SBN 2025

SAP USER CONFERENCE

Oslo | October 22 & 23

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Equinor NextGen

Master Data Management

Oct 2025

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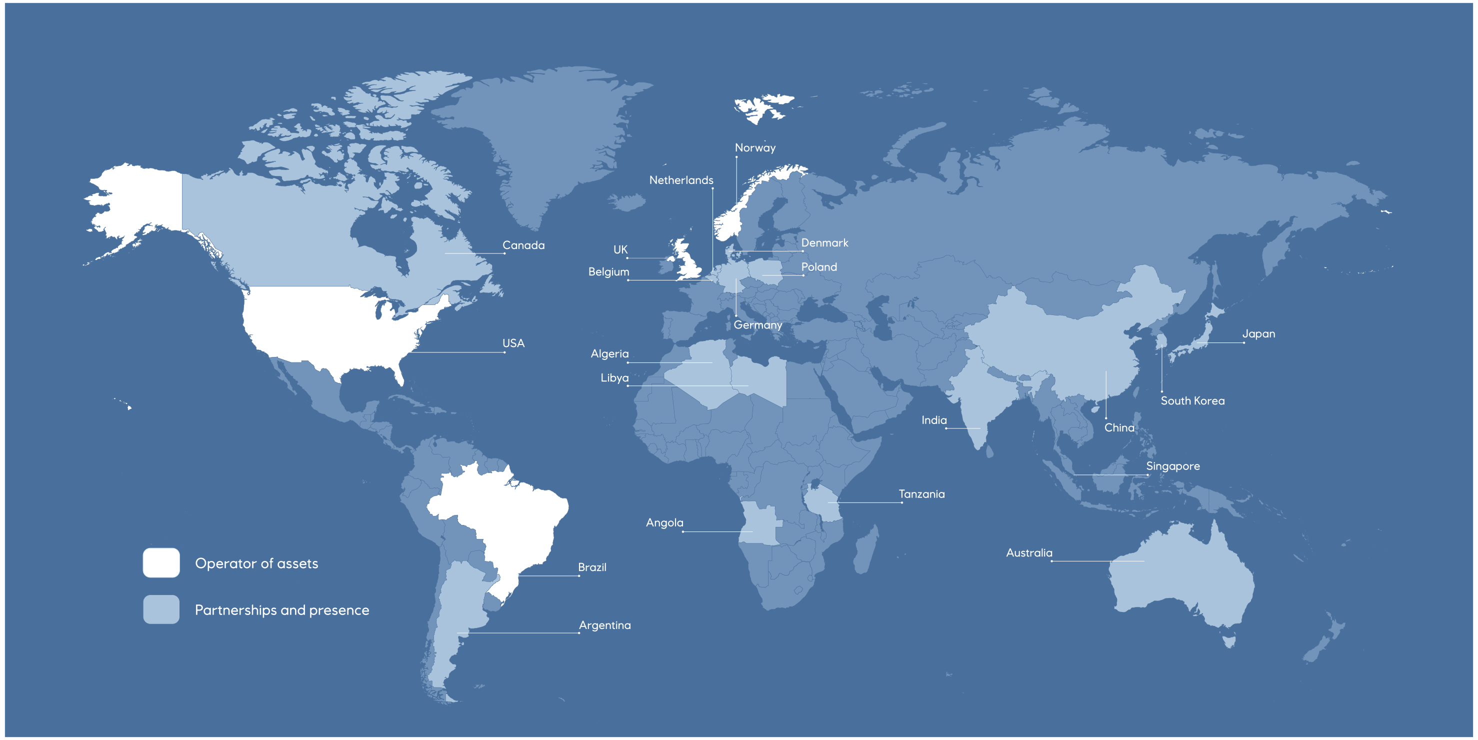
Equinor is an international energy company.

We are headquartered in Stavanger, Norway.
A major supplier of energy to Europe, and our portfolio encompasses oil and gas, renewables, and low-carbon solutions. Equinor is a world-leading offshore operator, and an international pioneer in renewables and low-carbon solutions.

25,000 Employees around the world (2024)	20+ countries Where we have offices
9,000 Suppliers working with us	2,067 mboe/day Equity oil and gas production (2024)
2.93 TWh Renewable power generation, Equinor share in 2024	103,800 USD million Total revenues and other income (2024)



https://www.equinor.com/about-us/equinor-in-brief

NexUs ERP I What is changing in Master Data Management?

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We aim to define Master Data Management (MDM) processes and policies for master data utilising the SAP MDG solution. We also oversee and drive MDM architecture, data models , tools and technology for the SAP MDG solution.

*This includes combination of **organizational, process**, **technology** and **data** components to work together to ensure a safe and consistent approach for managing master data in a standardized way across Equinor.*

Master Data Management Summary

- a new SAP tool for governing specific master data types including introduction of the new concept of business partner
- SAP MDG (Master Data Governance) ensures centralized governance, data quality, and compliance for master data
- Migration of cleansed data to the new system to improve process efficiency and reporting

MASTER DATA MANAGEMENT (MDM-SAP MDG)

Creating & maintaining a single source of truth for master data

- Financial
- Business Partner
- Material

S/4 Master Data Governance - MDG

Key Changes per Area	
Financial MD General Ledger and CoA Profit Center Cost Center	❑ Introducing SAP MDG for governing of specific financial master data objects fulfilling compliance requirements
Business Partner MD	❑ Introducing SAP MDG for governing Business Partner Master Data ❑ Introducing new concept for Business Partner Master Data, covering customers and vendors. This will create a single point of entry and thereby reduce process time
Material MD FERT DIEN IT-equipment (ERSA) SERV (Lean Service)	❑ Introducing SAP MDG for governing Material Master Data ❑ Introducing a new way of treating services like material through the new MDG-M tool

Master Data Management Scope

NextGen ERP R1 Januray 2025

NexUS R2 January 2026

NexUs R3 January 2027

Future release

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Financial

Financial and controlling

- Chart of accounts
- General ledger accounts
- Cost centre
- Profit centre

Hierarchies

- Cost centre
- Profit centre

Material

Material type

- FERT – Finished goods
- DIEN - Services
- ERSA – Spare parts
- HIBE - Op Supplies/ Consumables (TBD)
- IBAU – Maintenance Assembly
- POOL – Pool material
- YTCP – Tool Crib
- VERP - Packaging
- ZREP – REPETRO spare parts
- SERV – Lean services

Business Partner (Customer and Vendor)

Business Partner account group

- External BP (Procurement vendor, Sold-to-party customer)
- Internal Joint Venture Operator
- External Joint Venture Operator
- Intercompany
- Treasury
- Employee as BP
- Housing
- Plant
- PRA – Royalty Customer
- QLS – Quorum Lease Holder

Asset

Asset type

- Equipment Master
- Functional Locations
- MRO Bill of Materials
- Linear Assets
- Tasks Lists
- Maintenance plans
- Measuring points
- Maintenance item
- Indicators
- Work centres

Overview of Master Data Objects Implemented in S/4

Master Data Management

196K+
Business Partner Master Data Objects in SAP S4/HANA

***23.5K+**
Financial Master Data Objects

1.775
Material Master Data Objects

***1.000+**
MDG-Business requesters

* Numbers in 2022 implemented on S4

Business Partner (BP) Request Process for Post Implementation of SAP S4/HANA

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New SAP / S4

- MDG-BP — Create new BP/Vendor/Customer
- MDG-BP — Maintain BP general data (name, address, tax, bank, identification)
- MDG-BP — Maintain Vendor/Customer data
- MDG-BP — Maintain / Extend to Purchasing org / Sales org
- MDG-BP — Maintain / Extend to Company Codes

Old SAP / ECC

VENDOR

- MDG-S — Create BP/Vendor/Customer
  Maintain Company Codes (non-scope)

CUSTOMER

- XD01 — Maintain / Extend Sales Orgs (non-scope)
  Maintain Company Codes (non-scope)

Current implementation (UK) of account groups:

- Procurement Vendors and Sold-To-Party Customers
- Intercompany
- JV Internal

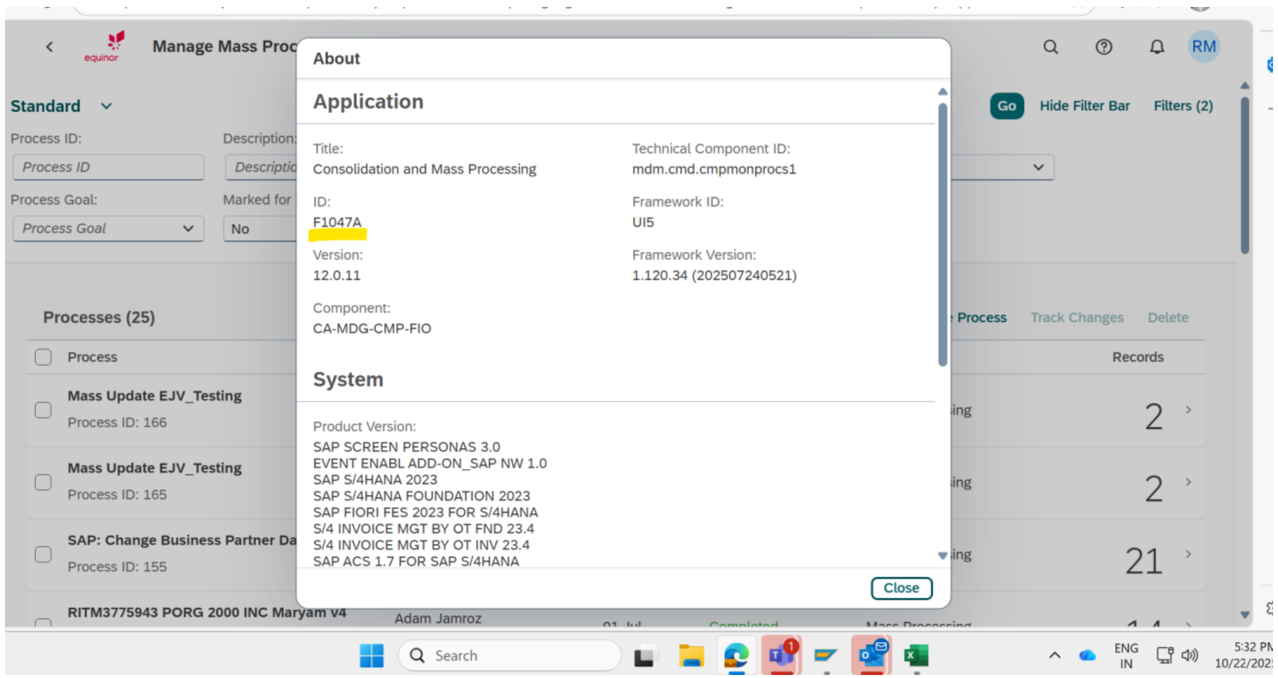
Master Data - Mass Processing in MDG

- Mass-tool Request (with approver-step)
- Mass-tool Direct (without approver-step)
- Automate Studio (Winshuttle)
- XK99, XD99, MASS
- LSMW

- Due to compliance it is preferred to create/maintain Master Data with approver-step

Benefits of Mass-tool (F1047A)

