

Artificial Intelligence Executive Conference

explore the power of AI to transform semiconductor design & manufacturing



AI Driven 3DIC Test

Product and Architecture Overview

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Ken Butler, Advantest

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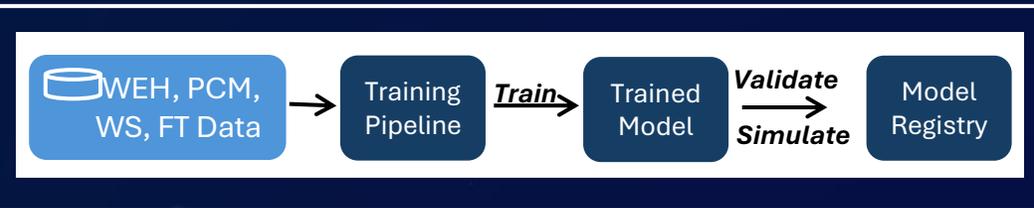
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PDF Solutions' ModelOps

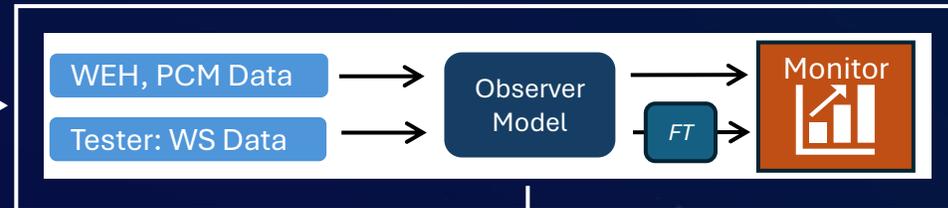
Create, Manage and Control models across their lifecycles

Model Training



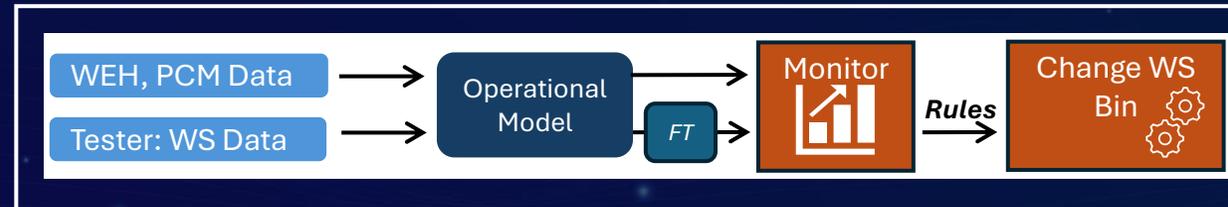
Deploy

Production – Cloud: E-MA & E-TO



Activate

Production – Edge



Example flow for Predicting Post-Burn-in Test results at Wafer Sort from Defect, PCM & Wafer Sort data

- **Single platform for all data in Exensio**
 - Infrastructure for semiconductor-specific data
- **Train, deploy, execute, and monitor models**
 - Centrally trained, multiple deployment locations
- **Built for semiconductor-specific use cases**
 - Chiplets, SiP
- **Ability to link multiple semiconductor systems together**
 - ERP and MES for sourcing data to feed forward to next step
 - Deploy to multiple OSAT's and testing floor

Use Case: Predictive Binning on High Volume Product



Desire

At Wafer Sort (WS), screen out die that will fail at Final Test (FT) while minimizing overkill

Method



Predict FT “fails” with **Machine Learning** on WS parametric data



Before assembly, dispose of or down-bin the die that are predicted to fail

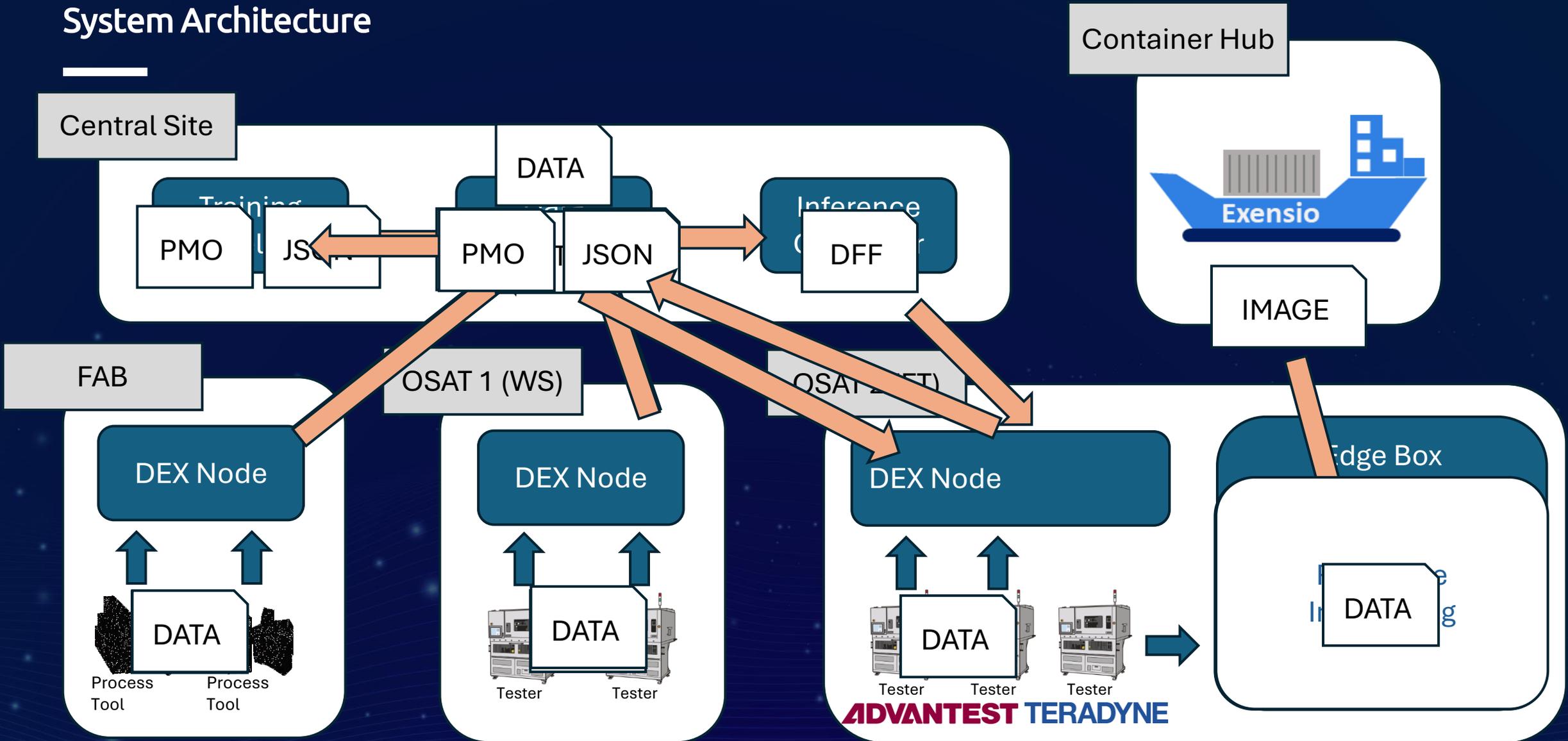
01.

System
Architecture

—

PDF
SOLUTIONS™

System Architecture



02.

