Notes for IQ4BUS

Thursday, November 10, 2022   10:40 AM

6 modules are rolled out for production and 2 are in Q

React-oat
Merging the INT and PROD means
CVDS end to end process
What is tS3 to Azure migration
PDA
Production Defects will be tracked in
DRAW.IO needs to be explored for documentation

Production:
1. Production Network
2. Factory Visulation
3. Vehicle control
4. Scanning Agg
5. WLCC

DHC(Cass to Azure)
New JIRA URL for IQ4BUS :
https://jir.t3.daimlertruck.com/login.jsp?os_destination=%2Fsecure%2FRapidBoard.jspa%3FrapidView%3D70735%26projectKey%3DDFLDTICI

GIT HUB access for old git : https://git.daimler.com/evobus
GIT HUB access for new git: https://git.t3.daimlertruck.com/
T3 GIT Token : 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

Quality APPS

1. PDA-Migration is in progress (PDA admin & PDA Operator)
2. Defect Recording & rework - migration is in progress
3. 8D Analysis
4. KPI Moniterning
5. I4Q bonding (IOT)

Below are the DB credentials. Even though it says "dev", these are the production ones.

Factory Visualization:-
```
DB name - factory-visualization-dev
Server name - sevoa011247.bus.corpintra.net:5432
Username - postgres
Password - P0$tgres@dm1n
```

Production Network:-
```
DB name - evobus-dev
Server name - sevoa011247.bus.corpintra.net:5432
Username - postgres
Password - P0$tgres@dm1n
```

 iq4-prod-db
ip: 53.6.44.50
port: 64000:40663
user: postgres
psd: Acngh7n8HsDaFTvT

qfl3-prod-db
ip: 53.6.40.52
port: 64000/35138
user: postgres
psd: (@T26m?+m~*hn>~5fLzw

iq4-dev-db
ip: 53.6.40.113

port: 64000
user: postgres
psd: Acngh7n8HsDaFTvT

iq4-int-db
ip: 53.6.40.96
port: 64000
user: postgres
psd: P0@dm1n

qfl3-int-db
ip: 53.6.41.126
port: 64000
user: postgres
psd: bA}fY=]Xbn{F"BmK7LF*

qfl3-dev
53.6.43.253
username : postgres
password: aV2LBm"T7~DYV:R=-;]E
Read-only user created for CDC (Corporate Data Catalogue) from iq4-dev-Db
User: cdciq4user
Psd: iq46ucduer

Azure DEV07
dflbus-flex-db-dev07.postgres.database.azure.com
username:postgres
password:5-xkxuL864JwM5g

Please install Winscp & Putty in your machines so that you can access the VM's. Also, note that if you
input incorrect password four times consecutively, the account gets locked.

Hostnames:-
sevoa011247.bus.corpintra.net
sevoa011248.bus.corpintra.net
sevoa011249.bus.corpintra.net

Username - eevo_011_a_rkazaro
Password - NdWe<xM/PIC6Wod

Regards,
Vivek

Application URL PDA
Defect Recording and Rework : https://dfl-bus-dev.app.corpintra.net/iq4busui/
PDA Operator : https://iq4bus-int.dflbus.cloud.tbintra.net/iq4app/
PDA Admin : https://iq4bus-dev.dflbus.cloud.tbintra.net/iq4buspdaui/

meisterei_email_costcenter - Where email address was configured

IQ4-3773-Option to select all customer name and order vice versa

https://phoenixnap.com/kb/install-maven-windows

Adding Checkpoint

API called during check point creation

https://iq4bus-int.dflbus.cloud.tbintra.net/iq4masterconfig/pdaCheckPoint/saveModifyMain

https://iq4bus-int.dflbus.cloud.tbintra.net/iq4masterconfig/pdaCheckPoint/saveDescription

https://iq4bus-int.dflbus.cloud.tbintra.net/iq4masterconfig/pdaCheckPoint/saveImage/hramuga/13641/HAND1

https://iq4bus-int.dflbus.cloud.tbintra.net/iq4masterconfig/pdaCheckPoint/saveBaumusterNumber/hramuga/13641?baumusterNumber=C63338113,C63338213,C63338313,C63339113,C63339213,C63339613

https://iq4bus-int.dflbus.cloud.tbintra.net/iq4masterconfig/pdaCheckPoint/getBaumusterConfig/13641

https://iq4bus-int.dflbus.cloud.tbintra.net/iq4masterconfig/pdaCheckPoint/saveWorkplaceContent

https://iq4bus-int.dflbus.cloud.tbintra.net/iq4masterconfig/pdaCheckPoint/getContent/0

