

# Read Army Transition to Support

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## Objective of the BRMA (Billing Meter Readings Application)

The current Itron Enterprise Edition system (IEE) is FPL's Meter Data Management (MDM) solution for mass market (MM) accounts. IEE is used to house reads of ~ 5.5M meters and responsible to interface with CISII for billing of all FPL MM customers, generating ~ \$8B in revenues annually. IEE is a SOX compliant application. AC-31 is a project to replace IEE MM with a custom Cloud service solution to reduce ongoing O&M. For Load Research, a new application outside of this project will be developed to replace the current IEE feed and will get data from Data Warehouse/Data Lake that is fed from UIQ directly. The BMRA application consist of a front-end portal that interfaces with the cloud RDS database via Lambda API calls.

[PowerPoint Overview - MDM](#)

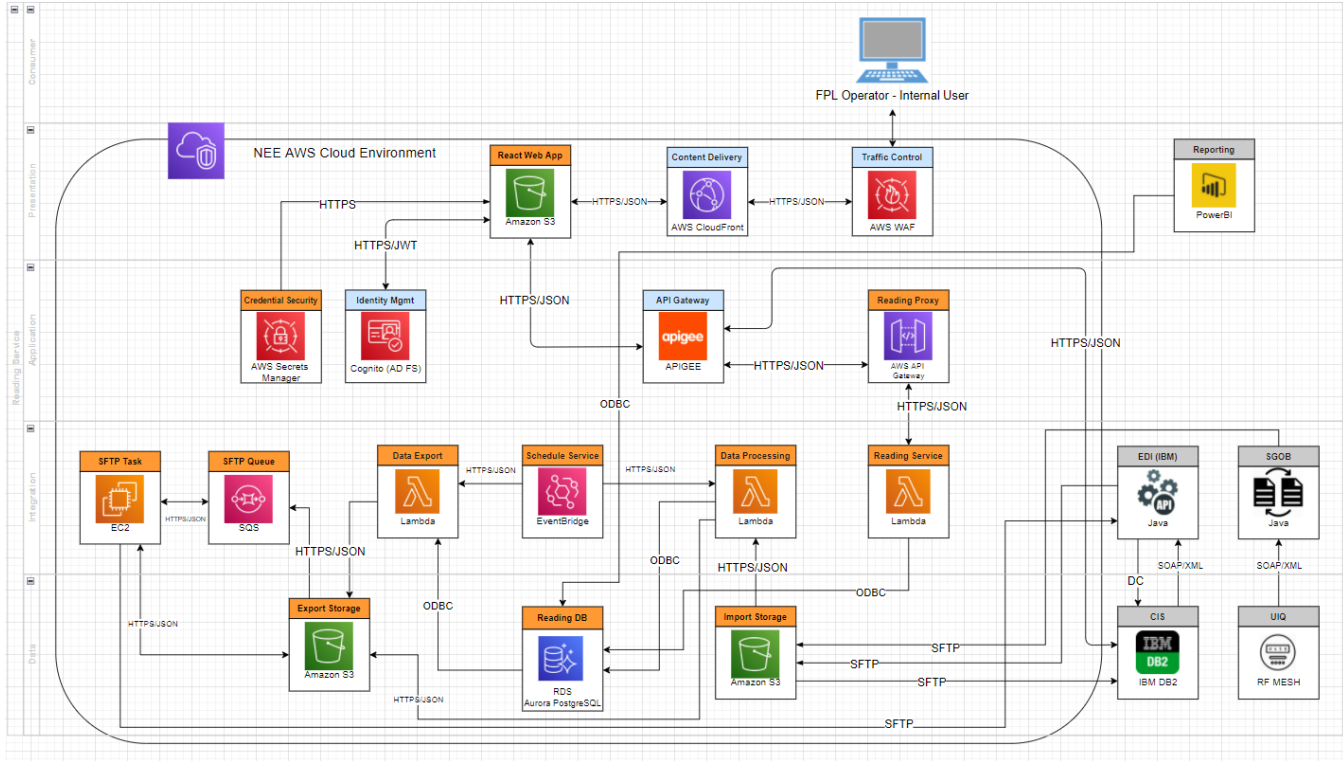
## Technology Stack

Web	ReactJS , ReduX ,Jest (Unit testing), Material-ui
Back-end /API	javaScript(NodeJs), Jest (Unit testing)
Cloud	Amazon S3, AWS CloudFront, AWS WAF, AWS Secrets Manager, AWS Cognito, AWS API Gateway, EC2, AWS SQS, AWS Lambda, Amazon EventBridge, SFTP Services, AWS RDS
Database	AWS Aurora PostgreSQL

## Architecture Diagram

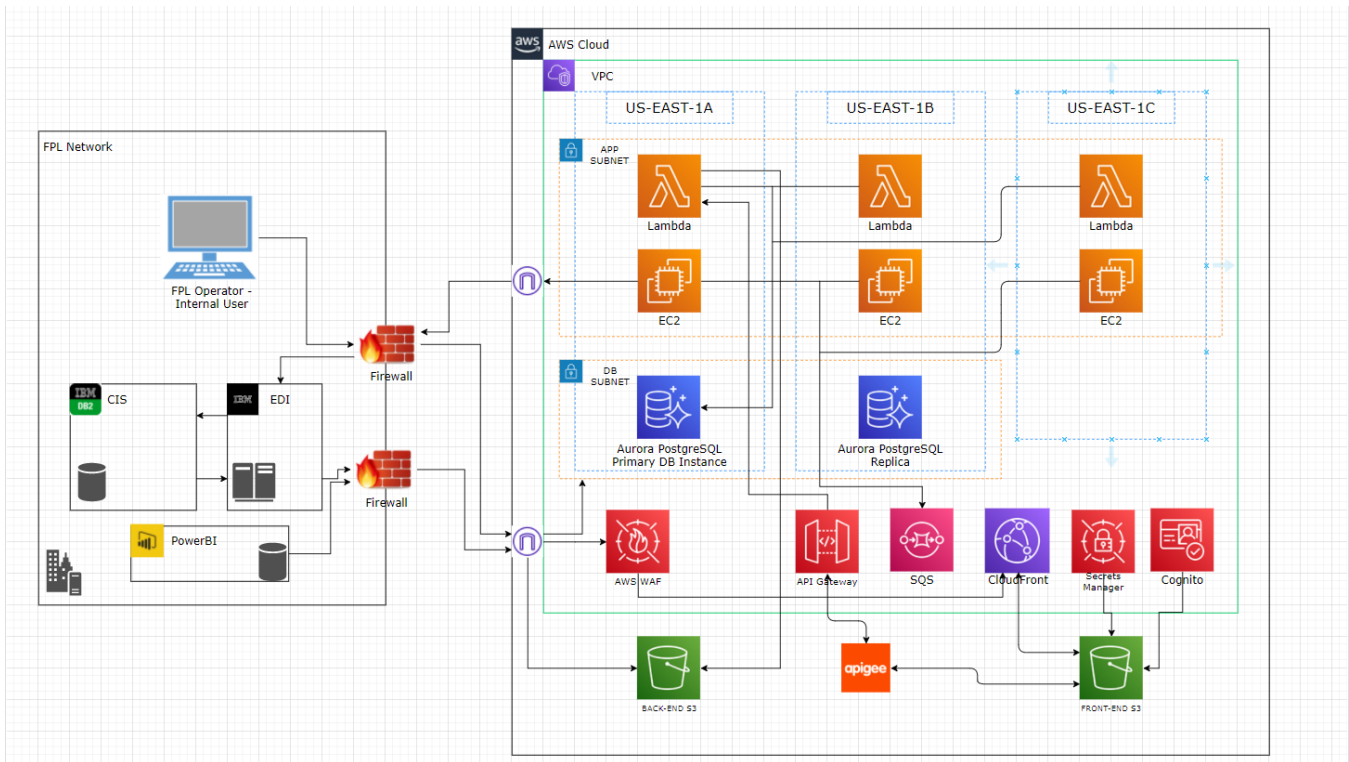
[IEE\\_MassMarketReplacement\\_AWS\\_v2.drawio](#)