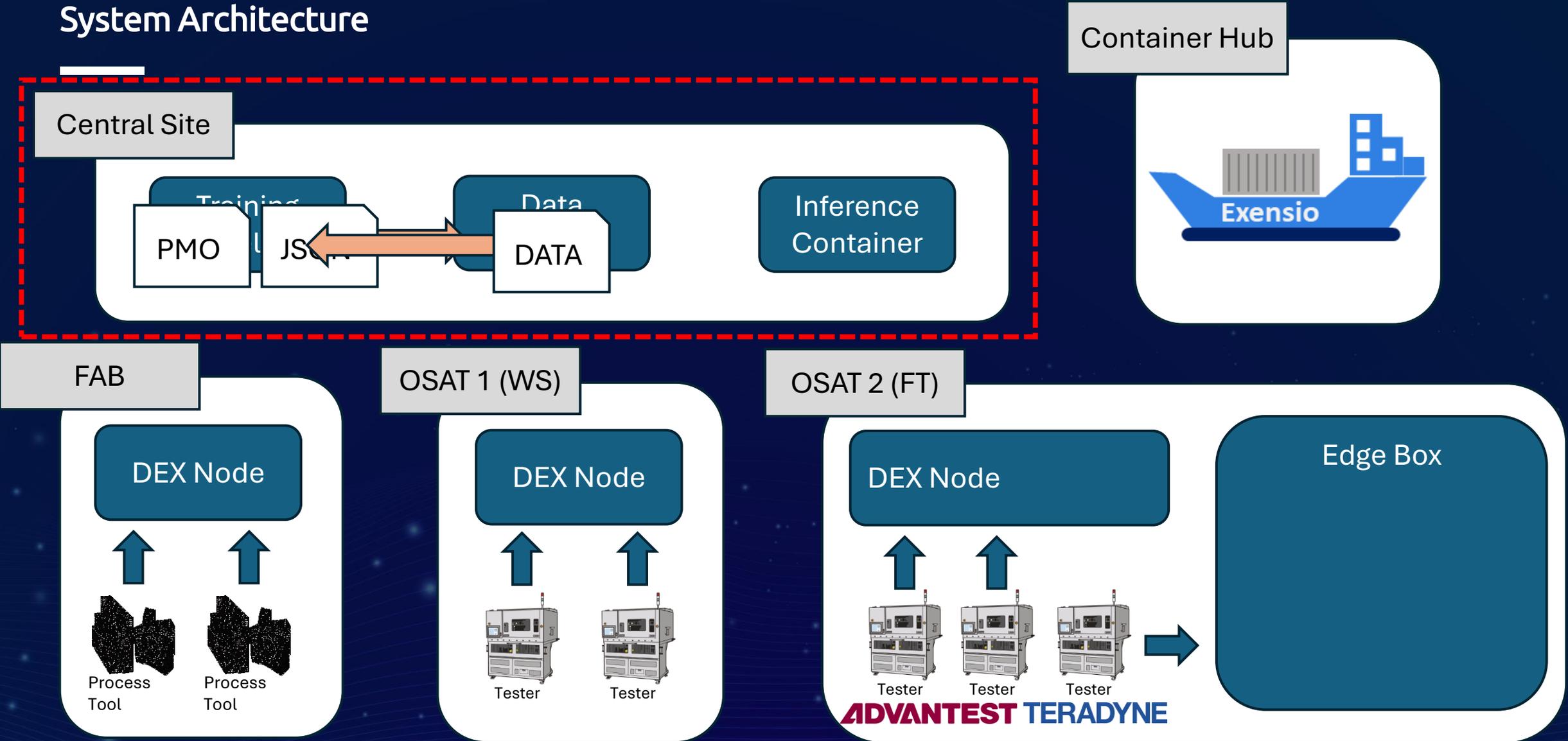
Model
Training

—

PDF

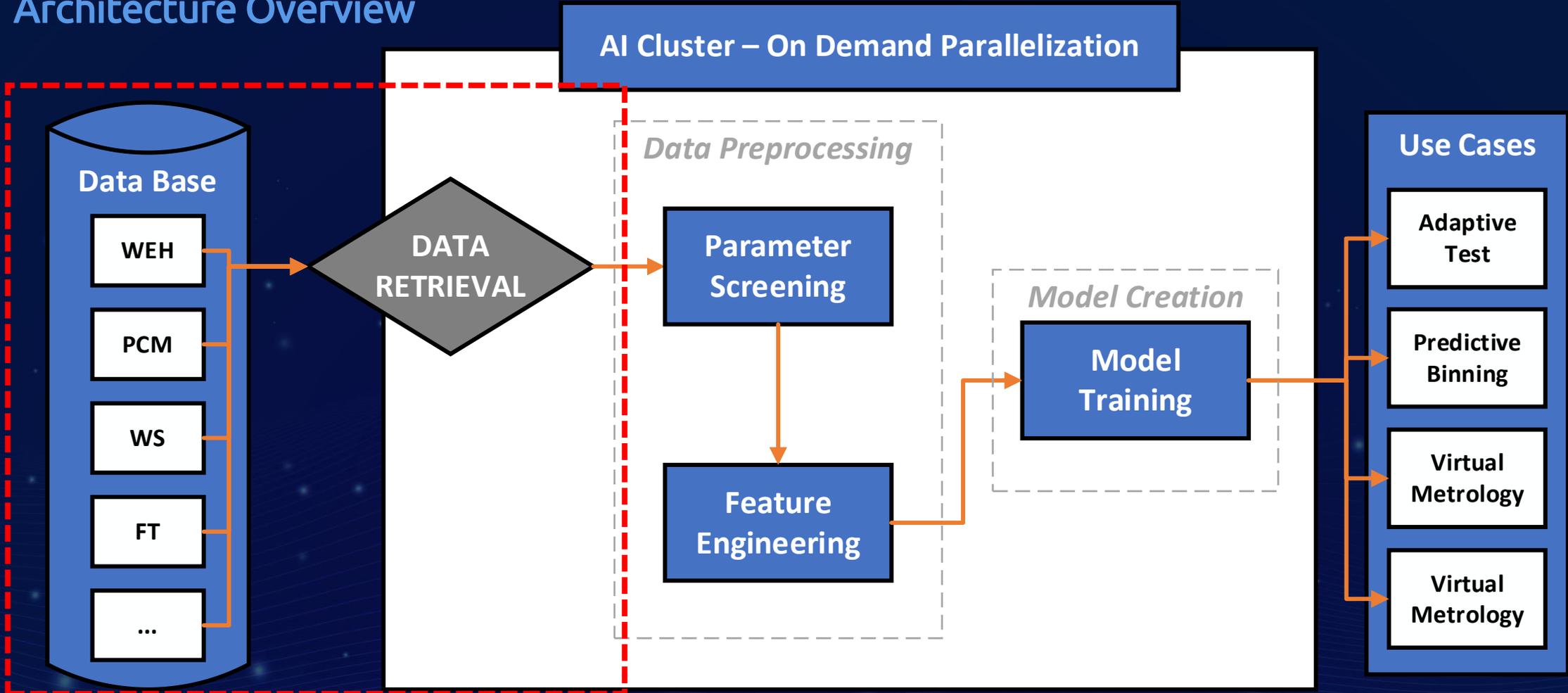
SOLUTIONS™

System Architecture



Model Training

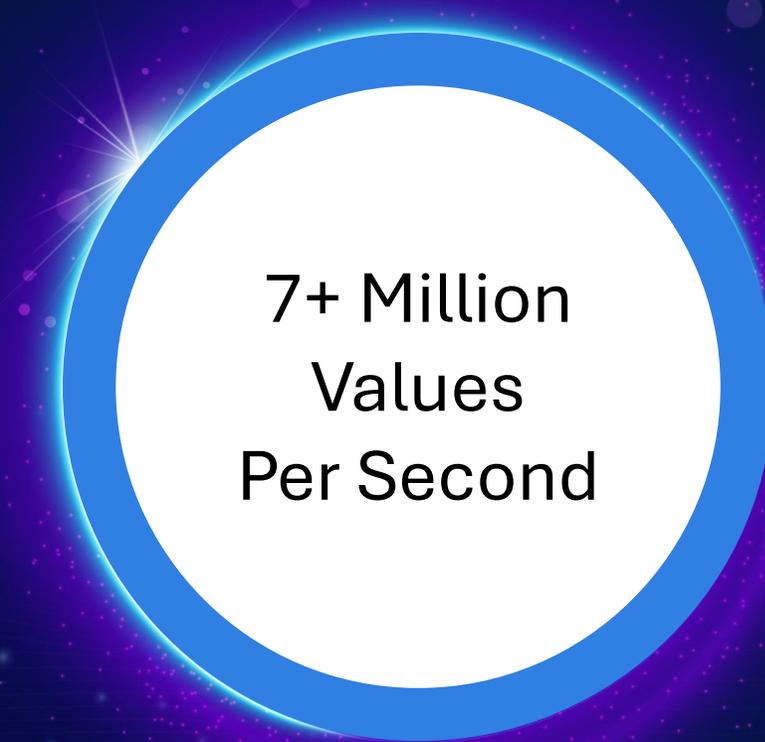
Architecture Overview



Model Training

Optimized Data Retrieval

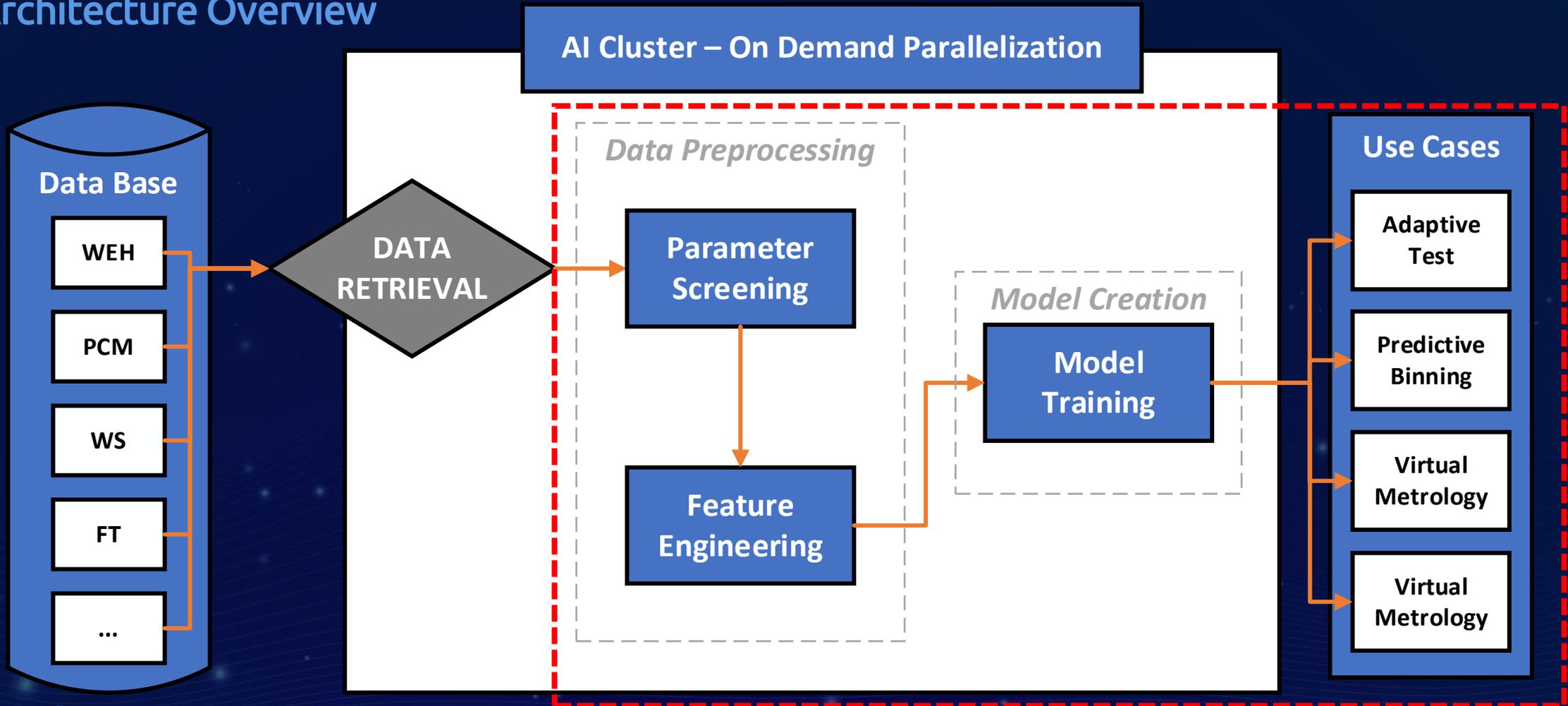
- Link devices with E142
- Combine different formats
- Scalable retrieval



7+ Million
Values
Per Second

Model Training

Architecture Overview

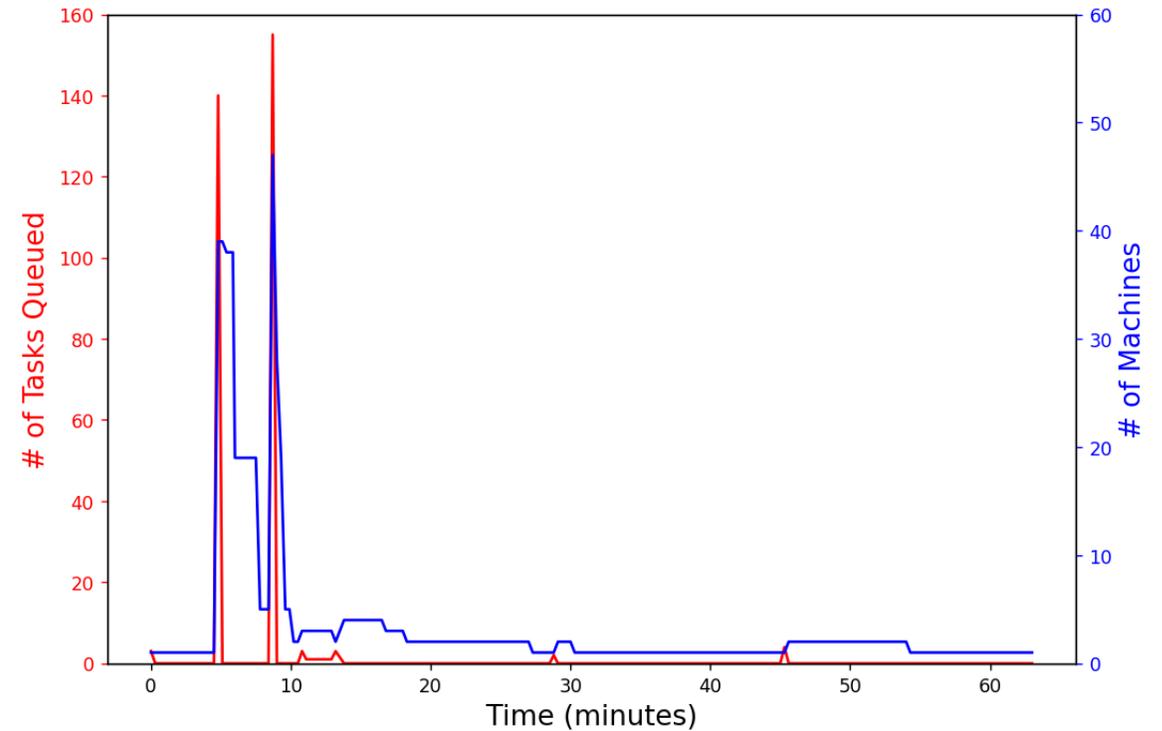


Model Training

Efficient Model Training

- Dynamically scaled compute
- Built-in screening
- Parallelized computation

Machines Scale with Tasks

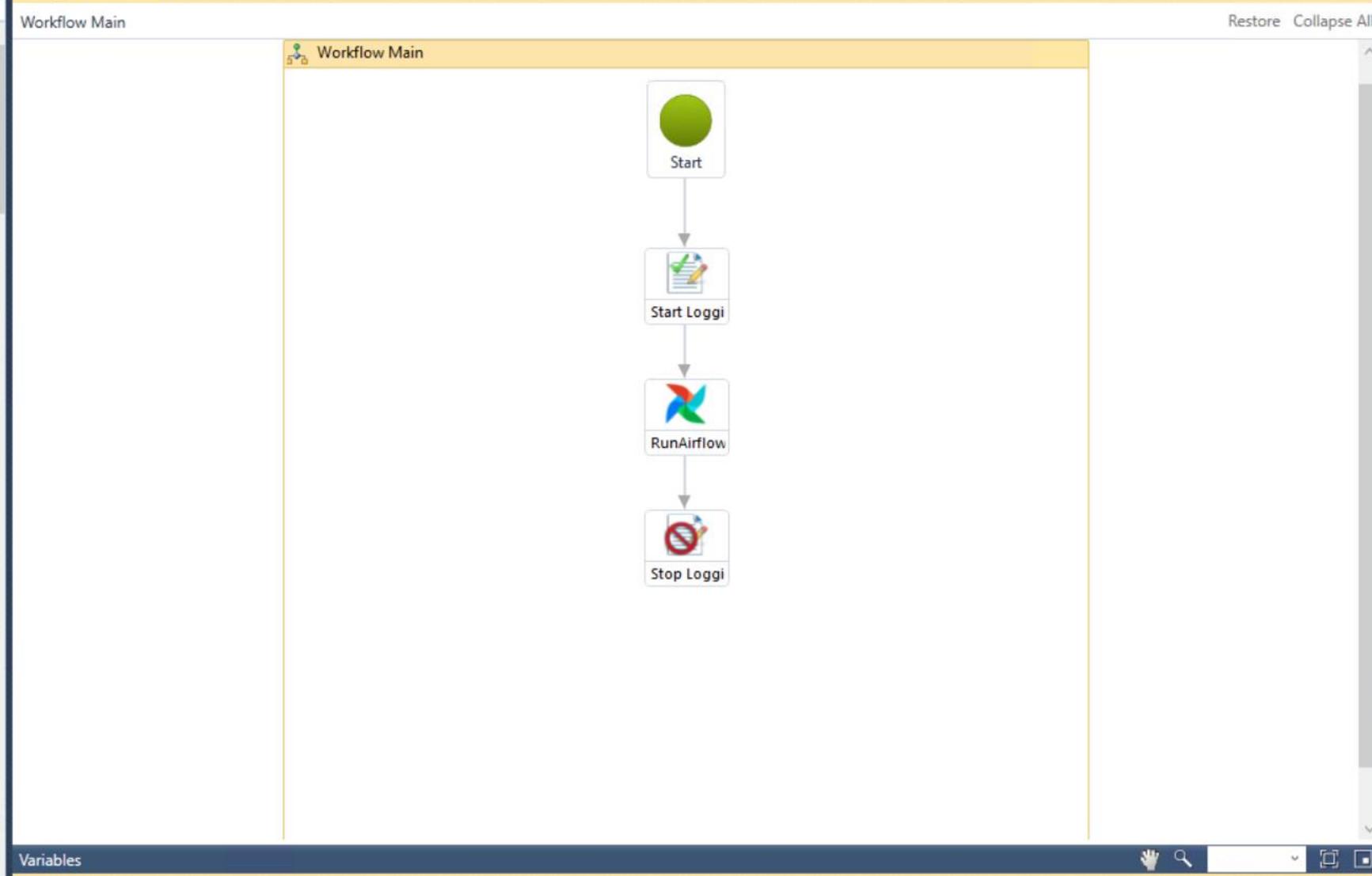




Tools demo_run.exnwf X

- Search
- Flowchart
 - Flowchart
 - FlowDecision
 - FlowSwitch <>
 - Control Flow
 - DoWhile
 - ForEach <>
 - ForEach Column
 - ForEach Row
 - If/Else (Custom Expression)
 - Evaluate Boolean Custom Exp
 - While
 - TerminateWorkflow
 - Primitives
 - Assign
 - Assign <>
 - Delay
 - WriteLine
 - Error Handling
 - TryCatch
 - Throw
 - AMI Methods
 - Bin Limits Violations
 - Custom MRB
 - Lot Class
 - Partial Wafers
 - Wafers Tested
 - Zone Clustering
 - Zone Clustering Engine
 - Zone Pattern Classification
 - AMI Themes
 - Delete Manufacturing Review

Workflow Main



Properties System.Activities.Statements.Flowchart

Search: Clear

Misc

DisplayName	Workflow Main
ValidateUnconnecte...	<input type="checkbox"/>

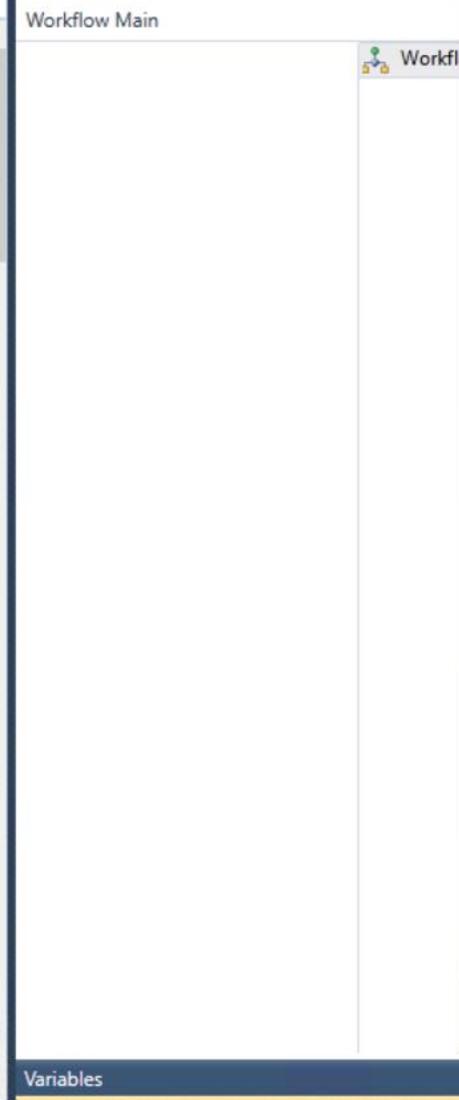
Variables



Tools Search

- Flowchart
 - Flowchart
 - FlowDecision
 - FlowSwitch<>
- Control Flow
 - DoWhile
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 - Delete Manufacturing Review

demo_run.exnwf



Connect to Manufacturing Analytics Database

System Connection Custom Connection

Database Servers (Oracle)

- EXNDB

Databases

- DPTRAINING_140R5
- E142_CD47_ADDML
- PROD
- TEST
- YMS_TEST

Database Engine: Informix Oracle Database Driver: Native ODBC

Logging:

SQL Command Timeout (sec.) Disable Database Connection Version Warning

Authentication

User Name: Password:

Comments:

Connection Mode: Auto Connect

E142_CD47_ADDML @ exndb: Broken

Restore Collapse All



Properties

PDF.VSF.DataPower.Retrieval.Tools.Workfl...

