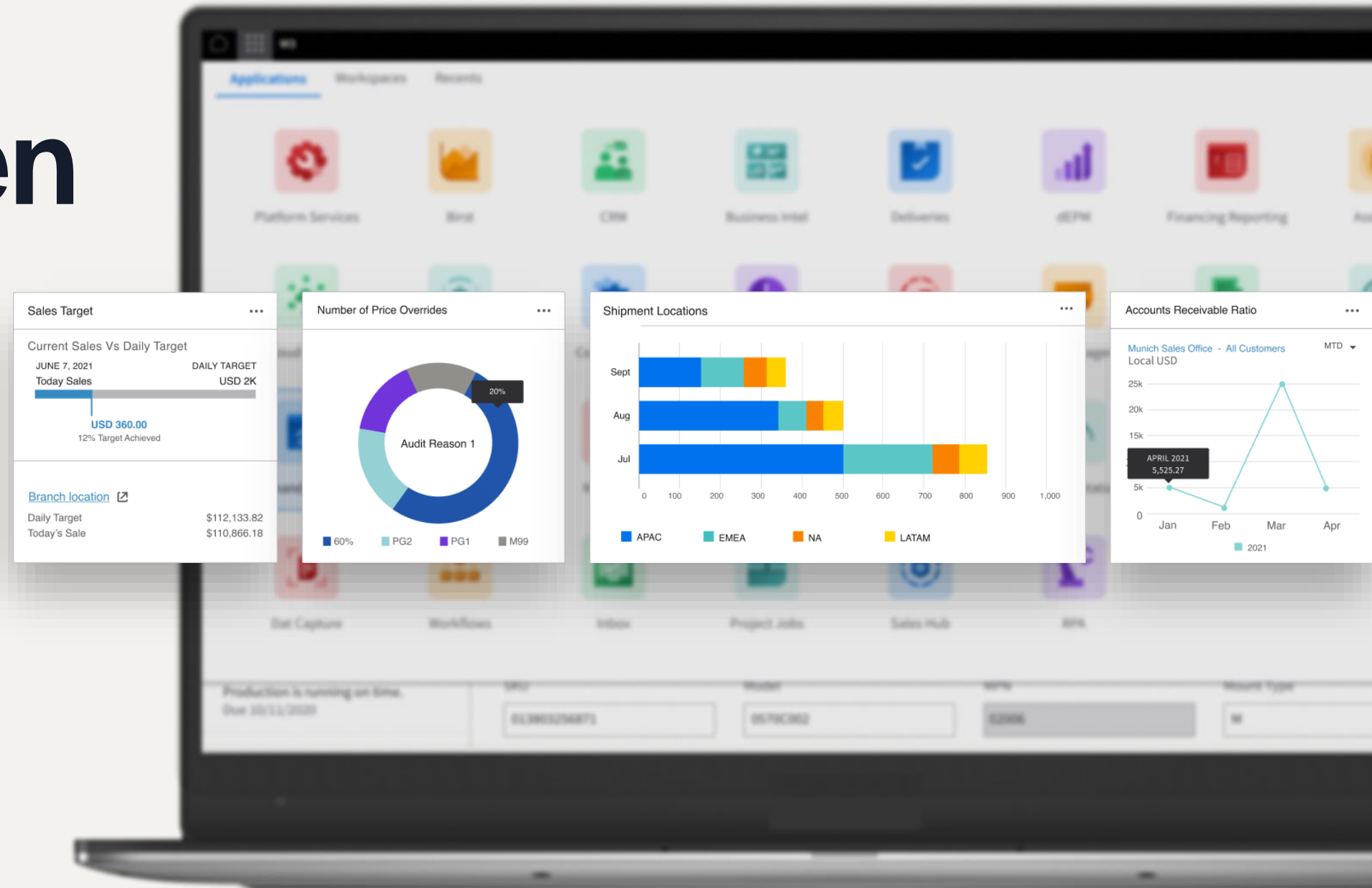


Stora Teknikdagen

M3 Foundation and M3CE Administration

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April 2023



ERP Simplified:
Smart. Preconfigured. Modern.