- Easy to use and based on an intuitive Excel template.
- Both requestor and approver can see how many records are to be updated.
- Built-in validation ensures that users and approvers receive messages whenever data does not comply with the validation rules.
- Ensures compliance.
- The workflow-driven approvals improves governance and control.
- Ensures auditability. All changes are logged.
- Faster response time to business needs.
- Reduced manual effort and reduced risk of human error.
- Change General data, Vendor-, Customer-data, Extensions

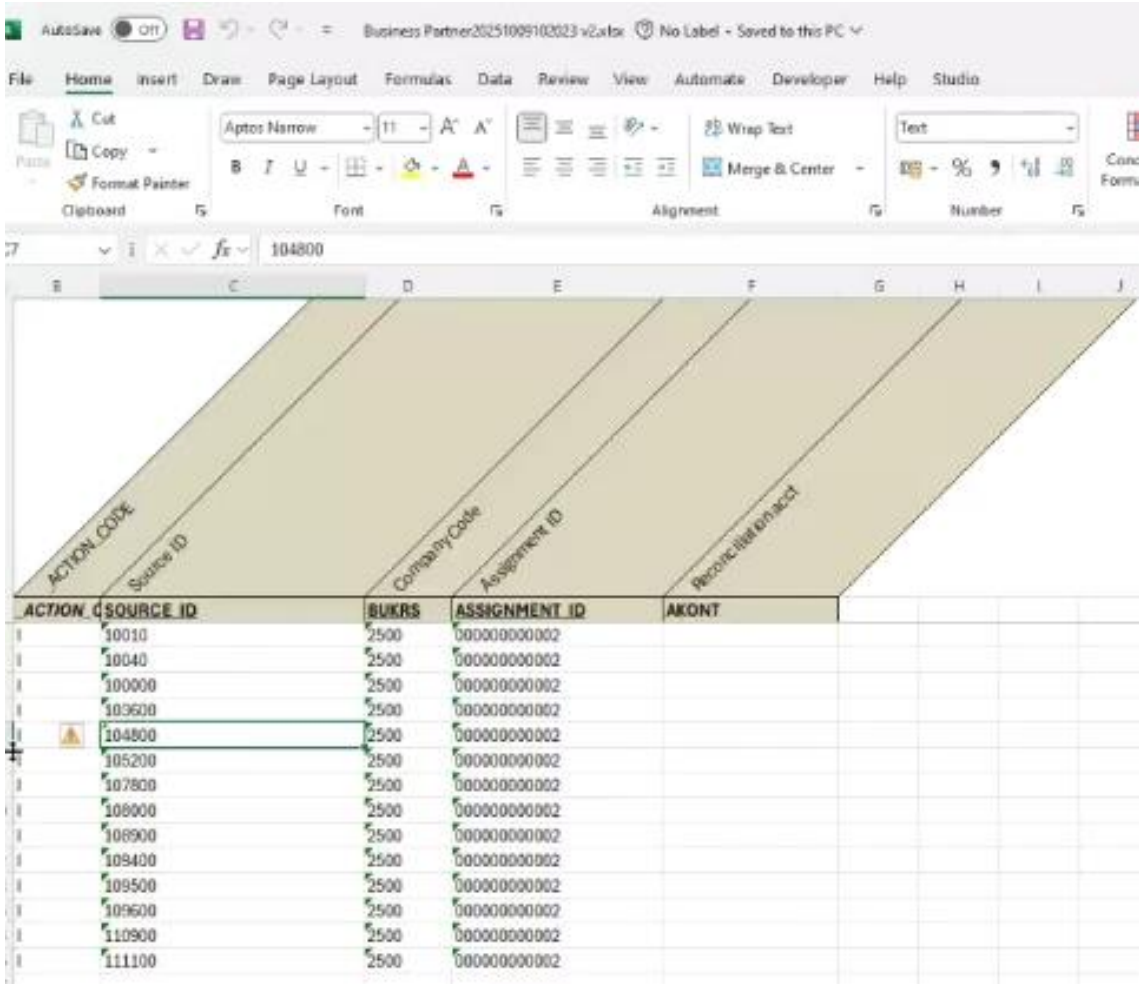


Prerequisites for Mass Processing

- Quality of Master data
- No open CR's in MDG
- Limit the number of records to change
- Authorization to select and download data
- Skilled person to analyse relevant data
- Requestor (technical person) with authorization to mass-tool
- Approver with authorization to mass-tool
- Tons of patience
- A good eye

Challenges with **«Mass Processing With Request»** (1:3)

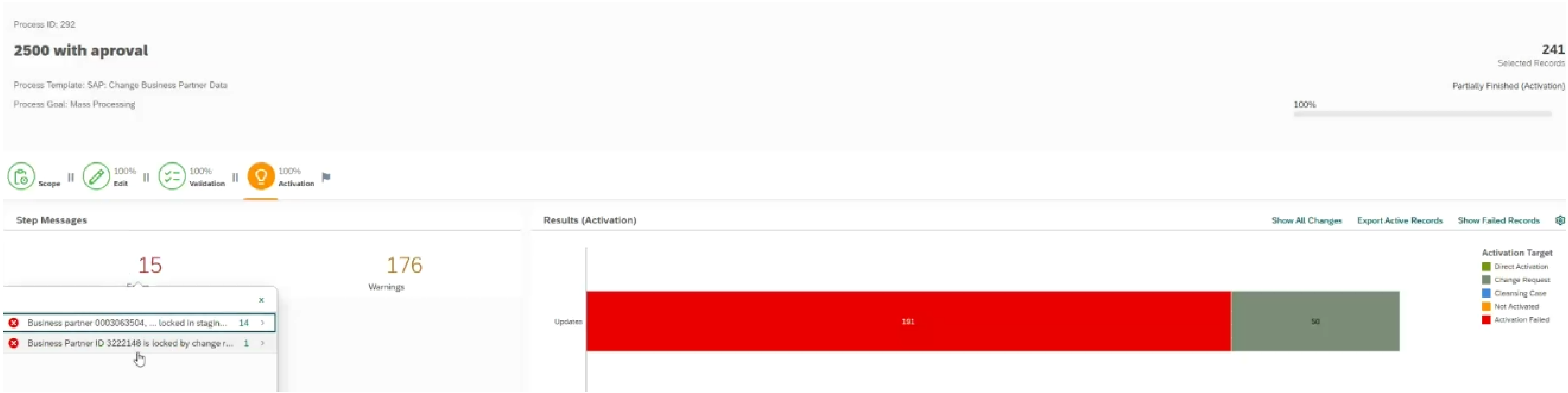
1. Limited to app. 100 records
2. When prepare and upload excel file to mass-tool
   - Excel file – leading zeroes are required on Vendor/Customer-number
   - One file for Customer
   - One file for Vendor



Challenges with **«Mass Processing With Request»** (2:3)

3. No possibilty to download complete error-log

4. Check if any have change requests (staging area)
   - Recommend to finalize current change requests

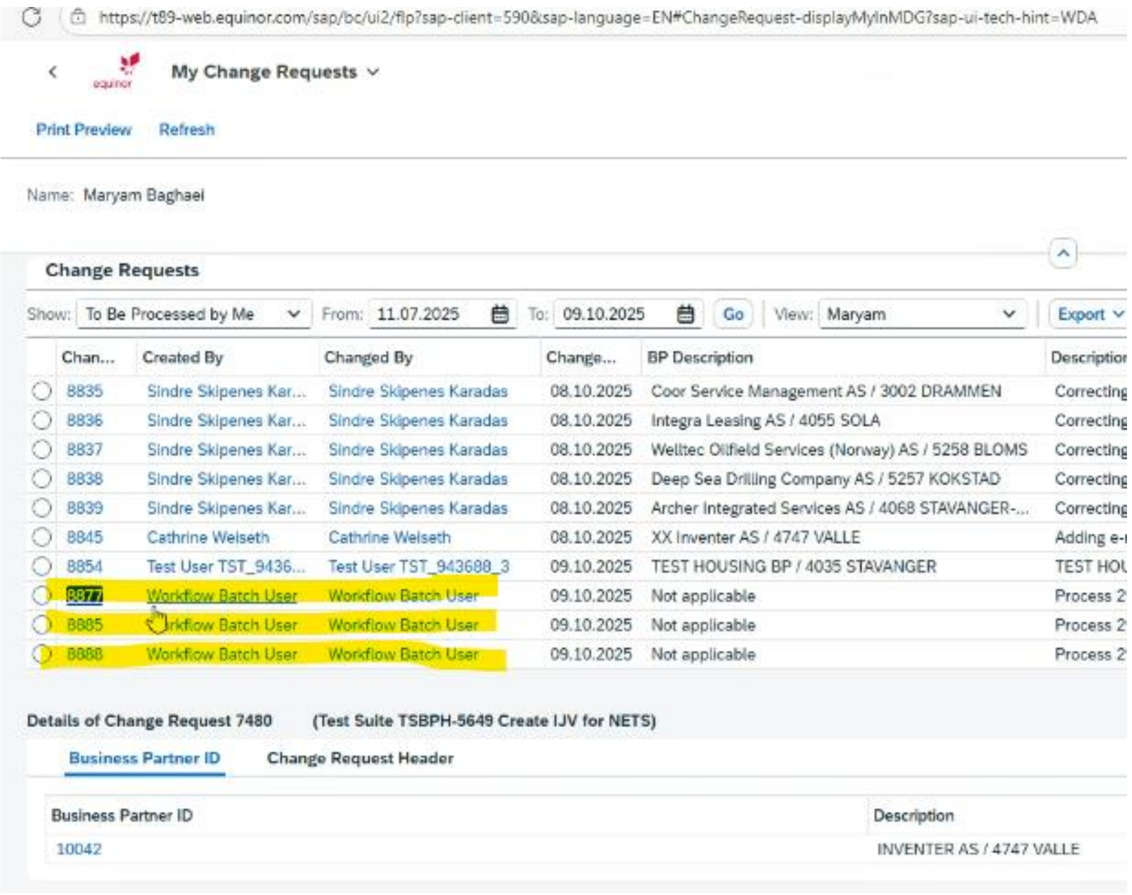


Challenges with **«Mass Processing With Request»** (3:3)

5. Creates multiple Change Requests

- During approval - stops at first error message (and does not check the rest of the file) Error-log is descriptive
- Footprint – batch-user and not «Approver»-user
- Active CR
- Splits one process id into multiple MDG-requests
- No overview of how many MDG-request have been created for one request

6. Authorization can be a challenge – we had to provide our Approver with Requestor-role



Challenges with «**Mass Processing Direct**» without approval-step

- Limited to app. 5000 records
- No request for approval (compliance issue)
- When prepare and upload excel file to mass-tool
  - Excel file – leading zeroes are required on Vendor/Customer-number
  - One file for Customer
  - One file for Vendor
- Check if any have change requests (staging area) Important!
  - Change request will be corrupted and must be deleted
  - Recommend to: Exclude BP's with CR, or finalize current CR
- Stops at first error message (and does not check the rest of the file) Error-log is descriptive
- Footprint – batch-user and not «Approver»-user
- Authorization can be a challenge
- No possibilty to download complete error-log

Observations During Mass Processing

- No possibility to customise level of validations
- Mass-tool (direct) do not notify that there is an existing Change Request on same BP
- Only batch user is visible – do not know who is Requestor
- After sending request – Requestor is able to delete CR from his view
- Rejected/"Send for review" by Approver, not received by Requestor (missing config.?)
- "Withdraw" had to be executed by Approver

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Mass Processing - Requirements

BP/Vendor/Customer

- Create/maintain +1000k records
- Descriptive error log
- Fix errors directly via the tool?