Search:

Configurations

- Airflow URL: http://airflow-01
- DAG: modelops_t
- Predictive Configu...: PDF.VSF.Dat...

Misc

DisplayName: RunAirflowDagA

Configure and Initiate Jobs

Predictive Binning

1. Select Targets

Products

- PRODUCT_1

1

2 - Final_Test

Programs

- FT_FT1_ML_DEMO

1

Bins

program	bin_name	state
FT_FT1_ML_DEMO	BIN_5	F
FT_FT1_ML_DEMO	BIN_1	P
FT_FT1_ML_DEMO	BIN_2	F
FT_FT1_ML_DEMO	BIN_3	F

5

Formula

- Single bin
- BinA AND BinB
- BinA OR BinB

Targets

- FT_FT1_ML_DEMO.BIN_1
- FT_FT1_ML_DEMO.BIN_2
- FT_FT1_ML_DEMO.BIN_3
- FT_FT1_ML_DEMO.BIN_4

2. Select Lots

Lots

- L0
- L1
- L10
- L100
- L101
- L102
- L103
- L104
- L105
- L106
- L107
- L108
- L109
- L11
- L110
- L111
- L112
- L113
- L114
- L115
- L116
- L117

325

Date/Time Selection

Start Time

From: 13-Jun -2024 06:28:23

To: 12-Sep-2024 02:45:20

3. Select Predictors

Program Group

1 - Wafer_Sort

Die Level Wafer Level

Select Program Class

Die Level Wafer Level

Select Program Class

4. Set Model Parameters

Minimum # of target die / Lot: 0

Set Default Model Threshold - based on:

Optimal F1

% Failures - Enter Minimum: 0.00

% Overkill - Enter Maximum: 0.50

Advanced Settings

Enable Feature Engineering:

5. Save Job

Job Name:

20241212 Live Demo Run

Job Description:

AI Executive Conference demo run

Cancel

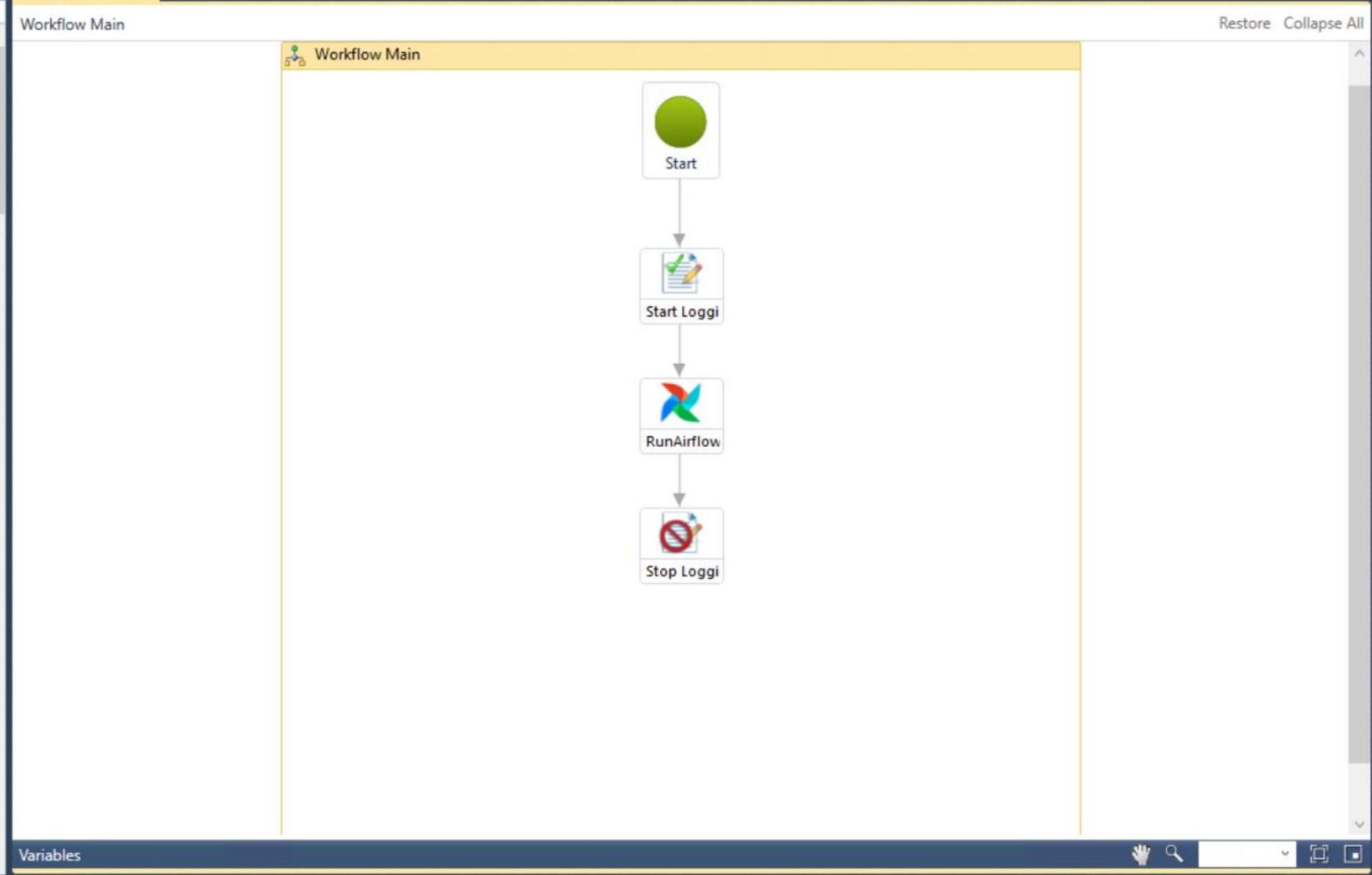
OK



Tools Run

demo_run.exnwf

- Search
- Flowchart
 - Flowchart
 - FlowDecision
 - FlowSwitch<>
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 - DoWhile
 - ForEach<>
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 - ForEach Row
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 - Wafers Tested
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- AMI Themes
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Properties System.Activities.Statements.Flowchart

Search: Clear

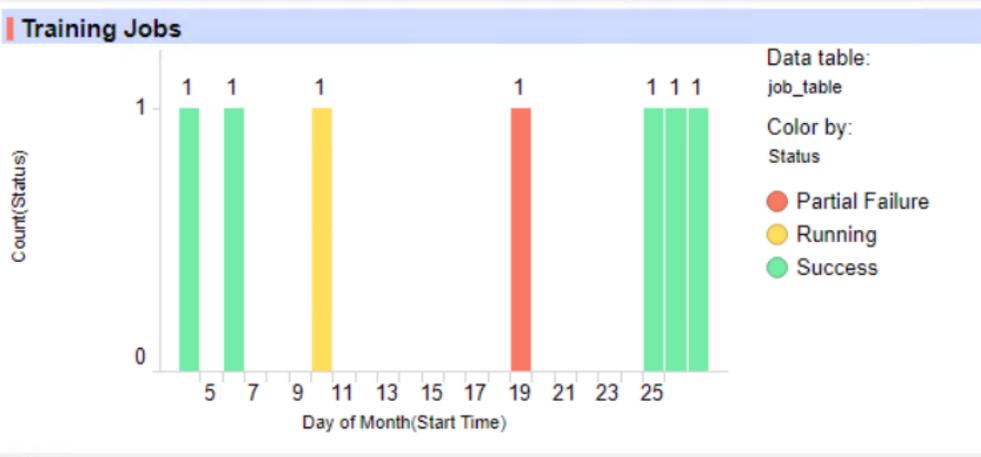
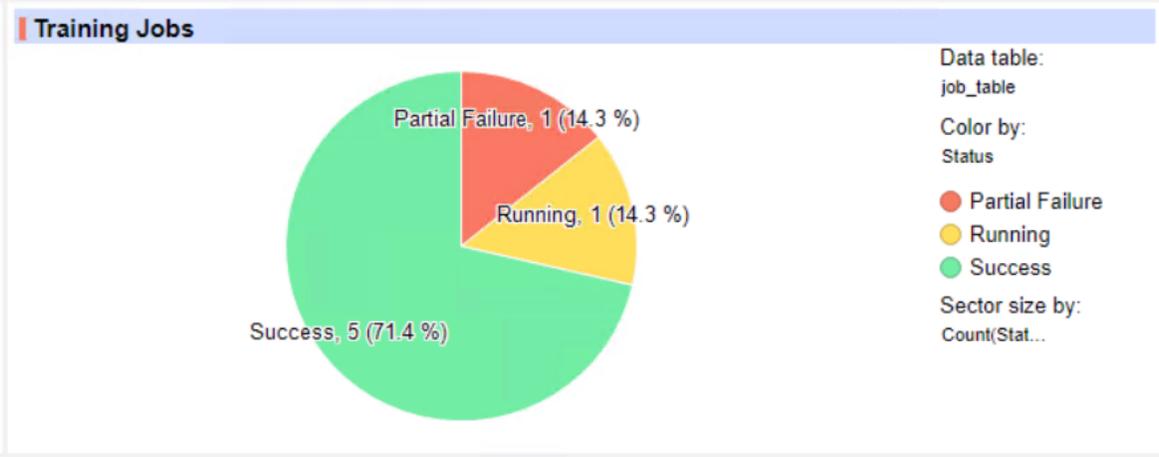
Misc

DisplayName	Workflow Main
ValidateUnconnecte...	<input type="checkbox"/>

Variables

Description Output Error

Workflow Main



Performance Overview - Jobs

Year	Month	Partial Fail...	Running	Success	Grand total
2024	Nov	1	-	3	4
	Dec	-	1	2	3

Performance Overview - Cost

Year	Quarter	Month	Week	Total Cost
2024	Q4	Nov	47	29.25
			48	519.92
		Dec	49	21.17

Jobs Table

Name	Products	Job ID	Status	Start Time	Finish Time	Owner	Run Time	Model Failures	Target Names
demo	PRODUCT_1	35dca39d-5bcb-4a...	Success	12/6/2024 11:29:08 PM	12/7/2024 12:42:38 AM	tomoh	01:13:30	0	FT_FT1_ML_DEMO[BIN_1], FT_FT1_ML_DEMO[BIN_2], FT_FT1...
20241204 Subset ...	PRODUCT_1	dbb04d69-c67a-45...	Success	12/4/2024 11:26:13 PM	12/4/2024 11:53:33 PM	edwardz	00:27:19	0	FT_FT1_ML_DEMO[BIN_1], FT_FT1_ML_DEMO[BIN_2], FT_FT1...
20241127 4 Bins ...	PRODUCT_1	2fe982e8-f0ec-4df...	Success	11/27/2024 8:03:34 PM	11/27/2024 9:21:42 PM	edwardz	01:18:08	0	FT_FT1_ML_DEMO[BIN_1], FT_FT1_ML_DEMO[BIN_2], FT_FT1...
20241126 4 Bins Job	PRODUCT_1	2a211bc0-9568-4f...	Success	11/26/2024 4:50:37 AM	11/27/2024 6:52:53 PM	edwardz	14:02:16	0	FT_FT1_ML_DEMO[BIN_1], FT_FT1_ML_DEMO[BIN_2], FT_FT1...
20241125 No FE Job	PRODUCT_1	fd0dc9cc-e0a7-46...	Success	11/25/2024 6:36:39 PM	11/25/2024 7:50:51 PM	edwardz	01:14:12	0	FT_FT1_ML_DEMO[BIN_1], FT_FT1_ML_DEMO[BIN_2], FT_FT1...

Properties for Selected Job

Mark items to view details here.

Specifications for Selected Job

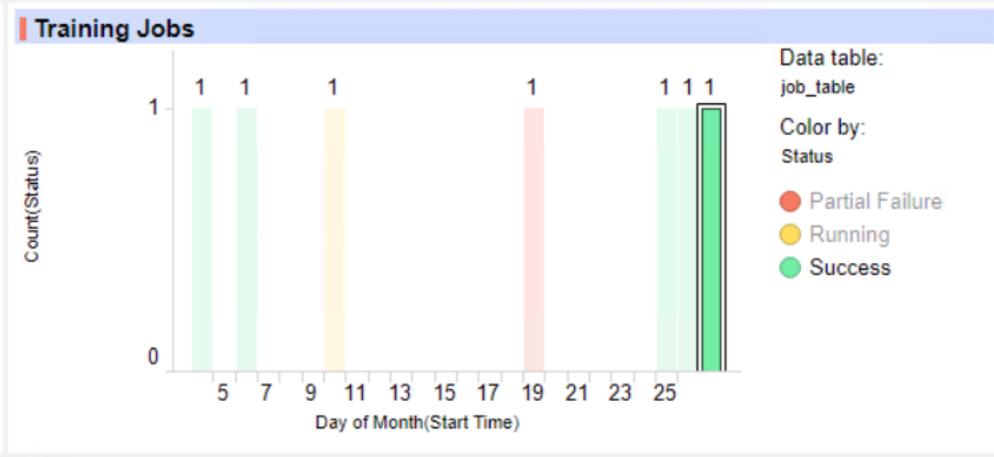
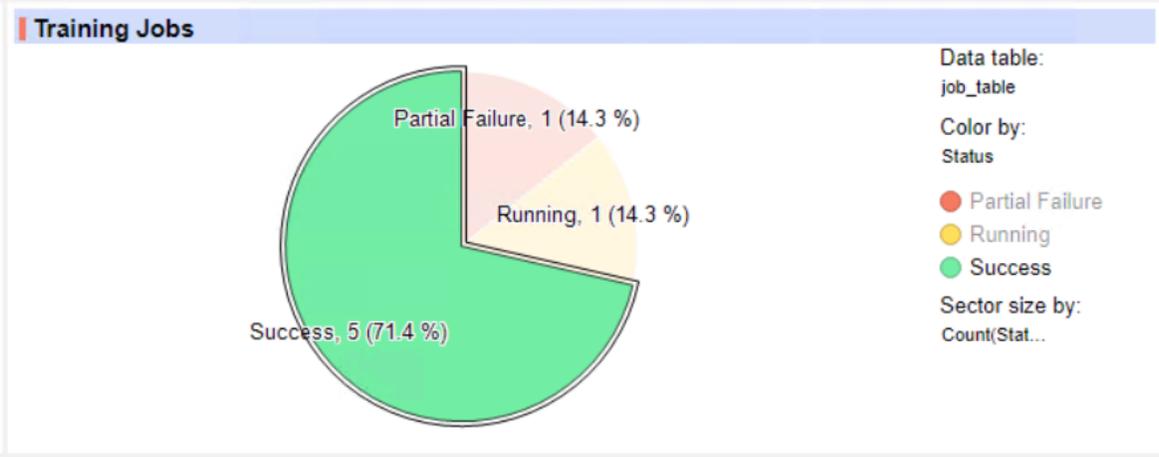
Mark items to view details here.

Data Source for Selected Job

Mark items to view details here.