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Agenda

01

Released features

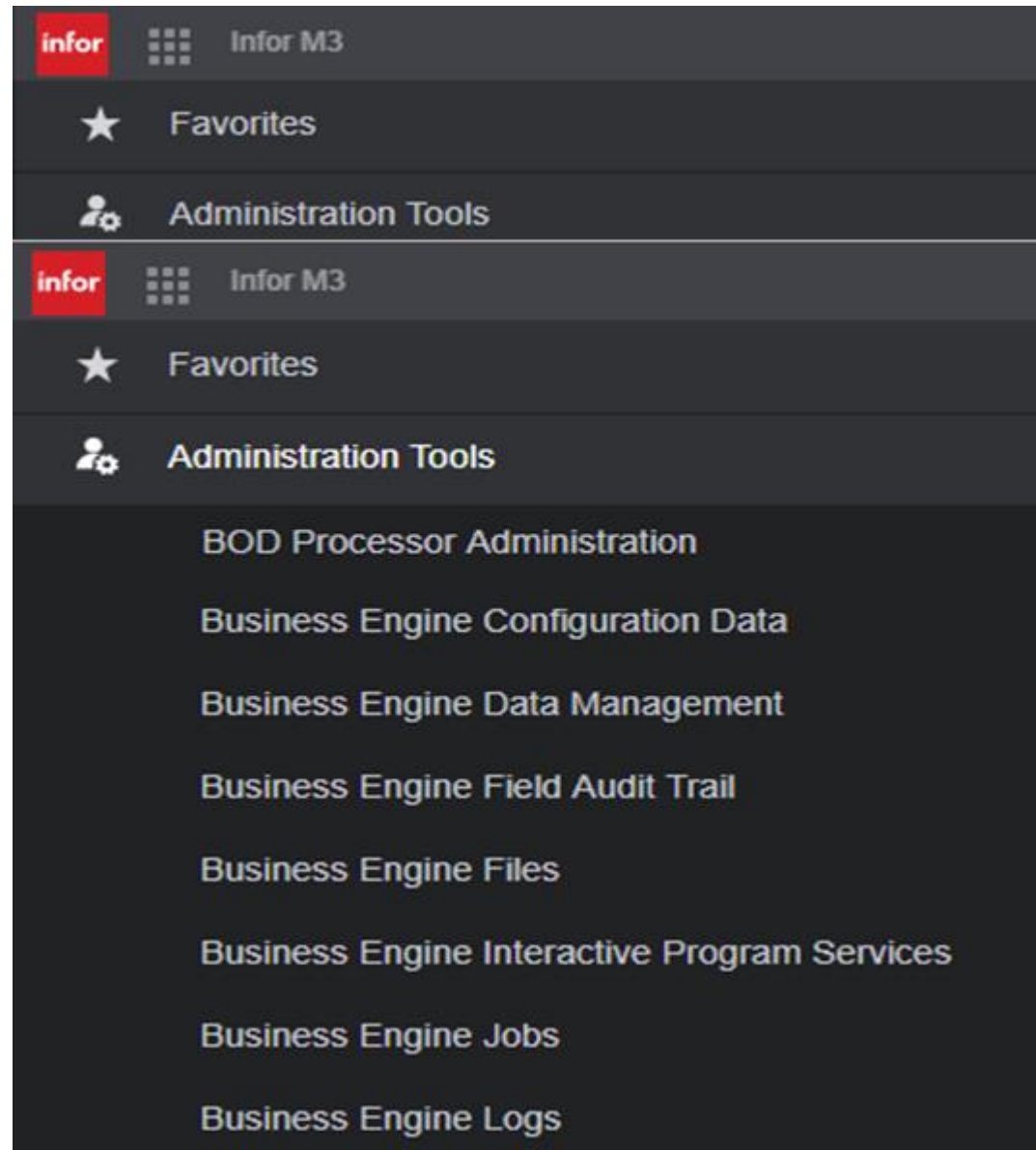
Features already deployed in Prod

- Export M3 BE data based on date
- Copy Data multipart zip
- Update Database Event log
- M3 Function Search Admin UI

----- 2023 -----

- FAT synch to Data Lake
- CFT store BE Files in Cloud
- MDP Search MI Fields

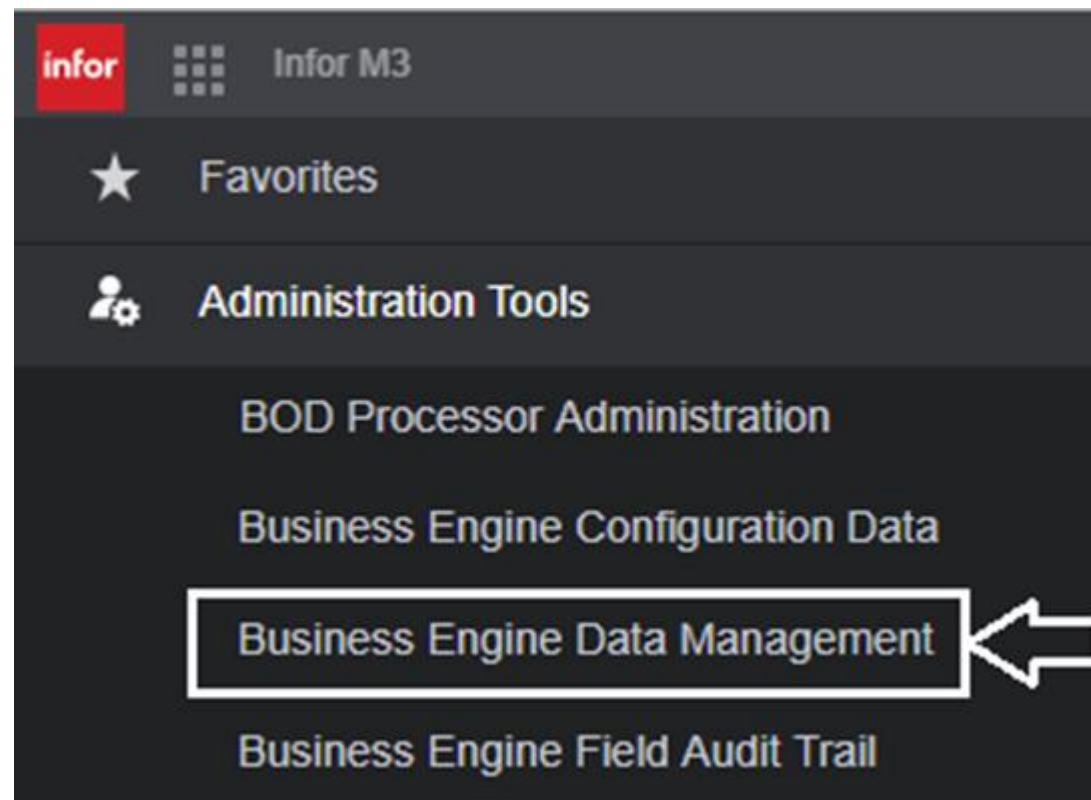
M3 Business Engine Administration Tools



- The Administration Tools can be accessed via the Infor M3 menu in Infor Ming.le.
- The Administration Tools has a submenu and the entries shown in the submenu are controlled by IFS roles. The user logged on to Infor Ming.le must be connected to the tool role(s) to see the entries and be able to access.
- Information on BE Admin Tools can be found in "M3 CE Core Administration Guide" docs.infor.com

Using M3 Business Engine administration tools		
Tool	Description	Required IFS Security role
Business Engine Jobs	Use this tool to view and delete jobs for troubleshooting. See Managing Business Engine jobs on page 236.	<i>M3BE-FndUser</i> to manage jobs for your user <i>M3BE-FndAdmin</i> to manage jobs for all users
Business Engine Logs	Use this tool to view and download logs for troubleshooting. See Managing Business Engine logs on page 236.	<i>M3BE-FndUser</i> to manage log files for your user <i>M3BE-FndAdmin</i> to manage log files for all users
Business Engine Files	Use this tool to manage M3 BE files. See Managing M3 BE files on page 40.	To manage M3 BE files, different IFS Security roles are required depending on the file location:

Admin Tools – BE Data Management



Business Engine Data Management have six different features/tabs:

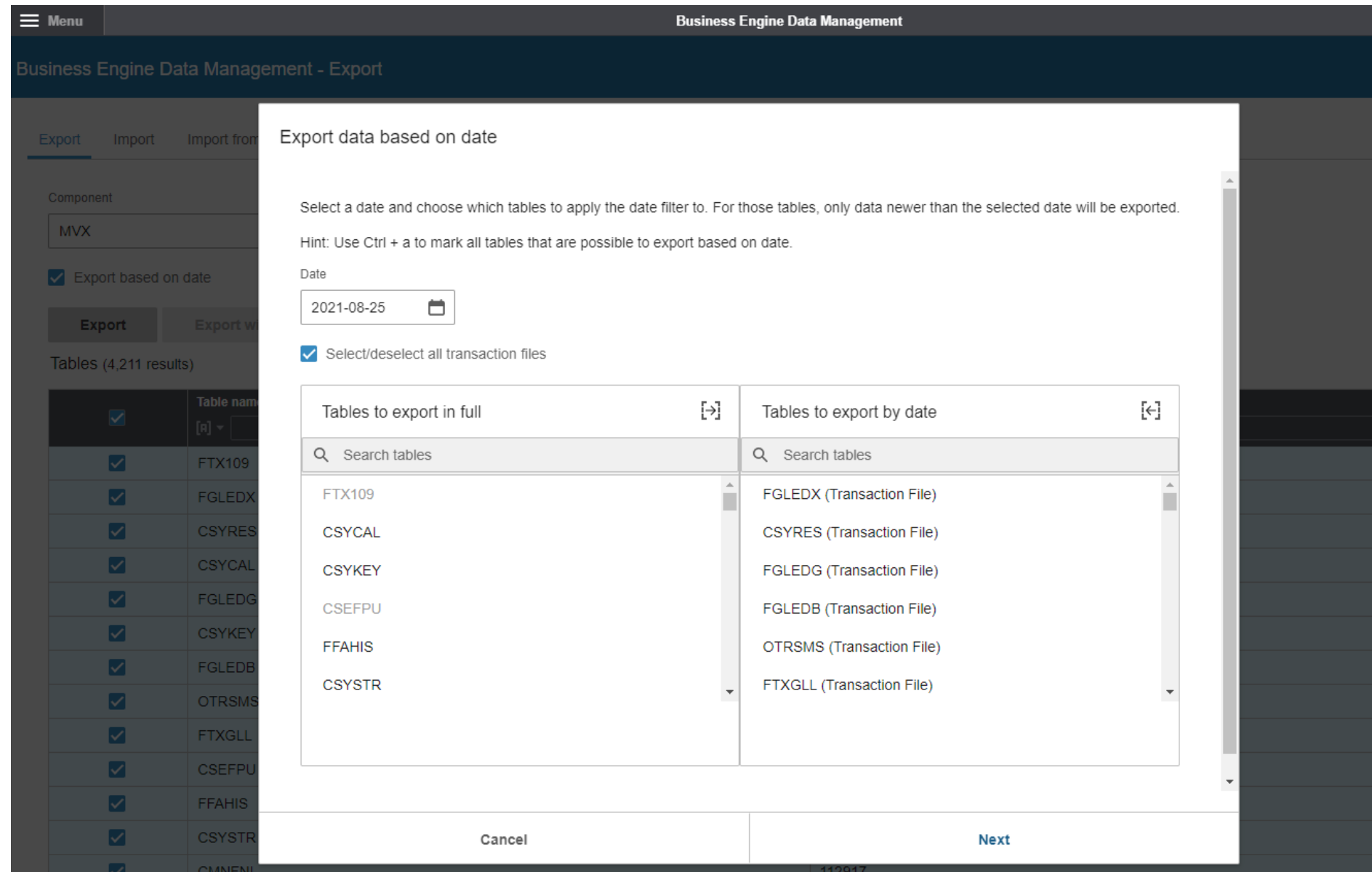
- Export
- Import
- Import from Database
- Delete Company
- Job Overview
- Update Database

To see the Data Management node under Administration Tools, either the *M3BE-DBAdmin* role or *M3BE-DBViewer* role is needed.

To access and run Export/Import or Delete Company the *M3BE-DBAdmin* role is needed.

Note: The Admin role is very powerful and allows updates of the Business Engine Data.

Export M3 BE data based on date (2022.01)



- In the Export data based on date dialog, you can specify which tables to export by date. For the selected tables, only data newer than the selected date will be exported (tables with LMTS column can be included in “by date” selection)
- Exports can be filtered on date, and by that keep export/import data size down, resulting in faster exports/imports.
- Copying data to Test Tenant “by date”, export/import for example latest six month of data (or date range selection needed for task to be done in target Tenant).

Export BE data zip "multi part" support (2022.10)