Material

- Create/maintain minimum 10k+ records
    - Required to enable plant data changes. Wishlist would be 100.000+ as there is a regularly mass changes on all data (ref. IOTA and MRP settings)
- Tool needs to be able to separated between success and failure. Successes are processed and put into the system, failures should be possible to change in system or export out in mass upload template
- To enable wider use, specialized templates should be available for different types of changes or material types

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Lessons Learned

- Users must receive thourough training to ensure effective use of the application.
- Understanding of the application.
- Access to monitoring tools such as SRT_MONI is essential for relevant users involved in mass processing.
- High master data quality is critical for the successful operation of the tool.
- Reducing the number of records per upload minimizes the risk of errors.
- When operating both S/4 and ECC in parallel, it is necessary to maintain synchronization between systems.
- Only approvers have the authority to withdraw change requests.
- Due to record limitations, alternative mass update solutions are being considered.

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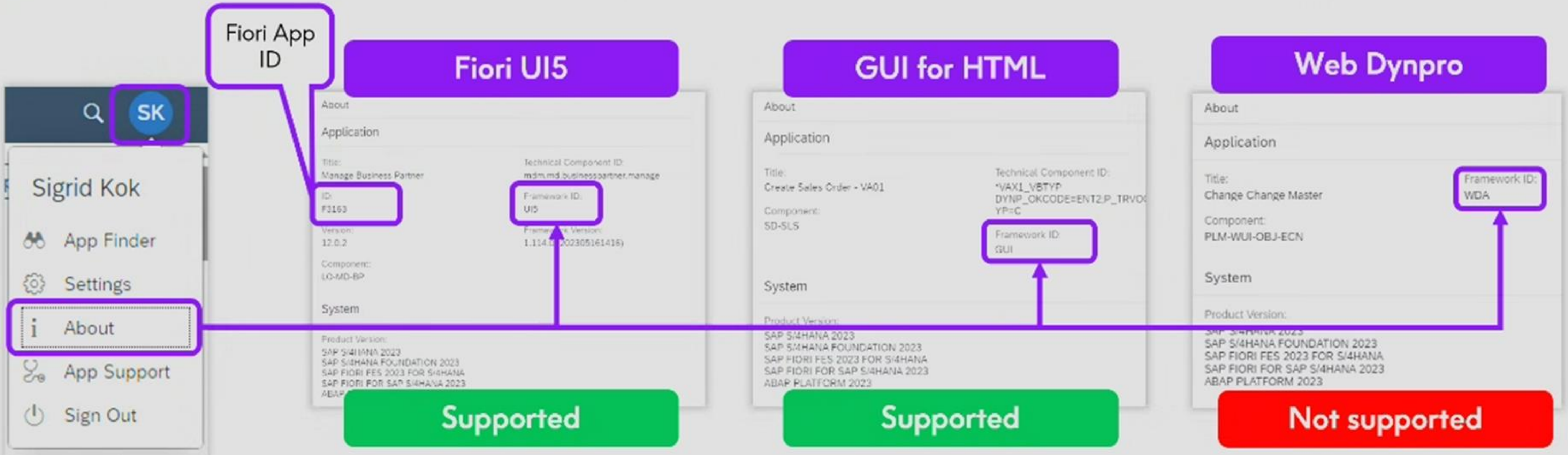
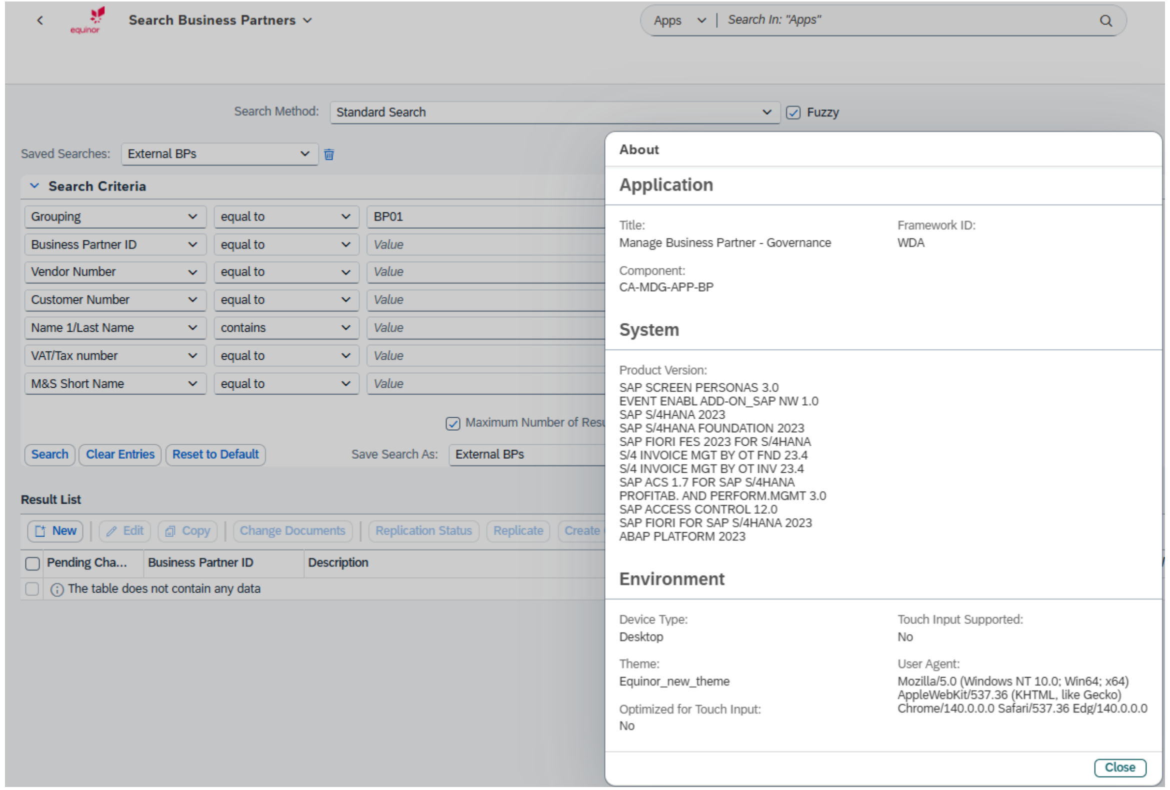
How to check your Fiori App type

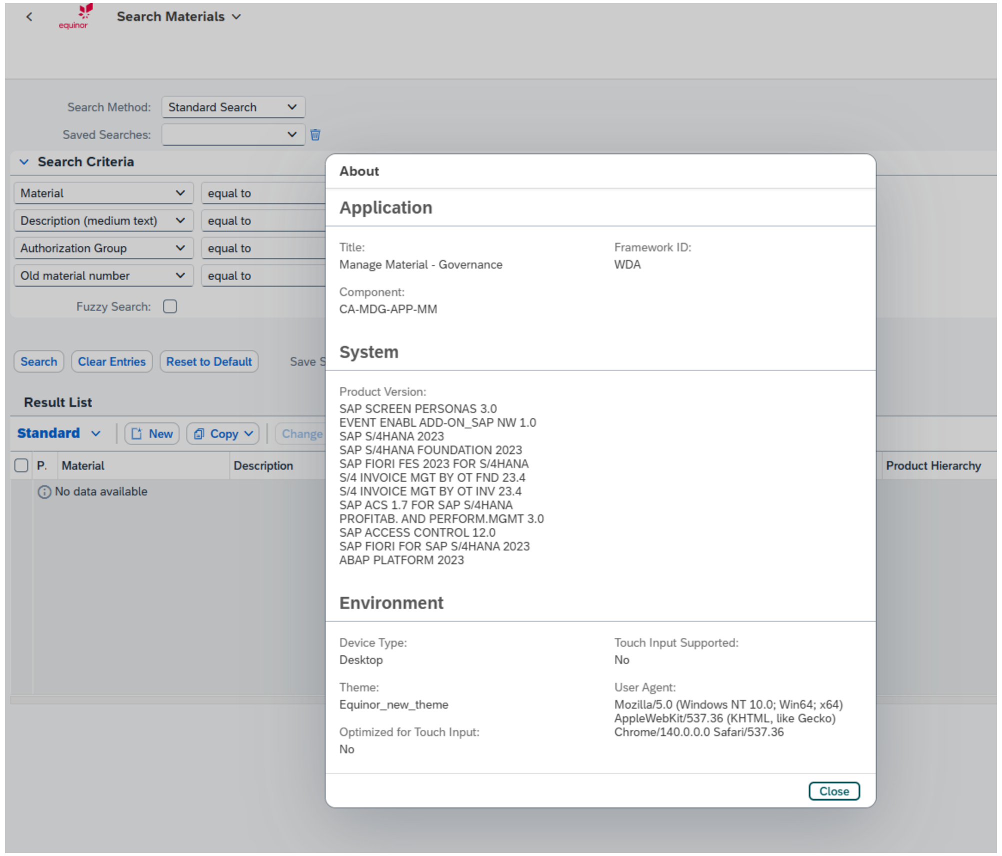
- **Open your Fiori app** - then **click** on your **picture/initials** on the top right corner - then click **About**
- You will see the app information – notice the **Framework ID** – **UI5 = Fiori** or **GUI = GUI for HTML** or **WDA for Web Dynpro**
  - Tip: If you click to open an app & it opens a **new tab** in the browser, it is usually **not** a "proper" **Fiori UI5 app**, usually that is GUI for HTML



MDG – Web Dynpro

- Unfortunately for Equinor, we have implemented the web dynpro-version and will not be able to utilize Automate Studie on MDG-BP/M/F without compliance-issue.