Training Jobs

Date Range: Last Month



Performance Overview - Jobs

Year	Month	Partial Fail...	Running	Success	Grand total
2024	Nov	1	-	3	4
	Dec	-	1	2	3

Performance Overview - Cost

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			48	519.92
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Jobs Table

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demo	PRODUCT_1	35dca39d-5bcb-4a...	Success	12/6/2024 11:29:08 PM	12/7/2024 12:42:38 AM	tomoh	01:13:30	0	FT_FT1_ML_DEMO[BIN_1], FT_FT1_ML_DEMO[BIN_2], FT_FT...
20241204 Subset ...	PRODUCT_1	dbb04d69-c67a-45...	Success	12/4/2024 11:26:13 PM	12/4/2024 11:53:33 PM	edwardz	00:27:19	0	FT_FT1_ML_DEMO[BIN_1], FT_FT1_ML_DEMO[BIN_2], FT_FT...
20241127 4 Bins ...	PRODUCT_1	2fe982e8-f0ec-4df...	Success	11/27/2024 8:03:34 PM	11/27/2024 9:21:42 PM	edwardz	01:18:08	0	FT_FT1_ML_DEMO[BIN_1], FT_FT1_ML_DEMO[BIN_2], FT_FT...
20241126 4 Bins Job	PRODUCT_1	2a211bc0-9568-4f...	Success	11/26/2024 4:50:37 AM	11/27/2024 6:52:53 PM	edwardz	14:02:16	0	FT_FT1_ML_DEMO[BIN_1], FT_FT1_ML_DEMO[BIN_2], FT_FT...
20241125 No EE Job	PRODUCT_1	f0f0dc9cc-e0a7-46...	Success	11/25/2024 6:36:39 PM	11/25/2024 7:50:51 PM	edwardz	01:14:12	0	FT_FT1_ML_DEMO[BIN_1], FT_FT1_ML_DEMO[BIN_2], FT_FT...

Properties for Selected Job

Name	Job ID	Products	Method
20241127 4 Bins ...	2fe982e8-f0...	PRODUCT_1	Predictive Binning

Specifications for Selected Job

Run Time	Cost	Start Time	Finish T
01:18:08	14.63	11/27/2024 8:03:34 PM	11/27/2024 9:21:42 PM

Data Source for Selected Job

Target Names
FT_FT1_ML_DEMO[BIN_1], FT_FT1_ML_DEMO[BIN_2], FT_FT1_ML_DEMO[BIN_3], FT_FT1_ML_DEMO[BIN_4]

Navigation

- [Load Drilldown](#)
- [View Training Results](#)
- [Diagnose Model](#)
- [Deploy Model](#)
- [View/Edit Model Information](#)

Model Action

- [Delete Model](#)

Performance Overview - Model Status

Year	Quarter	Month	Week	Deployed	Trained	Grand total
2024	Q4	Nov	47	3	-	3
			48	1	14	15
		Dec	49	2	4	6
Grand total				6	18	24

Data table: Model_Index
Colors: All values

Jobs For Selected Model

Name	Products	Job ID	Status	Start Time	Finish Time	Owner	Run Time
20241127 4 Bins ...	PRODUCT_1	2fe982e8-f0ec-4df9-acfb-a73654ca4922	Success	11/27/2024 8:03:34 PM	11/27/2024 9:21:42 PM	edwardz	01:18:08

Models Table

Model Name	Insert Time	Job ID	Target Name	Type	Status	Model ID	Owner	AUC
FT_FT1_ML_DEMO\$...\$BIN_2	11/27/2024 9:21:11 PM	2fe982e8-f0ec-4df9-acfb-a73654ca4922	FT_FT1_ML_DEMO[BIN_2]	Classification - Binary	Trained	f788861c-7329-499e-97e7-38c05cbffe4a	edwardz	.983353345
FT_FT1_ML_DEMO\$...\$BIN_4	11/27/2024 6:52:13 PM	2a211bc0-9568-4f6b-bfda-62cb5e9ef832	FT_FT1_ML_DEMO[BIN_4]	Classification - Binary	Trained	8c4e4e96-d401-4499-bd7a-54d360923d2d	edwardz	.984214533
FT_FT1_ML_DEMO\$...\$BIN_3	11/27/2024 6:52:13 PM	2a211bc0-9568-4f6b-bfda-62cb5e9ef832	FT_FT1_ML_DEMO[BIN_3]	Classification - Binary	Trained	bc0e61ba-c2a7-44fe-978c-b924c8fbd28a	edwardz	.982440857
FT_FT1_ML_DEMO\$...\$BIN_2	11/27/2024 6:52:13 PM	2a211bc0-9568-4f6b-bfda-62cb5e9ef832	FT_FT1_ML_DEMO[BIN_2]	Classification - Binary	Trained	102fd7fe-9fc3-4fc4-a6df-65b017098909	edwardz	.983353345
FT_FT1_ML_DEMO\$...\$BIN_2	11/27/2024 6:41:49 AM	2a211bc0-9568-4f6b-bfda-62cb5e9ef832	FT_FT1_ML_DEMO[BIN_2]	Classification - Binary	Trained	a7e3c116-be8c-4827-bfae-28cb2c9f5a16	edwardz	.983353345
FT_FT1_ML_DEMO\$...\$BIN_3	11/27/2024 6:41:38 AM	2a211bc0-9568-4f6b-bfda-62cb5e9ef832	FT_FT1_ML_DEMO[BIN_3]	Classification - Binary	Trained	f037160d-92f2-4810-a063-f68f7aab7d73	edwardz	.982440857

Data Sources for Selected Model

Type	Target Name	Use Case
Classification - Binary	FT_FT1_ML_DEMO[BIN_2]	Predictive Binning

Data limiting: Marking
Data table: Model_Index
Colors:

03.

Model
Usage

PDF

SOLUTIONS™

Model Usage

Bring Your Own Algorithm

- Use your custom model with ModelOps

Predictive Binning

- Throw out bad die early
- Reduce packaging cost, improve quality

Algorithm	Overkill (%)	Failure Capture (%)
Predictive Binning	1.00%	77.80%
DPAT – Top 10 parameters	0.60%	3.95%
DPAT – IDDQ parameters	1.00%	0.74%

[Back to Models](#)

[Diagnose Model](#)

Model Details

Model ID	Status	Target Name	Insert Time	Model Name	Type	Owner	Data limiting:
f788861c-7329-499e-97e7-38c05cbffe4a	Trained	FT_FT1_ML_DEMO[BIN_2]	11/27/2024 9:21:11 PM	FT_FT1_ML_DEMO\$..._S\$BIN_2	Classification - Binary	edwardz	<input checked="" type="checkbox"/> Marking Data table: Model_Index

Set Model Threshold

Fails Captured

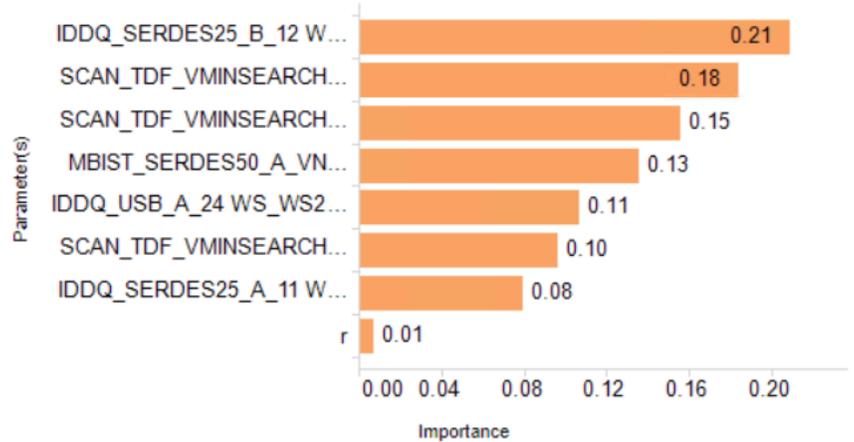
Fail Captured% - Enter Min (0<Fail Captured%<100)

Overkill% - Enter Max (0<Overkill%<100)

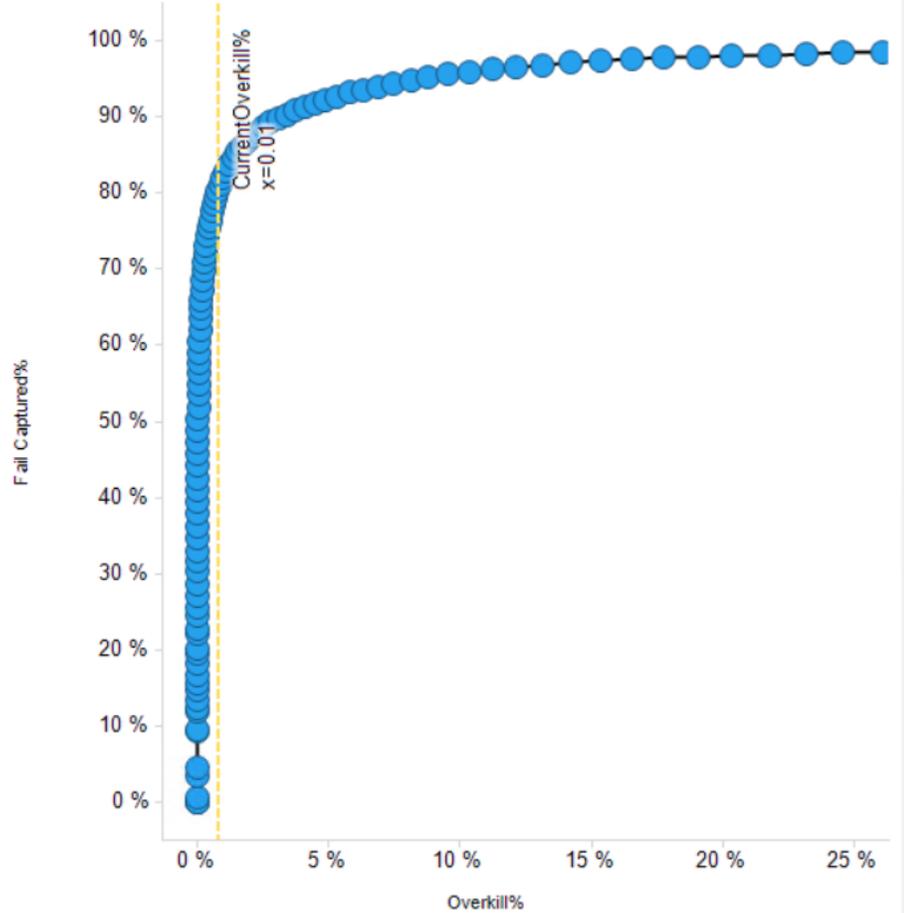
Fails Captured% and Overkill% by Model Threshold

CurrentThreshold	CurrentFailCaptured%	CurrentOverkill%
0.62	80.17 %	0.77 %

Feature Importance



Fails Captured% vs. Overkill%



Error Matrix - Counts

Failures Captured	Overkills	Fail Tests	Pass Tests
18004	14396	4452	1848908

Error Matrix - Percentage

FailCapture%	Overkill%	Fail Test%	Pass Test%
0.955	0.763	0.236	98.046

[Back to Models](#)

[Diagnose Model](#)

Model Details

Model ID	Status	Target Name	Insert Time	Model Name	Type	Owner	Data limiting:
f788861c-7329-499e-97e7-38c05cbffe4a	Trained	FT_FT1_ML_DEMO[BIN_2]	11/27/2024 9:21:11 PM	FT_FT1_ML_DEMO\$..._S\$BIN_2	Classification - Binary	edwardz	Marking Data table: Model_Index

Set Model Threshold

Fails Captured

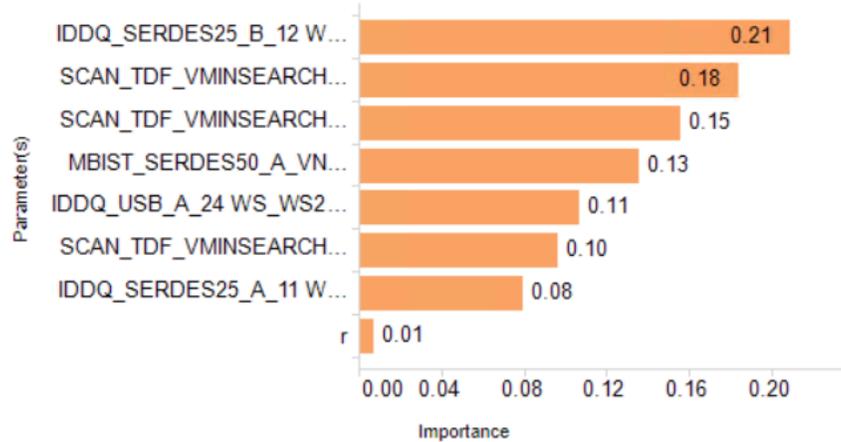
Fail Captured% - Enter Min (0<Fail Captured%<100)

Overkill% - Enter Max (0<Overkill%<100)

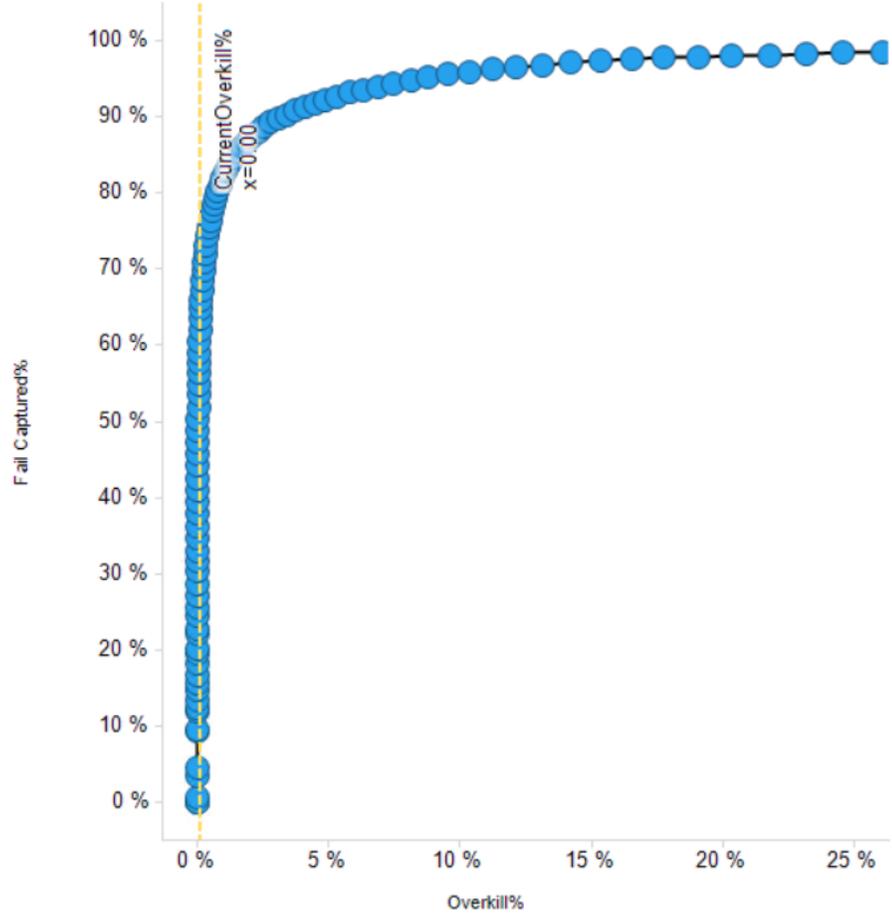
Fails Captured% and Overkill% by Model Threshold