Description

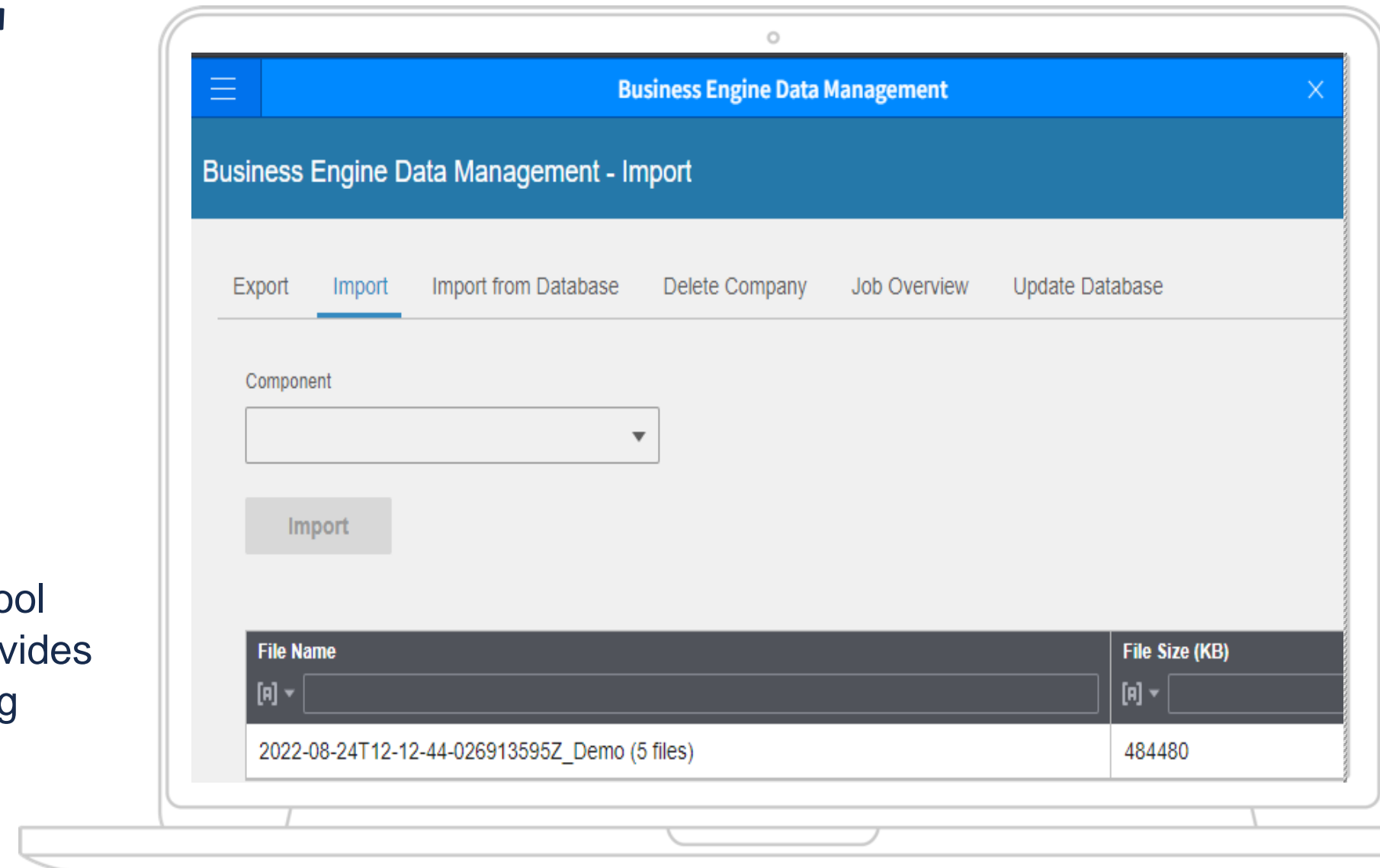
- Large Exports done via the Business Engine Data Management Admin tool, will now be divided into multiple files (suffix .dct and .dctmeta)

Benefit/Value-to-Customer

- Instead of creating one very big zip file, the Export tool now create several smaller files (max 4GB), this provides better user experience while Exporting and Importing data

Use Case

- The “multi part” behavior is default, and the tool will automatically handle “multi part” creation if needed



Export BE data zip "multi part" support (2022.10)

Description

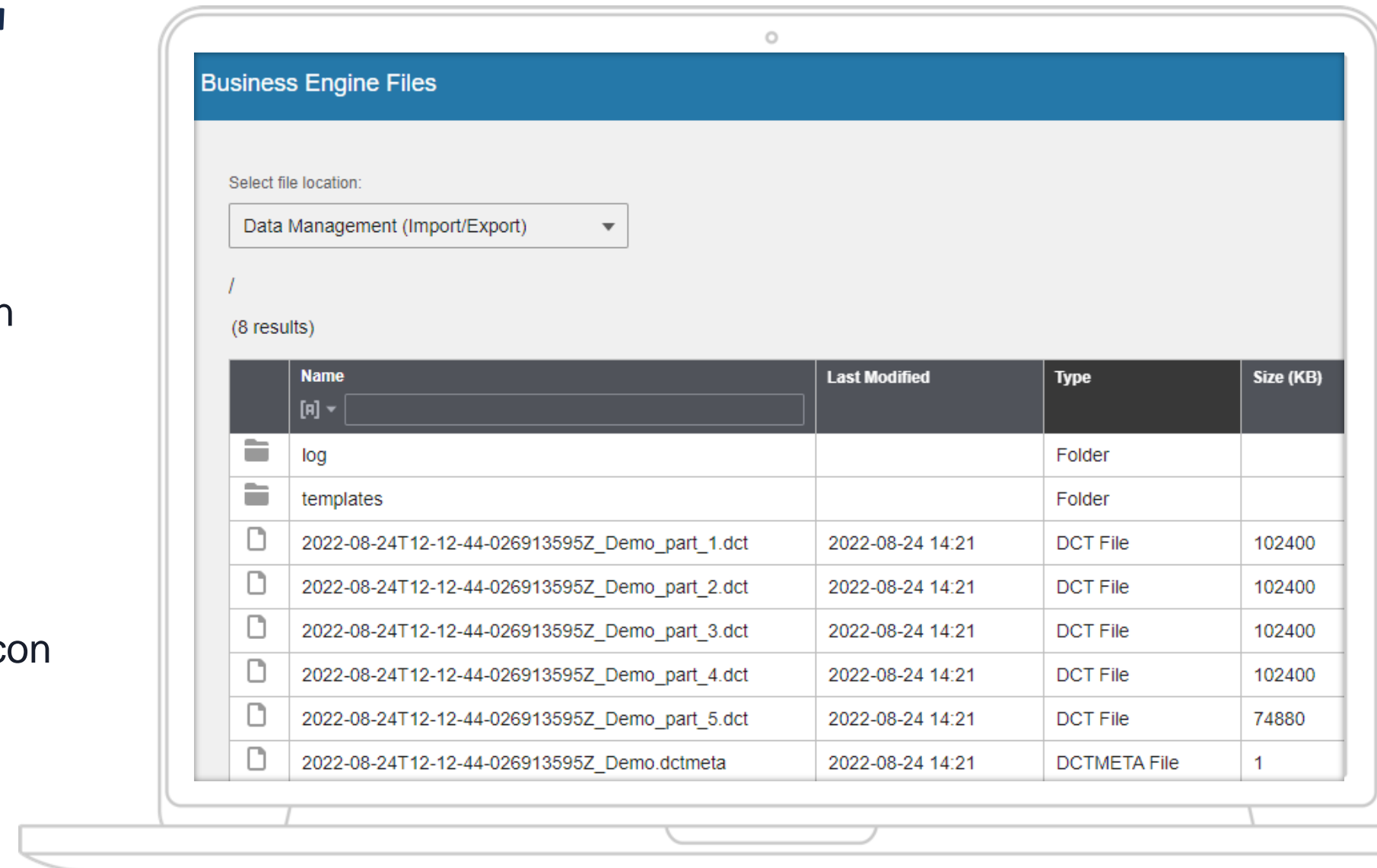
- The Business Engine Files Admin tool has also been updated to support the Export data “multi part” files scenario

