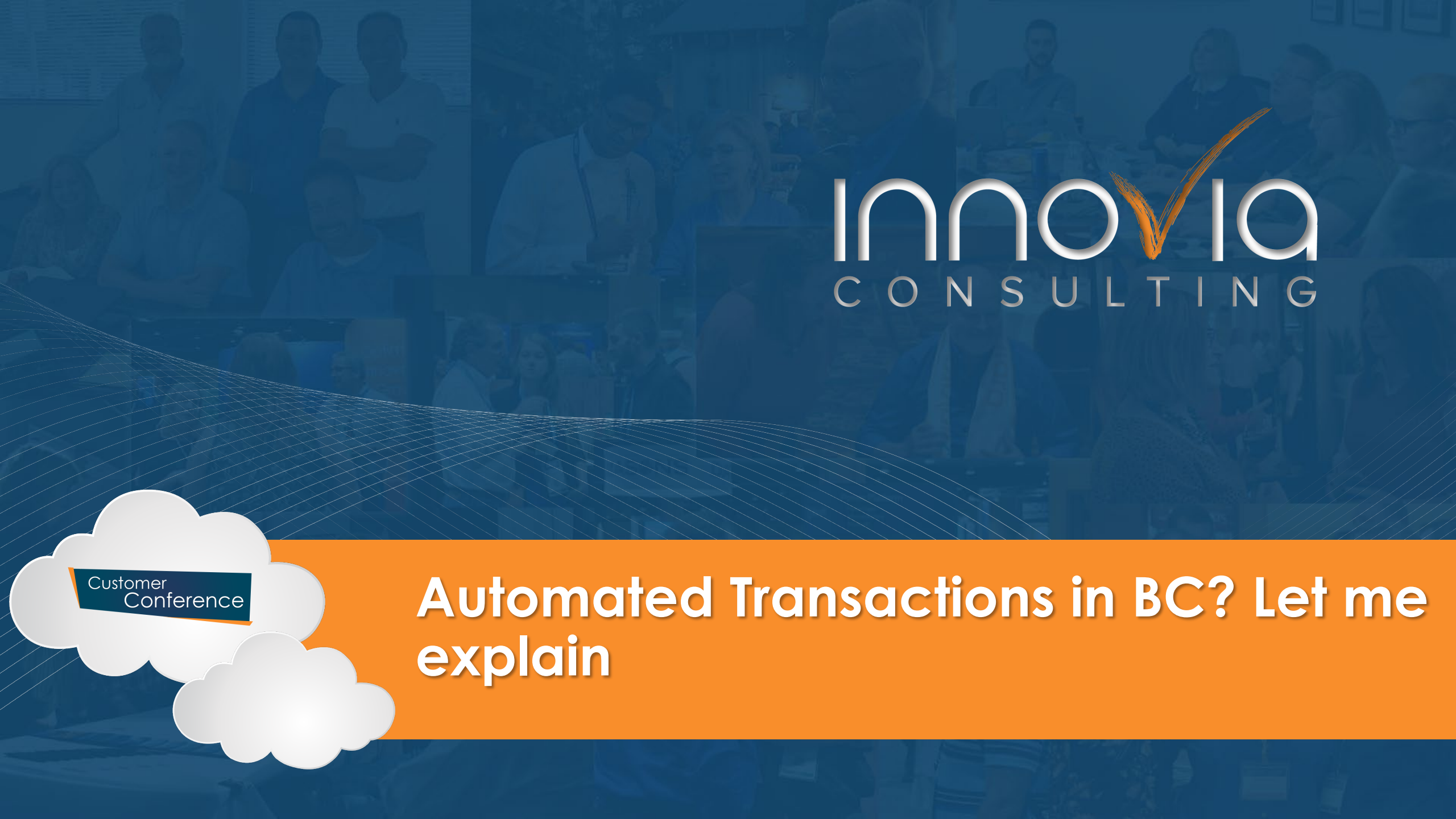

Automated Transactions in BC? Let me explain

Today's Presenter

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What we're looking at today

- Automated postings in BC
  - The Problem
  - Design
  - Solution
  - Code Snippets
  - Other Possibilities

