



Microsoft Dynamics 365
and Power Platform Community Conference
MAY 25 – 27, 2026
Portorož, Slovenia, Europe

LOG IT LIKE IT'S HOT

Database Logging Explained



Agenda Slide

- **What is Database logging – A brief Intro**
- **Use cases – When should we use logging**
- **Best Practice - What is Microsoft Saying**
- **Alternatives**



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**Log it
Like its hot**

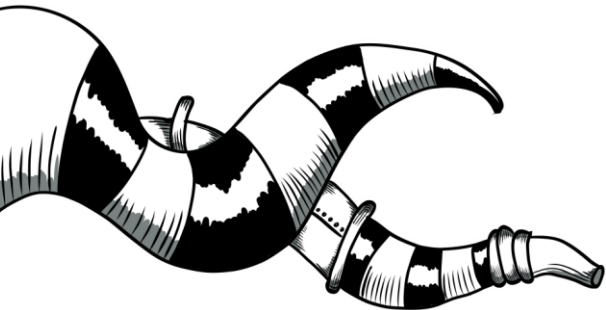
André Arnaud de Calavon

Managing Partner | CTO



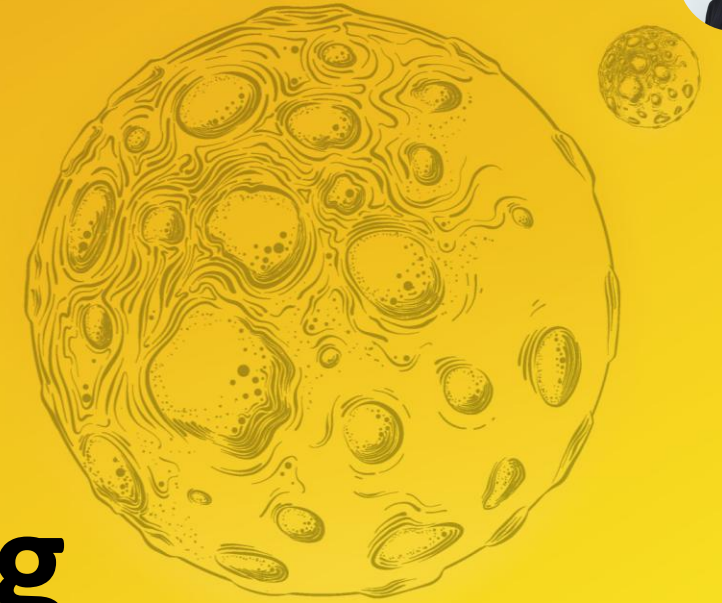
Johan Persson

Technical Specialist, Engage Group





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What is Database Logging





How does it work

- Every Change to a table is written
- Enabled per Table per Field per Operation
- Stored In SysDatabaseLog
- Raw database log page
- View per record



Finance and Operations Preview

Logging database changes

This wizard helps you add and remove tables and fields from the database log.

- Service management
- Subscription
- System **Module**
- AccountingEventSourceDocumentLineLink (Table) : This table is used to store the link between voucher and source document line
- AOSDuplicateKeyExceptionMessage (Table) : AOS Duplicate Key error messages
- AssetProposalConfiguration (Table) : AssetProposalConfiguration
- AssetProposalQueue (Table) : AssetProposalQueue
- AssetProposalRequest (Table) : AssetProposalRequest
- B2BInvitationConfig (Table) : Configuration for B2B Invitation
- BackgroundOperationCancellationRequest (Table) : BackgroundOperationCancellationRequest
- BackgroundOperationClassMetadata (Table) : BackgroundOperationClassMetadata
- BackgroundOperationCriticalSchedulingQueue (Table) : BackgroundOperationCriticalSchedulingQueue
- BackgroundOperationHighSchedulingQueue (Table) : BackgroundOperationHighSchedulingQueue
- BackgroundOperationHistory (Table) : BackgroundOperationHistory
- BackgroundOperationLowSchedulingQueue (Table) : BackgroundOperationLowSchedulingQueue
- BackgroundOperationNormalSchedulingQueue (Table) : BackgroundOperationNormalSchedulingQueue
- BackgroundOperationPeekSchedulingQueue (Table) : BackgroundOperationPeekSchedulingQueue
- Batch (Table) : Batch transactions
- AutomaticTransaction
- BatchJobId
- Caption
- ClassNumber
- Company
- ConstraintType
- createdBy
- createdDateTime
- createdTransactionId
- dataAreaid
- DataPartition
- DEL_BatchJournalLineFeedId
- dEL_CreatedTime
- dEL_ModifiedTime