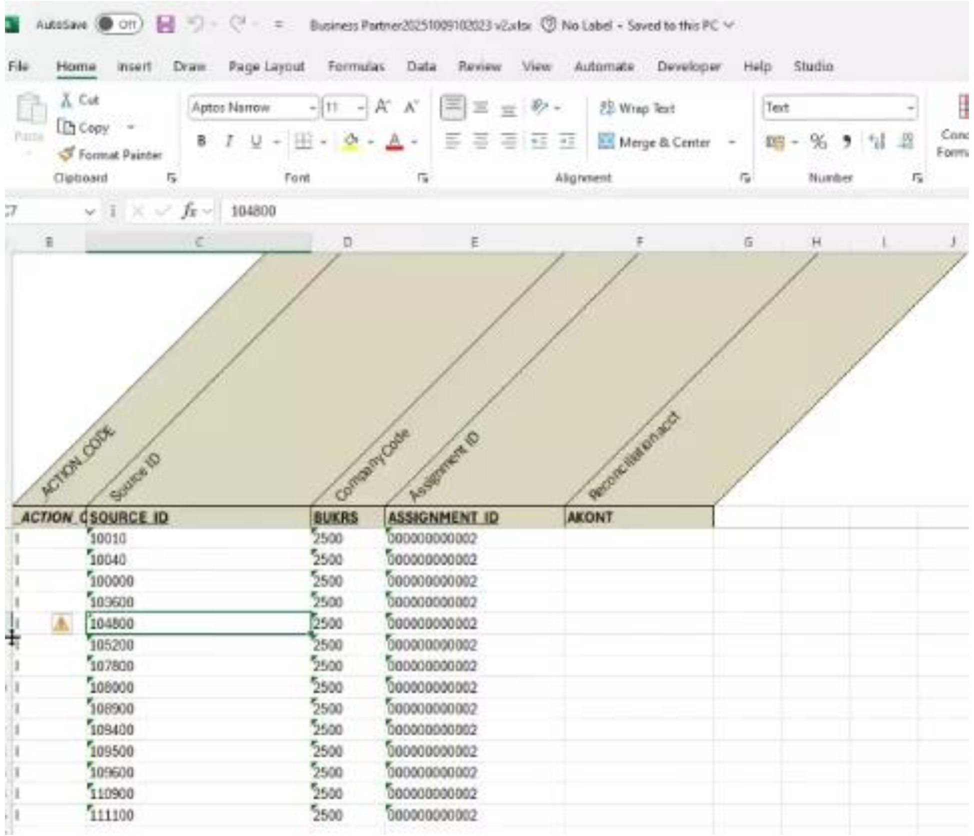




Demo by Adam

DEMO – Backup-slides for – Mass Processing With Approval Step

Mass Processing via MDG-BP-request (Approval Required)



ACTION_C	SOURCE_ID	BUKRS	ASSIGNMENT_ID	AKONT
I	10010	2500	000000000002	
I	10040	2500	000000000002	
I	100000	2500	000000000002	
I	103600	2500	000000000002	
I	104800	2500	000000000002	
I	105200	2500	000000000002	
I	107800	2500	000000000002	
I	108000	2500	000000000002	
I	108900	2500	000000000002	
I	109400	2500	000000000002	
I	109500	2500	000000000002	
I	109600	2500	000000000002	
I	110900	2500	000000000002	
I	111100	2500	000000000002	

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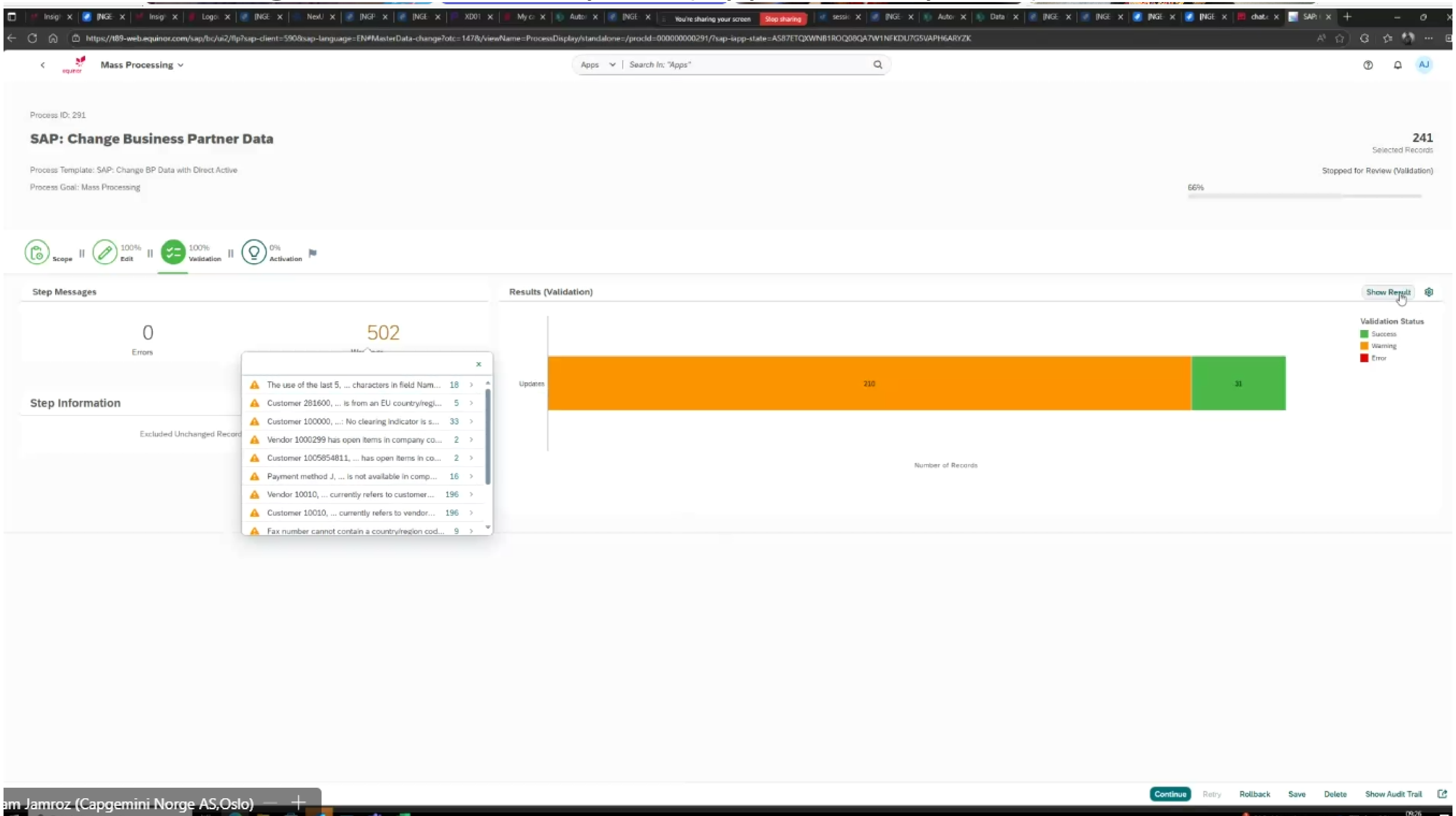
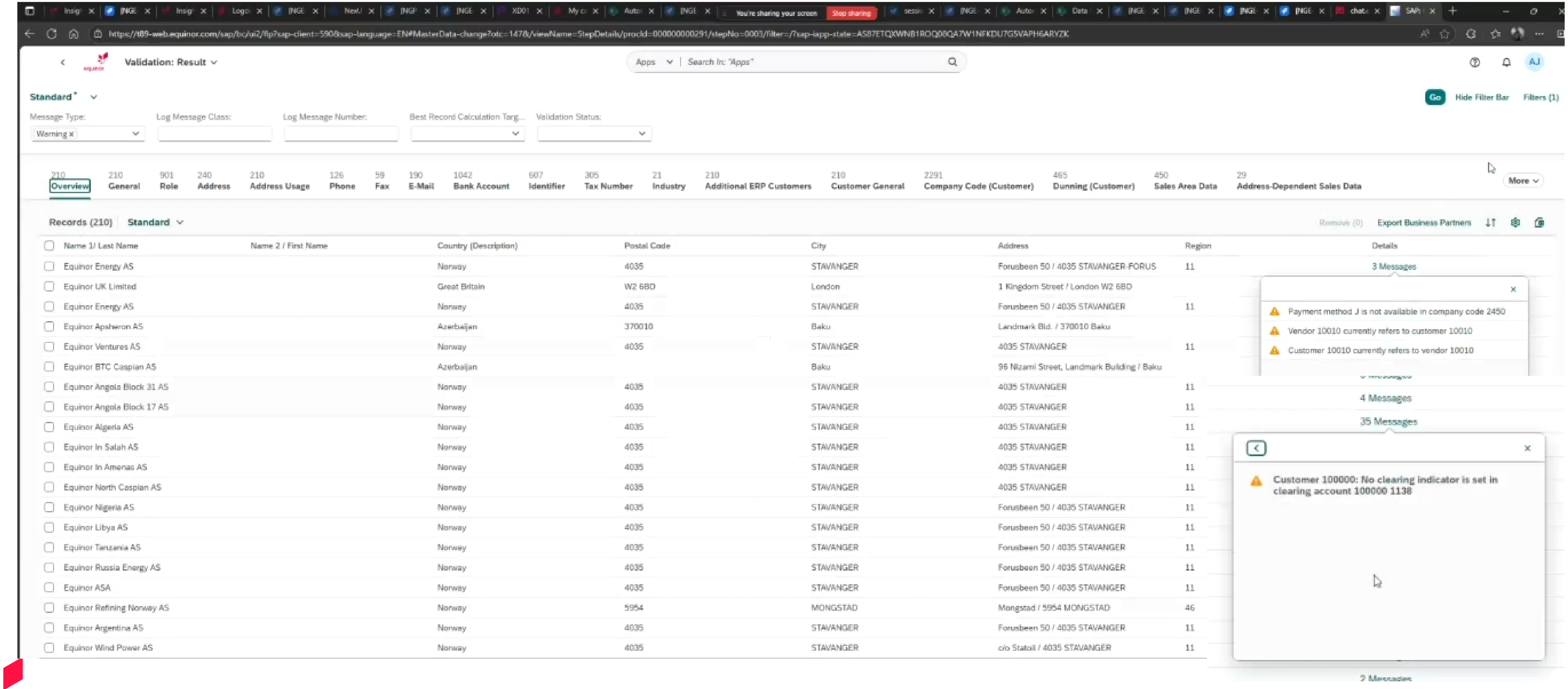
Mass Processing via MDG-BP-request (Approval required)



Mass Processing via MDG-BP-Request (Approval Required)



Validation: Result

Standard*

Message Type: Warning | Log Message Class: | Log Message Number: | Best Record Calculation Targ... | Validation Status:

Go | Hide Filter Bar | Filters (1)

210 Overview | 210 General | 901 Role | 240 Address | 210 Address Usage | 126 Phone | 59 Fax | 190 E-Mail | 1042 Bank Account | 607 Identifier | 305 Tax Number | 21 Industry | 210 Additional ERP Customers | 210 Customer General | 2291 Company Code (Customer) | 465 Dunning (Customer) | 450 Sales Area Data | 29 Address-Dependent Sales Data | More