Tool: Drawio

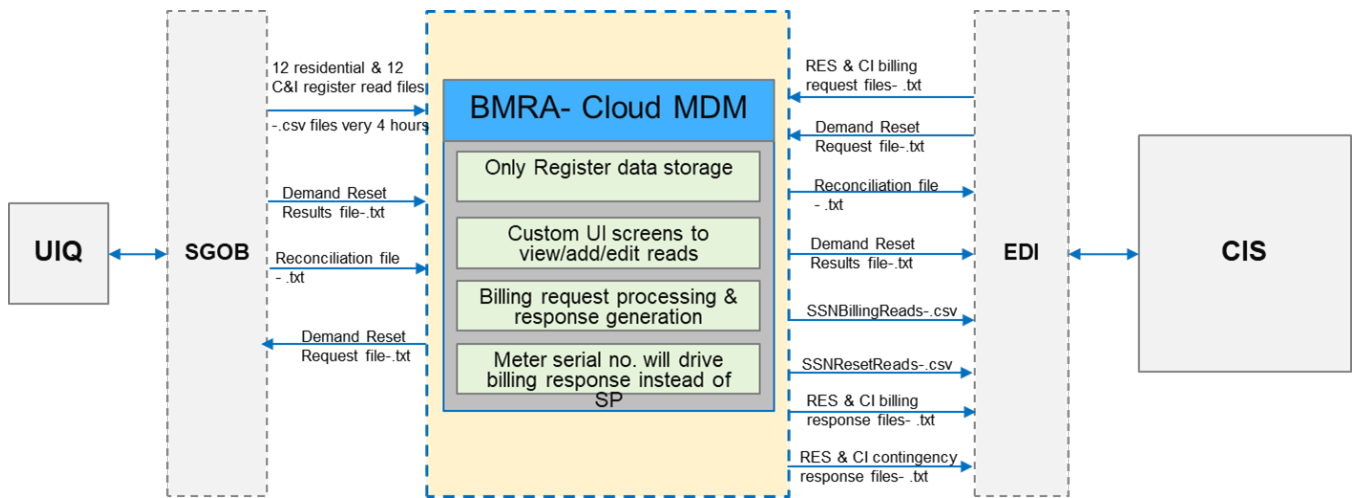


## Cloud Architecture Diagram

[IEE\\_MassMarketReplacement\\_AWS\\_AZ.drawio](#)



## Data Flow Diagram



## Data Model

Please refer to the attachment: BMRA\_MDM\_DB\_Schema\_Alternate\_Representation.pdf

read_catalog	
read_file_id	bigint
file_name	character
received_date	timestamp
external_system_id	smallint
created_by	character
status	character
file_type	character

read_catalog_stats	
read_file_id	bigint
total_meters	integer
total_reads	integer
passed_reads	integer
failed_reads	integer
reset_reads	integer
edited_reads	integer

register_reads	
read_file_id	bigint
meter_serial	character
channel_no	smallint
read_value	doubleprecision
read_time	timestamp
uom	character
gateway_collected_time	timestamp
source_validation	character
read_status_code	text

request_catalog	
request_id	bigint
external_system_id	smallint
file_name	character
request_type	character
cycle_id	character
received_date	timestamp
total_entities	integer
request_status	character
cycle_date	date

integrator_block	
request_id	bigint
h_record	text
z_record	text

integrator_record	
request_id	bigint
meter_serial	character
meter_num	character
meter_program	character
rate	character
a_record	text
b_record	text
c_record	text

integrator_record_response	
response_id	bigint
request_id	bigint
meter_serial	character
meter_num	character
meter_program	character
rate	character
a_record	text
b_record	text
c_record	text
is_processed	boolean
has_read	boolean
reset_read	boolean
all_read_check	character

integrator_record_response_catalog	
response_id	bigint
request_id	bigint
response_type	character
created_date	timestamp
exported_date	timestamp
missing_reads	integer
early_reads	integer
current_reads	integer
missing_current_reads	integer
export_billing_response	boolean
action_by	character
action_received_date	timestamp
file_name	character
sftp_file	boolean
sftp_date	timestamp
bill_calc_status	character
bill_calc_completed_time	timestamp

fail_reset_read_catalog	
fail_read_id	bigint
total_meters	integer
calculated_date	timestamp
created_by	character
is_resolved	boolean
resolved_by	character
resolution_date	timestamp
action_taken	character
notes	text

fail_reset_register_reads	
fail_read_id	bigint
read_file_id	bigint
meter_serial	character
channel_no	smallint
read_value	doubleprecision
read_time	timestamp
uom	character
gateway_collected_time	timestamp
source_validation	character
read_status_code	text

cycle_day_projections	
cycle_day_metric_id	bigint
request_type	character
request_id	bigint
cycle_id	character
cycle_date	date
received_date	timestamp
created_by	character
total_meters	integer
actual_no_read	integer
inactive_no_read	integer
svo_disconnects	integer
total_no_reads	integer

billing_cycle_metrics	
bc_metric_id	bigint
request_id	bigint
response_id	bigint
request_type	character
cycle_id	character
cycle_date	date
cycle_day_metric_id	bigint
created_date	timestamp
metric_name	character
projected_value	integer
actual_value	integer
threshold_range	smallint
actual_deviation	smallint
actual_results	character