AOT Name (points to Batch)

Table Name (points to AutomaticTransaction)

Fields (points to createdBy)

Show all tables Show table names

Back Next Cancel

Standard view

Logging database changes

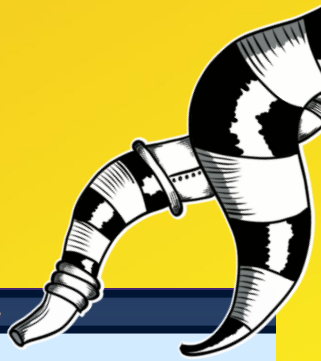
This wizard helps you add and remove tables and fields from the database log.

<input type="radio"/>	<input type="radio"/>	Table name	Field label	Track new ...	Update	Delete	Rename key
<input type="radio"/>	<input checked="" type="radio"/>	Batch transactions		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="radio"/>	Batch transactions	Automatically star...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="radio"/>	Batch transactions	Batch job ID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input type="radio"/>	Batch transactions	Task description	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Architecture

- Same Database -> Multiple Database Load
- Same Database -> Storage
- To keep down storage and help performance, choose fields
- Database Log Statistics
- Set-based transactions are now row-based
- Works with SQL Server change tracking under the hood



Finance and Operations Preview

Last update to log counts was on 05/17/2026 01:00:11.

Standard view

Database Log

Overview History Database log record count

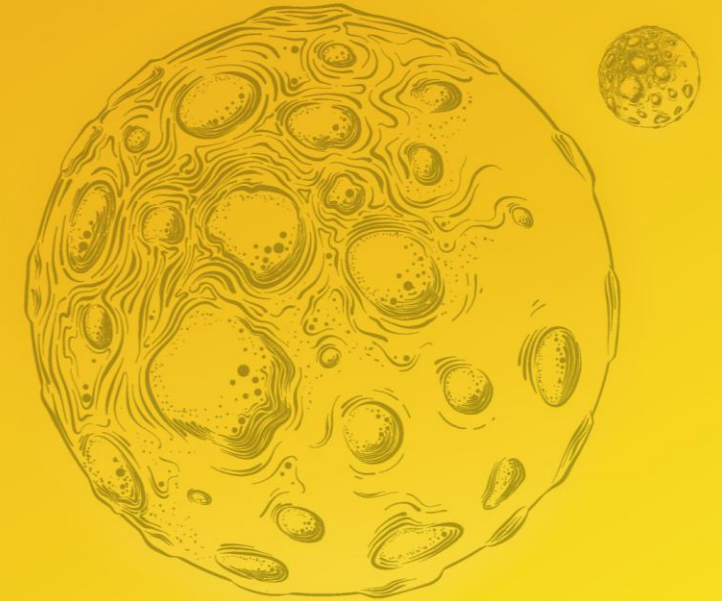
Count ↓	Table name	Table ID	Company accounts ...
38	POS registers	694	dat
33	POS hardware pr...	11811	dat
8	User Information	65531	dat
7	RetailOnlineChan...	8040	dat
4	Customer direct d...	9649	itco
3	POS functionality ...	8030	dat
2	Customers	10347	usr
2	Payment services	1388	dat
2	Payment services	1388	usr
1	Customer direct d...	9649	test



