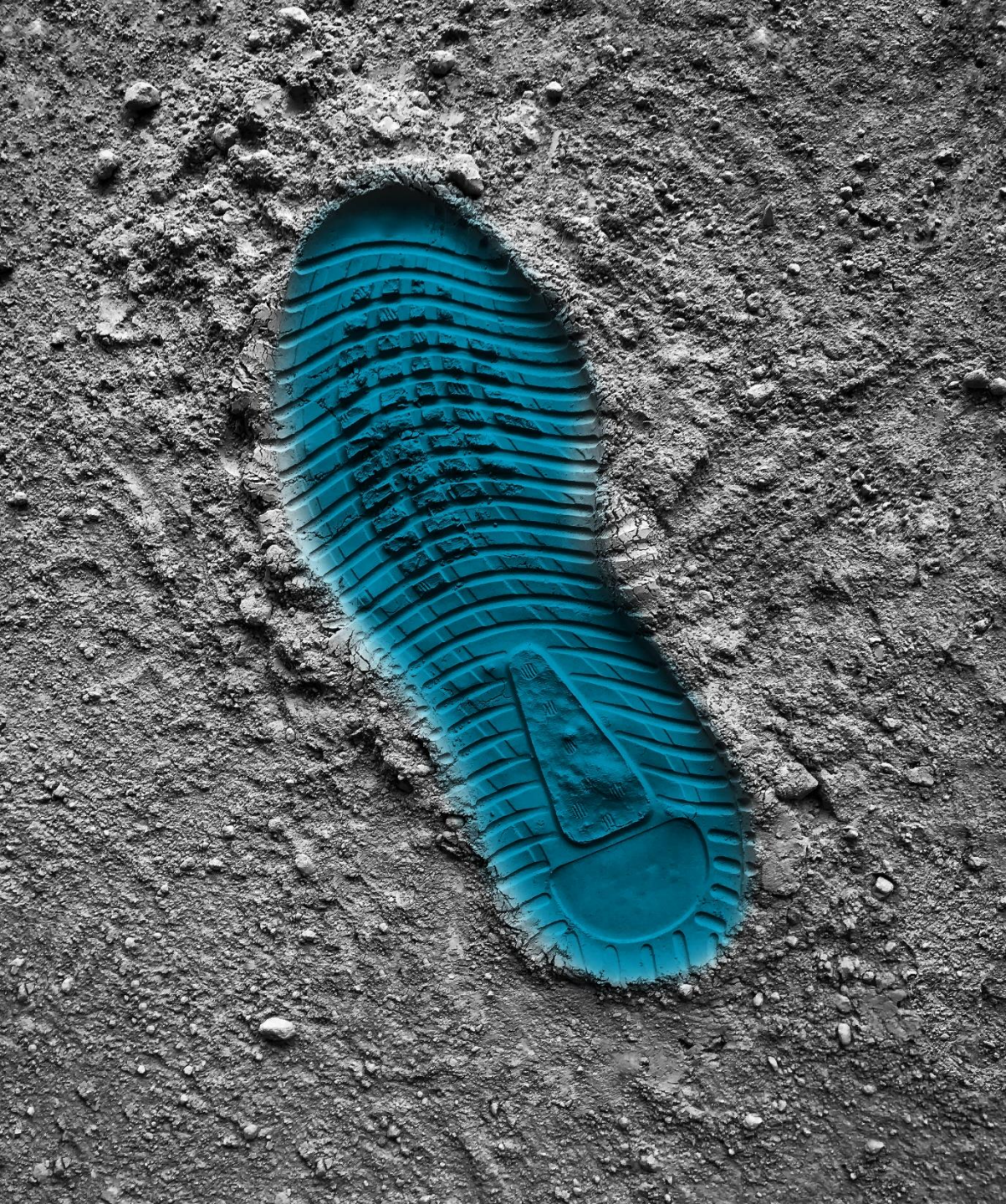
# Why do I need to track the history of data changes in the system?