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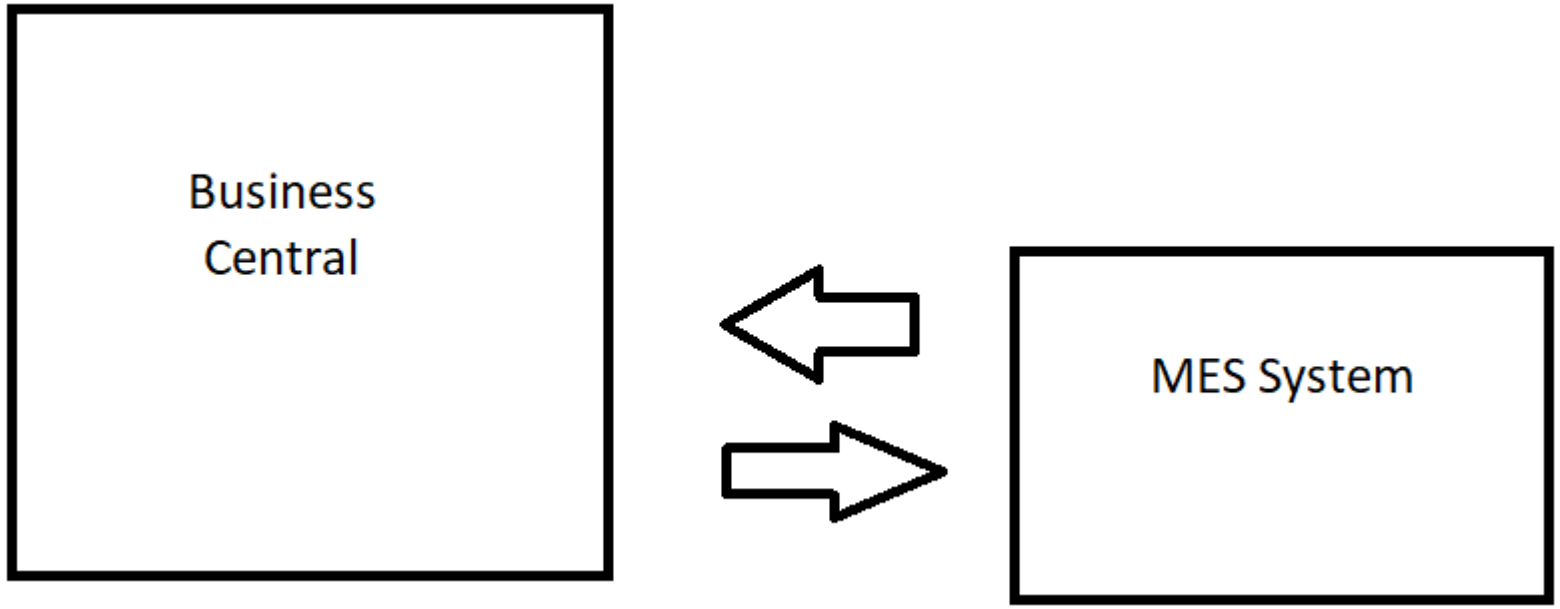
The Problem

- ✓ Making two systems talk to each other
- ✓ Purchase, Sales, Production, Inventory…



The Design

- ✓ How to recreate manual efforts
- ✓ Resetting values
- ✓ “How would Business Central do it?”
- ✓ Item Tracking?
- ✓ Errors?

The Solution

- ✓ Staging Table Style integration
- ✓ 17 working transaction types
  - ✓ Sales
  - ✓ Purchase
  - ✓ Production
  - ✓ Transfers
  - ✓ Inventory
- ✓ Custom Business Rules

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The Solution

- ✓ Modules
- ✓ Commits
- ✓ Interactive Page for watching transactions

```
trigger OnRun()
begin
    Code();
end;

1 reference
local procedure Code()
var
    Transaction: Interface INVCMESTransactionable;
    Type: Integer;
    TransactionsTypes: List of [Integer];
    i: Integer;
begin

    for i := 1 to 2 do begin

        SetFailedErrorToNew();

        TransactionsTypes := Enum::"INVC MES Transaction Type".Ordinals();

        foreach Type in TransactionsTypes do begin
            Transaction := Enum::"INVC MES Transaction Type".FromInteger(Type);
            Transaction.DoAction();
        end;

    end;
end;
```