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Use Cases





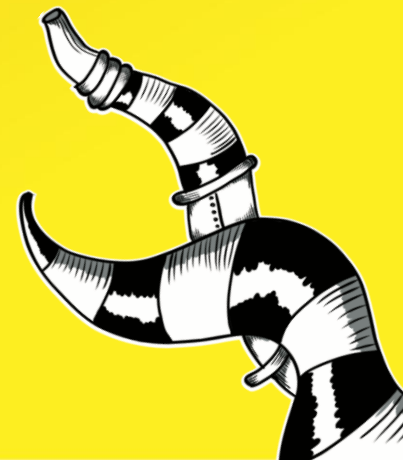
Main Use Cases

Project

- Monitor new configuration in Golden Config
- Monitor work in a Project Env

Steady State

- Compliance and Auditing
- Monitor Configuration Drift
- Adhoc Troubleshooting





Database log





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Best Practice





What does Microsoft say

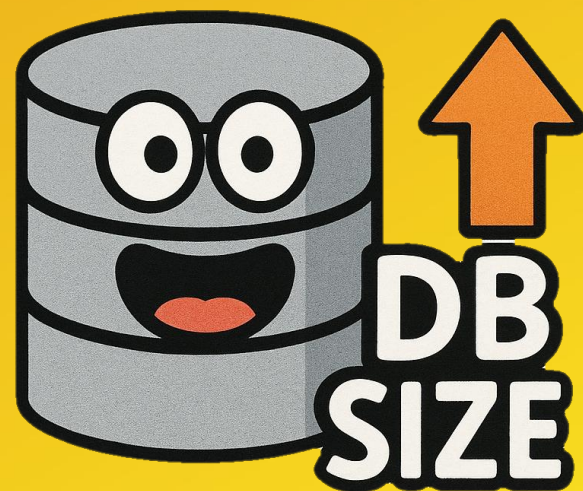
“Although database logging can be valuable from a business perspective, it can use significant resources and add to management complexity”

- [Configure database logging - Finance & Operations | Dynamics 365 | Microsoft Learn](#)





What do we need to think about





Our recommendation

- Avoid transaction tables
- Avoid high changed tables
- Minimize number of fields
- Log shipping
- Clean-up process
- Retention Policy



Client reality

Resource Id	Consumed (MB)	Consumed (GB)	Storage cost \$/month
AXDB.SYSDATABASELOG	1328405,00	1297,27	38918,12
AXDB.BATCHHISTORY	82850,91	80,91	2427,27
AXDB.LEDGERTRIALBALANCESNAPSHOTDATA	40573,52	39,62	1188,68
AXDB.SYSDATABASELOGSTAGING	39592,75	38,66	1159,94
AXDB.CUSTOMLEDGERTRIALBALANCESNAPSHOTDATA	38090,69	37,20	1115,94
AXDB.INVENTTRANS	33888,93	33,09	992,84
AXDB.CUSTOMSALESINVOICEEMAILERRORTABLE	27785,31	27,13	814,02
AXDB.DOCUHISTORY	26384,14	25,77	772,97
AXDB.INVENTDIM	22226,41	21,71	651,16
AXDB.CUSTOMINTEGRATIONLOGTABLE	21095,77	20,60	618,04
AXDB.CREDMANCUSTBALANCESTAT	20903,14	20,41	612,40
AXDB.SECURITYOBJECTHISTORY	20309,97	19,83	595,02
AXDB.CREDITCARDAUTHTRANS	20136,52	19,66	589,94
AXDB.INVENTTRANSORIGIN	16309,58	15,93	477,82
AXDB.INVENTVALUEREPORRTMPLINE	13607,21	13,29	398,65
AXDB.PURCHPURCHASEORDERLINEV2STAGING	12445,05	12,15	364,60
AXDB.INVENTSUM	11086,90	10,83	324,81
AXDB.CUSTOMSALESORDERINVOICELOG	10744,20	10,49	314,77
AXDB.CUSTCUSTOMERV3STAGING	10541,58	10,29	308,84
AXDB.WHSWORKLINE	10221,13	9,98	299,45
AXDB.SALESQUOTATIONHEADERTMP	8712,64	8,51	255,25
AXDB.GENERALJOURNALACCOUNTENTRY	8687,20	8,48	254,51
AXDB.BATCHJOBHISTORY	5349,92	5,22	156,74
AXDB.SYSENCRIPTIONLOG	2508,04	2,45	73,48
AXDB.SMMTRANSLOG	1560,26	1,52	45,71