The ability to track the history of changes in directories and documents is crucial tool for:

- end users
- administrators
- support team







# Advanced database log

A powerful solution that allows:

- To setup data change tracking easily and quickly
- To see them in a user-friendly way
- To reduce support service costs
- To improve data quality







# Advanced log is available in all forms in the system

Navigation bar: Save, New, Delete, CUSTOMER, SELL, INVOICE, COLLECT, PROJECTS, SERVICE, MARKET, RETAIL, GENERAL, **OPTIONS**

PERSONALIZE: Default to system edit mode option, Personalize this form, Add to workspace

PAGE OPTIONS: Security diagnostics, Record info, Advanced filter or sort, Change view

EDIT: Read mode, Revert

SHARE: Get a link, Create a custom alert, Manage my alerts

**ADVANCED LOG**  
Advanced log

ALL CUSTOMERS

Filter

✓	Account ↑	Name	Invoice account	Customer group	Currency	Telephone	Exten
	DE-001	Contoso Europe DFG	▼	90 ▼	EUR ▼	01234 567892	
	US-001	Contoso Retail San Diego		30	USD	321-555-0160	
	US-002	Contoso Retail Los Angeles		30	USD	123-555-0111	
	US-003	Forest Wholesales		10	USD	123-555-0159	
	US-004	Cave Wholesales		10	USD	123-555-0161	
	US-005	Contoso Retail Seattle		30	USD	123-555-0172	
	US-006	Contoso Retail Portland		10	USD	123-555-0112	
	US-007	Desert Wholesales		30	USD	123-555-0162	
	US-008	Sparrow Retail		30	USD	123-555-0163	
	US-009	Owl Wholesales		10	USD	123-555-0164	
	US-010	Forest Wholesales		10	USD	123-555-0160	

- customers form
- sales orders form
- .. and all other forms in the system





# Collects changes from all related tables in one place

- customer card consists of more than 20 related tables
- Advanced Log collects all changes on one form

ADVANCED LOG | DE-001 : CONTOSO EUROPE DFG

Overview History General

From date: 6/17/2019 To date: 6/17/2019 Search by table, field, description Search by values Collapse Insert and delete fields: Yes

✓	Date ↓	Table label	Description	Edit contents	Field label	New	Old	User
	6/17/2019 05:51:58 AM	Global address book	DE-001 : 000000838 : Contoso Europe DFG : 000000838 : Contoso...	Update	Name	Contoso Europe DFG	Contoso Europe DFG dsf	Admin
	6/8/2019 11:42:02 AM	Global address book	DE-001 : 000000838 : Contoso Europe DFG : 000000838 : Contoso...	Update	Name	Contoso Europe DFG dsf	Contoso Europe DFG	Admin
	6/7/2019 03:17:34 AM	Customers	DE-001 : 000000838 : Contoso Europe DFG : DE-001 : 000000838 : ...	Update	Automatic notification and cancellati...	Yes	No	Admin
	6/7/2019 03:12:43 AM	Communication details	DE-001 : 000000838 : Contoso Europe DFG : Phone : 01234 567892	Update	Contact number/address	01234 567892	01234 567891	Admin
	6/7/2019 03:11:43 AM	Communication details	DE-001 : 000000838 : Contoso Europe DFG : Phone : 01234 567892	Update	Contact number/address	01234 567891	01234 56789	Admin
	6/7/2019 03:09:58 AM	Internal and external organizations	DE-001 : 000000838 : Contoso Europe DFG :	Update	Phonetic name	drth dxg	drth	Admin
	6/7/2019 03:08:37 AM	Internal and external organizations	DE-001 : 000000838 : Contoso Europe DFG :	Update	Phonetic name	drth		Admin
	6/7/2019 02:03:59 AM	Document references	DE-001 : 000000838 : Contoso Europe DFG : File	Delete				Admin
	6/7/2019 02:03:59 AM	Document value	DE-001 : 000000838 : Contoso Europe DFG : Set up translations of...	Insert				Admin
	6/7/2019 02:03:53 AM	Document references	DE-001 : 000000838 : Contoso Europe DFG : File : Set up translati...	Insert				Admin
	6/7/2019 02:03:41 AM	Document references	DE-001 : 000000838 : Contoso Europe DFG : File	Insert				Admin
	6/7/2019 01:54:48 AM	Customers (Retail)	DE-001 : 000000838 : Contoso Europe DFG : DE-001 : Standard re...	Update	Receipt email	drg@sdf.ru		Admin
	6/7/2019 01:50:58 AM	Global address book	DE-001 : 000000838 : Contoso Europe DFG : 000000838 : Contoso...	Update	Language	en-in	en-us	Admin
	6/5/2019 02:04:22 AM	Customers	DE-001 : 000000838 : Contoso Europe DFG	Update	Customer classification group	01		Admin
	5/29/2019 04:28:40 AM	Customers	DE-001 : 000000838 : Contoso Europe DFG	Update	Credit limit	2.00		Admin
	5/25/2019 05:53:29 AM	Organizations	345 FGH : A	Update	Number of employees	567	345	Admin
	5/25/2019 05:52:29 AM	Organizations	345 FGH : A	Update	Organization number	345 FGH drg	345 FGH	Admin
	5/25/2019 05:42:11 AM	Communication details	000001200 : Telex : 01234 56780	Update	Contact number/address	01234 56780	01234 56789	Admin
	5/25/2019 05:28:55 AM	Customers (Retail)	DE-001 : 000000838 : Contoso Europe DFG : DE-001 : Standard re...	Update	Post as shipment	No	Yes	Admin
	5/25/2019 05:27:35 AM	Customers	DE-001 : 000000838 : Contoso Europe DFG	Update	Dimension: Department	025	022	Admin
	5/25/2019 05:24:32 AM	Global address book	DE-001 : 000000838 : Contoso Europe DFG : 000000838 : Contoso...	Update	Address books	Amsterdam;Annapolis	Amsterdam	Admin
	5/25/2019 05:22:39 AM	Internal and external organizations	DE-001 : 000000838 : Contoso Europe DFG :	Update	DUNS	56757	567	Admin
	5/25/2019 05:19:50 AM	Organizations	345 FGH : A	Update	Organization number	345 FGH	345	Admin