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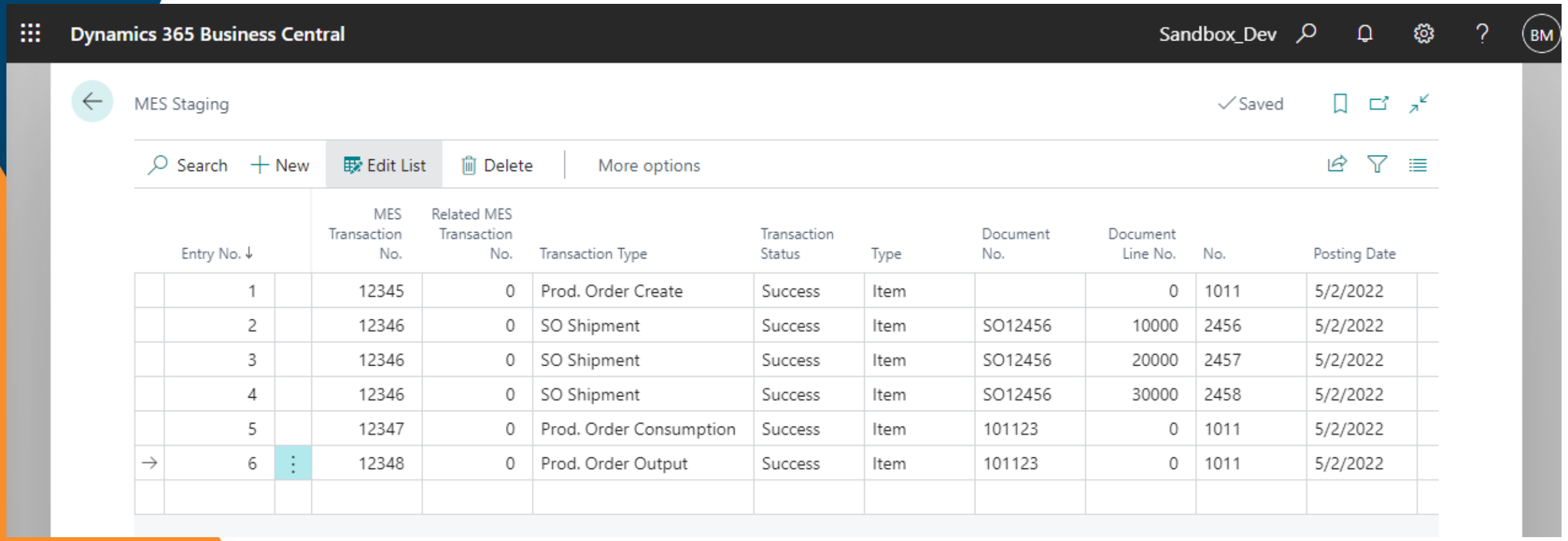
Real Use

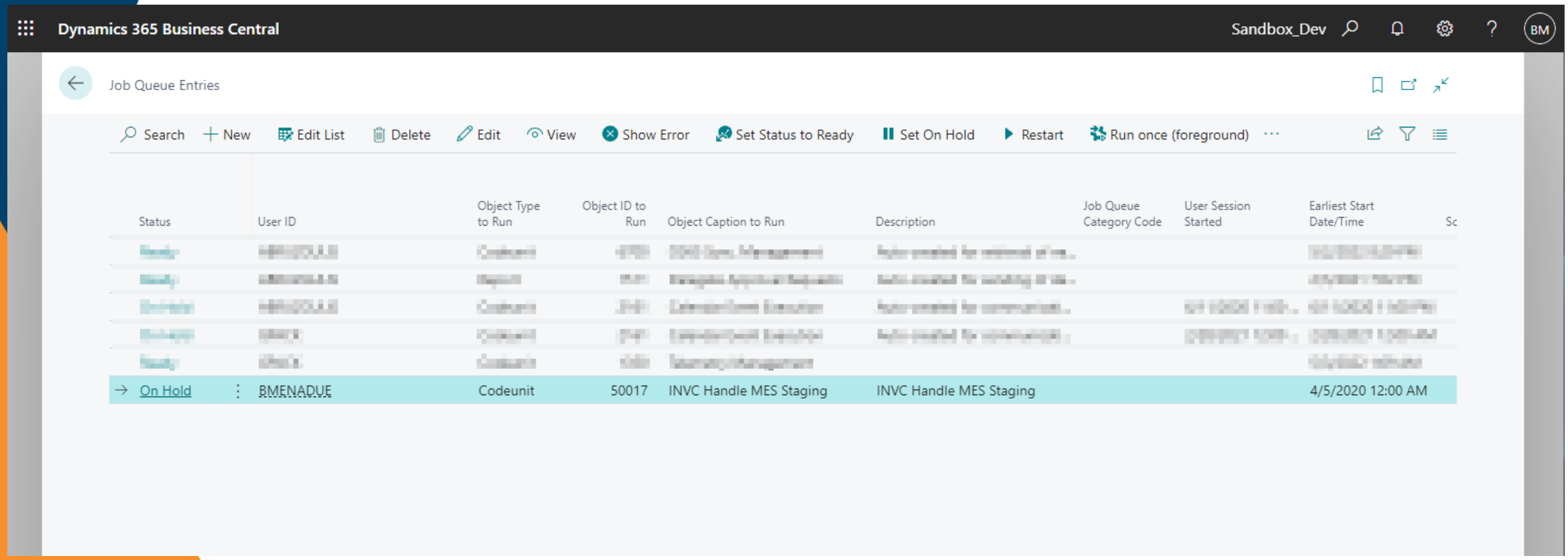
- ✓ Thousands of “Transactions” / Day
- ✓ Minimal User impact
- ✓ Automated by Job
- ✓ Manual Control