Migration API
https://iq4bus-int.dflbus.cloud.tbintra.net/iq4masterconfig /iq4/upload/pdaMigrationExcel

/saveModifyMain
Master table will be called as part of saveModifyMain check short ID exists .
select email_id from master_user where short_id=?1 limit 1
Check PDA ID exists in pda_checkpoint_config table
/saveDescription
Check email exists in   master_user
Check in PDACheckpointDescriptionEntity using getCheckpointConfigId()

Share drive

\EMEA.CORPDIR.NET\EEVO\SHAREDDATA\EEVO_011-7303540\QS_Listdruck_MMO\IQ4Bus\
Username : E152_s_shareddata
Password : NPU7ArAiGCX|JQ8Y3RrM

API functionality for masterConfig

```
-- finalFinishCheck API checks the follwoing condition
select distinct validate_rk2,area_id,group_name,hierarchy_code
from iq4.master_workplace_group_view  where
group_name in ('Final Finish') or hierarchy_code in ('Final Finish')
```

Link for implementing the Data base partition :   PostgreSQL: Documentation: 9.0: Partitioning
https://www.youtube.com/watch?v=edQZauVU-ws

PDA check point id is 14624 for PDA ID

select * from iq4.pda_checkpoint_geometry limit 100
select * from iq4.master_language where language ='FRENCH'
select * from iq4.pda_checkpoint_config where pda_id in (19240) and pda_version ('1')
select * from iq4.baumuster_number where baumuster_number in ('C628405135')

select * From iq4.master_baumuster where baumuster_group ilike ('C2 Step 3 kurz')

Select * from iq4.config_baumuster_checkpoint

PDA Points

Figma

Get the areaID from
select distinct pda_checkpoint_config.area_id as areaId from master_area inner join pda_checkpoint_config on master_area.area_id=pda_checkpoint_config.area_id where master_area.area_name ilike = ''

select distinct pda_checkpoint_config.area_id as areaId from master_plant inner join master_area on master_plant.plant_id=master_area.plant_id inner join pda_checkpoint_config on master_area.area_id=pda_checkpoint_config.area_id where concat(master_plant.plant_code,'-',master_plant.plant_name) ilike ?1

select distinct pda_checkpoint_config.pda_checkpoint_id as pdaCheckpointId from pda_checkpoint_config

Index Requirement for PDA Points screen
Table Names
pda_checkpoint_config
master_area
master_plant
master_language
pda_checkpoint_description
pda_checkpoint_material
pda_checkpoint_customer
pda_checkpoint_baumuster
baumuster_number

Operator Login

Input Hierarhcylist as input and add the group name as work place to operator work place
select distinct group_name from master_workplace_group inner join master_hierarchy on master_workplace_group.hierarchy_id=master_hierarchy.hierarchy_id where hierarchy_code in ()

If size of the operator work place is one in then below query will

select distinct group_id, group_name, quality_loop, workplace_type, remember_login_info, validate_rk2, area_id from master_workplace_group_view where group_name in (Operator List)

ValidatePDaMaterial

BB number material master table should have valid material or material should not

We need to display the PDA check point those are configured after login

03/21 for BB Number BB6283312575 20 check points with 5 operator, each has 4 check point (OP1,OP2,OP3)
3 Operator is logged then 12 check point will be in release check point table.
2 operator is not logged ie OP4 and OP5)
03/22 for BB Number BB6283312575 will add 5 more check points for 1 operator ie OP6).

While generating FF PDF what is the expected check point count ?
~~25 check point should be added to PDF and~~ 25 check point should be displayed in operator app ,except OK check point for final finish operator .

Need to display the message the to user when they log in with final finish even though check point are okay. This needs a UI and back end change. Automatically redirect to log out screen.