- DB log 1,3 TB
- Custom log tables
- SmmTransLog



Client example

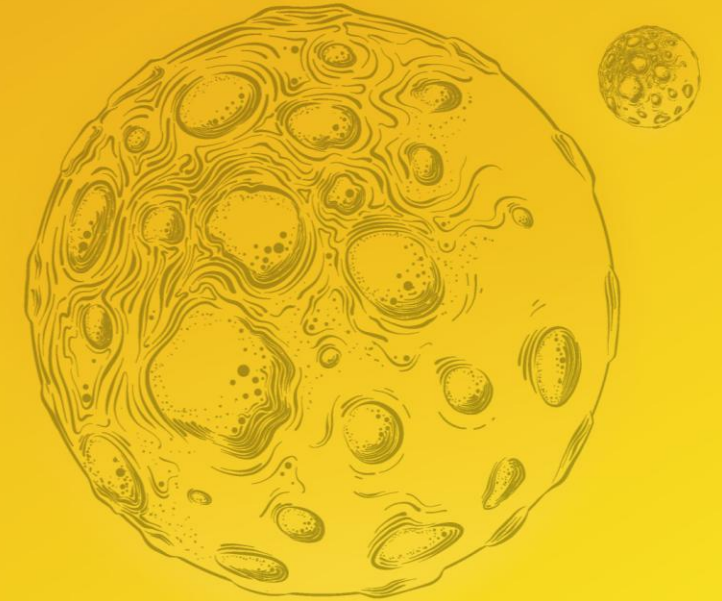
TableID	TableName	Total	< 01-01-2025	>= 01-01-2025	After cleanup	Saved	% total	TableID	TableName	Total	< 01-01-2025	>= 01-01-2025	After cleanup	Saved	% total
9110	AssetDisposalParameters	2.336	1.118	1.218	1.218	1.118	47,86	20725	PurchTable	577.328	316.536	260.792	-	577.328	100,00
16559	AssetLedger	11	8	3	3	8	72,73	21759	PurchTableHistory	37.359	23.397	13.962	-	37.359	100,00
17103	AssetLedgerAccounts	553	343	210	210	343	62,03	168	PurchTableHistory_W	1.606	794	812	-	1.606	100,00
8951	BankAccountTable	675	179	496	496	179	26,52	1360	SalesLine	5.399.914	2.436.947	2.962.967	-	5.399.914	100,00
957	CustLedger	46	46	-	-	46	100,00	1639	SalesOrderHeaderV2Staging	217.323	207.594	9.729	-	217.323	100,00
10162	CustLedgerAccounts	248	17	231	231	17	6,85	18456	SalesOrderLineV2Staging	8.306.480	7.912.387	394.093	-	8.306.480	100,00
4408	CustTable	319.206	318.508	698	698	318.508	99,78	8933	SalesParmTable	232.322	112.118	120.204	-	232.322	100,00
19603	DimensionAttributeValue	664	-	664	664	-	0,00	2939	SalesTable	1.814.664	764.236	1.050.428	-	1.814.664	100,00
6019	DimensionFinancialTag	788	391	397	397	391	49,62	65492	SecurityUserRole	614.077	53.642	560.435	560.451	53.626	8,73
19039	DivTerm	255	143	112	112	143	56,08	7640	SysUserInfo	3.337	1.714	1.623	1.630	1.707	51,15
21416	InventPosting	23.624	5.292	18.332	18.332	5.292	22,40	13528	SysUserLog	72	72	-	-	72	100,00
23028	InventPostingParameters	19	5	14	14	5	26,32	13366	TaxAuthorityAddress	1.087	507	580	580	507	46,64
12118	LedgerStructure	502	502	-	-	502	100,00	2496	TaxData	588.249	43.125	545.124	545.124	43.125	7,33
19606	LedgerSystemAccounts	228	127	101	101	127	55,70	10910	TaxGroupData	163.118	82.062	81.056	81.056	82.062	50,31
14661	MainAccount	1.702	1.440	262	262	1.440	84,61	15083	TaxGroupHeading	165.756	81.970	83.786	83.786	81.970	49,45