get_fail_reset_register_reads	
read_file_id	bigint
meter_serial	character
channel_no	smallint
read_value	doubleprecision
read_time	timestamp
uom	character
gateway_collected_time	timestamp
source_validation	character
read_status_code	text

get_unflagged_fail_reset_register_reads	
read_file_id	bigint
meter_serial	character
channel_no	smallint
read_value	doubleprecision
read_time	timestamp
uom	character
gateway_collected_time	timestamp
source_validation	character
read_status_code	text

display_code_mapping	
channel_no	smallint
display_code	character
uom	character

external_system	
external_system_id	smallint
system_name	character

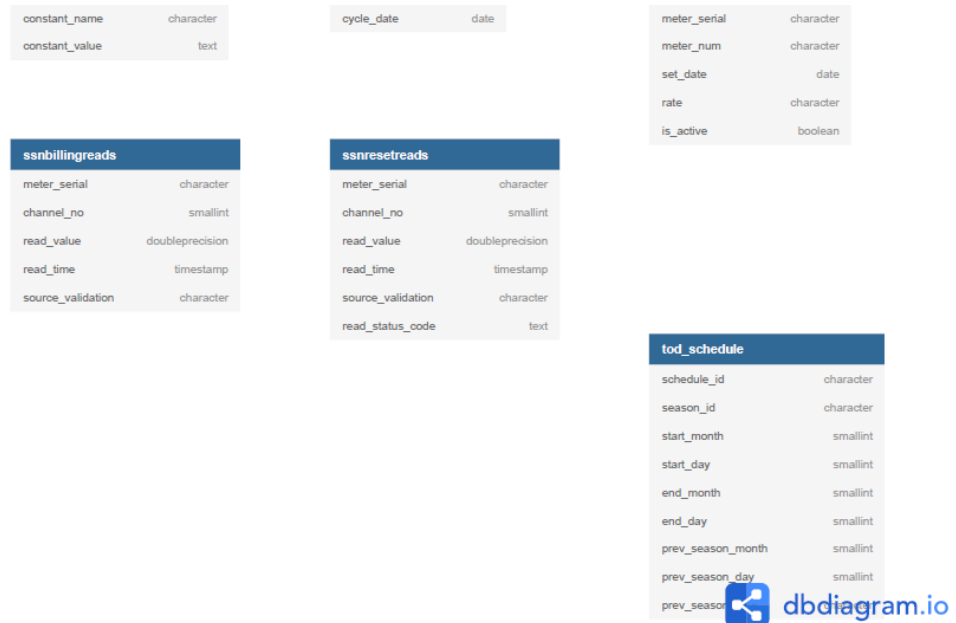
demand_reset_results_catalog	
demand_reset_file_id	bigint
file_name	character
received_date	timestamp
external_system_id	smallint
total_entities	integer
total_reset_entities	integer
total_resetx_entities	integer
total_failed_entities	integer

demand_reset_results	
demand_reset_file_id	bigint
premise	character
meter_serial	character
meter_num	character
district	smallint
cycle_id	character
route	character
read_source	character
read_status_code	character

app_constants	
constant_id	bigint

billing_calendar	
cycle_id	character

cis_tod_meter	
premise	character



## Mainframe Technical Components

Transaction	KJ45	Mainframe REST Web Service triggered from MDM Portal to retrieve Meter History for corresponding Premises between a time period.
Program	CUMWS145	Mainframe REST Web Service Program to retrieve data from CIS tables and send to Portal
Generic ID	ZZZ1MDT (Test)  ZZZ0MDP* (Prod)	Generic ID to trigger Mainframe transaction KJ45, Password to Generic ID are stored in APIGEE PROXY  API : service is <b><i>CISJSMeterHistory</i></b>
Web Service End Point		Test- <a href="https://sc01.fpl.com:6012/fpl/cics/cis2cs/CISJSMeterHistory">https://sc01.fpl.com:6012/fpl/cics/cis2cs/CISJSMeterHistory</a>  QA- <a href="https://sc01.fpl.com:6014/fpl/cics/cis2cr/CISJSMeterHistory">https://sc01.fpl.com:6014/fpl/cics/cis2cr/CISJSMeterHistory</a>  PROD - <a href="https://sg01.fpl.com:3056/fpl/cics/cis2prod/CISJSMeterHistory">https://sg01.fpl.com:3056/fpl/cics/cis2prod/CISJSMeterHistory</a>
Batch Programs		<a href="#">Go-Live CIS-BMRA.vsdX</a>

## Mainframe Transition to Support

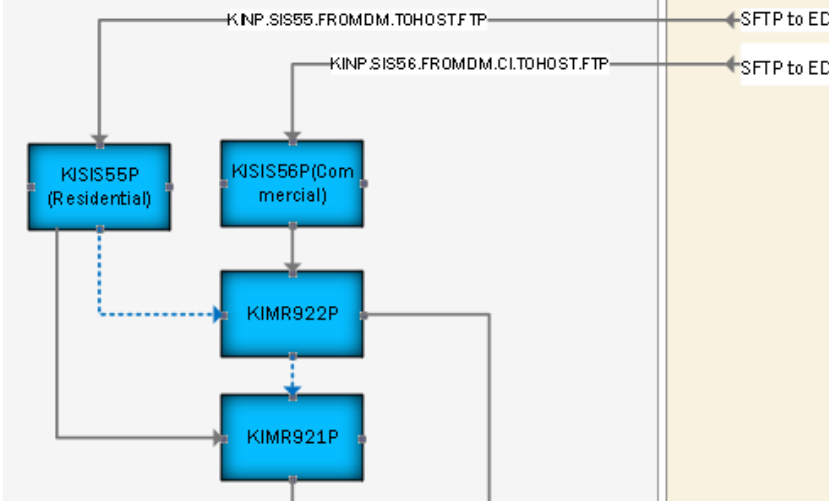
[Mainframe Transition to Support Documents](#)