Benefit/Value-to-Customer

- Click one “multi part” file and all in-going files will be selected, if a file is missing from selection warning icon will be shown, also progress feedback has been enhanced

Use Case

- Business Engine Files is used to download/upload files for a Tenant, the enhancements help user with right selection for “multi part” files



BE Data Management Update Database

Business Engine Data Management - Update Database

Export Import Delete Company Update Database

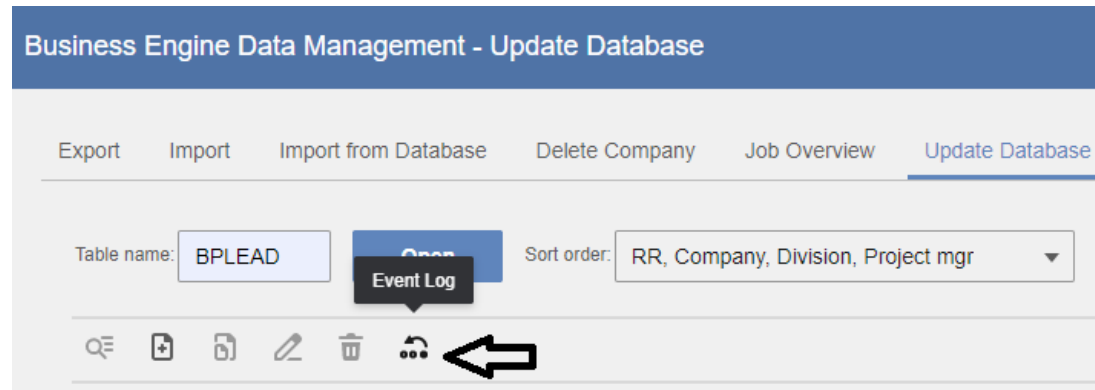
1 Table name: ODCHRG Open 2 Sort order: 00, Company, Charge 4

3

Company	Charge	Division	Internal charge	Debit frequency	Acc control obj	Description	Charge	Calc method
90	FC001		0	0		Freight charge example	0.0	0
90	Y0001		0	0	CHGFRT	Transport charge example	50.0	0
790	FC001		0	0		Freight charge example	0.0	0
790	HL001		0	0	CHGFRT	Demo charge example	50.0	0
790	Y0001		0	0	CHGFRT	Transport charge example	50.0	0

- Using the “Update Database” UI tab it is possible to enter a “Table name” (1) and view data in table
- The data is read via the M3 Foundation database layer (but not via M3 BE business logic).
- The list with data is sorted based on selected “Sort order” in drop-down list (2). The list is populated with available indexes for the selected table.
- It is possible to position on fields in selected sort order/index (3).
- A user with the role *M3BE-DBAdmin* can update data, a user the role *M3BE-DBViewer* can view data

Update Database Event log (2022.09)



- Event log button added in menu
- If there has been any changes done to a M3BE table using the Update Database tool, then it will show in the Event log
- User is on EUID format, actual M3BE user can be looked up via table CMNUSR (“User name” will be added 2023.05)
- State before and state after are on table record format

Business Engine Data Management - Update Database

Export Import Import from Database Delete Company Job Overview Update Database

Table name: BPLEAD **Open** Sort order: RR, Company, Division, Project mgr

Log

Timestamp	User	Description	State before	State after
2022-12-02 09:45:32	b489fe9e-9cc4-492b-9e4b-735c336ab330	Added record to tenant database		[720, AAA, FWIBERG, Fabian Wiberg, Fabian Wiberg, , 0, , 0, 20220615, 113030, 20220901, 6, FWIBERG]
2022-09-19 11:09:13	d41cddd2-b60b-4060-8691-3304438a8ddd	Updated record in tenant database	[720, AAA, HLUNDH, Hakan Lundh, Hakan Lundh, , 0, , 0, 20220615, 113030, 20220901, 6, HLUNDH]	[720, AAA, HLUNDH, Hakan Lundhh, Hakan Lundh, , 0, , 0, 20220615, 113030, 20220901, 6, HLUNDH]

M3 Function search(M3FS)

M3 FS Administration

The screenshot shows the 'M3 Function Search Administration' interface. At the top, there are three tabs: 'M3 Function Search Administration', 'Item. Open', and 'Business Engine Jobs'. Below the tabs is a 'Search' header. Underneath, there is a status bar indicating '0 Selected' and three action buttons: 'Activate table(s)', 'Deactivate table(s)', and 'Refresh'. The main content is a table with the following columns: 'Table name', 'Searchable', 'Activation status', 'Index load status', 'Index load start time', 'Index load end time', and 'Mandatory date limited'. The table contains 12 rows of data, each representing a different table configuration.