11915	MainAccountCategory	1	-	1	1	-	0,00	6717	TaxItemGroupHeading	976	819	157	157	819	83,91
3769	MCRSalesParmLine	1.012.703	333.433	679.270	-	1.012.703	100,00	268	TaxLedgerAccountGroup	47	33	14	14	33	70,21
6944	ProdTable	13.489	-	13.489	-	13.489	100,00	15042	TaxOnItem	207.611	123.901	83.710	83.710	123.901	59,68
6330	ProjPosting	58	52	6	6	52	89,66	24660	TaxTable	327.530	81.918	245.612	245.612	81.918	25,01
14618	ProjTable	1.302	465	837	837	465	35,71	2915	VendBankAccount	8.022	2.729	5.293	5.293	2.729	34,02
6692	PurchLine	1.499.652	905.495	594.157	-	1.499.652	100,00	4545	VendGroup	610	326	284	284	326	53,44
10975	PurchLineHistory	167.297	101.917	65.380	-	167.297	100,00	16012	VendInvoiceInfoTable	595.077	269.421	325.656	-	595.077	100,00
15140	PurchParmLine	123.846	65.355	58.491	-	123.846	100,00	12094	VendLedger	34	22	12	12	22	64,71
23886	PurchParmTable	231.484	117.830	113.654	-	231.484	100,00	14741	VendLedgerAccounts	161	2	159	159	2	1,24
11043	PurchParmUpdate	7.486.413	3.773.851	3.712.562	-	7.486.413	100,00	2452	VendTable	50.758	28.349	22.409	22.409	28.349	55,85
11697	PurchPurchaseOrderHeaderV2Staging	24.129.448	8.165.294	15.964.154	-	24.129.448	100,00	11588	WorkflowTable	1.109	558	551	551	558	50,32
4817	PurchReqLine	552.484	294.875	257.609	-	552.484	100,00	23191	WorkflowVersionTable	8.341	4.347	3.994	3.994	4.347	52,12
20654	PurchReqTable	209.573	111.816	97.757	-	209.573	100,00								
									Total	55.101.575	26.748.028	28.353.547	1.658.404	53.443.171	96,99



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Alternatives





Electronic Signatures

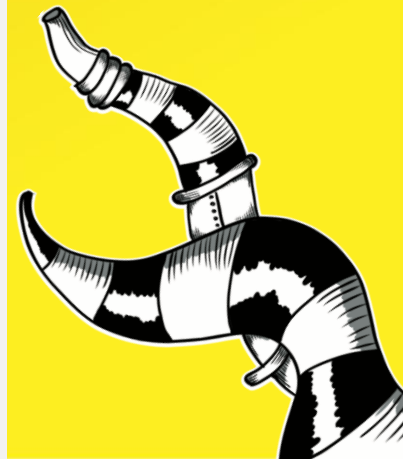
- "Should" be on by default
- Confirm identity when performing database actions
- Database log used

The screenshot displays the SAP Finance and Operations user interface. The main title is "Electronic signature requirements". The configuration is for the "Payment terms" procedure type, which is set to "User defined" and has the "Signature required" toggle turned "Yes".