### Outgoing Files

File (Days of run)	Prod Job Creating the File (Time)	Prod Job Sending the File (Time)	CS/CR Job Names	Prod Mainframe File Name (Outgoing)	Prod S3 Destination File Name
UIQ Update File (Tuesday-Saturday)	KISO817P (00:00)	KISO006X (00:00)	N/A - only prod files available from data lake	KINP.SO81702.EXCEPTN.RPT	UIQExceptionRpt_YYMMDDHHMMSS.txt
TOD Meters Unload (Monday-Friday)	KIUT933P (03:00)	KIUT006X (03:00)	KIUT06XS/KIUT06XR	KINP.EDI.UT93301	TODUnload_YYMMDDHHMMSS.csv
AMI CI Demand Reset Request (Monday-Friday)	KIMR087P (05:30)	KIMR005X (05:30)	KIMR05XS/KIMR05XR	KINP.MR08702.CI.DEM.RES.FTP	DemandResetRequest.txt
Residential Billing Request (Tuesday-Saturday)	KIMR915P (05:30)	KIMR002X (05:30)	KIMR02XS/KIMR02XR	KINP.EDI.MR91501	fromhost_YYMMDDHHMMSS.txt
Commercial Billing Request (Tuesday-Saturday)		KIMR003X (05:30)	KIMR03XS/KIMR03XR	KINP.EDI.MR91504.CI	fromhostCI_YYMMDDHHMMSS.txt
Yearly Calendar file	KIMR082P	KIMR006X (ondemand)	KIMR06XS/KIMR06XR	KINP.MR08203.READ.SCHED.FTP	ReadingSchedule.txt

Train Cycles - Test Regions Only	KIMR917S/KIMR917R (train regions only)	N/A	KIMR04XS/KIMR04XS	KINT.CS.EDI.MR91701 KINT.CR.EDI.MR91701	CSTrainCycleUnload_YYM MDDHHMMSS.txt CRTrainCycleUnload_YYM MDDHHMMSS.txt
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#### Incoming Files

File (Expected time - Days)	Hash	Copy Over	Files used by	Late Notification /Time	Remarks
Residential Billing Response (14:30 - Cycle)	KISIS55P	KIMR92 1P	KIMR06 5P	KIMR926P/15: 00	<p>For KIMR921P run the job KIMR922P must have run successfully. For KIMR922P to run, KISIS55P, 56P must have run.</p>  <pre> graph TD     A[KINP.SIS55.FROMDM.TOH0STFTP] --&gt; B[KISIS55P (Residential)]     C[KINP.SIS56.FROMDM.CI.TOH0STFTP] --&gt; D[KISIS56P (Commercial)]     B -.-&gt; E[KIMR922P]     D --&gt; E     E -.-&gt; F[KIMR921P]     B --&gt; F     </pre>
Commercial Billing Response (14:30 - Cycle)	KISIS56P	KIMR92 2P			
Demand Reset Results (13: 30 - Cycle)	KISIS53P	KIMR92 0P	KIMR09 0P	KIMR929P/13: 45	
SSN Reset Reads (13:30 - Cycle)	KISIS58P	KIMR92 4P	KIMR09 1P	KIMR930P/13: 45	
SSN Billing Reads (00:30 - Daily)	KISIS61P	KISO984P	KISO82 8P	KISO985P/00: 45	
SSN Billing Reads (14:00 - Daily)	KISIS54P	KISO983P	KISO82 9P	KISO985P/14: 15	
Reconciliation File (23:30 - Daily)	KISIS57P	KIMR92 3P	KIMR01 7P, KISO81 5P, KIMR84 2P	KIMR928P/23: 45	
Residential Contingency Billing Response (20:00 - Cycle-1)	KISIS59P	KIMR92 5P	KIMR18 4P	KIMR927P/20: 30	
Commercial Contingency Billing Response (20:00 - Cycle-1)	KISIS60P				

FMEA, RACI and Checklist

## Path to the Code Repository

<http://neer-bitbucket:7990/projects/MDM> ( for UI and Lambda)

## Bitbucket Branch Information and Jenkins

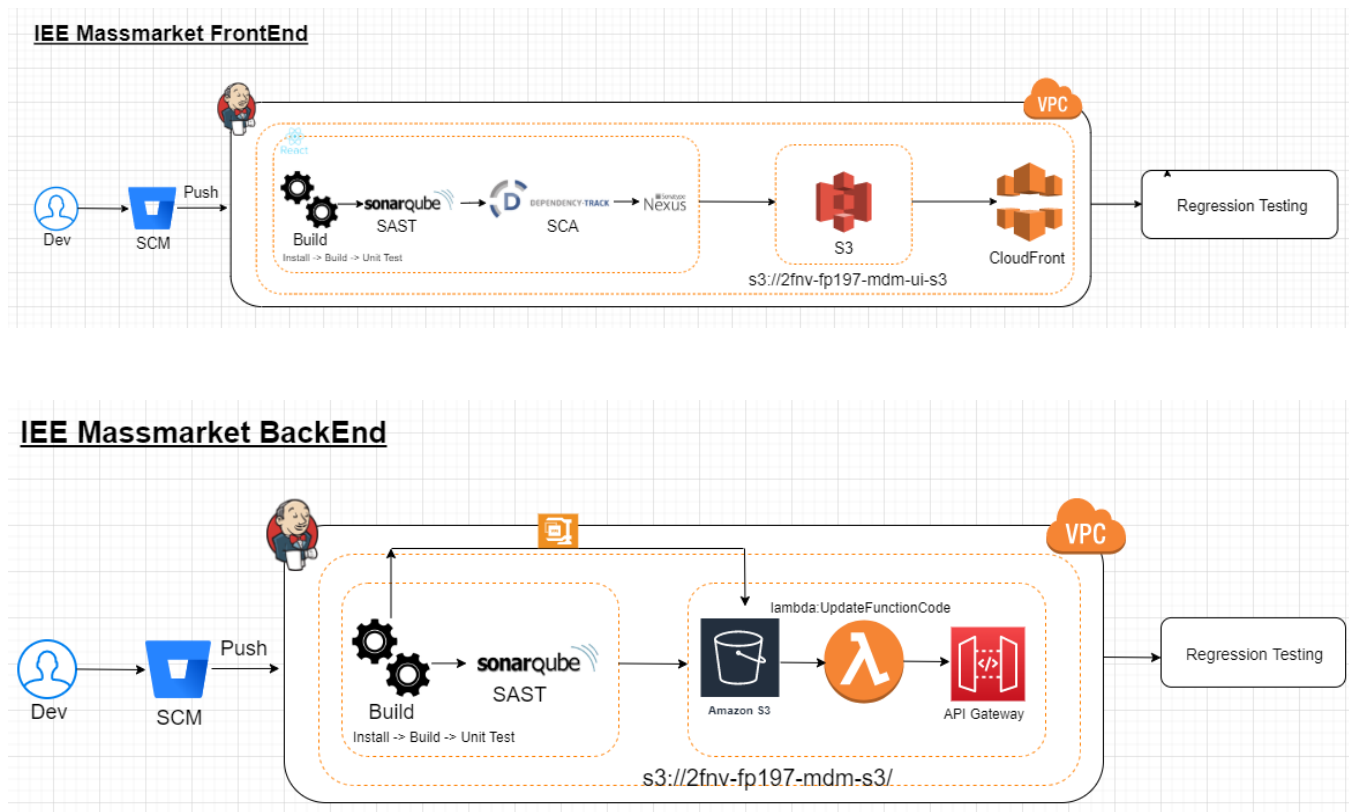
Branch name	mapped environment
master	FPLPROD
release	FPLQA
integration	FPLTEST
development	FPLNONPROD
feature	Will run the build only ( no deployment to any environment)