<input type="checkbox"/>	Table name	Searchable	Activation status	Index load status	Index load start time	Index load end time	Mandatory date limited
<input type="checkbox"/>	ACLHED	TRUE	ACTIVE	DONE	9/24/2021 16:29:13	9/24/2021 16:29:13	FALSE
<input type="checkbox"/>	ACLSPC	TRUE	ACTIVE	DONE	9/24/2021 16:29:13	9/24/2021 16:29:13	FALSE
<input type="checkbox"/>	ACLTP	TRUE	ACTIVE	DONE	9/24/2021 16:29:13	9/24/2021 16:29:13	FALSE
<input type="checkbox"/>	ACUAGD	TRUE	ACTIVE	DONE	9/24/2021 16:29:13	9/24/2021 16:29:13	FALSE
<input type="checkbox"/>	ACUAGH	TRUE	ACTIVE	DONE	9/22/2021 19:21:30	9/22/2021 19:21:38	FALSE
<input type="checkbox"/>	ACUAGL	TRUE	ACTIVE	DONE	9/22/2021 19:21:38	9/22/2021 19:21:38	FALSE
<input type="checkbox"/>	ACUAGR	TRUE	ACTIVE	DONE	9/22/2021 19:21:33	9/22/2021 19:21:38	FALSE
<input type="checkbox"/>	ACUAGT	TRUE	ACTIVE	DONE	9/22/2021 19:21:33	9/22/2021 19:21:38	FALSE
<input type="checkbox"/>	ACUASA	TRUE	ACTIVE	DONE	9/22/2021 19:21:38	9/22/2021 19:21:38	FALSE
<input type="checkbox"/>	ACUINV	TRUE	ACTIVE	DONE	9/22/2021 19:21:33	9/22/2021 19:21:38	FALSE
<input type="checkbox"/>	ACUIVH	TRUE	ACTIVE	DONE	9/22/2021 19:21:38	9/22/2021 19:21:38	FALSE

As part of modernizing the underlying technology for M3 Function Search an updated version was rolled out during 2nd half 2021, included in the update were an Admin UI change to follow latest Infor UI standards.

Admin Tools – BE Field Audit Trail

Business Engine Field Audit Trail

M3 BE Field Audit Trail

Current Audits (1 Result)

Status	Schema	Table	Description
<input type="radio"/>	MVXJDTA	CFACIL	Facility master

Page 1 of 1

New Edit Delete

History (changes to Audit settings)

[Show More](#)

Data (changes to Audit data)

Click on row to view details.

[Show More](#)

- The Field Audit Trail can be used to set up audits of data changes made to specific BE database fields.
- The Field Audit Trail enables you to keep track of when the changes were made, what the previous value was prior to the change, and which user made the change.
- Note that Field Audit Trail should be used for Audit purpose, to detect changes to data there are other functions (like Event Hub)
- Role needed is *M3BE-FATAAdmin*

FAT Synch to Data lake (2023.03)

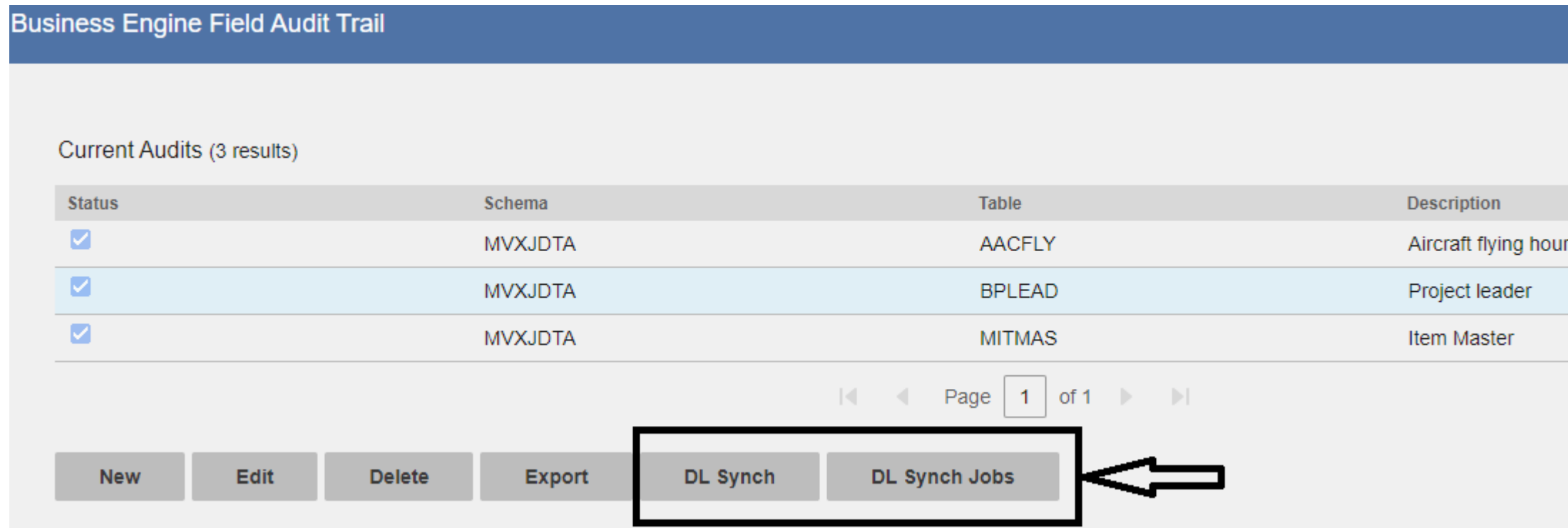
Business Engine Field Audit Trail

Current Audits (3 results)

Status	Schema	Table	Description
<input checked="" type="checkbox"/>	MVXJDTA	AACFLY	Aircraft flying hours
<input checked="" type="checkbox"/>	MVXJDTA	BPLEAD	Project leader
<input checked="" type="checkbox"/>	MVXJDTA	MITMAS	Item Master

Page 1 of 1

New Edit Delete Export **DL Synch** **DL Synch Jobs**



Two new buttons added to the FAT Admin UI

- DL Synch – will move FAT data for the selected table to DL (no FAT data is deleted)
 - The tool keep track of what data already been synched, so only new data will be synched 2nd time
 - Note that data from the FAT schema will be synched which contain historical changes, current value reside in standard M3BE Table
- DL Synch Jobs – Show list with performed synch jobs with info on who did the synch, table date/time, status, nr records and log info