CurrentThreshold	CurrentFailCaptured%	CurrentOverkill%
0.79	60.60 %	0.08 %

Feature Importance



Fails Captured% vs. Overkill%



Error Matrix - Counts

Failures Captured	Overkills	Fail Tests	Pass Tests
13609	1534	8847	1861770

Error Matrix - Percentage

FailCapture%	Overkill%	Fail Test%	Pass Test%
0.722	0.081	0.469	98.728

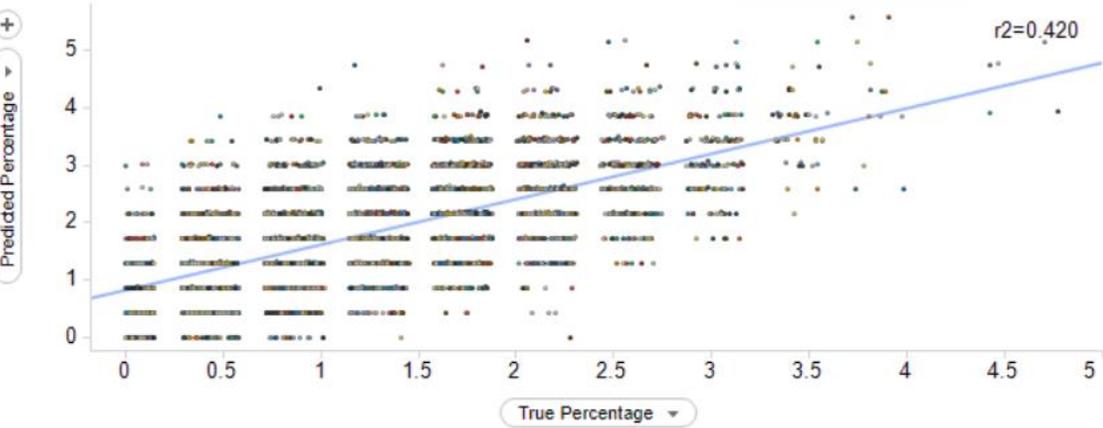
[Back to Models](#)

[Deploy Model](#)

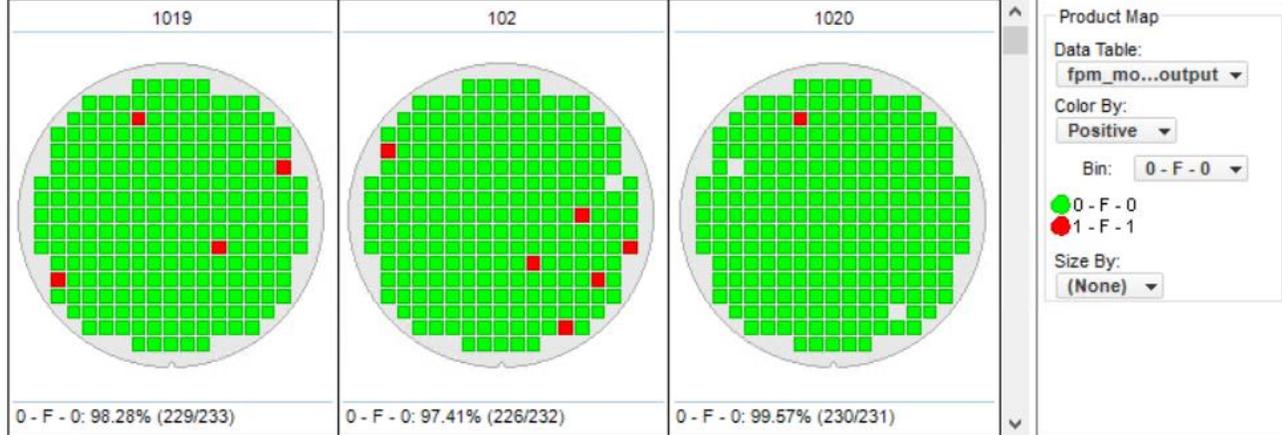
Model Details

Model ID	Status	Target Name	Insert Time	Model Name	Type	Owner	Job ID
f788861c-7329-499e-97e7-38c05cbffe4a	Trained	FT_FT1_ML_DEMO[BIN_2]	11/27/2024 9:21:11 PM	FT_FT1_ML_DEMO\$...\$BIN_2	Classification - Binary	edwardz	2fe982e8-f0ec-4df9-acfb-a...

True vs Predicted Failures by Wafer



Actual Results Wafer Map



Product Map

Data Table: fpm_mo...output

Color By: Positive

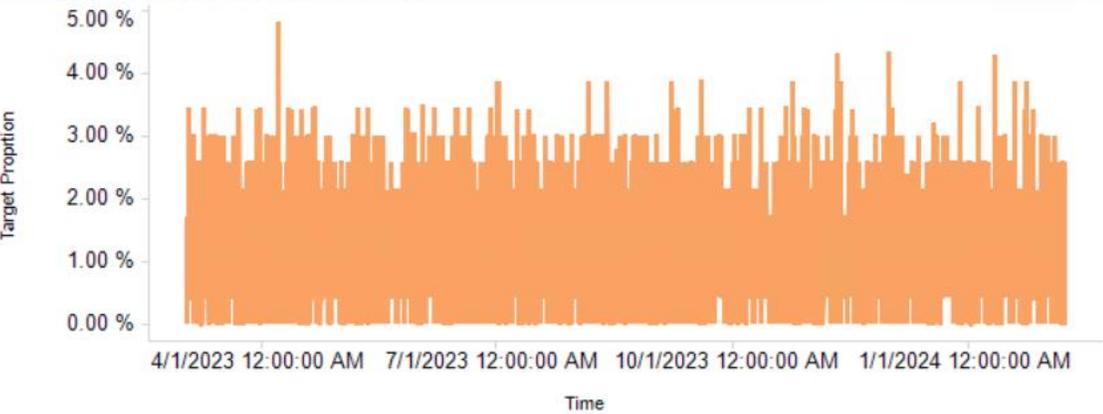
Bin: 0 - F - 0

0 - F - 0 (Green)

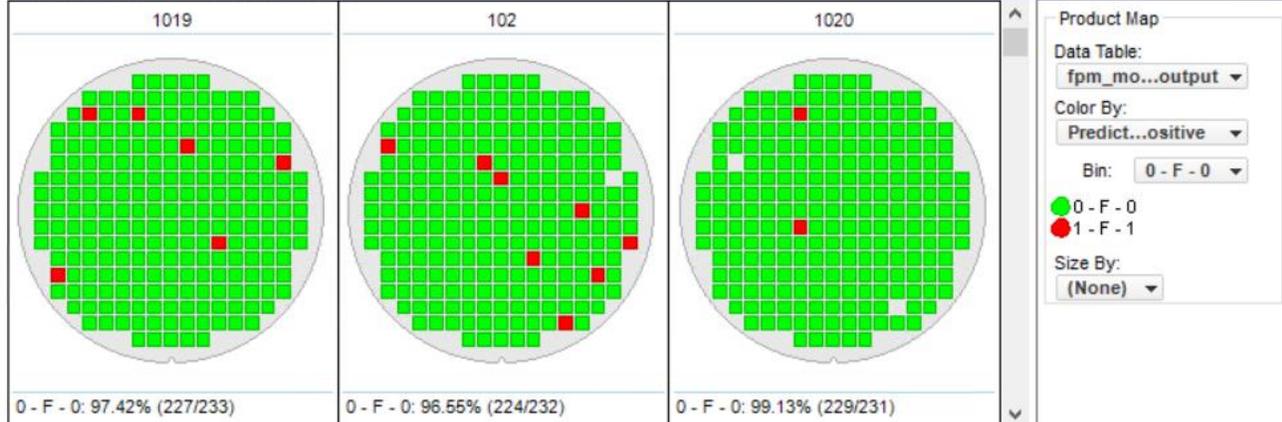
1 - F - 1 (Red)

Size By: (None)

Target Failure (%) by Wafer and Time



Predicted Results Wafer Map



Product Map

Data Table: fpm_mo...output

Color By: Predict...ositive

Bin: 0 - F - 0

0 - F - 0 (Green)

1 - F - 1 (Red)

Size By: (None)

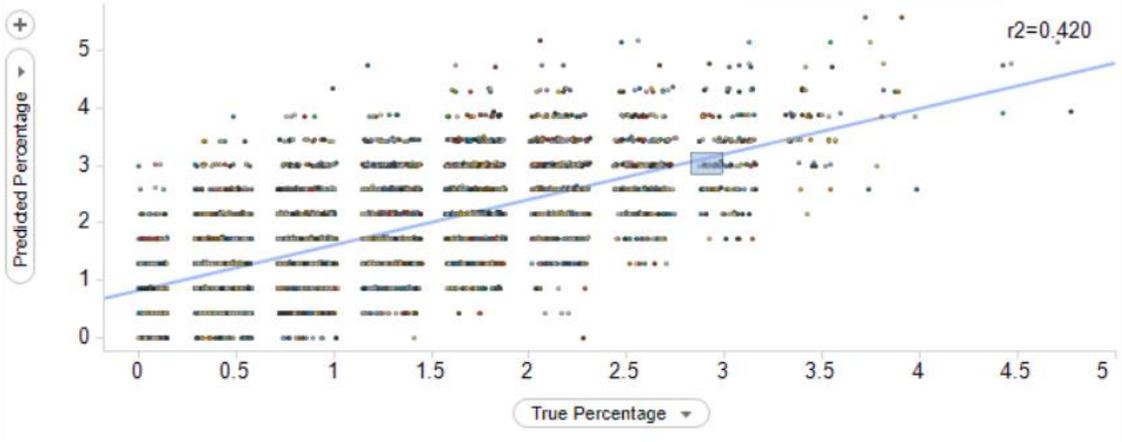
[Back to Models](#)

[Deploy Model](#)

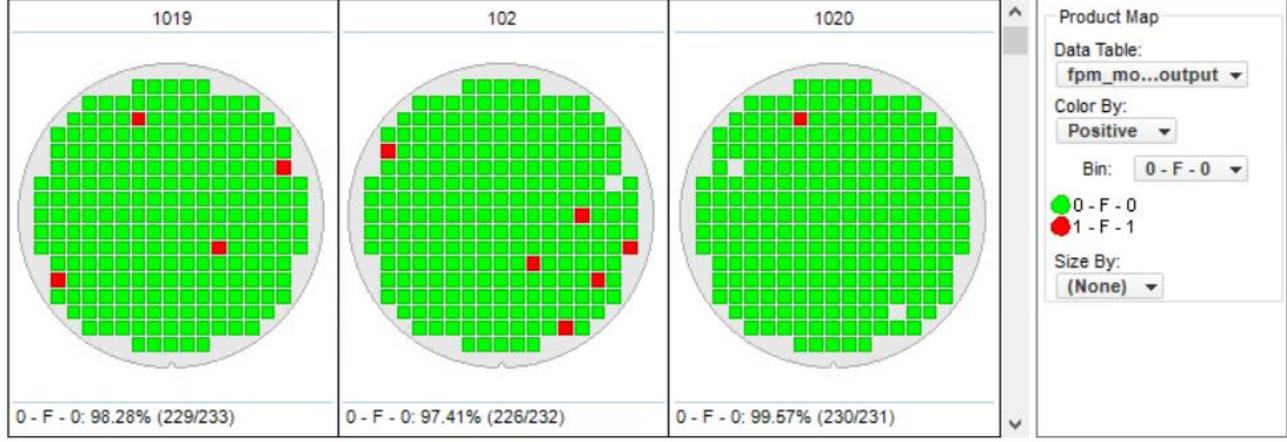
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Model ID	Status	Target Name	Insert Time	Model Name	Type	Owner	Job ID
f788861c-7329-499e-97e7-38c05cbffe4a	Trained	FT_FT1_ML_DEMO[BIN_2]	11/27/2024 9:21:11 PM	FT_FT1_ML_DEMO\$...\$BIN_2	Classification - Binary	edwardz	2fe982e8-f0ec-4df9-acfb-a...