Real Use



Entry No.	MES Transaction No.	Related MES Transaction No.	Transaction Type	Transaction Status	Type	Document No.	Document Line No.	No.	Posting Date
1	12345	0	Prod. Order Create	Success	Item		0	1011	5/2/2022
2	12346	0	SO Shipment	Success	Item	SO12456	10000	2456	5/2/2022
3	12346	0	SO Shipment	Success	Item	SO12456	20000	2457	5/2/2022
4	12346	0	SO Shipment	Success	Item	SO12456	30000	2458	5/2/2022
5	12347	0	Prod. Order Consumption	Success	Item	101123	0	1011	5/2/2022
6	12348	0	Prod. Order Output	Success	Item	101123	0	1011	5/2/2022

Real Use



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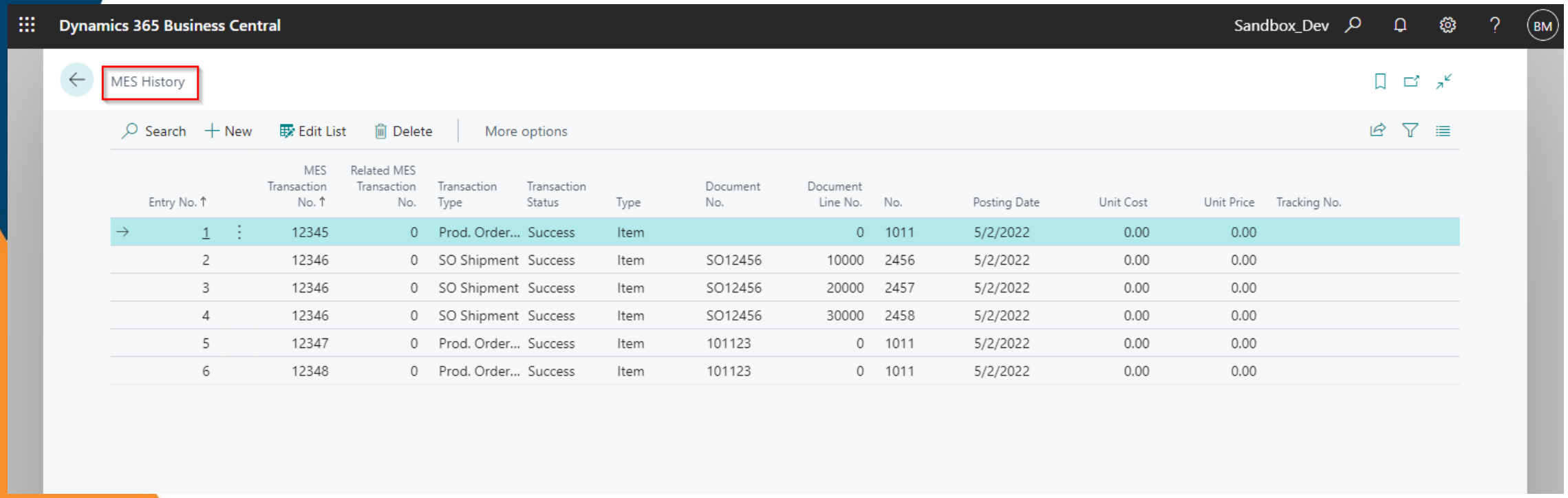
Real Use