Records (210) Standard

Remove (0) | Export Business Partners

Name 1/ Last Name	Name 2 / First Name	Country (Description)	Postal Code	City	Address	Region	Details
Equinor Energy AS		Norway	4035	STAVANGER	Forusbeen 50 / 4035 STAVANGER-FORUS	11	3 Messages
Equinor UK Limited		Great Britain	W2 6BD	London	1 Kingdom Street / London W2 6BD		
Equinor Energy AS		Norway	4035	STAVANGER	Forusbeen 50 / 4035 STAVANGER	11	
Equinor Apsheron AS		Azerbaijan	370010	Baku	Landmark Bld. / 370010 Baku		
Equinor Ventures AS		Norway	4035	STAVANGER	4035 STAVANGER	11	
Equinor BTC Caspian AS		Azerbaijan		Baku	96 Nizami Street, Landmark Building / Baku		
Equinor Angola Block 31 AS		Norway	4035	STAVANGER	4035 STAVANGER	11	
Equinor Angola Block 17 AS		Norway	4035	STAVANGER	4035 STAVANGER	11	4 Messages
Equinor Algeria AS		Norway	4035	STAVANGER	4035 STAVANGER	11	35 Messages
Equinor In Salah AS		Norway	4035	STAVANGER	4035 STAVANGER	11	
Equinor In Amenas AS		Norway	4035	STAVANGER	4035 STAVANGER	11	
Equinor North Caspian AS		Norway	4035	STAVANGER	4035 STAVANGER	11	
Equinor Nigeria AS		Norway	4035	STAVANGER	Forusbeen 50 / 4035 STAVANGER	11	
Equinor Libya AS		Norway	4035	STAVANGER	Forusbeen 50 / 4035 STAVANGER	11	
Equinor Tanzania AS		Norway	4035	STAVANGER	Forusbeen 50 / 4035 STAVANGER	11	
Equinor Russia Energy AS		Norway	4035	STAVANGER	Forusbeen 50 / 4035 STAVANGER	11	
Equinor ASA		Norway	4035	STAVANGER	Forusbeen 50 / 4035 STAVANGER	11	
Equinor Refining Norway AS		Norway	5954	MONGSTAD	Mongstad / 5954 MONGSTAD	46	
Equinor Argentina AS		Norway	4035	STAVANGER	Forusbeen 50 / 4035 STAVANGER	11	
Equinor Wind Power AS		Norway	4035	STAVANGER	c/o Statoil / 4035 STAVANGER	11	

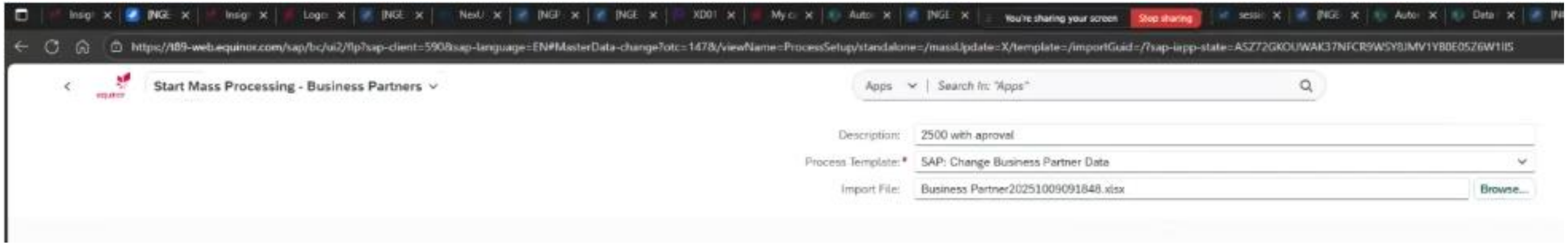
Payment method J is not available in company code 2450

Vendor 10010 currently refers to customer 10010

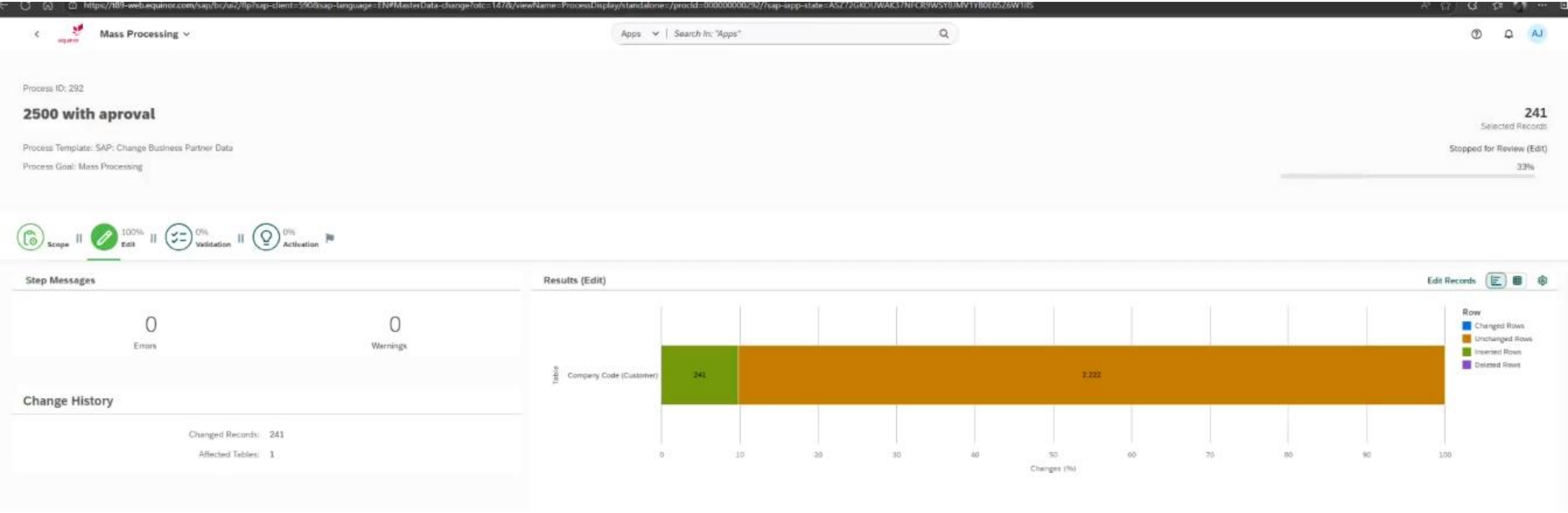
Customer 10010 currently refers to vendor 10010

Customer 100000: No clearing indicator is set in clearing account 100000 1138

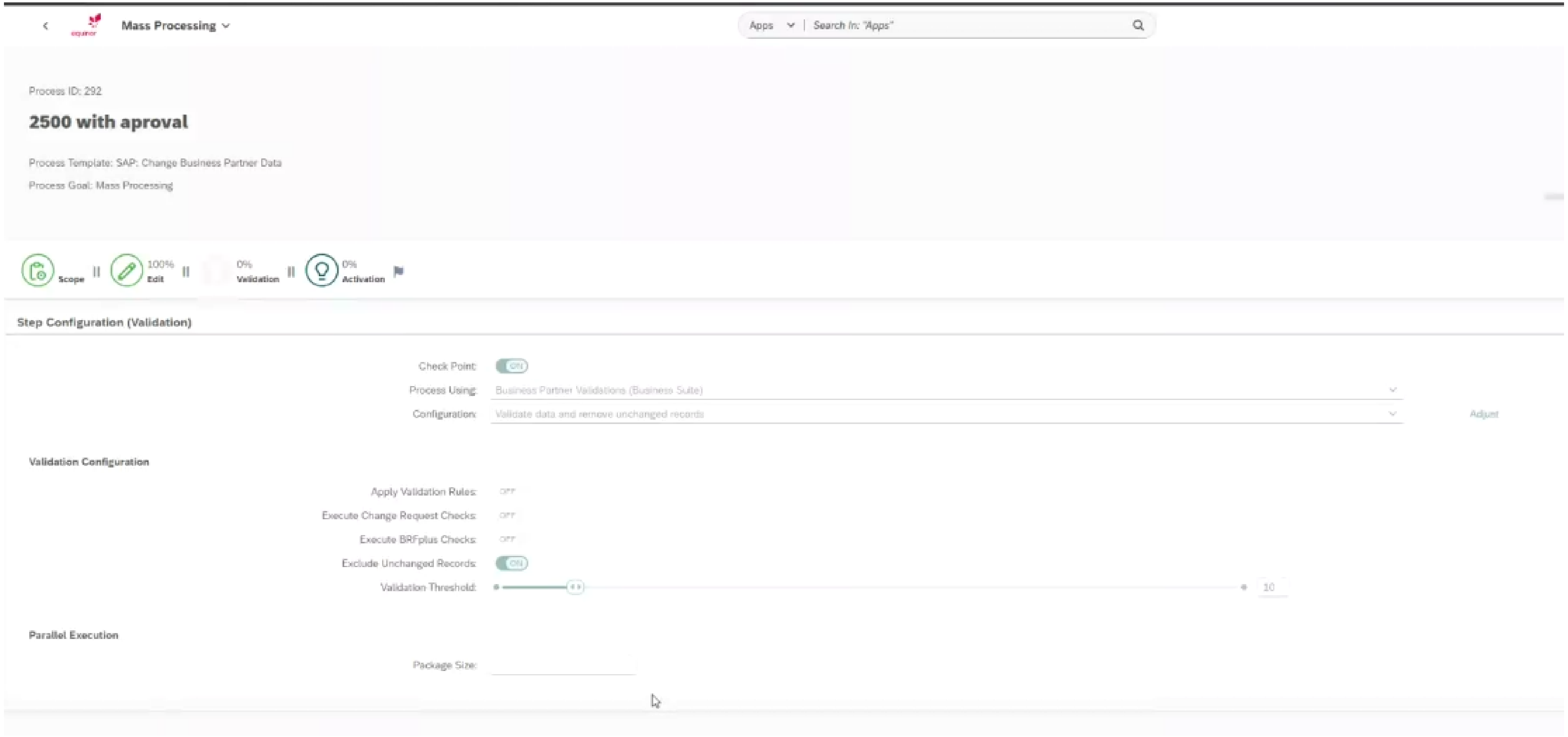
Mass Processing via MDG-BP-Request (Approval Required)



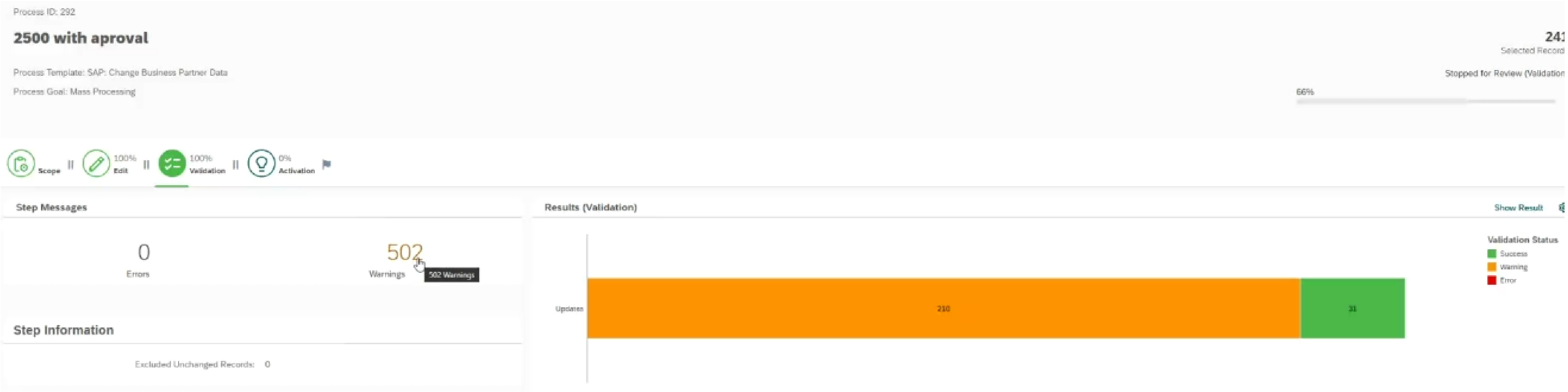
Mass Processing via MDG-BP-Request (Approval Required)