## Jenkins Pipeline

<https://jenkinsqa.fpl.com/job/IEE/>

## Jenkins Architecture

(Jenkins pipeline was built with references to IEE. MDM project replaced IEE, but Jenkins naming convention cannot be changed)



# AWS Cognito Details

AWS Console Request: [Requesting AWS Console Access](#)

Items	DEV	TEST	QA	PROD
AWS Console Access	Account Name Account No Role fplnonprodneeaws - 977465404123 DevOps-ADFS	Account Name Account No Role fpltestneeaws - 516627182506 DevOps-ADFS	Account Name Account No Role fplqaneeaws - 485449107334 DevOps-ADFS	Account Name Account No Role fplprodneeaws - 430004966399 ViewOnly-ADFS
USERPOOL	us-east-1_0k0ecpPlk (2FNV-FP197-MDM-USERPOOL)	us-east-1_6oi4gwfvC (2ftv-fp197-mdm-USERPOOL)	us-east-1_zW926IBkN (2fqv-fp197-mdm-USERPOOL)	us-east-1_6DdNRzzbf (2fpv-fp197-mdm-USERPOOL)
DOMAIN	https://mdm-portal-dev.auth.us-east-1.amazonaws.com	https://mdm-portal-fpltest.auth.us-east-1.amazonaws.com	https://mdm-portal-fplqa.auth.us-east-1.amazonaws.com	https://mdm-portal-fplprod.auth.us-east-1.amazonaws.com
ADFS Trust	https://mdm-portal-dev.auth.us-east-1.amazonaws.com/login? response_type=token&client_id=79ckedgtisvp90gtpphed6rd38& redirect_uri=https://d1a9k758p2q2uo.cloudfront.net/login& response_type=token&client_id=IAMANID&scope=aws.cognito.signin.user.admin email openid phone profile	https://mdm-portal-fpltest.auth.us-east-1.amazonaws.com/login? response_type=token&client_id=3u2qgnns0r8pahrm9n4fi0jmoe& redirect_uri=https://d2bnqdgisykx3du.cloudfront.net/login& response_type=token&client_id=IAMANID&scope=aws.cognito.signin.user.admin email openid phone profile	https://mdm-portal-fplqa.auth.us-east-1.amazonaws.com/login? response_type=token&client_id=3a41ae387v4nma2822dfonkaut& redirect_uri=https://d23hcidq1z9kj8.cloudfront.net/login& response_type=token&client_id=IAMANID&scope=aws.cognito.signin.user.admin email openid phone profile	https://mdm-portal-dev.auth.us-east-1.amazonaws.com/login? response_type=token&client_id=79ckedgtisvp90gtpphed6rd38& redirect_uri=https://d1a9k758p2q2uo.cloudfront.net/login& response_type=token&client_id=IAMANID&scope=aws.cognito.signin.user.admin email openid phone profile
AD Groups for cognito	AWS-DEV-FP197-MDM-DEVELOPER AWS-DEV-FP197-MDM-USER AWS-DEV-FP197-MDM-ADMIN	AWS-TEST-FP197-MDM-DEVELOPER AWS-TEST-FP197-MDM-USER AWS-TEST-FP197-MDM-ADMIN	AWS-QA-FP197-MDM-DEVELOPER AWS-QA-FP197-MDM-USER AWS-QA-FP197-MDM-ADMIN	AWS-PROD-FP197-MDM-ADMIN

## Attributes

FacebookGoogleAmazonAppleSAMLOIDC

ADFS-LOGIN

Capture	SAML attribute	User pool attribute
<input checked="" type="checkbox"/>	http://schemas.microsoft.com/ws/2008/06/identity/claims/role	Profile
<input checked="" type="checkbox"/>	http://schemas.xmlsoap.org/ws/2005/05/identity/claims/givenname	Given Name
<input checked="" type="checkbox"/>	http://schemas.xmlsoap.org/ws/2005/05/identity/claims/surname	Family Name
<input checked="" type="checkbox"/>	http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress	Email
<input checked="" type="checkbox"/>	http://schemas.xmlsoap.org/ws/2005/05/identity/claims/name	Username

Add SAML attribute

# AWS CloudFront Details

DEV	TEST	QA	PROD
Cloud Front Distribution ID : EOQRVZBQ9HXOR Domain Name : https://d1a9k758p2q2uo.cloudfront.net	Cloud Front Distribution ID : EU5829N7ZK4LI Domain Name: https://d2bnqdgisykx3du.cloudfront.net	Cloud Front Distribution ID : E1TZ8RDFHVFSGS Domain Name : https://d23hcidq1z9kj8.cloudfront.net	Cloud Front Distribution ID : E1M8JW1VWK4H26 Domain Name : https://d2g11eyg2yo5sj.cloudfront.net

# AWS S3 Details

DEV	TEST	QA	PROD
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UI: <a href="#">s3://2fnv-fp197-mdm-ui-s3</a>	UI: <a href="#">s3://2ftv-fp197-mdm-ui-s3</a>	UI: <a href="#">s3://2fqv-fp197-mdm-ui-s3</a>	UI: <a href="#">s3://2fpv-fp197-mdm-ui-s3</a>
File System: <a href="#">2fnv-fp197-mdm-s3</a>	File System: <a href="#">2ftv-fp197-mdm-s3</a>	File System: <a href="#">2fqv-fp197-mdm-s3</a>	File System: <a href="#">2fpv-fp197-mdm-s3</a>
Lambda : <a href="#">2fnv-fp197-mdm-cf-s3</a>	Lambda: <a href="#">2ftv-fp197-mdm-cf-s3</a>	Lambda: <a href="#">2fqv-fp197-mdm-cf-s3</a>	Lambda: <a href="#">2fpv-fp197-mdm-cf-s3</a>

# AWS S3 Filepaths

[List of Filepaths](#)

# AWS Lambda Details

[List of Lambda functions](#)