True vs Predicted Failures by Wafer



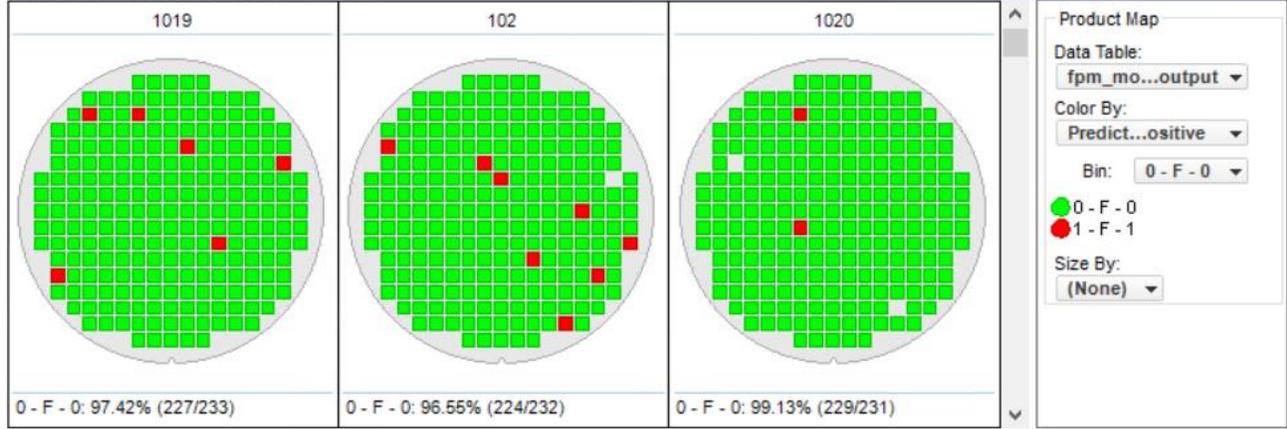
Actual Results Wafer Map



Target Failure (%) by Wafer and Time



Predicted Results Wafer Map



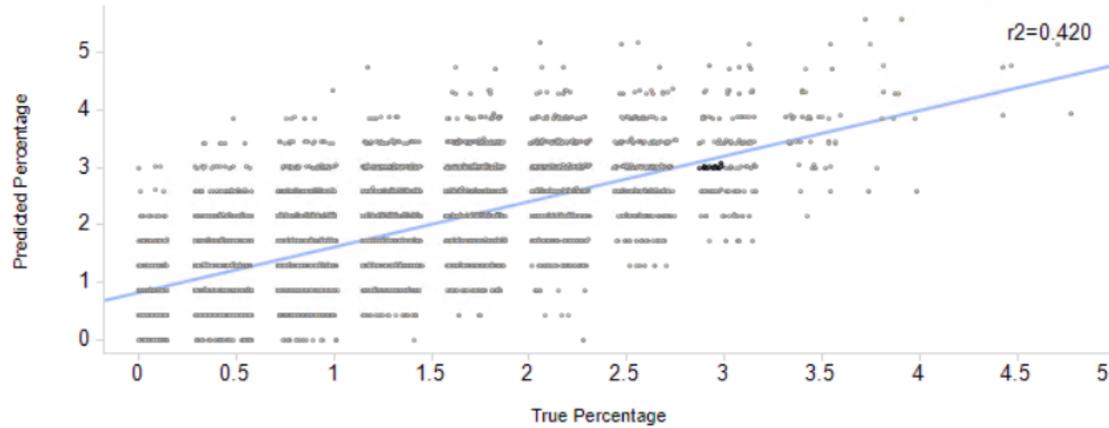
Back to Models

Deploy Model

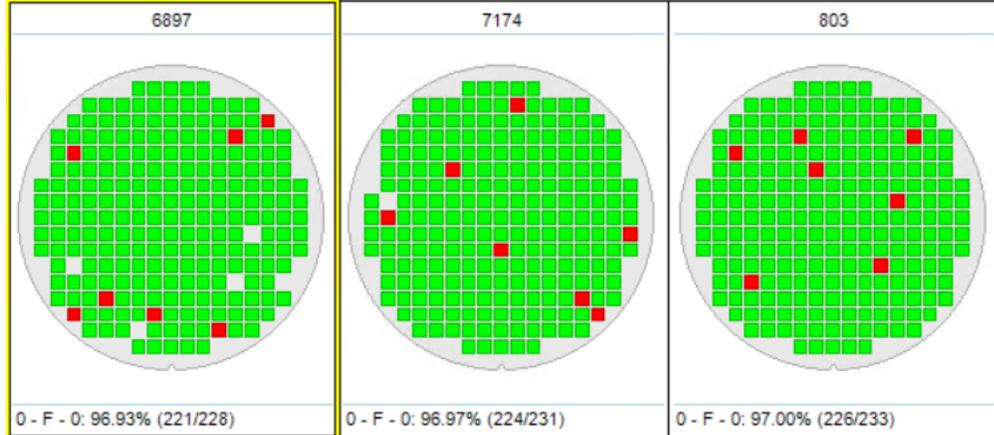
Model Details

Model ID	Status	Target Name	Insert Time	Model Name	Type	Owner	Job ID
f788861c-7329-499e-97e7-38c05cbffe4a	Trained	FT_FT1_ML_DEMO[BIN_2]	11/27/2024 9:21:11 PM	FT_FT1_ML_DEMOS_..._\$_BIN_2	Classification - Binary	edwardz	2fe982e8-f0ec-4df9-acfb-a

True vs Predicted Failures by Wafer



Actual Results Wafer Map



Product Map

Data Table: fpm_mo...output

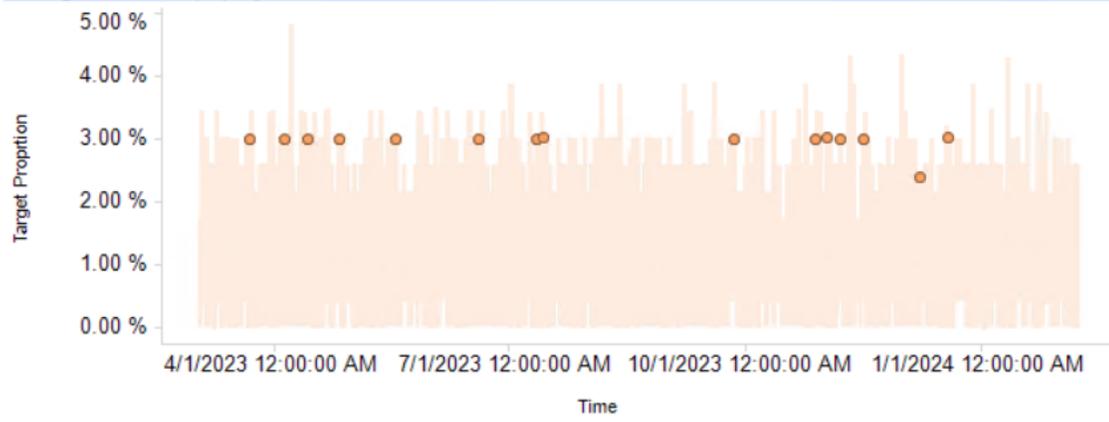
Color By: Positive

Bin: 0 - F - 0

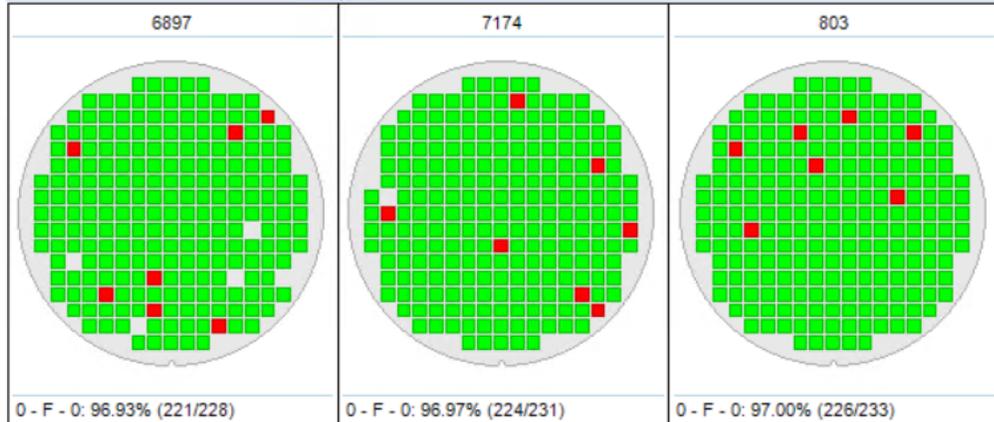
Legend: 0 - F - 0 (Green), 1 - F - 1 (Red)

Size By: (None)

Target Failure (%) by Wafer and Time



Predicted Results Wafer Map



Product Map

Data Table: fpm_mo...output

Color By: Predict...ositive

Bin: 0 - F - 0

Legend: 0 - F - 0 (Green), 1 - F - 1 (Red)

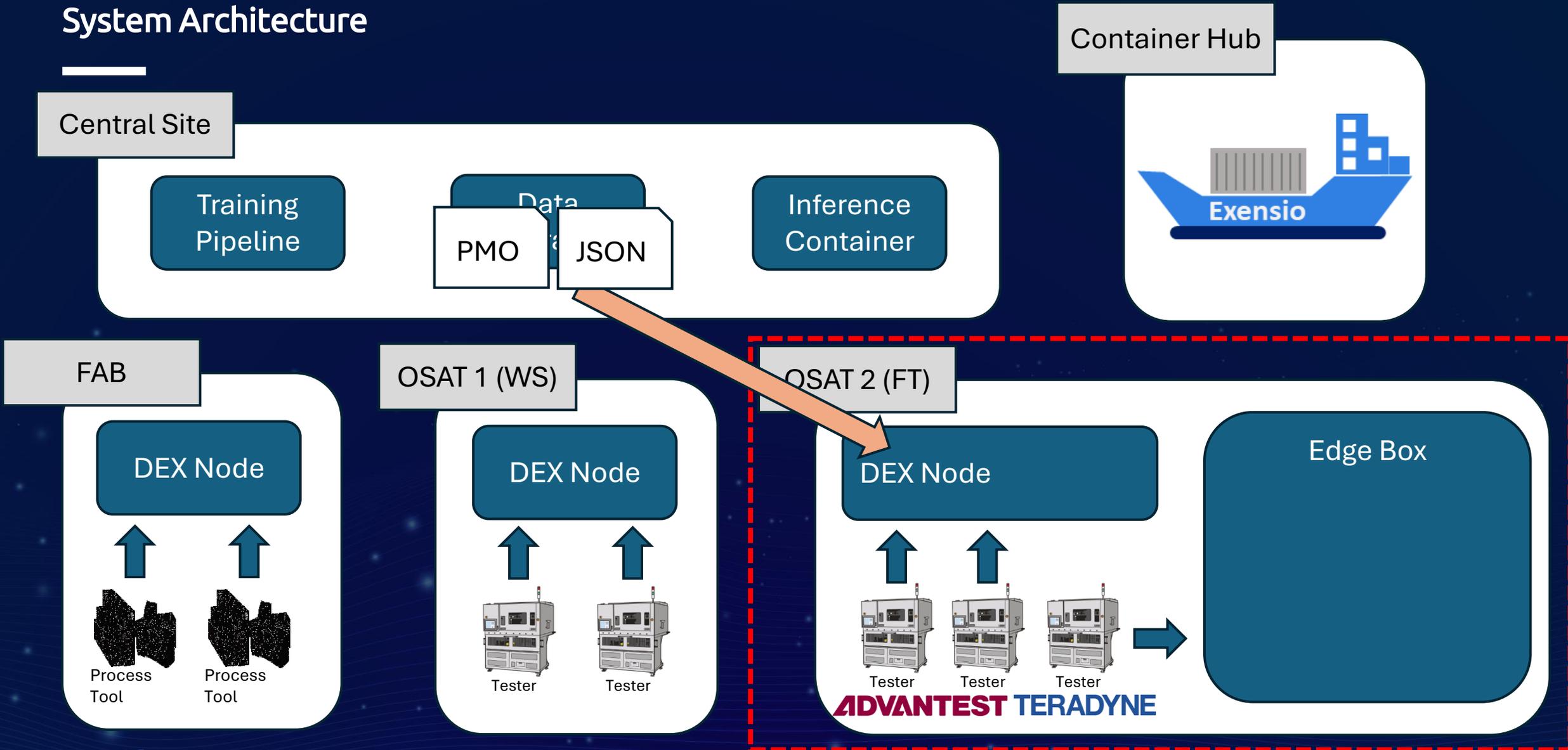
Size By: (None)

04.

Model Deployment

PDF
SOLUTIONS™

System Architecture



Back To Models

Model Info & Management

Selected Model

Model Name	Status	Target Name	Insert Time	Type	Owner	Job ID	Model ID
FT_FT1_ML_DEMO\$...\$BIN_2	Trained	FT_FT1_ML_DEMO[BIN_2]	11/27/2024 9:21:11 PM	Classification - Binary	edwardz	2fe982e8-f0ec-4df9-acfb-a73654ca4922	f788861c-7329-499e-97e7-38c05

Deploy Model

Company and Location:

edge

Comment:

Test Programs:

Type to search in list

- LOGISTICREGRESSION

Training Programs:

Type to search in list

- FT_FT1_ML_DEMO
- WS_WS1_ML_DEMO
- WS_WS2_ML_DEMO

Cancel Deploy

Back To Models

Model Info & Management

Selected Model

Model Name	Status	Target Name	Insert Time	Type	Owner	Job ID	Model ID
FT_FT1_ML_DEMO\$...\$BIN_2	Trained	FT_FT1_ML_DEMO[BIN_2]	11/27/2024 9:21:11 PM	Classification - Binary	edwardz	2fe982e8-f0ec-4df9-acfb-a73654ca4922	f788861c-7329-499e-97e7-38c05

Deploy Model

Company and Location:

edge

Comment:

Test Programs:

Type to search in list

- LOGISTICREGRESSION

Training Programs:

Type to search in list

- FT_FT1_ML_DEMO
- WS_WS1_ML_DEMO
- WS_WS2_ML_DEMO

Cancel Deploy

[Back To Models](#)

[Model Info & Management](#)

Selected Model

Model Name	Status	Target Name	Insert Time	Type	Owner	Job
FT_FT1_ML_DEMO\$...\$BIN_2	Deployed	FT_FT1_ML_DEMO[BIN_2]	11/27/2024 9:21:11 PM	Classification - Binary	edwardz	2fe9

Deploy Model
Deploy Model success. [CLOSE](#)

Deploy Model

Company and Location:

edge

Comment:

Test Programs:

Type to search in list

- LOGISTICREGRESSION

Training Programs:

Type to search in list

- FT_FT1_ML_DEMO
- WS_WS1_ML_DEMO
- WS_WS2_ML_DEMO

[Cancel](#) [Deploy](#)

- Home
- Operational Status
- Rules
 - Rules List**
 - Rules Set List
 - Rules Simulation
 - Rules Set Simulation
 - Bulk Rule Operations
 - Incoming Rules
 - Custom Rules List
 - Simulation Status
 - Simulation Dashboards
 - Limit Approval
- Configuration

Search you can use wildcard metacharacters

Name: Type: ALL Target: ALL

[Advanced](#)

Rules

#	Name	Type	Status	Target	Enabled	Tools
1	MLIE - LOGISTIC REGRESSION - 7788861c-7329-499e-97e7-38c05cbffe4a	INFERENCEENGINE	PRODUCTION	Cell	✓	
2	transfer_res_to_edge	DEX_TRANSFER	PRODUCTION	DEX	✓	
3	MLIE_CELL	INFERENCEENGINE	PRODUCTION	CELL	✓	

- Parameters
- History
- Scope

Revisions

Revision	Timestamp	Username	Comments
No data available in table			

- Home
- Operational Status >
- Rules >
 - Rules List
 - Rules Set List
 - Rules Simulation
 - Rules Set Simulation
 - Bulk Rule Operations
 - Incoming Rules
 - Custom Rules List
 - Simulation Status
 - Simulation Dashboards >
 - Limit Approval
- Configuration >

Search you can use wildcard metacharacters

Name: Type: Target:

[Advanced](#)

Rules

#	Name	Type	Status	Target	Enabled	Tools
1	MLIE - LOGISTIC REGRESSION - f788861c-7329-499e-97e7-38c05cbffe4a	INFERENCEENGINE	PRODUCTION	Cell	✓	
2	transfer_res_to_edge	DEX_TRANSFER	PRODUCTION	DEX	✓	
3	MLIE_CELL	INFERENCEENGINE	PRODUCTION	CELL	✓	

Parameters | History | Scope | Actions

Inference Engine Input files

MLIE - LOGISTIC REGRESSION - f788861c-7329-499e-97e7-38c05cbffe4a

Search:

Name	Value
Model ID (model_id)	f788861c-7329-499e-97e7-38c05cbffe4a

Showing 1 to 1 of 1 entries

Revisions

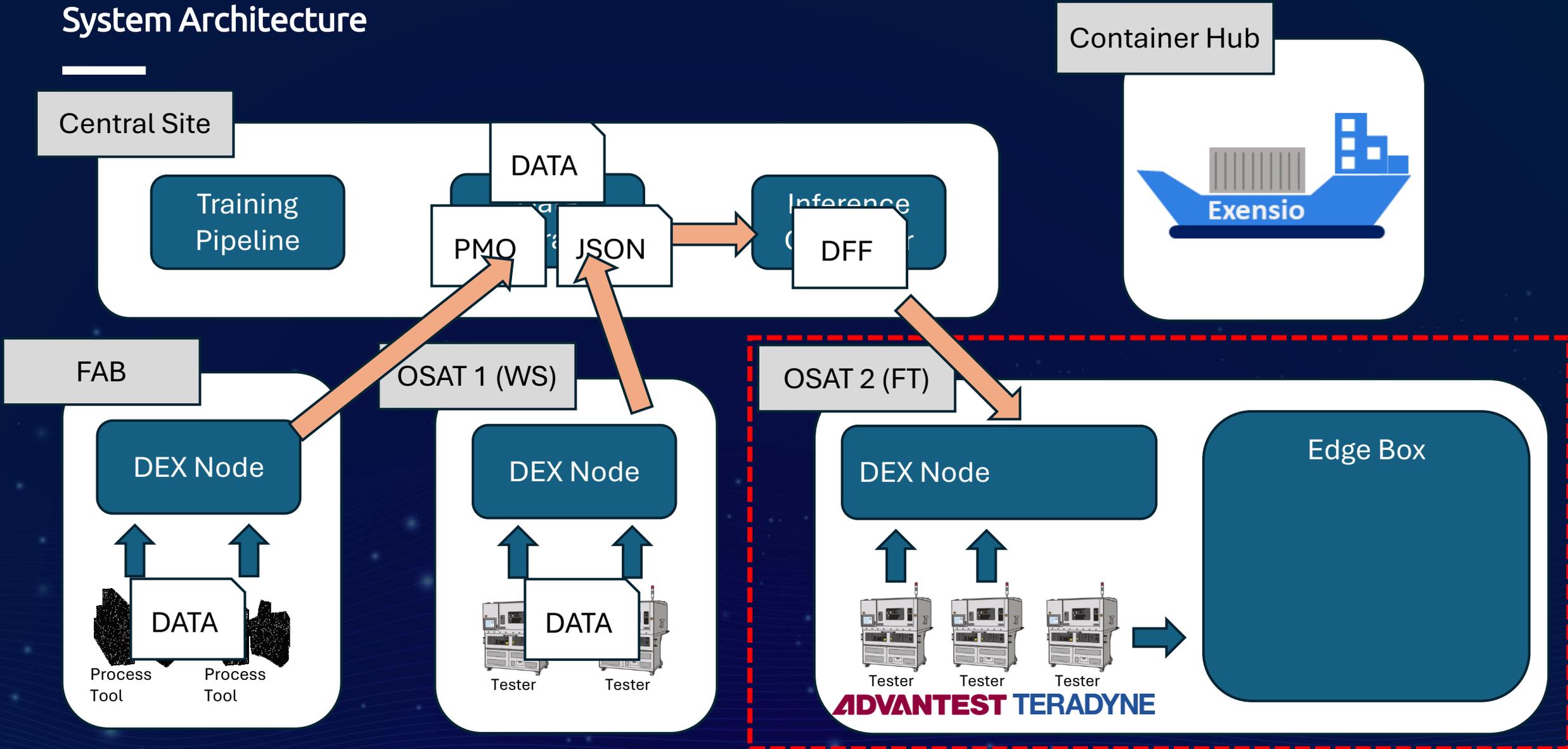
05.

Data Feed
Forward

PDF

SOLUTIONS™

System Architecture



Your data is ready!

How do you want to continue?



Start from data
Select data of interest and let us recommend visualizations



Start from visualizations
Select a visualization type and continue from there



Explore by searching
Search to explore your data and create visualizations

Activate Windows
Go to Settings to activate Windows.

Connect to Manufacturing Analytics Database

System Connection Custom Connection

Database Servers (Oracle)	Databases
EXNDB	
GA_DEV_QA	
GOLDEN_QA_GA	

Database Engine: Informix Oracle

Database Driver: Native ODBC

Logging:

SQL Command Timeout (sec.) Disable Database Connection Version Warning

Authentication

User Name: Password:

Comments:

Connection Mode: Auto Connect

Disconnected



Start from data
Select data of interest and
recommend visualization



Explore by searching
Search to explore your data and
create visualizations

Activate Windows
Go to Settings to activate Windows.

Connect to Manufacturing Analytics Database

System Connection Custom Connection

Database Servers (Oracle)

- EXNDB
- GA_DEV_QA
- GOLDEN_QA_GA

Databases

- PROD
- TEST

Database Engine: Informix Oracle

Database Driver: Native ODBC

Logging: Browse

SQL Command Timeout (sec.) Disable Database Connection Version Warning

Authentication

User Name: Password:

Comments:

Connection Mode: Auto Connect

Disconnected

<< Less Options Cancel Disconnect Connect



Start from data
Select data of interest and
recommend visualization



Explore by searching
Search to explore your data and
create visualizations

Activate Windows
Go to Settings to activate Windows.

Standard

Select Meta Type

31 - MLIE Device Master Table

--

Raw Level Programs

28952a76-44ad-4fea-8901-958751c31a6c

Parameters

name	unit	num	program	count

0

1

0

Meta Filters

Name	Count	Values

Lots

--

Use Source Lot

Wafers

name	num

Statistics

- avg
- crit
- cpk-outlier
- cpk-prod
- cpk-spec
- cpk-whatif
- max
- min
- q1
- q2
- q3

Date/Time Selection

Start Time

From: 09-Nov-2024 17:42:24

To: 09-Dec-2024 17:42:24

Advanced Selection

0

0

Enable Filtering

...

Cancel

Clear

Filters >>

Load

Advanced
Indexes

Activate Windows
Go to Settings to activate Windows.

Standard

Select Meta Type

31 - MLIE Device Master Table

Parameters

Conditions Advanced

Name	Count	Values
------	-------	--------

Raw Level	Programs
28952a76-44ad-4fea-8901-958751c31a6c	

name	count
------	-------

0

1

0

Meta Filters

Lots

Use Source Lot

Wafers

Statistics

Name	Count	Values
------	-------	--------

name	num
------	-----

- avg
- crit
- cpk-outlier
- cpk-prod
- cpk-spec
- cpk-whatif
- max
- min
- q1
- q2
- q3

Date/Time Selection

Start Time
From: 09-Nov-2024 17:44:48
To: 09-Dec-2024 17:44:48

Advanced Selection

0

0

Enable Filtering

...

Cancel Clear Filters >> Load

Advanced
Indexes

Activate Windows
Go to Settings to activate Windows.

Standard

Select Meta Type

31 - MLIE Device Master Table

Raw Level Programs

28952a76-44ad-4fea-8901-958751c31a6c

0

1

Meta Filters

Name	Count	Values
------	-------	--------

Lots

DEMOLOT01
QLOT01

Use Source Lot

Date/Time Selection

Start Time

From: 09-Nov-2024 17:44:48

To: 09-Dec-2024 17:44:48

Advanced Selection

1

Parameters

Conditions Advanced

name	unit	num	program	count
IDDQ_SERDE...		2	28952a76-44a...	1
SCAN_TDF_V...		3	28952a76-44a...	1
IDDQ_USB_A...		4	28952a76-44a...	1

3

Wafers

name	num
01	

Statistics

- avg
- crit
- cpk-outlier
- cpk-prod
- cpk-spec
- cpk-whatf
- max
- min
- q1
- q2
- q3

Enable Filtering

Advanced
Indexes

Cancel Clear Filters >> Load

Activate Windows
Go to Settings to activate Windows.

MLIE Device Master Table

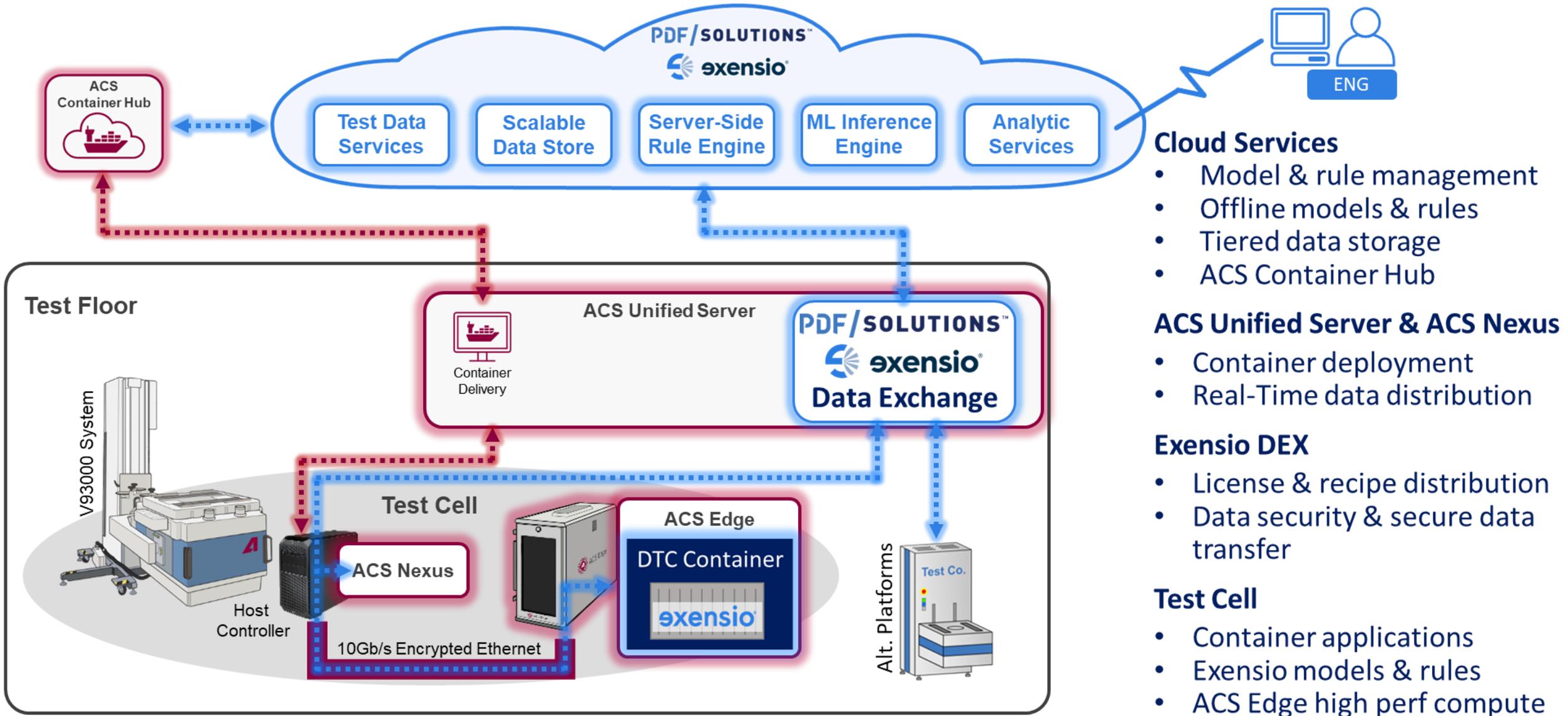
Lot	Wafer	start_time	rework_flag	ecid	IDDQ_SERDES25_A_11\$ _SWS_WS2_ML_DEMO	SCAN_TDF_VMINSEARCH_SERDES50_A_19\$ _SWS_WS2_ML_DEMO	IDDQ_USB_A_24\$ WS_WS2_ML_DEMO
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_8_-2	12.00	54.00	26.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_8_-1	97.00	69.00	46.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_8_0	55.00	71.00	72.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_8_1	19.00	25.00	76.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_8_2	8.00	86.00	10.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_7_-5	56.00	42.00	25.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_7_-4	98.00	24.00	50.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_7_-3	19.00	53.00	28.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_7_-2	31.00	50.00	55.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_7_-1	42.00	11.00	15.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_7_0	26.00	74.00	90.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_7_1	36.00	85.00	66.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_7_2	56.00	9.00	33.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_7_3	66.00	38.00	23.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_7_4	0.00	19.00	59.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_7_5	52.00	30.00	68.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_6_-6	15.00	4.00	93.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_6_-5	35.00	7.00	58.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_6_-4	93.00	63.00	94.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_6_-3	11.00	95.00	36.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_6_-2	35.00	85.00	55.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_6_-1	88.00	33.00	68.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_6_0	40.00	54.00	24.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_6_1	77.00	41.00	44.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_6_2	17.00	83.00	91.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_6_3	16.00	98.00	44.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_6_4	81.00	30.00	93.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_6_5	47.00	2.00	55.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_6_6	6.00	60.00	68.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_5_-7	43.00	49.00	36.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_5_-6	50.00	53.00	34.00
DEMOLOT01	01	11/23/2024 8:33:20 AM	3	DEMOLOT01_01_5_-5	2.00	26.00	95.00

Data table:

MLIE Device ...

Activate Windows
Go to Settings to activate Windows.

ACS Real-Time Data Infrastructure (RTDI™) + PDF Solutions DEX



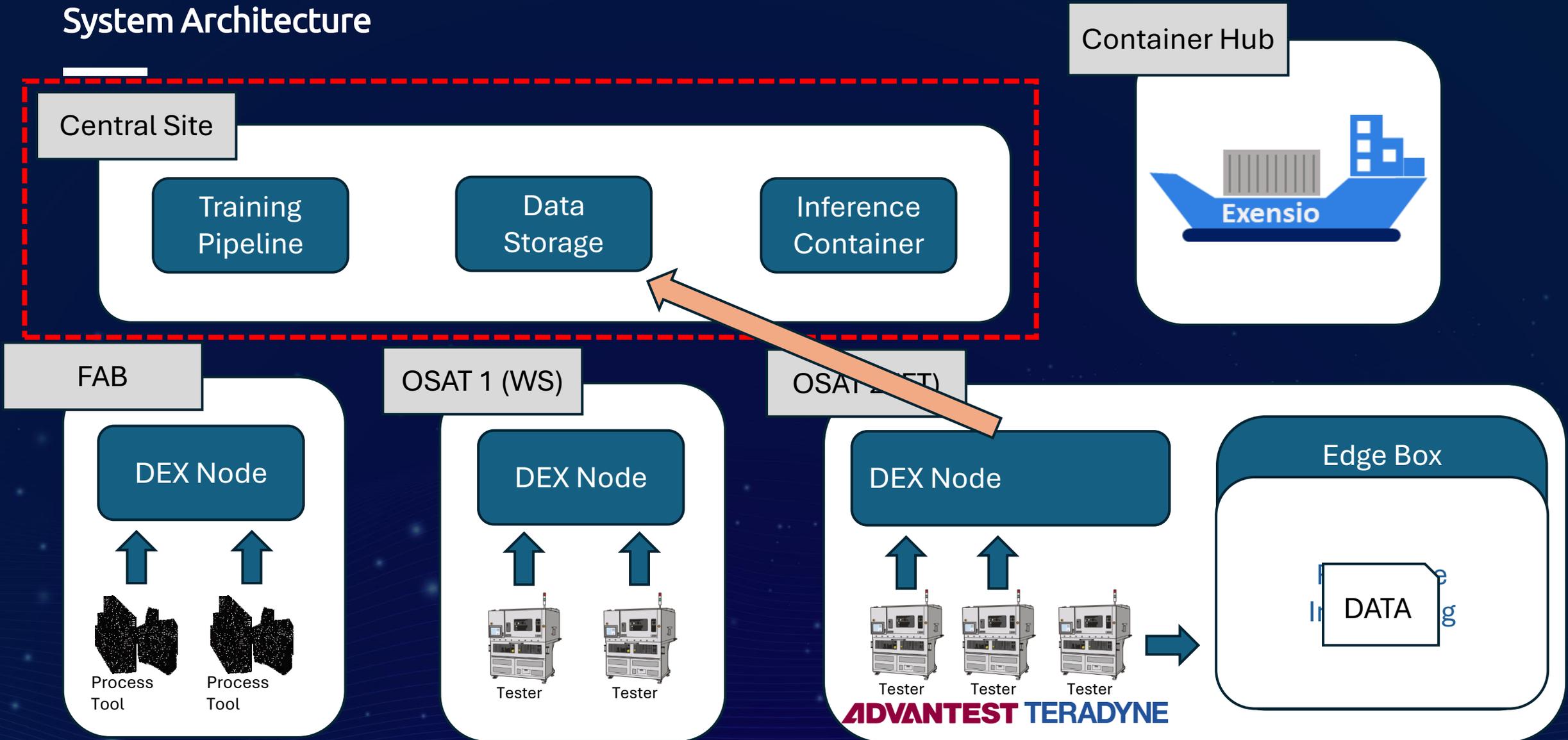
06.