# Quick filtering and searching

Save + New Delete Advanced log requests Database log setup Advanced log processing OPTIONS

ADVANCED LOG | DE-001 : CONTOSO EUROPE DFG

Overview History General

From date 5/17/2019 To date 6/17/2019 Search by table, field, description conta Search by values 123

✓	Date ↓	Table label	Description	Edit contents	Field label	New	Old	User
	6/7/2019 03:12:43 AM	Communication details	DE-001 : 000000838 : Contoso Europe DFG : Phone : 01234 567892	Update	Contact number/address	01234 567892	01234 567891	Admin
	6/7/2019 03:11:43 AM	Communication details	DE-001 : 000000838 : Contoso Europe DFG : Phone : 01234 567892	Update	Contact number/address	01234 567891	01234 56789	Admin
	5/25/2019 05:42:11 AM	Communication details	000001200 : Telex : 01234 56780	Update	Contact number/address	01234 56780	01234 56789	Admin

Instant search by:

- date
- table / field
- record description
- values





# Automatically decoding of reference fields

Save + New Delete Advanced log requests Database log setup Advanced log processing OPTIONS									
ADVANCED LOG   001211 : FOREST WHOLESALERS									
Overview History General									
From date		To date		Search by table, field, description		Search by values		Collapse Insert and delete fields	
5/17/2019		6/17/2019						Yes <input type="checkbox"/>	
✓	Date ↓	Table label	Description	Edit contents	Field label	New	Old	User	
✓	6/17/2019 08:45:22 AM	Sales orders	001211 : Forest Wholesales	Update	Postal address		Wholesales : 123 White Road Los Angeles, CA 90004 USA	Admin	
	6/17/2019 08:33:44 AM	Order lines	001211 : Forest Wholesales : 001211 : A0001	Update	Quantity	3.00	2.00	Admin	
	6/17/2019 08:32:59 AM	Order lines	001211 : Forest Wholesales : 001211 : A0001	Update	Unit price	150.00	100.00	Admin	
	6/17/2019 08:32:08 AM	Order lines	001211 : Forest Wholesales : 001211 : A0001	Update	Dimension number: Warehouse	23	24	Admin	
	6/17/2019 08:30:45 AM	Order lines	001211 : Forest Wholesales : 001211 : A0001	Update	Dimension: CostCenter	009		Admin	
	6/17/2019 08:30:32 AM	Sales orders	001211 : Forest Wholesales	Update	Dimension: CostCenter	009		Admin	

- all referenced field values (RefRecId) are converted to clear values descriptions
- even decoding of financial and inventory dimensions is supported





# Tracking deleted data in related tables

- viewing of events about deleting lines of documents: orders lines, journal lines
- viewing of all detailed information about deleted records