# AWS RDS Database Details

Name	DEV	TEST	QA	PROD
database	mdmd	mdmt	mdmq	mdmp
rds_proxy_host	<a href="#">aws-2fnv-fp197-mdm-rds-proxy.proxy-c4ucntsmqjsv.us-east-1.rds.amazonaws.com</a>	<a href="#">aws-ftv-fp197-mdm-rds-proxy.proxy-cq5nryu9qrxu.us-east-1.rds.amazonaws.com</a>	<a href="#">aws-fqv-fp197-mdm-rds-proxy.proxy-clfn2h31qwxn.us-east-1.rds.amazonaws.com</a>	<a href="#">aws-fpv-fp197-mdm-rds-proxy.proxy-cgqep0gwcrig.us-east-1.rds.amazonaws.com</a>
rds_port	5432	5432	5432	5432
secret_name	2fnv-fp197-mdm-RDS-Secret	2ftv-fp197-mdm-RDS-Secret	2fqv-fp197-mdm-RDS-Secret	2fpv-fp197-mdm-RDS-Secret

# AWS EC2 Server Details

Functionality	DEV	TEST	QA	PROD
Jenkins pipeline	2FNV-GC-FP19703 (us-east-1a, M3.medium)	2FTV-GC-FP19701 (us-east-1a, M3.medium)	2FQV-GC-FP19701 (us-east-1a, t3.medium)	2FNV-GC-FP19701 (us-east-1a, t3.medium)
SFTP	2FNV-GC-FP19705 (us-east-1a, t2.micro)	2FTV-GC-FP19705 (us-east-1a, t2.medium) 2FTV-GC-FP19706 (us-east-1b, t2.medium)	2FQV-GC-FP19704 (us-east-1a, t2.medium) 2FQV-GC-FP19705 (us-east-1b, t2.medium)	2FNV-GC-FP19704 (us-east-1a, t2.medium) 2FNV-GC-FP19705 (us-east-1a, t2.medium)

# AWS SFTP Processes

[SFTP Putty Process](#)

# Power BI Reports

[BMRA-MDM Power BI Reports.xlsx](#)

S r. N o.	Report Name	Description	Dev Link	Prod Link
1	MDM-On Cycle Billing Export Statistics	Report detailing on cycle billing statistics for current cycle day	<a href="#">http://corpbidev/corpanalytics/report/CS-Customer%20Care/BPS/MDMBI/AWS%20MDM/MDM-%20On%20Cycle%20Billing%20Export%20Statistics</a>	<a href="#">http://corpbi/corpanalytics/report/Customer%20Service/BPS/Reports/AWS%20MDM/MDM-%20On%20Cycle%20Billing%20Export%20Statistics</a>

2	MDM-On Cycle Residential Billing Reads	Report for on cycle residential billing reads for current cycle day- reads sent in billing response files	<a href="http://corpbidev/corpanalytics/report/CS-Customer%20Care/BPS/MDMBI/AWS%20MDM/FPLTest-On-Cycle%20Residential%20Billing%20Reads">http://corpbidev/corpanalytics/report/CS-Customer%20Care/BPS/MDMBI/AWS%20MDM/FPLTest-On-Cycle%20Residential%20Billing%20Reads</a>	<a href="http://corpbi/corpanalytics/report/Customer%20Service/BPS/Reports/AWS%20MDM/MDM-On%20Cycle%20Residential%20Billing%20Reads">http://corpbi/corpanalytics/report/Customer%20Service/BPS/Reports/AWS%20MDM/MDM-On%20Cycle%20Residential%20Billing%20Reads</a>
3	MDM-On Cycle Commercial Billing Reads	Report for on cycle commercial billing reads for current cycle day- reads sent in billing response files	<a href="http://corpbidev/corpanalytics/report/CS-Customer%20Care/BPS/MDMBI/AWS%20MDM/MDM-On%20Cycle%20Commercial%20Billing%20Reads">http://corpbidev/corpanalytics/report/CS-Customer%20Care/BPS/MDMBI/AWS%20MDM/MDM-On%20Cycle%20Commercial%20Billing%20Reads</a>	<a href="http://corpbi/corpanalytics/report/Customer%20Service/BPS/Reports/AWS%20MDM/MDM-On%20Cycle%20Commercial%20Billing%20Reads">http://corpbi/corpanalytics/report/Customer%20Service/BPS/Reports/AWS%20MDM/MDM-On%20Cycle%20Commercial%20Billing%20Reads</a>
4	MDM-Contingency Billing Export Statistics	Report detailing contingency billing statistics for current cycle day	<a href="http://corpbidev/corpanalytics/report/CS-Customer%20Care/BPS/MDMBI/AWS%20MDM/MDM-Contingency%20Billing%20Export%20Statistics">http://corpbidev/corpanalytics/report/CS-Customer%20Care/BPS/MDMBI/AWS%20MDM/MDM-Contingency%20Billing%20Export%20Statistics</a>	<a href="http://corpbi/corpanalytics/report/Customer%20Service/BPS/Reports/AWS%20MDM/MDM-Contingency%20Billing%20Export%20Statistics">http://corpbi/corpanalytics/report/Customer%20Service/BPS/Reports/AWS%20MDM/MDM-Contingency%20Billing%20Export%20Statistics</a>
5	MDM-Contingency Residential Billing Reads	Report for contingency residential billing reads for current cycle day- reads sent in contingency response files	<a href="http://corpbidev/corpanalytics/report/CS-Customer%20Care/BPS/MDMBI/AWS%20MDM/MDM-Contingency%20Residential%20Billing%20Reads">http://corpbidev/corpanalytics/report/CS-Customer%20Care/BPS/MDMBI/AWS%20MDM/MDM-Contingency%20Residential%20Billing%20Reads</a>	<a href="http://corpbi/corpanalytics/report/Customer%20Service/BPS/Reports/AWS%20MDM/MDM-Contingency%20Residential%20Billing%20Reads">http://corpbi/corpanalytics/report/Customer%20Service/BPS/Reports/AWS%20MDM/MDM-Contingency%20Residential%20Billing%20Reads</a>
6	MDM-Contingency Commercial Billing Reads	Report for contingency commercial billing reads for current cycle day- reads sent in contingency response files	<a href="http://corpbidev/corpanalytics/report/CS-Customer%20Care/BPS/MDMBI/AWS%20MDM/MDM-Contingency%20Commercial%20Billing%20Reads">http://corpbidev/corpanalytics/report/CS-Customer%20Care/BPS/MDMBI/AWS%20MDM/MDM-Contingency%20Commercial%20Billing%20Reads</a>	<a href="http://corpbi/corpanalytics/report/Customer%20Service/BPS/Reports/AWS%20MDM/MDM-Contingency%20Commercial%20Billing%20Reads">http://corpbi/corpanalytics/report/Customer%20Service/BPS/Reports/AWS%20MDM/MDM-Contingency%20Commercial%20Billing%20Reads</a>
7	Previous Season Report	Report detailing list of TOD meters and reading details for 202/203/604/605 (previous season on peak and off peak demand) channels	<a href="http://corpbidev/corpanalytics/report/CS-Customer%20Care/BPS/MDMBI/AWS%20MDM/FPLTest-MDM%20-%20Previous%20Season%20Report">http://corpbidev/corpanalytics/report/CS-Customer%20Care/BPS/MDMBI/AWS%20MDM/FPLTest-MDM%20-%20Previous%20Season%20Report</a>	<a href="http://corpbi/corpanalytics/report/Customer%20Service/BPS/Reports/AWS%20MDM/MDM-Previous%20Season%20Report">http://corpbi/corpanalytics/report/Customer%20Service/BPS/Reports/AWS%20MDM/MDM-Previous%20Season%20Report</a>