Signature requirement details:

- Table name: PaymTerm
- Field name: (empty)
- When to require a signature: Always
- When a record is updated: Yes
- When a record is inserted: Yes
- When a record is deleted: Yes

Name	Procedure type
Activate BOM version	Built in
Activate engineering change or...	Built in
Activate engineering change or...	Built in
Activate route version	Built in
Approve bill of materials	Built in
Approve BOM version	Built in
Approve engineering change or...	Built in
Approve engineering change or...	Built in
Approve engineering version B...	Built in
Approve engineering version ro...	Built in
Approve route	Built in
Approve route version	Built in
Approve/Reopen instrument ca...	Built in
Close/Cancel CAPA case	Built in
CreditLimit	User defined
Payment terms	User defined
Post dispensing ticket producti...	Built in





Finance and Operations Search for a page

Save New Delete Translations Options

Filter

Cash
Cash

COD
Cash on delivery

Month+15
Month end + 15 days

Net1
Net 1 day

Net10
Net 10 days

Net15
Net 15 days

Net30
Net 30 days

Net45
Net 45 days

Net14
Net 14 days

Sch_5M
Equal payment schedule over 5 months

Sch_6M
Declining payment schedule over 6 months

Standard view

Terms of payment

Terms of payment	Description
Net14	Net 14 days

Setup

Payment method: Net Days:

Cash payment: No Payment:

Months: Payment:

Other

Standard view

Sign document

SIGNATURE

Reason code:

Comment:

Notice

All employees must provide comments for e-Signature activities

Signer: Admin

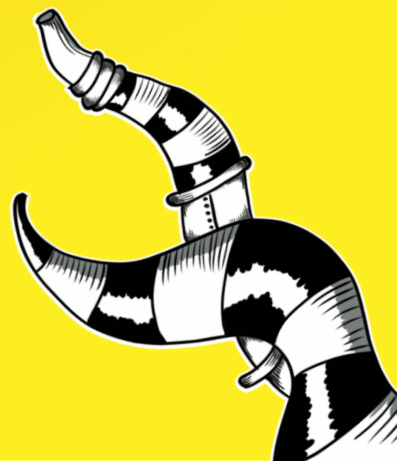
User name: Admin

ADDITIONAL DATA

Location: Computer name: AOS2

DOCUMENT

Table	Record ID
Terms of payment	0





Database Log

[Overview](#) [History](#) Database log record count

Filter

Reference ...	Table name	Company	Record identification	Log Reclد	Type of change	Created date and time	Created by	Creator na...	Signed	Signer
11196	User information	dat	\$COBA,	68719511513	Insert	5/17/2026 9:03:15 PM	Admin	Admin		
65531	User Information	dat	APRIL,APRIL	5637155081	Update	5/17/2026 9:08:55 PM	Admin	Admin		
65531	User Information	dat	ARNIE,ARNIE	5637155082	Update	5/17/2026 9:11:42 PM	Admin	Admin		
65531	User Information	dat	ARNIE,ARNIE	5637155082	Update	5/17/2026 9:11:42 PM	Admin	Admin	✓	Admin
65531	User Information	dat	CHARLIE,CHARLIE	5637155086	Update	5/15/2026 1:51:14 PM	Admin	Admin		
65531	User Information	dat	CHRIS,CHRIS	5637155087	Update	5/15/2026 1:51:14 PM	Admin	Admin		
65531	User Information	dat	CHRISTIP,CHRISTINA	5637792591	Update	5/15/2026 1:51:17 PM	Admin	Admin		
65531	User Information	dat	cdsdevuser1,User1@devtesttie.ccsctp.net	68720743239	Update	5/15/2026 1:51:19 PM	Admin	Admin		
65531	User Information	dat	cdsdevuser2,User2@devtesttie.ccsctp.net	68720743240	Update	5/15/2026 1:51:12 PM	Admin	Admin		
65531	User Information	dat	cdscapuser,Testuser@capintegration01.onmicrosoft.com	68720743241	Update	5/15/2026 1:51:24 PM	Admin	Admin		
65531	User Information	dat	cdsauroruser,Auroruser01@capintegration01.onmicrosoft.com	68720743242	Update	5/15/2026 1:51:09 PM	Admin	Admin		
65531	User Information	dat	cdscapuser2,Testuser2@capintegration01.onmicrosoft.com	68720743243	Update	5/15/2026 1:51:10 PM	Admin	Admin		