Entry No.	MES Transaction No.	Related MES Transaction No.	Transaction Type	Transaction Status	Type	Document No.	Document Line No.	No.	Posting Date	Unit Cost	Unit Price	Tracking No.
1	12345	0	Prod. Order...	Success	Item		0	1011	5/2/2022	0.00	0.00	
2	12346	0	SO Shipment	Success	Item	SO12456	10000	2456	5/2/2022	0.00	0.00	
3	12346	0	SO Shipment	Success	Item	SO12456	20000	2457	5/2/2022	0.00	0.00	
4	12346	0	SO Shipment	Success	Item	SO12456	30000	2458	5/2/2022	0.00	0.00	
5	12347	0	Prod. Order...	Success	Item	101123	0	1011	5/2/2022	0.00	0.00	
6	12348	0	Prod. Order...	Success	Item	101123	0	1011	5/2/2022	0.00	0.00	

Enhancements

- ✓ Work Bench Style
- ✓ Setups to Control Business Rules
- ✓ Don’t need all 17? No problem
- ✓ Metrics

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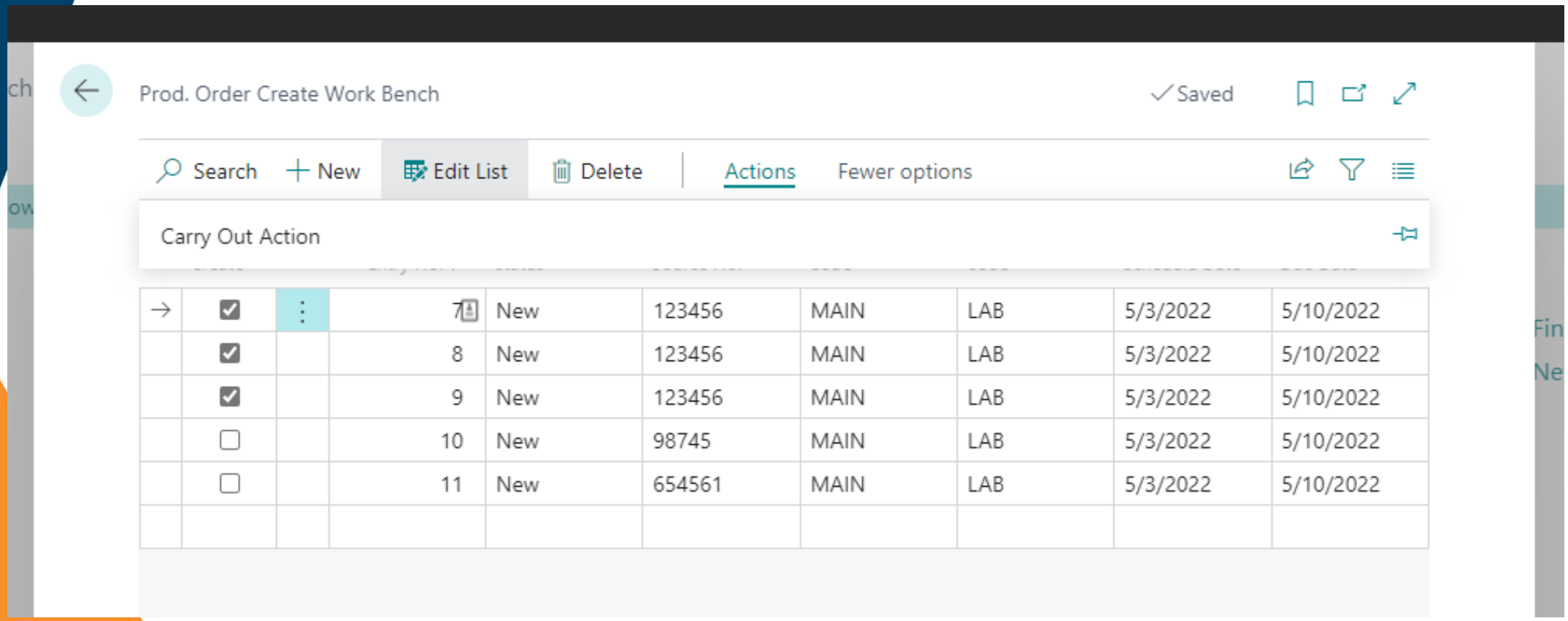
Enhancements