## APIGEE FireWalls

APIGEE Dev: <https://apiuisbx.fpl.com/login>

APIGEE Stage ( TEST and QA): <https://apiui-stage-aws.fpl.com/login>

## APIGEE Proxy Endpoints

[Read Army - APIGEE proxies details](#)

## Portal links - Prod and Non Prod

Environment	Portal Link
PROD	<a href="https://mdm-fplprod.fpl.com/">https://mdm-fplprod.fpl.com/</a>
QA	<a href="https://mdm-fplqa.fpl.com/">https://mdm-fplqa.fpl.com/</a>
TEST	<a href="https://mdm-fpltest.fpl.com/">https://mdm-fpltest.fpl.com/</a>
DEV	<a href="https://mdm-dev.fpl.com/">https://mdm-dev.fpl.com/</a>

## Access Requests



Access Type	Requested Via	Details
BMRA Online Application and/or BMRA Historical Database	Service Now Active Directory	<a href="http://eweb/bunit/cs/LDM/PowerBilling/PowerBillReplacement/RequestorRemoveAccessfromBMRA_Final.pdf">http://eweb/bunit/cs/LDM/PowerBilling/PowerBillReplacement/RequestorRemoveAccessfromBMRA_Final.pdf</a>
Developer access	Service Now Active Directory	AWS_FPL_MDM_DB AWS-FPLProd-FBRS-Developer

AWS Console Access	Service Now AWS Console	FPLNonProd-DevOps FPLTest-DevOps FPLQA-ViewOnly FPLProd-ViewOnly
BitBucket/GitHub	Service Now Active Directory	Github_Nee_Users Github_Fplu_Users Github_Fple_Users
Jenkins		
Power BI Report	Service Now Active Directory	BI_BPS_CONSUMERS
Business Access to MDM Database	EAMS	<a href="https://confluence.nexteraenergy.com/download/attachments/224103264/Job%20aid_Access%20to%20MDM%20DB.doc?api=v2">https://confluence.nexteraenergy.com/download/attachments/224103264/Job%20aid_Access%20to%20MDM%20DB.doc?api=v2</a>

## SLA Tier

SLA Document

### Service level agreements (SLA) - incidents

<b>Urgency</b> 	<b>1: High</b> <b>Work Stopped</b>	<b>3: Moderate</b> SRT<2-hour M-F 8:00 AM-5:00 PM RT< 8-hour M-F 8:00 AM -5:00 PM	<b>2: High</b> SRT < 30 Min 24*7 RT < 8 Hour 24*7	<b>1: Critical</b> SRT: < 15 Min 24*7 RT: < 4 Hour 24*7	<b>1: Critical</b> SRT: < 15 Min 24*7 RT: < 4 Hour 24*7
	<b>2: Moderate</b> <b>Work around available</b>	<b>3: Moderate</b> SRT<2-hour M-F 8:00 AM-5:00 PM RT< 8-hour M-F 8:00 AM -5:00 PM	<b>2: High</b> SRT < 30 Min 24*7 RT < 8 Hour 24*7	<b>2: High</b> SRT < 30 Min 24*7 RT < 8 Hour 24*7	<b>2: High</b> SRT < 30 Min 24*7 RT < 8 Hour 24*7
	<b>3: Low</b> <b>Working Slowly intermittently</b>	<b>3: Moderate</b> SRT<2-hour M-F 8:00 AM-5:00 PM RT< 8-hour M-F 8:00 AM -5:00 PM	<b>3: Moderate</b> SRT<2-hour M-F 8:00 AM-5:00 PM RT< 8-hour M-F 8:00 AM -5:00 PM	<b>3: Moderate</b> SRT<2-hour M-F 8:00 AM-5:00 PM RT< 8-hour M-F 8:00 AM -5:00 PM	<b>3: Moderate</b> SRT<2-hour M-F 8:00 AM-5:00 PM RT< 8-hour M-F 8:00 AM -5:00 PM
	<b>4: None</b> <b>No business Impact</b>	<b>4: Low</b> SRT<8-hour M-F 8:00 AM-5:00 PM RT< 40-hour M-F 8:00 AM -5:00 PM	<b>4: Low</b> SRT<8-hour M-F 8:00 AM-5:00 PM RT< 40-hour M-F 8:00 AM -5:00 PM	<b>4: Low</b> SRT<8-hour M-F 8:00 AM-5:00 PM RT< 40-hour M-F 8:00 AM -5:00 PM	<b>4: Low</b> SRT<8-hour M-F 8:00 AM-5:00 PM RT< 40-hour M-F 8:00 AM -5:00 PM
	<b>Impact</b>  <b>No. of User Impacted</b>	<b>4: Single User</b>	<b>3:Several User</b>	<b>2: Site, Department, Executives</b>	<b>1: Global or External Customer</b>

SRT: Service Response Time to customer  
RT: Resolution Time

## Application ranking (MC, BUI or Other)

Mission Critical

## FPL IT Mission Critical Systems:

- First Tier Applications within Business Processes deemed essential to the Company to remain operational and, if unavailable, would result in severe financial loss, public embarrassment or the inability to meet corporate safety and/or regulatory requirements.
- Recovery Plans reviewed and tested annually
- Restoration Time Objective (RTO): 4-8 hours
- Recovery Point Objective (RPO): 30 sec - 10 mins