ADVANCED LOG   001211 : FOREST WHOLESALERS									
Overview <b>History</b> General									
Collapse Insert and delete fields									
No <input type="checkbox"/>									
✓	Date ↓	Table label	Description	Edit contents	Field label	New	Old	User	User ID
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Line status	Open order		Admin	Admin
✓	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Type	Sales order		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Delivery date control	ATP + Issue margin		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Sales group	01		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Reference table ID	10347		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Dimension number: W...	23		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Dimension number: Site	2		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Dimension number: In...	Available		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Dimension: CostCenter	009		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Dimension: ItemGroup	TV&Video		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Dimension: BusinessUnit	002		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Dimension: Department	023		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Postal address	000001209 : Forest Wholesales : ...		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Reference	22565421562		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Ship date	6/5/2019		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Return cost price	12.00		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Currency	USD		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Customer	US-003		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Group	10		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Mode of delivery	10		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Delivery name	Forest Wholesales		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Delivery terms	FOB		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Lot ID	012991		Admin	Admin
	6/17/2019 11:27:59 AM	Order lines	001211 : Forest Wholesales : 00...	Delete	Item number	A0001		Admin	Admin





# User request processing mechanism

- users will prompt the administrator what is important for them to track
- users can see which events are currently configured and which are not

**Finance and Operations Preview**

Search for a page

Edit + New Delete SALES ORDER SELL MANAGE PICK AND PACK INVOICE RETAIL GENERAL WAREHOUSE TRANSPORTATION OPTIONS

**PERSONALIZE**  
Always open for editing  
Personalize this form

**PAGE OPTIONS**  
Security diagnostics  
Advanced filter or sort

**SHARE**  
Record info  
Change view  
Create a custom alert  
Manage my alerts

**ADVANCED LOG**  
Advanced log

**SALES ORDER DETAILS**  
**001211 : Forest Wholesales**

Sales order header

<b>DELIVERY ADDRESS</b> Name Address	<b>DELIVERY DATE</b> Requested ship date 5/26/2019 Requested receipt date 5/27/2019 Simulate delivery dates	<b>REFERENCES</b> Customer reference Customer requisition 1234	<b>DISCOUNTS</b> Total discount % 0.00	<b>TRANSPORTATION</b> Routes
--	--	---	--	---------------------------------

**Personalize**  
☐ Hide  
☐ Skip in Tab key sequence  
☐ Don't edit

**Database Log**  
☒ Update  
☐ Delete  
☐ Insert  
Create request

**Sales order lines**

CW quantity	CW unit	Quantity	Unit	Delivery type	CW deliver now	Adjusted unit pr...	Site	Warehouse	Unit price	Net amount	Adjusted net a...
		3.00	Pcs	Stock		0.00000	2	23	150.00	450.00	0.00







# Easy to setup and maintain

- User-friendly and powerful interface to set up tracking changes
- Automatic notification of users about all new settings

The screenshot displays the 'Database log setup' interface in Dynamics CRM. The left sidebar shows a navigation tree with 'All sales orders' highlighted. The main area contains a table of database tables and their fields. A blue arrow points to the 'All sales orders' link in the left sidebar. Another blue arrow points to the 'CashDisc' field in the 'Declared title fields' table.

Line number	Parent table	Table name	Table label	Table group	Update	Delete	Insert	Rename key	Parent tables
1	SalesTable	SalesTable	Sales orders	WorksheetHeader	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
2	SalesTable	SalesTableExtensionTH	Sales orders for Thai...	Miscellaneous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
3	SalesTable	SalesTableExternalWorkOrder...	Sales order external ...	WorksheetHeader	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
4	SalesTable	SalesTableSymbol	Sales order symbols	Miscellaneous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
5	SalesTable	SalesTable_BR	Sales order header in...	WorksheetHeader	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
6	SalesTable	SalesTable_Intrastat	Sales order header in...	WorksheetHeader	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
7	SalesTable	SalesTable_RU	Sales order header in...	WorksheetHeader	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
8	SalesTable	SalesTable_W	SalesOrderCountryExt	WorksheetHeader	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
9	SalesTable	TaxServiceTariff	Tax service tariff asso...	Transaction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
10	SalesTable	TMSalesTable	Sales Table Addition...	WorksheetHeader	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
11	SalesTable	MCRSalesTable	Sales orders	WorksheetHeader	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
12	SalesTable	MCRSalesTableShipping	Sales orders	WorksheetHeader	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
13	SalesTable	BaseDocument_IT	Base document	Miscellaneous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
14	SalesTable	InterCompanyPurchSalesRef...	Sales/purchase refer...	Worksheet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
15	SalesTable	MCRReturnSalesTable	Return orders	WorksheetHeader	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
16	SalesTable	RetailSalesTable	Sales orders	Miscellaneous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●
17	SalesTable	SalesLine	Sales order lines	WorksheetLine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	●