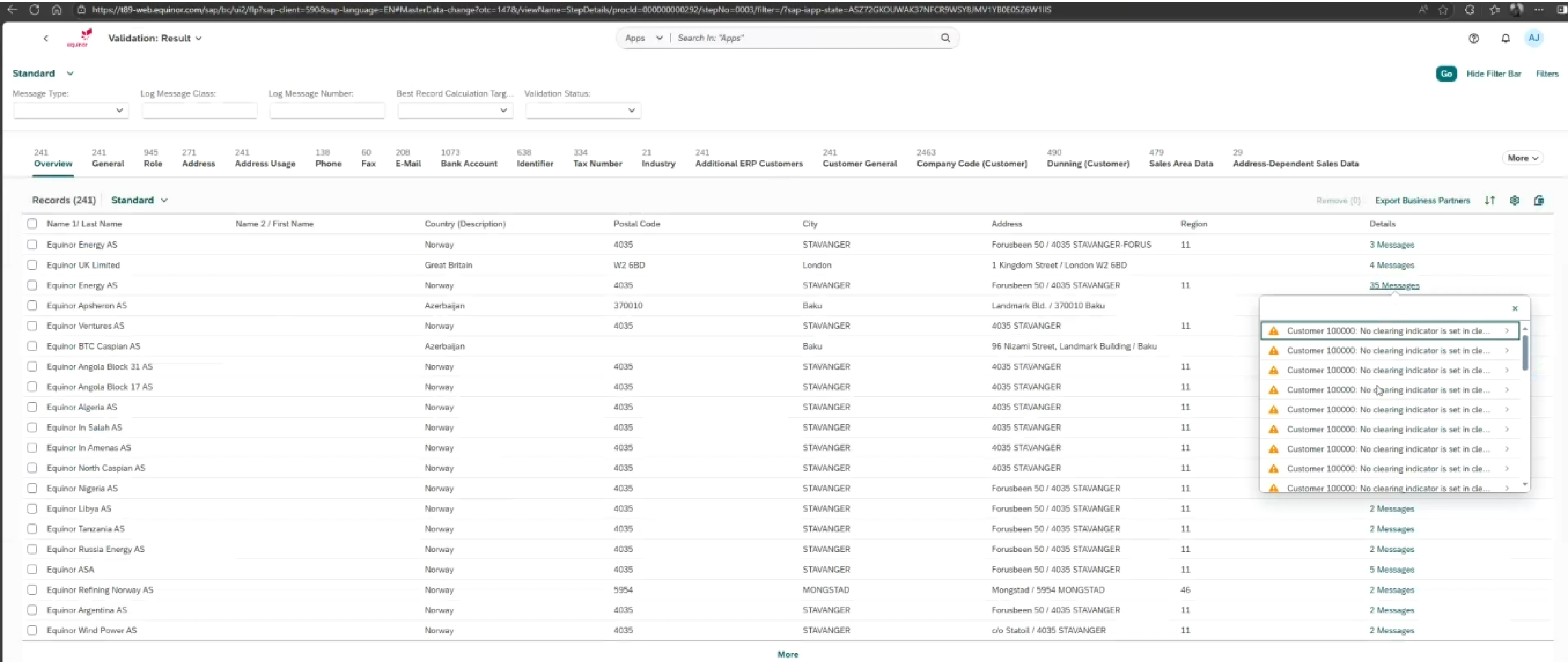
Mass Processing via MDG-BP-Request (Approval Required)



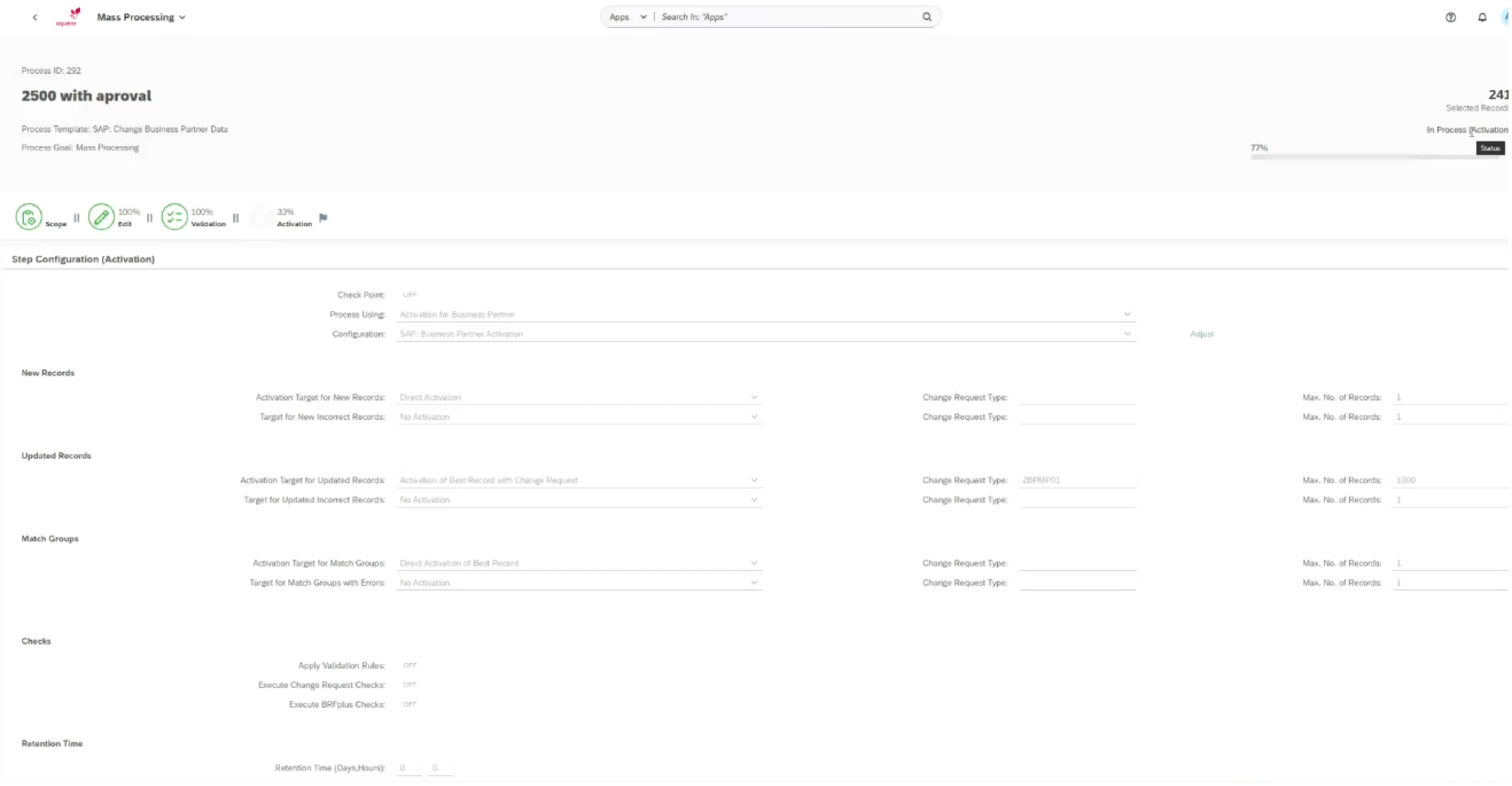
Mass Processing via MDG-BP-Request (Approval Required)



Mass Processing via MDG-BP-Request (Approval Required)



Mass Processing via MDG-BP-Request (Approval Required)



Mass Processing via MDG-BP-Request (Approval Required)

Activation: Result

Apps | Search In: "Apps"

AJ

Standard

Message Type: | Log Message Class: | Log Message Number: | Best Record Calculation Targ...

Go | Hide Filter Bar | Filters

191	191	814	219	191	118	54	174	958	545	271	21	191	191	2211	410	427	27
Overview	General	Role	Address	Address Usage	Phone	Fax	E-Mail	Bank Account	Identifier	Tax Number	Industry	Additional ERP Customers	Customer General	Company Code (Customer)	Dunning (Customer)	Sales Area Data	Address-Dependent Sales Data

More

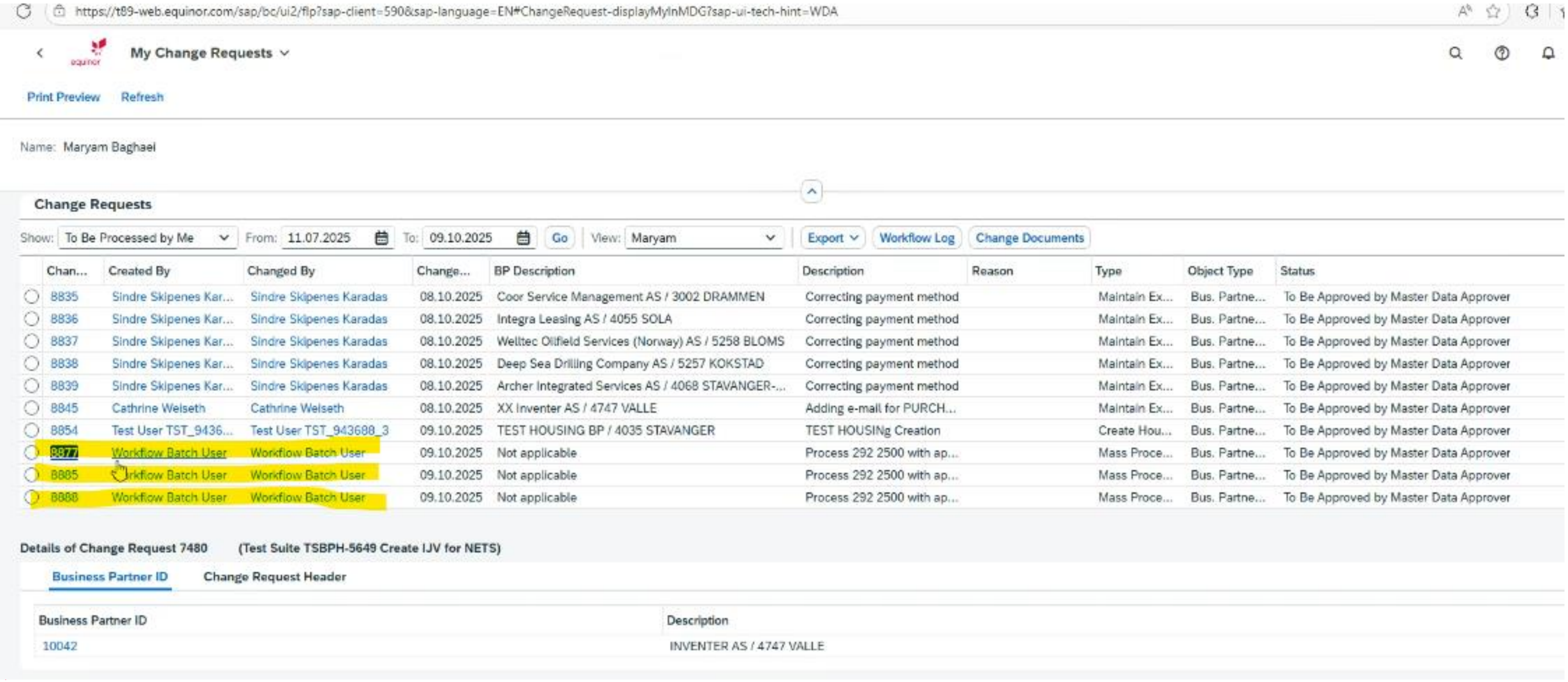
Records (191) Standard

Remove (0)