## Vendor Contact Details

Not Applicable

## SNOW Assignment Group

Support Group - L2\_AMS\_FPLS\_COG

Approval Group - L3\_DEV\_FPLS\_RM

## Storm processes and procedures - Shubhanshu

Potential need to run Lambda's manually if readings are delayed

Manual monitoring required

## Alert status checklist 1,2 and 3

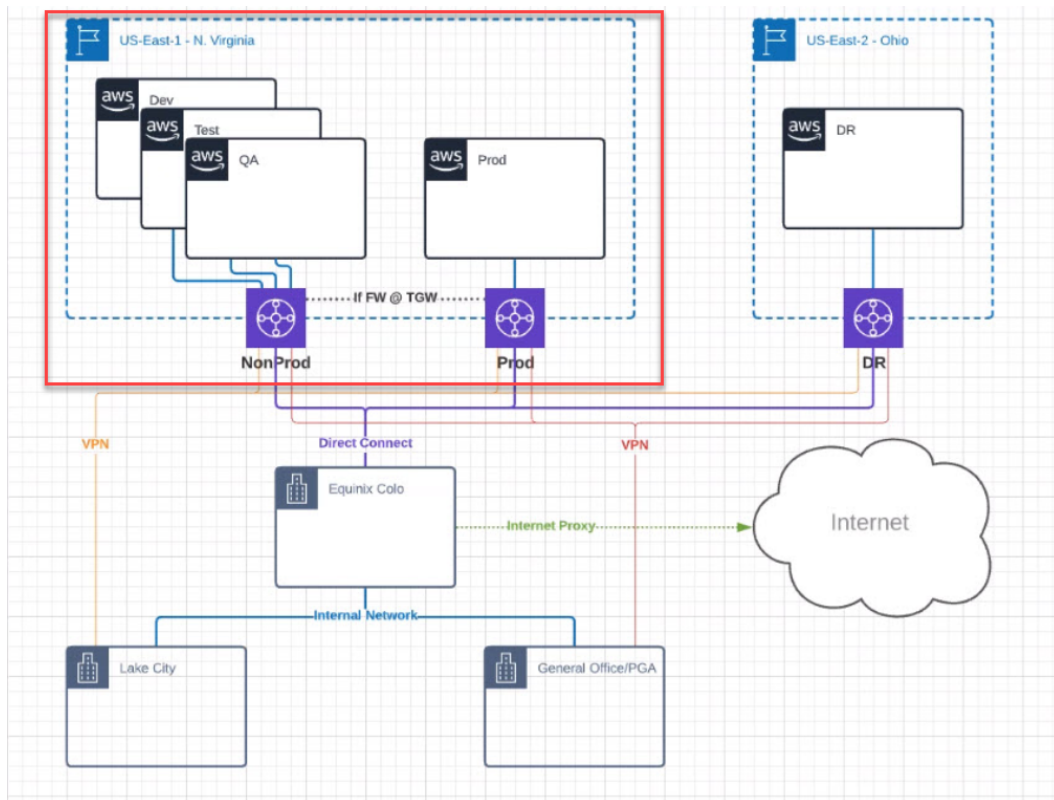
[Alert 1/2/3 Checklist](#)

## Application coverage for storm

24 x 7

## DR documentation for MC and BUI application

BMRA is setup as a multi-node application within the AWS Virginia region. Per diagram/discussion with cloud architect, this HA setup is equivalent to the FL region for on-premise servers between GO and LC. At this time, multi-region setup is not available for databases, therefore not an option.



## DR testing checklists and results

- model after IEE checklists

## Contact list

Name	Role/Organization
Luisa Santacoloma	CS Application Owner
Carlos Vieites	CS Application SME
Akhila Ranganathan	CS Project Product Owner
Nageswamma Pamarthi	CS Project Business Analyst
Sunita Hawaldar	CS Project Product Manager
Rohit Ravindranath	IT Leader
Kristy Stockett	IT Scrum Master
Nicolas Zerrate	IT Architect/Tech Lead
Errol Gamory	IT MF Architect
Nilesh Ukirde	IT Business Analyst
Shubhanshu Bhargava	IT IEE SME
Nethra Mugala	IT Tech Lead
Thamson Antony	Mainframe Developer
Anand Avadutha	IT Cloud Infrastructure Developer
Rudra Patil	IT Lambda Developer

Andres Salinas	IT Lambda Developer
Gayathri Sekar	Portal Java Developer
Rick Saavedra	IT DBA Aurora PostgreSQL
Cecil Worley	IT CI/CD and Pipeline Services
Pratap Padhy	IT CI/CD and Pipeline Services
Yugandher Ravi	IT APIGEE Services
Meenatchi Sivasundari	IT APIGEE Services
Steve Sedlack	EDI/EAI Services
Haji Mohammed	EDI/EAI Services
Sathiyapriya Krishnachalam	EDI Services
Shuvrajyoti Maitra	EAI Services
David Clark	UIQ/RICI reading files
Karthik raja Paulraj	Demand reset/UIQ Update files

## SOX documentation

[SOX Certification Document](#)

[SOX Quarterly Narrative](#)

## Business Go-Live approval



## Application Specific details

[Monitoring recent code change - Contingency file - cycle 1 May next occurrence](#)

[Business Process - Daily Processes](#)

Billing Calendar import - Pending completion of process development

SFTP - how to access/job descripts - Nethra

[UIQ Reading Scheduled File Send Timings \(fyi only, SGOB team responsibility\)](#)

[UIQ Reading Off Schedule Manual File Send \(FYI only, SGOB team responsibility\)](#)

# How To's

[How to rotate IAM Keys](#)

[How to adjust schedule for EST/DST for Daylight Savings Time Start/End](#)

[Update Chron job to renew vault token](#)

## Service Now Knowledge Articles

Steps to run processes manually if automated process fails or needs to be run again

KA Number	Description
KB0017033	SSNRESETReads File : Putting the jobs on hold and File Creation
KB0017034	SSNBillingReads File : Putting the jobs on hold and File Creation
KB0017035	BMRA - Demand Meter Fail Process
KB0017036	Request/Remove Access in BMRA
	Manual process to run lambda functions (AWS scheduler down)
	Process to resolve S3 to EC2 file send issues
	Handling alerts that not all reading files received
	Handling late demand reset files from SGOB
	Handling off schedule reading files from SGOB
	CI Reading Import Failures
	RES Reading Import Failures
	CI Billing Calculation Failures
	RES Billing Calculation Failures
	CI Billing Response Export Failures
	RES Billing Response Export Failures
	CI SFTP Failures
	RES SFTP Failures
	CI Cont Billing Calculation Failures
	RES Cont Billing Calculation Failures
	CI Cont Billing Response Export Failures
	RES Cont Billing Response Export Failures
	CI Cont SFTP Failures
	RES Cont SFTP Failures
	Demand Reset Request Failures
	Demand Reset Results Failures
	Demand Reset Compare Failures
	CDP Missing Data Notification Failures
	CDP Projected VS Actuals Failures
	CDP No Action Failures
	Meter Fail Identify Failures
	Meter Fail Update Failures
	SSN Billing Reads - Schedule A Failures

	SSN Billing Reads - Schedule B Failures
	UIQ Reconciliation Failures
	UIQ Update Failures