→	☑	⋮	7	New	123456	MAIN	LAB	5/3/2022	5/10/2022
	☑		8	New	123456	MAIN	LAB	5/3/2022	5/10/2022
	☑		9	New	123456	MAIN	LAB	5/3/2022	5/10/2022
	☐		10	New	98745	MAIN	LAB	5/3/2022	5/10/2022
	☐		11	New	654561	MAIN	LAB	5/3/2022	5/10/2022

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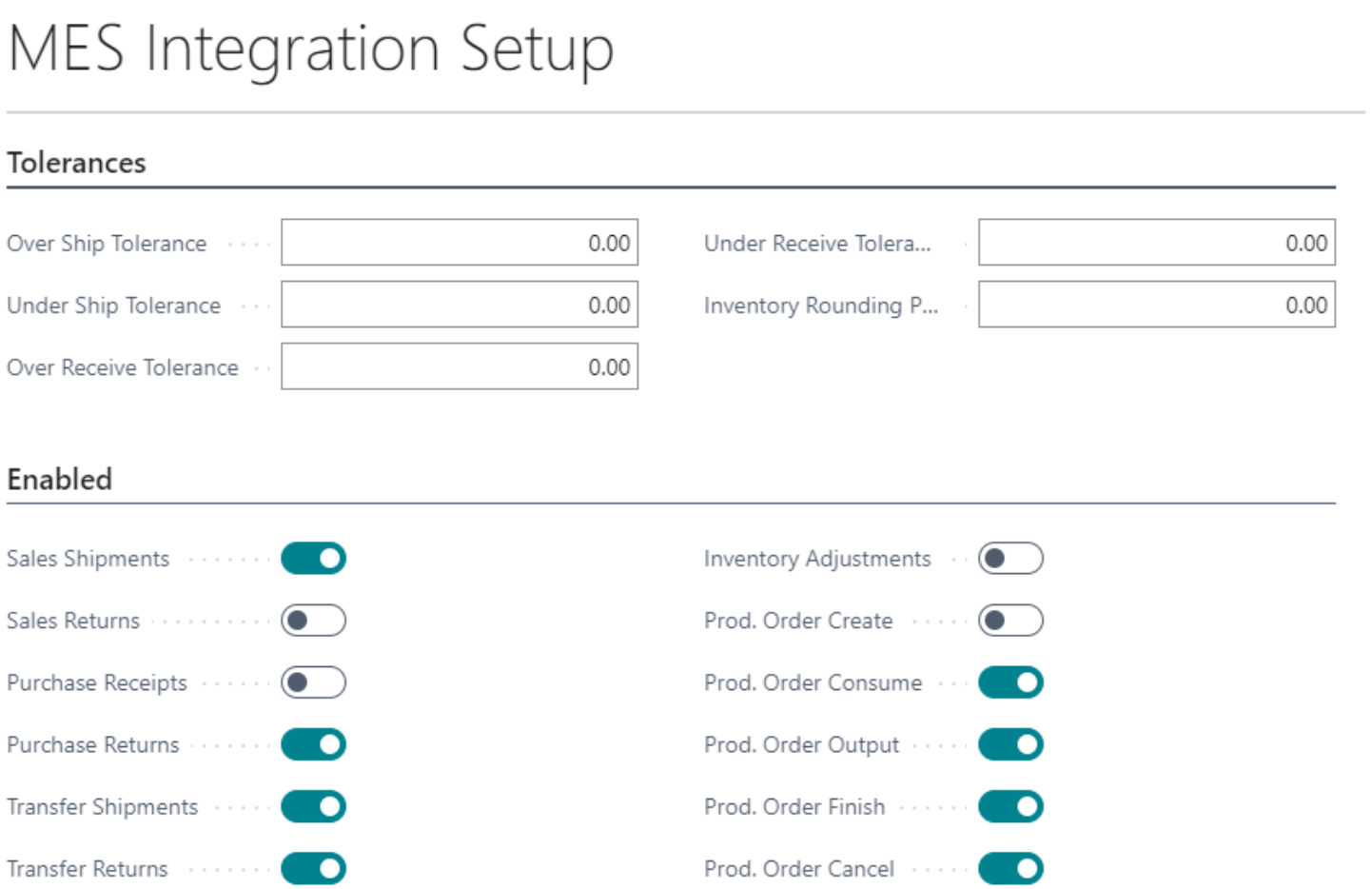
Enhancements