FAT Synch to Data Lake

The screenshot shows the Compass tool interface. On the left is a navigation pane with a search bar and a list of 12 objects, including CSLGHN, FAT_AACFLY, FAT_BPLEAD, FAT_CMNUSR, FAT_CSYTAB, FAT_MACHEA, FAT_METADATA, FAT_MITMAS, MSYTXH, MSYTXL, OSBSTD, and QQTMIT. The main area displays a SQL query in a text editor with a 'Run query' button. The query is:

```

1 SELECT
2   "FAT_BPLEAD"."CHID",
3   "FAT_BPLEAD"."OPER",
4   "FAT_BPLEAD"."CRDT",
5   "FAT_BPLEAD"."CRTM",
6   "FAT_BPLEAD"."LDCONO",
7   "FAT_BPLEAD"."LDDIVI",
8   "FAT_BPLEAD"."LDPLEA",
9   "FAT_BPLEAD"."LDTX40",
10  "FAT_BPLEAD"."LDTX15",
11  "FAT_BPLEAD"."LDUSID",
12  "FAT_BPLEAD"."LDRECM",
13  "FAT_BPLEAD"."LDTXID"
14 FROM
15   "FAT_BPLEAD"
16

```

Below the query editor, the results are displayed in a table. The table has 7 rows and 7 columns: CHID, OPER, CRDT, CRTM, LDCONO, and LDDIVI. The first three rows are visible:

	CHID	OPER	CRDT	CRTM	LDCONO	LDDIVI
1	HLUNDH	U	20230111	73928	720	AAA
2	HLUNDH	U	20230117	74354	720	AAA
3	FWIBERG	I	20230109	144821	780	AAA

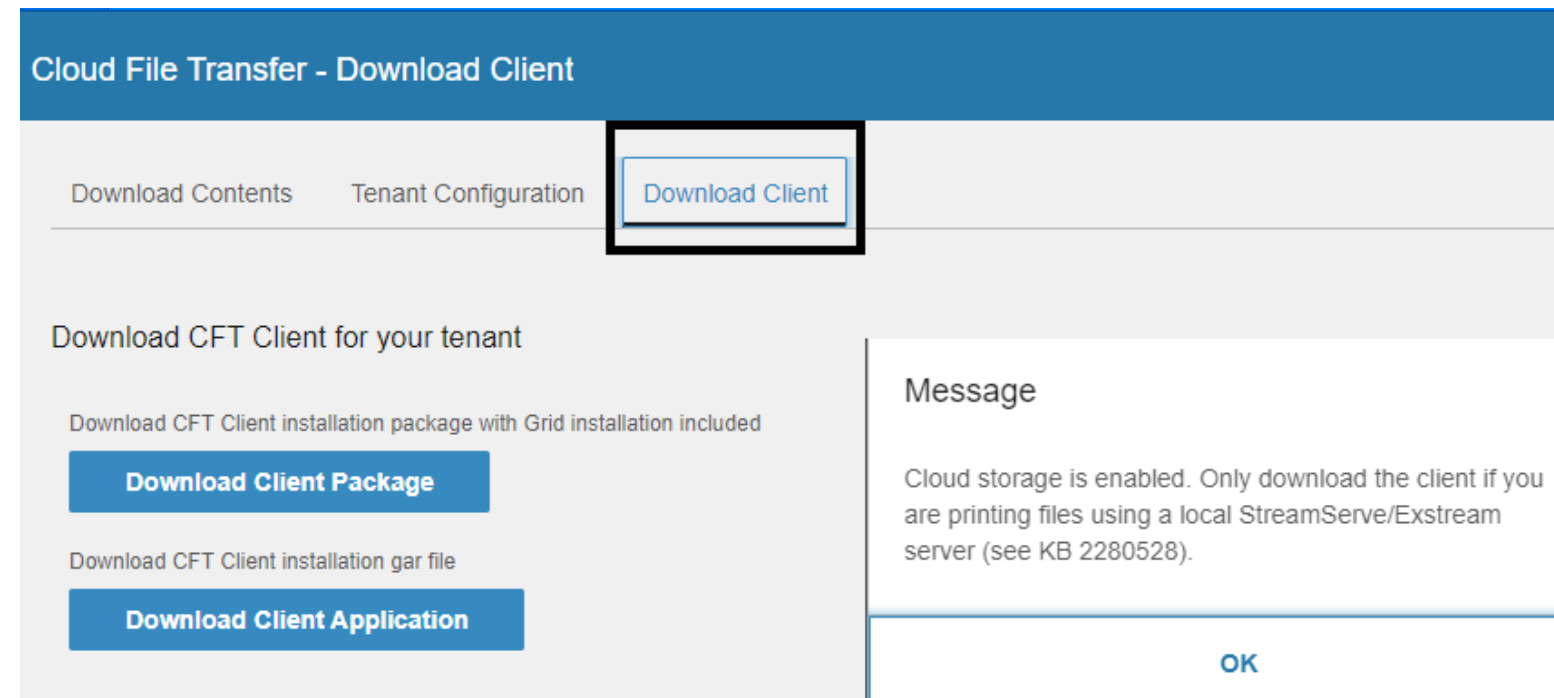
- Example query for FAT_BPLEAD, that only include columns where FAT auditing has been enabled
- See attachment on KB 2278818 for additional information

Infor M3 Cloud File Transfer (CFT)

- CFT is a client-server component for transferring files between Infor M3 CE and a tenant's private area
 - CFT should be installed on local server
- Print files, M3-exported and imported files, configuration data, and private content files from tenants are transferred by CFT

CFT Store BE Files in Cloud (2023.03)

- CFT Client will no longer be used to store BE Files, instead they will be stored in Cloud
- Retention policy for the files will be 30 days
 - Log files 100 days
 - Export BE Data Templates will be kept permanently
- Roll out in two steps
 - First step is for new Tenants that are created (auto configured)
 - Second step will be for existing customers (Tenant initiated switch)
- Note that CFT Client will still be used for printing to local Stream Server
- 2023.05 – Message added if Cloud storage is configured



Cloud File Transfer - Download Client

Download Contents Tenant Configuration **Download Client**

Download CFT Client for your tenant

Download CFT Client installation package with Grid installation included

Download Client Package

Download CFT Client installation gar file

Download Client Application

Message

Cloud storage is enabled. Only download the client if you are printing files using a local StreamServe/Exstream server (see KB 2280528).