Mark	Field name	Field label	Related tables	Declared title fields
<input type="checkbox"/>	AddressRefRecId	Reference		
<input type="checkbox"/>	AddressRefTableId	Reference table ID		
<input type="checkbox"/>	AutoSummaryModuleType	Summary update par...		
<input type="checkbox"/>	BankAccount_LV	Primary company ba...		
<input type="checkbox"/>	BankCentralBankPurposeCode	Central bank purpos...		
<input type="checkbox"/>	BankCentralBankPurposeText	Purpose text		
<input type="checkbox"/>	BankDocumentType	Bank document type		
<input checked="" type="checkbox"/>	CashDisc	Cash discount		
<input type="checkbox"/>	CashDiscBaseDate	Payment terms base ...		
<input type="checkbox"/>	CashDiscBaseDays	Payment terms base ...		
<input type="checkbox"/>	CashDiscPercent	Discount percentage		
<input type="checkbox"/>	CertificateNumber_MX	Certificate number		
<input type="checkbox"/>	CommissionGroup	Commission group		
<input type="checkbox"/>	ConsTarget JP	Target of consolidati...		





# Analytical log size reporting

Advanced log requests										
LOG SIZE										
Filter										
Year 2019 Months 6										
Year	Months	Table name	Field name	Table label	Field label	Edit contents	Number of records	Advanced log requests	Logging ban	Configured
2019	6	DirPartyTable	Name	Global address book	Name	Update	3	✓		✓
2019	6	LogisticsElectronicAddress	Locator	Communication details	Contact number/address	Update	2	✓		✓
2019	6	DirOrganizationBase	PhoneticName	Internal and external organizati...	Phonetic name	Update	2	✓		✓
2019	6	SalesLine	DefaultDimension	Order lines	Dimension	Update	2	✓		✓
2019	6	SalesLine	InventDimId	Order lines	Dimension number	Update	2	✓		✓
2019	6	SalesTable	DefaultDimension	Sales orders	Dimension	Update	2	✓		✓
2019	6	VendTable	DefaultDimension	Vendors	Dimension	Update	2	✓		✓
2019	6	VendTable	PaymSched	Vendors	Payment schedule	Update	1	✓		✓
2019	6	SalesTable	DeliveryPostalAddress	Sales orders	Postal address	Update	1	✓		✓
2019	6	SalesLine	SalesPrice	Order lines	Unit price	Update	1	✓		✓
2019	6	SalesLine	SalesQty	Order lines	Quantity	Update	1	✓		✓
2019	6	DirPartyTable	KnownAs	Global address book	Known as	Update	1	✓		✓
2019	6	DirPartyTable	Languageld	Global address book	Language	Update	1	✓		✓
2019	6	ADBL_FieldsTranslate	FieldLabel	Field translations set up	Field label	Update	1	✓		✓
2019	6	CustTable	CustClassificationId	Customers	Customer classification group	Update	1	✓		✓
2019	6	MCRPCustTable	ETCEvent	Customers	Automatic notification and care	Update	1	✓		✓
Advanced log requests										
Dependent fields										
Dependent Parent tables										
Year	Months	Table name	Table label	Edit contents	Number of r...	Advanced log requests	Dependent fields	Dependent Pare...	Added automati...	Logging ban
2019	6	DocuRef	Document references	Insert	17	✓				✓
2019	6	DocuRef	Document references	Delete	8	✓		✓	✓	✓
2019	6	DocuValue	Document value	Insert	7	✓				✓
2019	6	VendCertification	Set up certifications	Insert	4	✓				✓

- analysis of frequent events in the context of specific fields
- viewing of user requests allows to make informed decisions and optimize settings flexibly
- flexible cleaning of old records





# Key Implementation results

**Up to 50% of end users of the system review the history of changes in documents and directories in their daily work**

- Significant cost reduction for support team
- Fast search for data entry errors and their elimination improves data quality
- Saves database space and improves the performance by log fine-tuning
- Reduces system administrator's spendings for log setting change