Name 1 / Last Name	Name 2 / First Name	Country (Description)	Postal Code	City	Address	Region	Details
Equinor Nicaragua B.V. S.U.		Nicaragua	3013 AP	Rotterdam	Conradstraat 38, Unit D6.128 / 3013 AP Rotterdam		1 Message
Equinor South Africa B.V.		South Africa	3013	Rotterdam	PO Box 322 / Rotterdam		1 Message
Braemar Securities Limited		Great Britain	WC2N5HR	LONDON	One Strand / LONDON WC2N5HR		1 Message
Oil Companies International Marine		Great Britain	SWIH 9BU	LONDON	29 Queen Anne´s Gate, / LONDON SWIH 9BU		1 Message
ExxonMobil Gas Marketing Europe Ltd		Great Britain	KT22 8UX	LEATHERHEAD	Ermyn Way / LEATHERHEAD KT22 8UX		1 Message
ENI SPA		Italy	00144	Roma	Piazzale Enrico Mattei / 00144 Roma AG	AG	1 Message
DOW Silicones UK Limited	TIM HELLIS	Great Britain	CF6 2YL	BARRY	CARDIFF ROAD / BARRY CF6 2YL		1 Message
SABIC UK PETROCHEMICALS LTD	ANGELA BURNS	Great Britain	TS10 4RF	TEESIDE	WILTON CENTRE / TEESIDE TS10 4RF		1 Message
Stadtwerke Leipzig GmbH		Germany	04109	LEIPZIG	Postfach 10 06 14 / 04006 LEIPZIG		1 Message
Esso Exploration & Production (Gas		Great Britain	KT22 8UX	Leatherhead	Ermyn Way, SURREY / Leatherhead KT22 8UX		1 Message
Ithaca Energy (UK) Ltd		Great Britain	AB15 6XL	Aberdeen	Hill of Rubislaw / Aberdeen AB15 6XL		1 Message
Shire Pharmaceuticals Group		Great Britain		Corby	PO Box 7716 / Corby NN17 5ZZ		1 Message
SFF UK Ltd		Great Britain	AB12 3UF	Aberdeen	Unit E8, Gateway Business Park / Aberdeen AB12 3UF		1 Message
BP Exploration Operating Company Li		Great Britain	AB21 7PB	Aberdeen	1 Wellheads Avenue / Aberdeen AB21 7PB		1 Message
BP Alpha Exploration Limited		Great Britain	TW16 7PB	Middlesex	Chertsey Road / Middlesex TW16 7PB		1 Message
Tullow Oil SK Limited		Great Britain	W4 5XT	London	9, Chiswick Park, 566 Chiswick High Road / London W4 5XT		1 Message
Alpa AS		Norway	6415	MOLDE	Oscar Hanssens vei 7 / 6415 MOLDE	15	1 Message
Active Digital Communications Ltd		Great Britain	EC3V 0HR	London	PO Box 673 / London TN9 9SL		1 Message
Takeda UK Ltd		Great Britain	W2 6BD	LONDON	1 Kingdom Street / LONDON W2 6BD		1 Message
80:20 Procurement Services Limited		Great Britain	AB11 5BS	ABERDEEN	Waterloo Quay / ABERDEEN AB11 5BS		1 Message

Mass Processing via MDG-BP-Request (Approval Required)

Approver receives the requests, divided into 3


https://t89-web.equinor.com/sap/bc/ui2/flp?sap-client=590&sap-language=EN#ChangeRequest-displayMyInMDG?sap-ui-tech-hint=WDA

My Change Requests

Print Preview Refresh

Name: Maryam Baghaei

Change Requests

Show: To Be Processed by Me From: 11.07.2025 To: 09.10.2025 Go View: Maryam Export Workflow Log Change Documents

Chan...	Created By	Changed By	Change...	BP Description	Description	Reason	Type	Object Type	Status
8835	Sindre Skipenes Kar...	Sindre Skipenes Karadas	08.10.2025	Coor Service Management AS / 3002 DRAMMEN	Correcting payment method		Maintain Ex...	Bus. Partne...	To Be Approved by Master Data Approver
8836	Sindre Skipenes Kar...	Sindre Skipenes Karadas	08.10.2025	Integra Leasing AS / 4055 SOLA	Correcting payment method		Maintain Ex...	Bus. Partne...	To Be Approved by Master Data Approver
8837	Sindre Skipenes Kar...	Sindre Skipenes Karadas	08.10.2025	Welltec Oilfield Services (Norway) AS / 5258 BLOMS	Correcting payment method		Maintain Ex...	Bus. Partne...	To Be Approved by Master Data Approver
8838	Sindre Skipenes Kar...	Sindre Skipenes Karadas	08.10.2025	Deep Sea Drilling Company AS / 5257 KOKSTAD	Correcting payment method		Maintain Ex...	Bus. Partne...	To Be Approved by Master Data Approver
8839	Sindre Skipenes Kar...	Sindre Skipenes Karadas	08.10.2025	Archer Integrated Services AS / 4068 STAVANGER-...	Correcting payment method		Maintain Ex...	Bus. Partne...	To Be Approved by Master Data Approver
8845	Cathrine Weiseth	Cathrine Weiseth	08.10.2025	XX Inventer AS / 4747 VALLE	Adding e-mail for PURCH...		Maintain Ex...	Bus. Partne...	To Be Approved by Master Data Approver
8854	Test User TST_9436...	Test User TST_943688_3	09.10.2025	TEST HOUSING BP / 4035 STAVANGER	TEST HOUSINg Creation		Create Hou...	Bus. Partne...	To Be Approved by Master Data Approver
8877	Workflow Batch User	Workflow Batch User	09.10.2025	Not applicable	Process 292 2500 with ap...		Mass Proce...	Bus. Partne...	To Be Approved by Master Data Approver
8885	Workflow Batch User	Workflow Batch User	09.10.2025	Not applicable	Process 292 2500 with ap...		Mass Proce...	Bus. Partne...	To Be Approved by Master Data Approver
8888	Workflow Batch User	Workflow Batch User	09.10.2025	Not applicable	Process 292 2500 with ap...		Mass Proce...	Bus. Partne...	To Be Approved by Master Data Approver

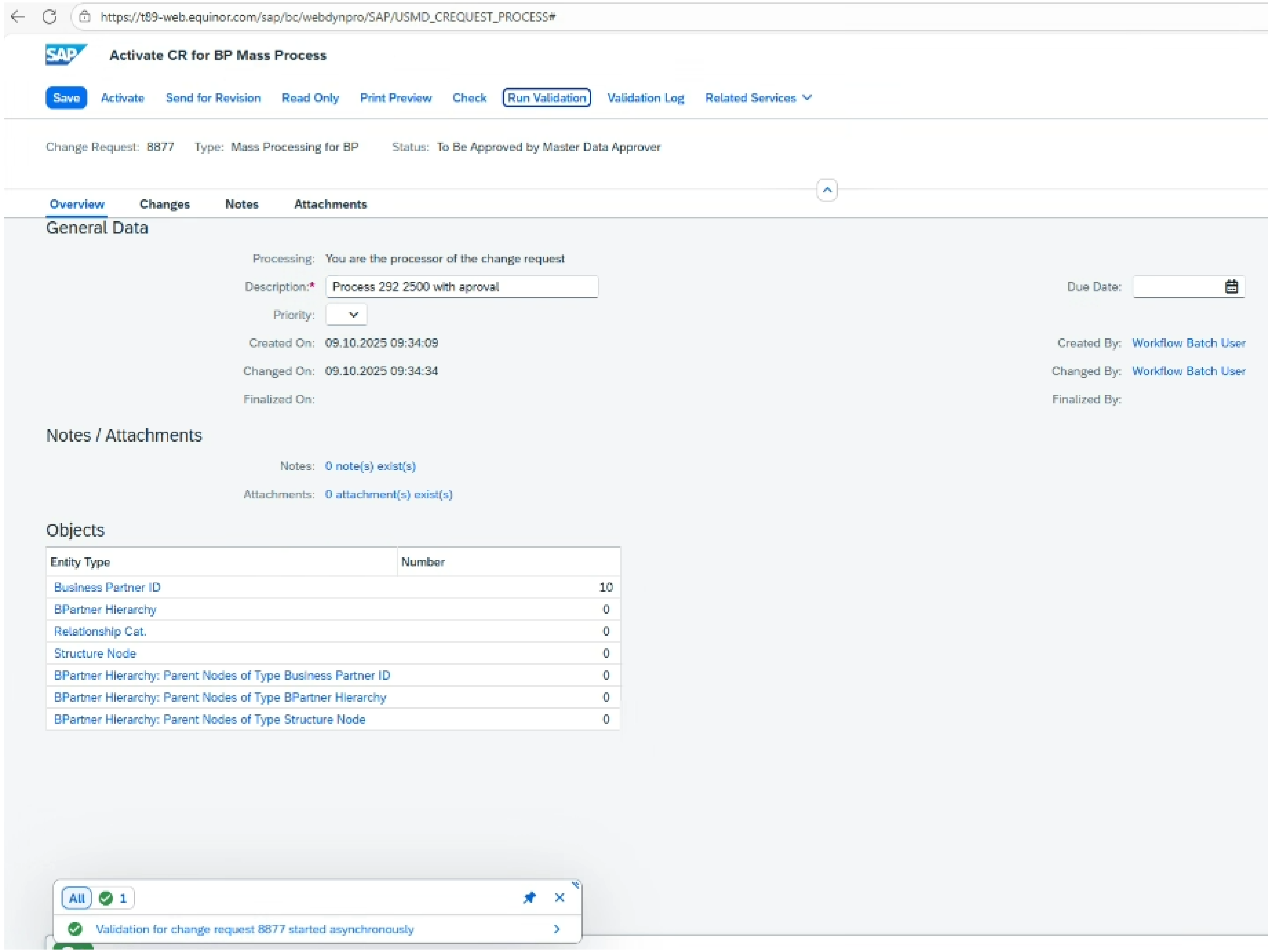
Details of Change Request 7480 (Test Suite TSBPH-5649 Create IJV for NETS)