"KTL-Schleifen"
"Kleinteile"
"Füller-Schleifen"
"Decklack"
"Motiv"

Andon Email

To check sequence
select group_id, group_name from iq4.master_workplace_group where group_name in('1B192002', '4QOKARD1') -- 179,219
select object_id,group_id from iq4.master_workplace where group_id in(179, 219) --10004437, 10004235
select object_id,sequence_number from iq4.master_workplace_sequence where object_id in('10004437','10004235')
-- 4200, 6888

And if you have checkpoint_id, then use this single query:
with temp as (select workplace_code, group_id, object_id from iq4.master_workplace

where group_id in (select hand1_group_id from iq4.pda_checkpoint_workplace where pda_checkpoint_id=23613))
select distinct a.*, b.sequence_number from temp a, iq4.master_workplace_sequence b
where b.object_id = a.object_id
order by b.sequence_number desc

Final Finish

```
--- Check the satus of open check point other than RK2 and return true
select checkpoint_status,bb_number,validate_rk2,creation_time,qfl_type  from iq4.released_checkpoint
where bb_number in ('BB6286410288')
and checkpoint_status in ('OPEN','NOK','MISSINGPART')
and validate_rk2 is true

update iq4.released_checkpoint set visible =false,
             ok_by='IQ4SCRUB',
             modified_user = 'IQ4SCRUB',
             checkpoint_status = 'OK',
            modified_time = NOW()
where released_checkpoint_id in (select released_checkpoint_id from iq4.released_checkpoint
            where bb_number in ('BB6286410288')
            and checkpoint_status in ('OPEN','NOK','MISSINGPART')
             and validate_rk2 is true) RETURNING *


select * from iq4.released_checkpoint where bb_number in ('BB6280356172')
select * from iq4.final_finish_archive_log
--order by modified_time desc
where bb_number in ('BB6286410288')


INSERT INTO iq4.final_finish_archive_log
(final_finish_archive_id,created_user,creation_time,modified_time,modified_user,obsolete_status,transfer_fl
ag,bb_number,final_finish_operator,final_finish_print_time)
VALUES(DEFAULT,'IQ4SCRUB',NOW(),NOW(),'IQ4SCRUB',false,0,'BB6286410288','IQ4SCRUB',null) returning *

select * From iq4.final_finish_archive_log
where final_finish_print_time is null
order by modified_time desc limit 3

update iq4.final_finish_archive_log set final_finish_print_time=current_date where bb_number in
('BB6333915827','') returning *
and created_user != 'IQ4SCRUB'
```

US -IQ4-1277

Thursday, May 4, 2023   2:36 PM

https://iq4bus-dev.dflbus.cloud.tbintra.net/iq4masterconfig/pdaCheckPoint/saveModifyMain

https://iq4bus-dev.dflbus.cloud.tbintra.net/iq4masterconfig/pdaCheckPoint/saveBaumusterGeometry/shrivsh/19346/581/587/593

Arbeitsplatzhierarchie -- Copied to IQ4BUS folder by 21.05 PM CEST - B22 Turkey

Ahrzeugdurchlauf--Copied to IQ4BUS folder by 21.05 PM CEST - B22 Turkey

L22 all 4 files comes to comes to Iq4BUS - -- 22.35

Order Number Split data
BB Numbers are-
     BB6280390600   -4 check points
     BB6280390601
     BB6280390602
     BB6280390603
     BB6280390604
     BB6280390605
     Order Number- 28193257

     After split -
     Bb number-
     "BB6280390603" - 3 check point was displayed , one check point with customer specific is missing
     "BB6280390604"
     "BB6280390605"

     split to different order -28193254
     PDA Id - 26054 ver 3 (with customer details

     group id 81

     PDA check point id 28789 ,28791

     Area id 6

     PDA check point :28792 associated PDA iD is
     28790

     28789

ABC	28193257	Planning	BB 1 to 5
ABC	28193254	Planning	BB4 and BB5
ABC	28193254	Active	BB4 and BB5

Open check point work place logic

1) Check work place belongs OPEN CHECKPOINT

select distinct group_id, group_name, quality_loop, workplace_type, remember_login_info, validate_rk2, area_id from iq4.master_workplace_group_view where group_name in ?1

2) Less Sequence then the current operator.

select group_name from iq4.master_workplace_group where group_id in (select group_id from iq4.master_config_view where object_id in (select object_id from iq4.master_workplace_sequence

where sequence_number<=(select sequence_number from iq4.master_workplace_sequence where object_id in

(select object_id from iq4.master_workplace where group_id=781) and plant_code=(select plant_code from iq4.master_workplace_group_view where group_id=781) limit 1) and plant_code=(select plant_code from iq4.master_workplace_group_view where group_id=781)) and group_id is not null and area_id=(select distinct area_id from iq4.master_workplace_group_view where group_id=781 limit 1))