OK

M3 Metadata Publisher

The screenshot displays the M3 Metadata Publisher 10.2.0 interface. On the left is a navigation sidebar with 'M3 Metadata Publisher' highlighted. The main content area shows search filters: 'Keywords: OIS010', 'Select MDP BE System: M3BE_16.0_MVX', and 'Select Entity: Program (checked), Table (checked)'. The search results section shows 'Keyword: 'OIS010' | Search by System Configuration in: 'M3BE_16.0_MVX'' and a table with two results:

Program Name	Description	Component	Category	Bookmark	Bookmark Pa...	Source Code
OIS010	Wrk: Customer Order Types	MVX	Wrk	Yes	No	
OIS010MI	Api: Order type interface	MVX	Api	No	No	

- MDP search is done by input in the "Keywords" field, search scope can be controlled selecting Entity types, in example search is done for Programs and tables
- There are also several additional search options/filters available under "More Options"

MDP Search MI Fields (2023.02)

Infor M3
Start Typing
Hakan Lundh

M3 Metadata Publisher

Search
M3 API Repository
M3 Function
Settings

Search MI Fields

Program Name:

Program Description:

Field Name:

Field Description:

Transaction Type:

Search

Search Result ×

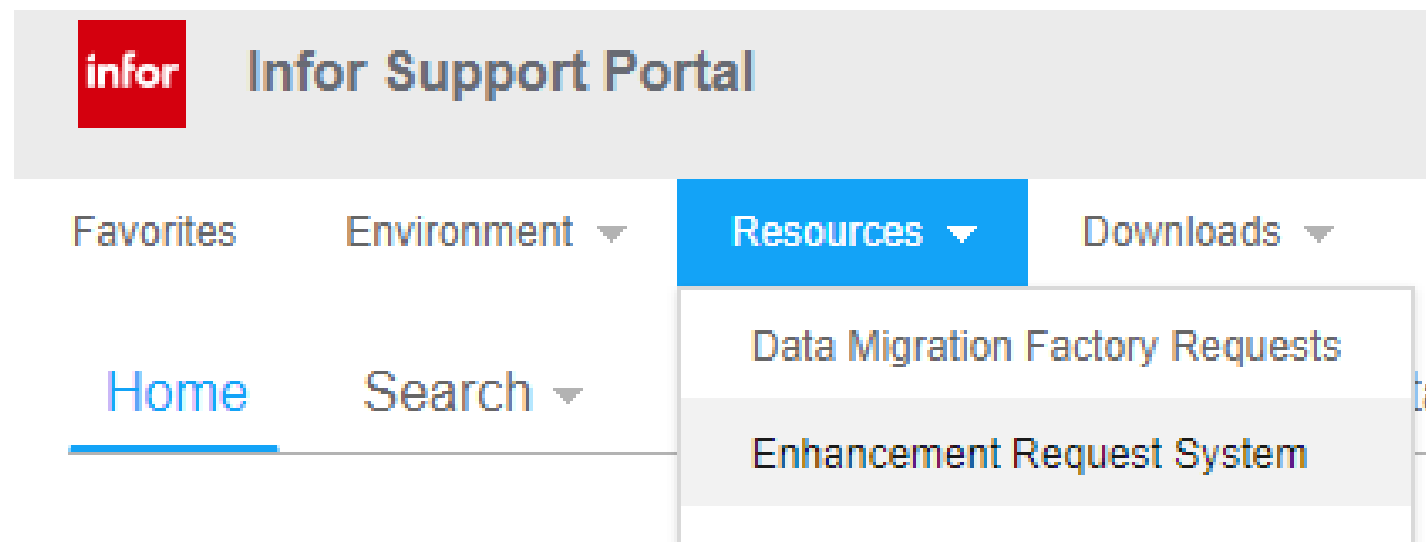
Program Name: " | Program Description: " | Field Name: " | Field Description: 'currency' | Transaction Type: 'I'

MI Field (512)

Program Name	Program Description	Component	Transaction Name...	Transaction Type	Field Name	Field Description	Mandatory	Field From	Field To	Field Length	Field Type
ABS100MI	Bank statement	MVX	AddStatmtHead	I	CUCD	Currency code	1	78	80	3	A
ABS100MI	Bank statement	MVX	AddStatmtHead	I	BSOB	Opening balance (Currency)		81	97	17	N
ABS100MI	Bank statement	MVX	AddStatmtHead	I	BSCB	Closing balance (Currency)		108	124	17	N
ABS100MI	Bank statement	MVX	AddStatmtHead	I	BSTD	Total amount - Debit (Currency)		135	151	17	N
ABS100MI	Bank statement	MVX	AddStatmtHead	I	BSTC	Total amount - Credit (Currency)		152	168	17	N
ABS100MI	Bank statement	MVX	AddStatmtLine	I	CUCD	Currency code		33	35	3	A
ABS100MI	Bank statement	MVX	UpdStatmtHead	I	BSCB	Closing balance (Currency)		40	56	17	N
ABS100MI	Bank statement	MVX	UpdStatmtHead	I	BSTD	Total amount - Debit (Currency)		67	83	17	N
ABS100MI	Bank statement	MVX	UpdStatmtHead	I	BSTC	Total amount - Credit (Currency)		84	100	17	N
ABS100MI	Bank statement	MVX	UpdStatmtLine	I	CUCD	Currency code		51	53	3	A
ABS181MI	Bank stmn reconc line interface	MVX	Add	I	CUAM	Foreign currency amount	1	119	135	17	N
ABS181MI	Bank stmn reconc line interface	MVX	Upd	I	CUAM	Foreign currency amount	1	119	135	17	N
AGS100MI	Financial Agreement	MVX	AddFinAgr	I	CUCD	Currency		138	140	3	A

Enhancement Request System

Add enhancement requests via ER function in support.infor.com



Questions?

Thank you

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