Business Partner ID Change Request Header

Business Partner ID	Description
10042	INVENTER AS / 4747 VALLE

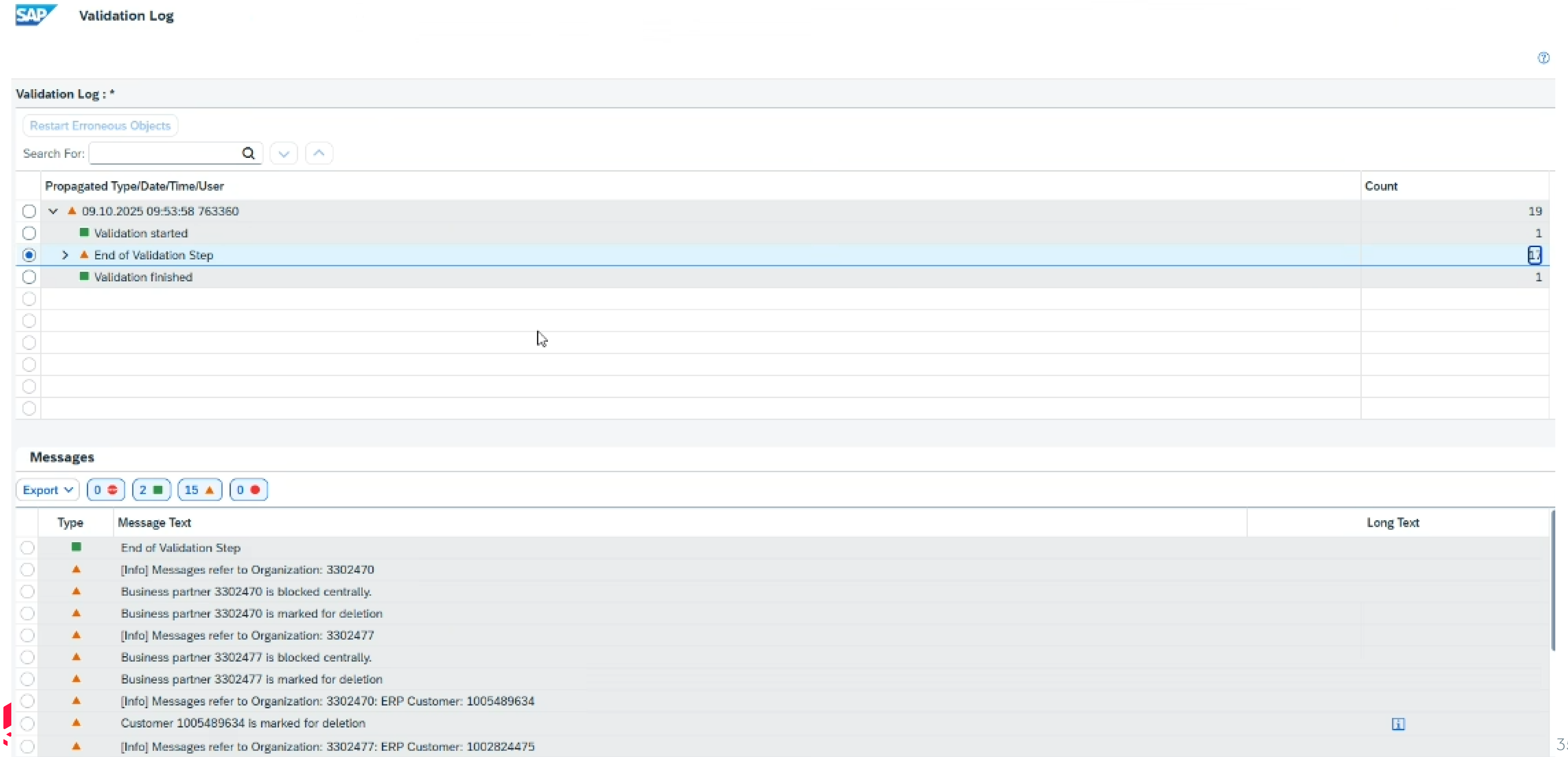
Mass Processing via MDG-BP-Request (Approval Required)

Maryam will approve:



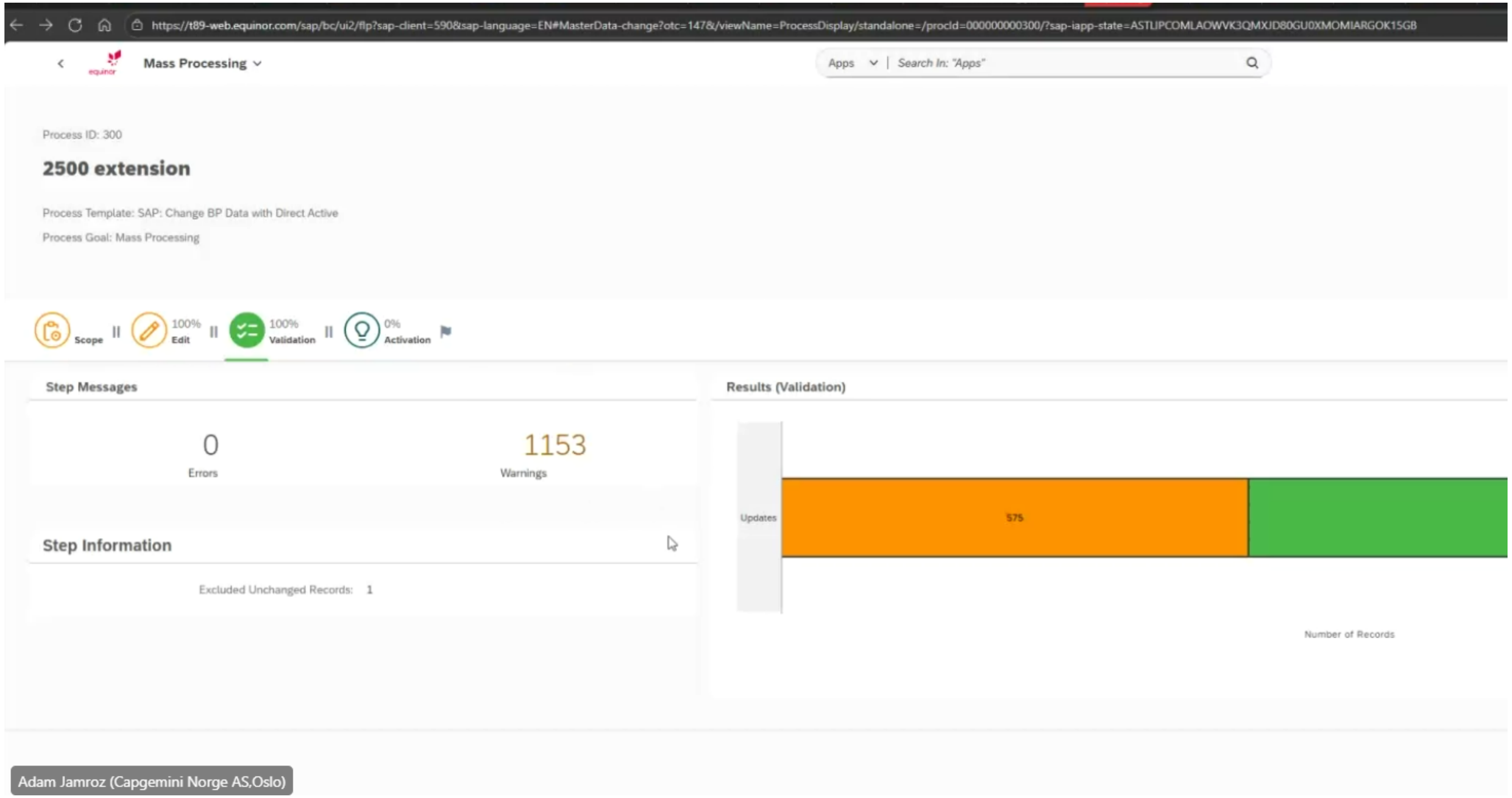
Mass Processing via MDG-BP-Request (Approval Required)

Approver run Validation log:

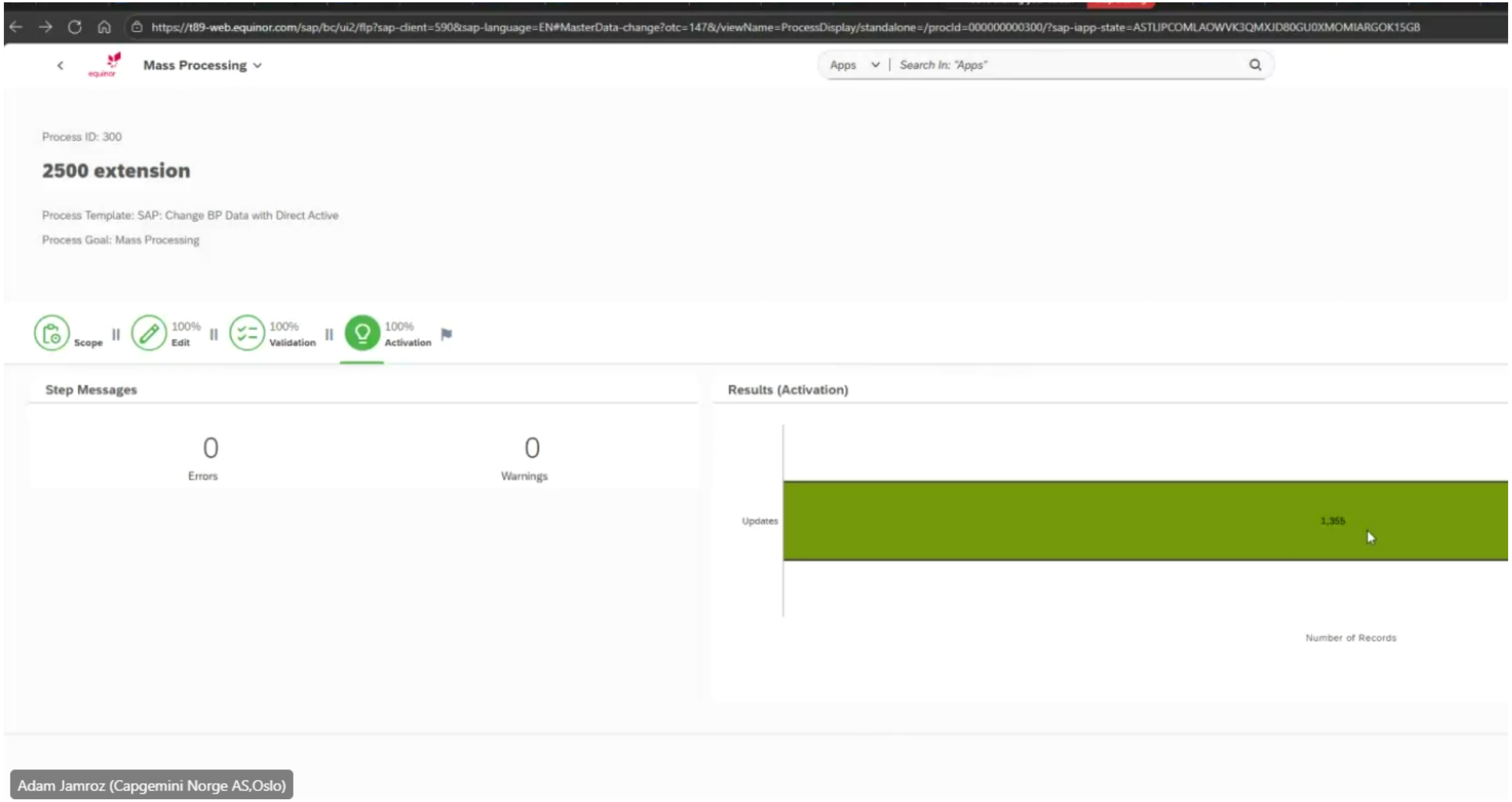


DEMO – Backup-slides for – Mass update Direct

Mass Processing (Direct Activation) – No MDG-BP-Request to Be Approved



Mass Processing (Direct Activation) – No MDG-BP-Request to Be Approved



QUESTIONS AND ANSWERS

ANY MORE QUESTIONS?

SBN 2025

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Oslo | October 22 & 23