3) Get workplace, sequence

select distinct a.group_name,a.workplace_type,b.plant_name,c.sequence_number from iq4.master_workplace_group a,iq4.master_config_view b,iq4.master_workplace_sequence c

where a.hierarchy_id = b.hierarchy_id and a.workplace_type in ('OPEN CHECKPOINT','STANDARD')

and b.object_id =c.object_id order by 4 desc

URL

Friday, August 11, 2023   8:34 AM

https://iq4bus-dev.dflbus.cloud.tbintra.net/iq4buspdaui/

JIRA URL:IQ4Bus Board - Agile Board - T3 Jira (daimlertruck.com)

FINAL Archive log - Base table
1 to 1000 BB numbers and it is dynamic . Will grow on daily basis.
1 week can have 5 numbers or 0 or more.
Take those BB Number as a input to RCT extract the data from release check point .
It has 6 child tables . You need to extract the associated rows from child tables.

5 BB numbers extracted , 4 written 1 might have failed.
You need read the file and get unique bb number it this scenario it is 4
RCT
1000 BB numbers , 5 BB Numbers u got from FINAL finish Archive log - Base table
1 failed and 4 success that means u need to store only 4 BB Numbers in new table for marked for deletion with deletion indicator as Y.

Go to new table extract the BB Numbers those marked as Y and perform delete . After successful deletion marked deleted flag to Y

1
2
3
4

MARKED DLETION Y
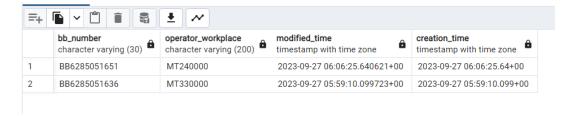
Save BB Number to PDA Customer details table

Monday, September 11, 2023   5:03 PM

Test Data
Customer Name - "Adam Pfahler GmbH & Co. KG" - 4 Orders "

28175880 - BB6285051426
28192490 - BB6285051636
28197936 - BB6285051651 - Assigned this only to the checkpoint
28205625 - BB6282352154

TC1 - Created checkpoint 26109 and 26110
Customer order - Selected order number 28197936 and BB number BB6285051651 instead of "All" . There was only this bb number.

Logged in with -BB6285051651 - both checkpoints are showing. **As Expected**
Logged in with BB6285051426 - No checkpoints ~~Asa Expected~~
Logged in with BB6282352154 - No checkpoints ~~As Expected~~

TC2 - Created checkpoint 26111 and 26112
Customer Name -> order number - selected 28197936 -> showing only one bb number i.e. BB6285051651 -> Selected "ALL"

Logged in with -BB6285051651 - both checkpoints are showing.**As Expected**
Logged in with BB6285051426 - both checkpoints are showing. **Failed :**
Logged in with BB6285051636 - both checkpoints are showing. **Failed :**
Logged in with BB6282352154 - No checkpoints ~~As Expected~~

TC1 - MT010000
TC2 - MT1001Q1

===
API to Save the data to
https://iq4bus-dev.dflbus.cloud.tbintra.net/iq4masterconfig/pdaCheckPoint/saveCustomer

```
{
 "bbNumber": "string",
 "checkpointConfigId": 0,
 "configUser": "string",
 "customerId": 0,
 "customerName": "string",
 "velosn": "string"
}
```
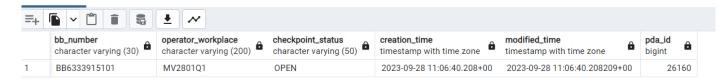
First checks PDA check point ID exists in PDACheckPointConfigTable using PDA check point ID

1) If the configured BB number is matching with logged in BB Number(ALL) and associated order #(All type) then operator should be able to view the check point for all bb number and order #.

2) If the configured BB number is matching with logged in BB Number then operator should be able to view the check point for specific bbNumber. If customer configured BB number is matching with Loggged in BB number then we will validate this against SAP system , if valid then we will move to next validiation that is order # validation

3) If BB number validation is passed then Order number (ALL) validates happens. If user is selected ALL OPTION from drop down in Admin screen . Will display the check point for any order for the associated BB number. If specific order# is selected then order # validation happens in SAP for the associated BB Number. Recent enhancement if Order# is not matched with SAP data then also continuing with displaying the check point.

4) After Order # validation , Customer name validation happens, if the configured customer name is matching with SAP customer name.