Electronic signature





Sales and Marketing – Transaction Log

- Better UI
- Easier to manage
- Limited to selected Sales and marketing tables

Finance and Operations Preview

Search for a page

USMF

Standard view

Sales and marketing parameters

General

Prospects

Documents

Campaigns

Activities

Transaction log

Number sequences

Set up transaction tracking

TRACK CHANGES FOR

Customers No

Customer transactions No

Vendors No

Vendor transactions No

Contacts No

Activities No

Document references No

Sales orders No

Quotations No

Mailings No

Prospects Yes

Call lists No

Campaigns No

Opportunities No

Leads No

Cases No

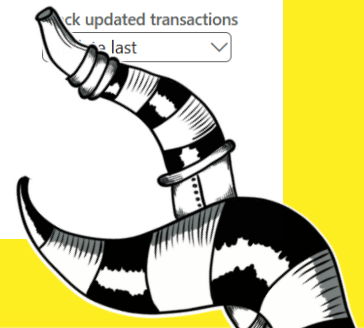
OPTIONS

Days to keep log

Track new transactions Yes

Track deleted transactions Yes

Track updated transactions



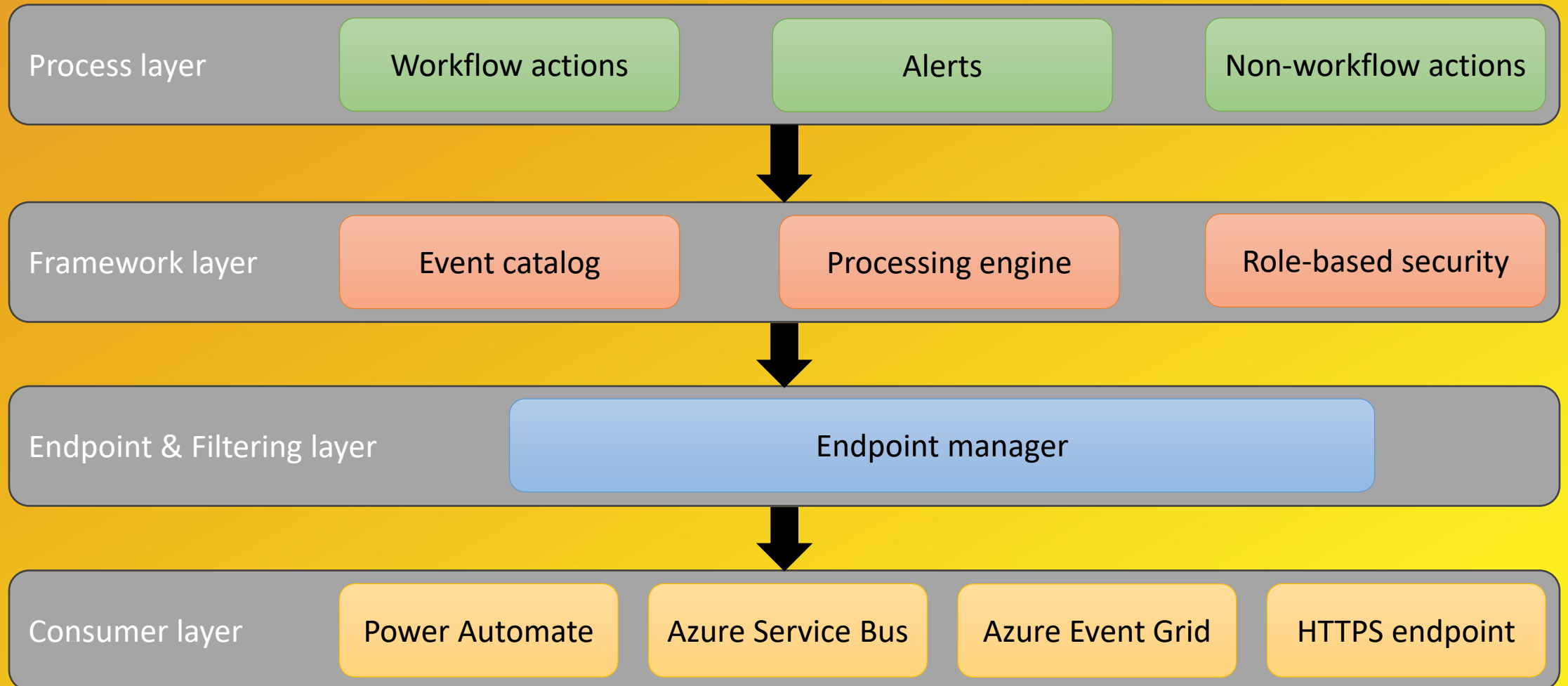


Alerts

- Warning: disabled alerts > EventCUD can grow.
- Read alerts in inbox need to be cleaned up
- Use “Send externally” to link to business events



Business events





Data events

- Data driven
- Asynchronous
- Depends on Power Platform integration
- Data entities enabled for Odata
- Limitations
 - Data entities built upon a view
 - Updates to virtual fields are not supported
 - No sequential order guaranteed



Business and data events configuration