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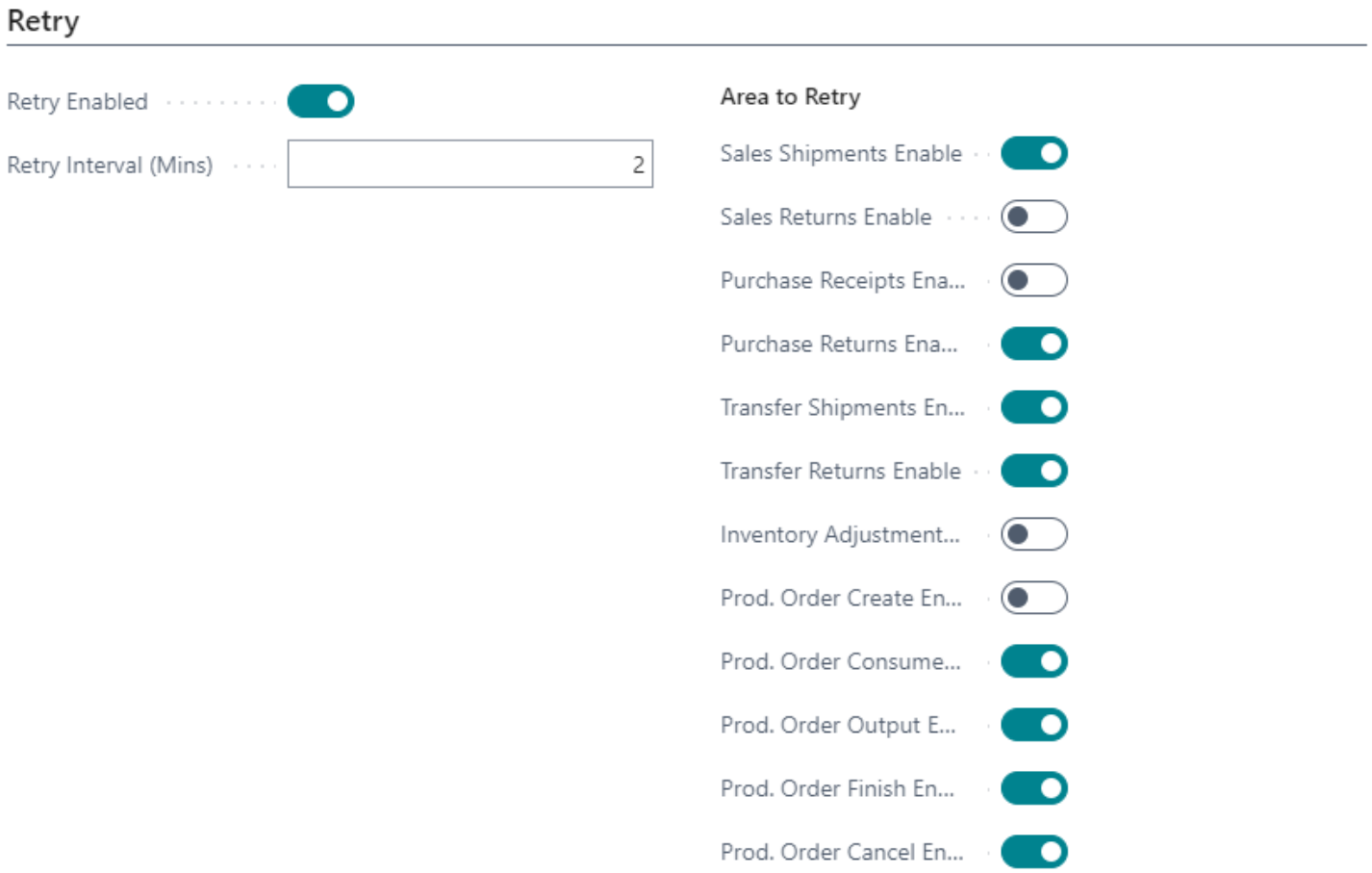
Enhancements