5) In case validation fails at point #1 i.e bbNumber then other validation captured in respective point numbers will be not be performed.

Test data 3 I see only below 2 BB numbers are logged in with different operator , Rest BB number was logged before yesterday.

	bb_number character varying (30)	operator_workplace character varying (200)	modified_time timestamp with time zone	creation_time timestamp with time zone
1	BB6285051651	MT240000	2023-09-27 06:06:25.640621+00	2023-09-27 06:06:25.64+00
2	BB6285051636	MT330000	2023-09-27 05:59:10.099723+00	2023-09-27 05:59:10.099+00

For test data 2 , I did log in with bbnumber BB6333915101 and operator work place MV2801Q1 and able to see the check point , please see the creation and modified time.

	bb_number character varying (30)	operator_workplace character varying (200)	checkpoint_status character varying (50)	creation_time timestamp with time zone	modified_time timestamp with time zone	pda_id bigint
1	BB6333915101	MV2801Q1	OPEN	2023-09-28 11:06:40.208+00	2023-09-28 11:06:40.208209+00	26160

Commit ID's that needs to merged to INT
3c2aa29f7b1b936a56fad0339a91d4409b9e5879 == 10/04
Ca5125550d6b8d99bc2ccc86fb41ade03e74d9c2 ==10/04
Ef5709b499425186850831d099f90bb104a293cc ==10/01
5686da74073df5309ca3a910db55cbe09c2a5630 ==10/01
64bd56c364424f9448b1eaee5f59ee05d09a7508 ==10/01

14c318daba21c7330bfd6cff6b6cbc71d79a639b = 10/01pagination fix

dd81ab346c4710620b493ae13d646d2b336896e8 = 09/2IQ4-3889 US log in API Changes- Done

c71ccac18aa5d6d638a0e3c2b3dbbb57bfca8da9 = 09/25 IQ4-3889 US log in API Changes- Done
85f9c17da927171cd2345118241d84d7982801b1 = 09/20 - Done
2cbf9b6e4d523a58fc8e8b4d2594e869e7113e01 = 09/20 -Done

Completed

Anuradha commit for HNAD2 code in INT revert
755d52c6bf084d0c6488c9067167b072cc286ac4

SAP

-- BB number sent to SAP

select distinct bb_number, assembly_plant_code from iq4.bus_sap_production_details
where reporting_point not in ('T7','S9','C70','8901')

select count(*) from iq4.bb_number_material_master where cast(modified_time as date) = current_date

select distinct bb_number, assembly_plant_code,zpra_planned_date from iq4.bus_sap_production_details
where reporting_point not in ('T7','S9','C70','8901')
--and current_date+10 =zpra_planned_date
and bb_number in ('BB4100101007', 'BB4101310049', 'BB4101410037')

-- for 5 days until we meed ZPRA date , Once ZPRA dates passes will ignore BB , Will run this process after plant production hour
-- If material is not configured then there shoudl be not be EBsync , Need to make change

select distinct bb_number, assembly_plant_code,zpra_planned_date from iq4.bus_sap_production_details
where
cast(zpra_planned_date as date)= current_date + 1

select count(bb_number),zpra_planned_date from iq4.bus_sap_production_details

where cast(zpra_planned_date as date)>= current_date group by zpra_planned_date order by 1 desc

select * from iq4.pda_checkpoint_material
where material_number in ('A6320048682','A6320088582','A6490008799','A6240012299','A6240012499')

Enhanced Query for US IQ4-4048
select distinct bb_number, assembly_plant_code,zpra_planned_date from iq4.bus_sap_production_details
where reporting_point not in ('T7','S9','C70','8901')
--and current_date+10=zpra_planned_date
and assembly_plant_code in (select plant_code from iq4.master_plant where plant_id in (select plant_id from iq4.master_area where eb_material_check is true))
and cast(zpra_planned_date as date) between current_date AND (current_date +5) order by 3 desc

Below tables are impacted when the SAP files are processed every day at 22.55 CEST

select * from iq4.bus_sap_production_details where cast(modified_time as date) = current_date

select * from iq4.master_baumuster where cast(modified_time as date) = current_date

select * from iq4.master_hierarchy where cast(modified_time as date) = current_date

select * from iq4.master_workplace_sequence where cast(modified_time as date) = current_date

validatePDAMaterial function needs to return true if material is configured and flag is set