3rd party solutions

Commercial ISV solutions

- Fastpath Assure by Delinia
- Discovery by XPlus
- ConfigCompare by AXImprove

Community

- D365 FO Config Compare by Prashant Verma



Shipping logs

- Reasons
 - Remove Access to Logs
 - Cleanup database
- Tools
 - Synapse
 - Fabric
 - Sentinel
 - BYOD



Summarized logs

- Prerequisite: ship logs
 - Adding a timestamp
- Scheduled task
 - Power Automate
 - Cowork
 - ...



Summarized logs



Quick Decision Tree



Should You Enable Database Logging on This Table?

Is it master data?

Low-volume, high-value changes

Is it transactional?

High-volume, routine operations

Is it security-sensitive?

Yes - Log with maintenance plan

No - Use Data Events or BI instead

Yes - Log + Azure Sentinel

Rule of thumb: if a table generates more than 10,000 records/day, database logging is likely the wrong tool.

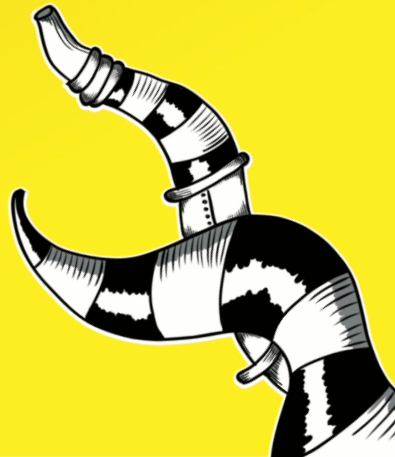


Key Takeaways

- Log master data, not transactions — volume is the enemy
- Data Events and Synapse Link handle what database logging cannot
- Every logging configuration needs a maintenance plan from day one
- AI agents can guide both initial setup and ongoing monitoring
- Azure Sentinel covers security compliance without logging overhead

You have permission to say no to database logging.

Questions





THANK YOU!