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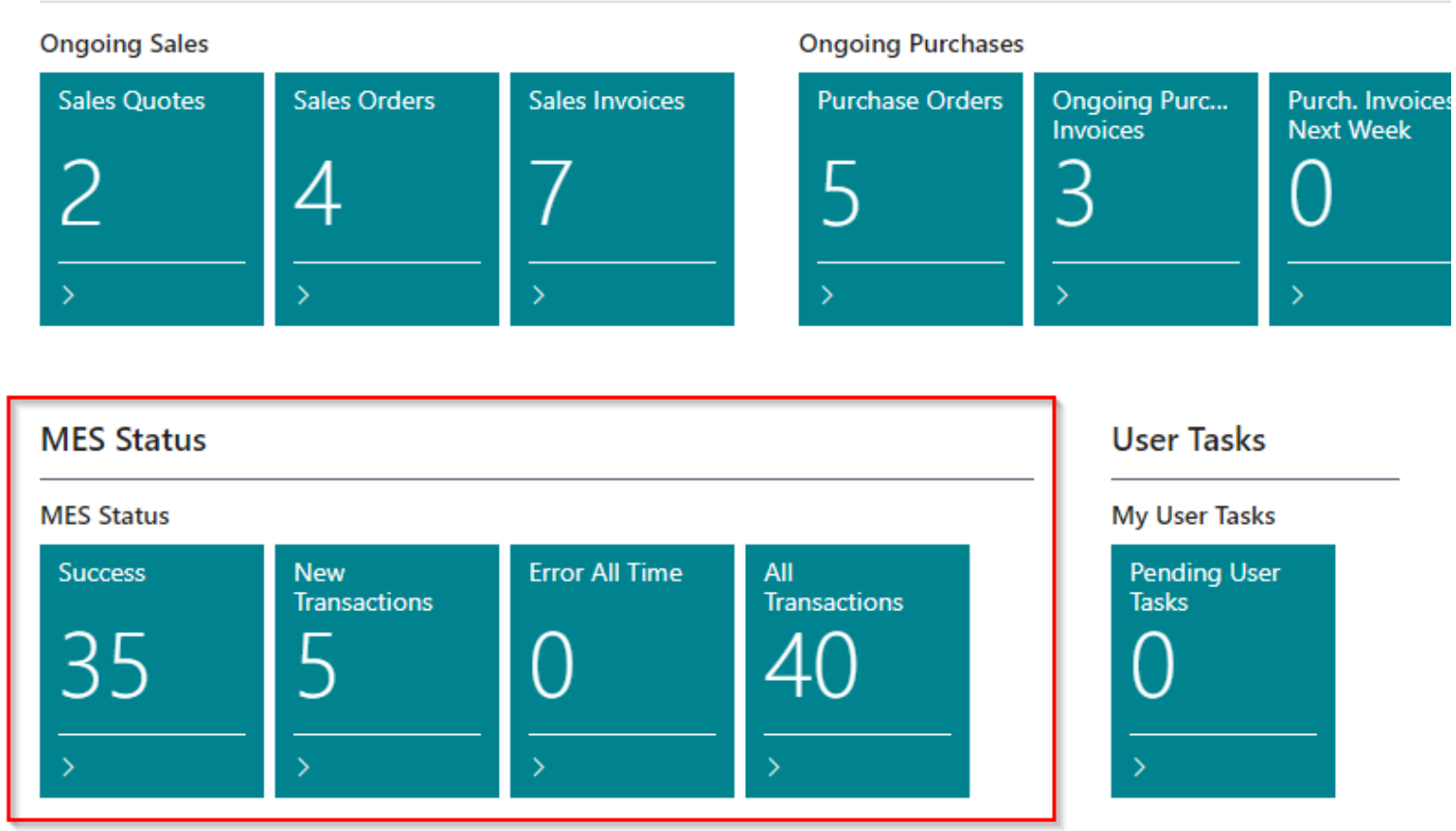
Enhancements



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