Model
Monitoring

PDF

SOLUTIONS™

System Architecture



Use Case

Select Use Case:

- Predictive Binning
- Predictive Burn-In

Model Actions

Delete Model

Navigation

[View Monitoring Results](#)

[Engine Performance](#)

[View/Edit Model Information](#)

Production Models Summary (one row per model version)

Model Name	Location ID	Use Case	Insert Time	Model ID	Target Name	Status
FT_FT1_ML_DEMOS_..._SBIN_4	1040	Predictive Binning	12/4/2024 11:53:03 PM	518e93ab-3783-44f5-a174-26d307b55d77	FT_FT1_ML_DEMO[BIN_4]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_2	1040	Predictive Binning	12/4/2024 11:53:03 PM	e58448d9-7c7e-4974-b1d4-e3046719afc1	FT_FT1_ML_DEMO[BIN_2]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_3	1040	Predictive Binning	11/27/2024 9:21:11 PM	61ff6343-e9f1-4270-946c-b1d7d030f7db	FT_FT1_ML_DEMO[BIN_3]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_2	1040	Predictive Binning	11/27/2024 9:21:11 PM	f788861c-7329-499e-97e7-38c05cbffe4a	FT_FT1_ML_DEMO[BIN_2]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_3	1040	Predictive Burn-In	11/21/2024 12:28:41 AM	e6325f44-f075-43eb-ad51-b4f6ca815946	FT_FT1_ML_DEMO[BIN_3]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_4	1040	Predictive Burn-In	11/21/2024 12:28:41 AM	2ae60550-850b-44fd-9458-6305a4bdca31	FT_FT1_ML_DEMO[BIN_4]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_2	1040	Predictive Burn-In	11/21/2024 12:28:41 AM	b06f68c6-d607-4f34-a224-0f60c11ad8e8	FT_FT1_ML_DEMO[BIN_2]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_4	1040	Predictive Binning	11/19/2024 11:42:31 AM	73b959e2-ff6b-4489-8a41-b694eb63f350	FT_FT1_ML_DEMO[BIN_4]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_3	1040	Predictive Binning	11/19/2024 11:42:31 AM	464c6daa-c6a3-4b8d-91cd-096d59ea781e	FT_FT1_ML_DEMO[BIN_3]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_2	1040	Predictive Binning	11/19/2024 11:42:31 AM	a7d66913-6f14-4aee-8a55-441dda180976	FT_FT1_ML_DEMO[BIN_2]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_3	1040	Predictive Burn-In	11/18/2024 7:41:21 PM	ed8bee7b-fa64-4a47-882c-b82bc5af29e5	FT_FT1_ML_DEMO[BIN_3]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_2	1040	Predictive Burn-In	11/18/2024 7:41:21 PM	83c02e17-9846-4541-a596-e338688460a1	FT_FT1_ML_DEMO[BIN_2]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_4	1040	Predictive Burn-In	11/18/2024 7:41:21 PM	17182f70-b190-4349-a9b6-bf66f73cff48	FT_FT1_ML_DEMO[BIN_4]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_4	1040	Predictive Burn-In	11/15/2024 5:05:11 PM	ce820916-38b5-48b2-b6a6-ff82f7a58fe7	FT_FT1_ML_DEMO[BIN_4]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_2	1040	Predictive Burn-In	11/15/2024 5:05:11 PM	38a385a1-03ef-44ac-950d-53503fc687f3	FT_FT1_ML_DEMO[BIN_2]	Deployed

Data table: model_table

Use Case

Select Use Case:

- Predictive Binning
- Predictive Burn-In

Model Actions

Delete Model

Navigation

View Monitoring Results

Engine Performance

View/Edit Model Information

Production Models Summary (one row per model version)

Model Name	Location ID	Use Case	Insert Time	Model ID	Target Name	Status
FT_FT1_ML_DEMOS_..._SBIN_4	1040	Predictive Binning	12/4/2024 11:53:03 PM	518e93ab-3783-44f5-a174-26d307b55d77	FT_FT1_ML_DEMO[BIN_4]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_2	1040	Predictive Binning	12/4/2024 11:53:03 PM	e58448d9-7c7e-4974-b1d4-e3046719afc1	FT_FT1_ML_DEMO[BIN_2]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_3	1040	Predictive Binning	11/27/2024 9:21:11 PM	61ff6343-e9f1-4270-946c-b1d7d030f7db	FT_FT1_ML_DEMO[BIN_3]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_2	1040	Predictive Binning	11/27/2024 9:21:11 PM	f788861c-7329-499e-97e7-38c05cbffe4a	FT_FT1_ML_DEMO[BIN_2]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_3	1040	Predictive Burn-In	11/21/2024 12:28:41 AM	e6325f44-f075-43eb-ad51-b4f6ca815946	FT_FT1_ML_DEMO[BIN_3]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_4	1040	Predictive Burn-In	11/21/2024 12:28:41 AM	2ae60550-850b-44fd-9458-6305a4bdca31	FT_FT1_ML_DEMO[BIN_4]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_2	1040	Predictive Burn-In	11/21/2024 12:28:41 AM	b06f68c6-d607-4f34-a224-0f60c11ad8e8	FT_FT1_ML_DEMO[BIN_2]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_4	1040	Predictive Binning	11/19/2024 11:42:31 AM	73b959e2-ff6b-4489-8a41-b694eb63f350	FT_FT1_ML_DEMO[BIN_4]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_3	1040	Predictive Binning	11/19/2024 11:42:31 AM	464c6daa-c6a3-4b8d-91cd-096d59ea781e	FT_FT1_ML_DEMO[BIN_3]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_2	1040	Predictive Binning	11/19/2024 11:42:31 AM	a7d66913-6f14-4aee-8a55-441dda180976	FT_FT1_ML_DEMO[BIN_2]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_3	1040	Predictive Burn-In	11/18/2024 7:41:21 PM	ed8bee7b-fa64-4a47-882c-b82bc5af29e5	FT_FT1_ML_DEMO[BIN_3]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_2	1040	Predictive Burn-In	11/18/2024 7:41:21 PM	83c02e17-9846-4541-a596-e338688460a1	FT_FT1_ML_DEMO[BIN_2]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_4	1040	Predictive Burn-In	11/18/2024 7:41:21 PM	17182f70-b190-4349-a9b6-bf66f73cff48	FT_FT1_ML_DEMO[BIN_4]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_4	1040	Predictive Burn-In	11/15/2024 5:05:11 PM	ce820916-38b5-48b2-b6a6-ff82f7a58fe7	FT_FT1_ML_DEMO[BIN_4]	Deployed
FT_FT1_ML_DEMOS_..._SBIN_2	1040	Predictive Burn-In	11/15/2024 5:05:11 PM	38a385a1-03ef-44ac-950d-53503fc687f3	FT_FT1_ML_DEMO[BIN_2]	Deployed

Data table: model_table

[Back To Models](#)

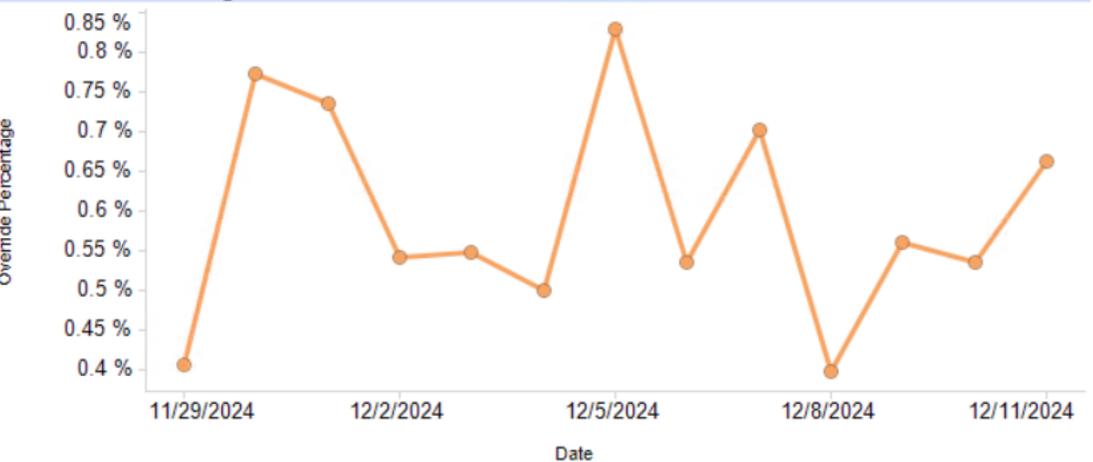
Selected Model

Model Name	Location ID	Use Case	Insert Time	Target Name	Status	Last Run Time	Alerts	Product	Model ID
FT_FT1_ML_DEMO\$..._\$_BIN_3	1040	Predictive Burn-In	11/21/2024 12:28:41 AM	FT_FT1_ML_DEMO[BIN_3]	Deployed	11/21/2024 10:07:18 AM	0	PRODUCT_1	e6325f44-f075-43eb-ad51-t

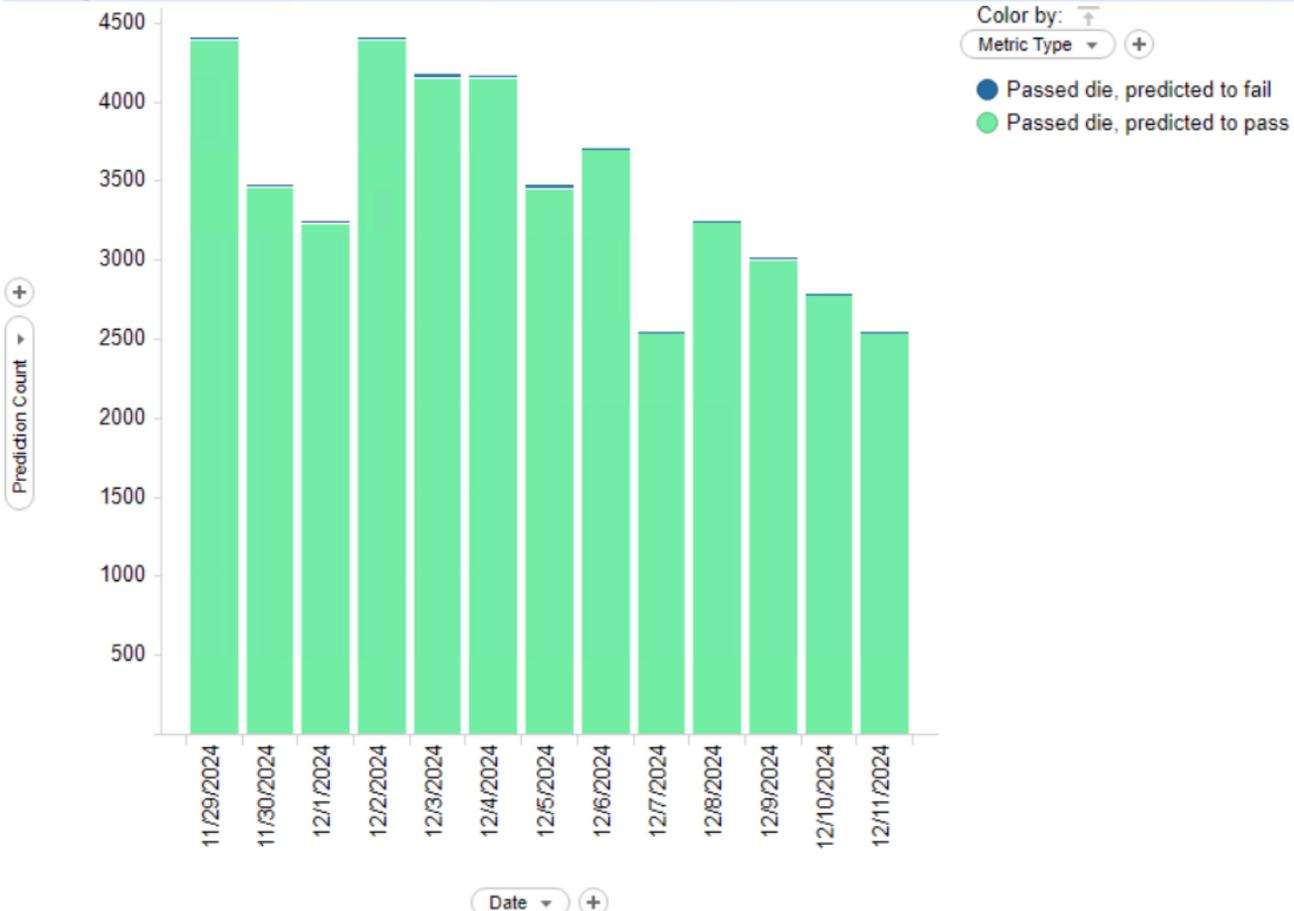
Summary by Day

Date	Metric Type		
	Die Count	Override Count	Override Percentage
12/4/2024	4194	21	0.50%
12/5/2024	3495	29	0.83%
12/6/2024	3728	20	0.54%
12/7/2024	2563	18	0.70%
12/8/2024	3262	13	0.40%
12/9/2024	3029	17	0.56%
12/10/2024	2796	15	0.54%
12/11/2024	2563	17	0.66%

Override Percentage



P/F by Prediction Date



[Back To Models](#)

Selected Model

Model Name	Location ID	Use Case	Insert Time	Target Name	Status	Last Run Time	Alerts	Product	Model ID
FT_FT1_ML_DEMO\$..._\$_BIN_3	1040	Predictive Burn-In	11/21/2024 12:28:41 AM	FT_FT1_ML_DEMO[BIN_3]	Deployed	11/21/2024 10:07:18 AM	0	PRODUCT_1	e6325f44-f075-43eb-ad51-b

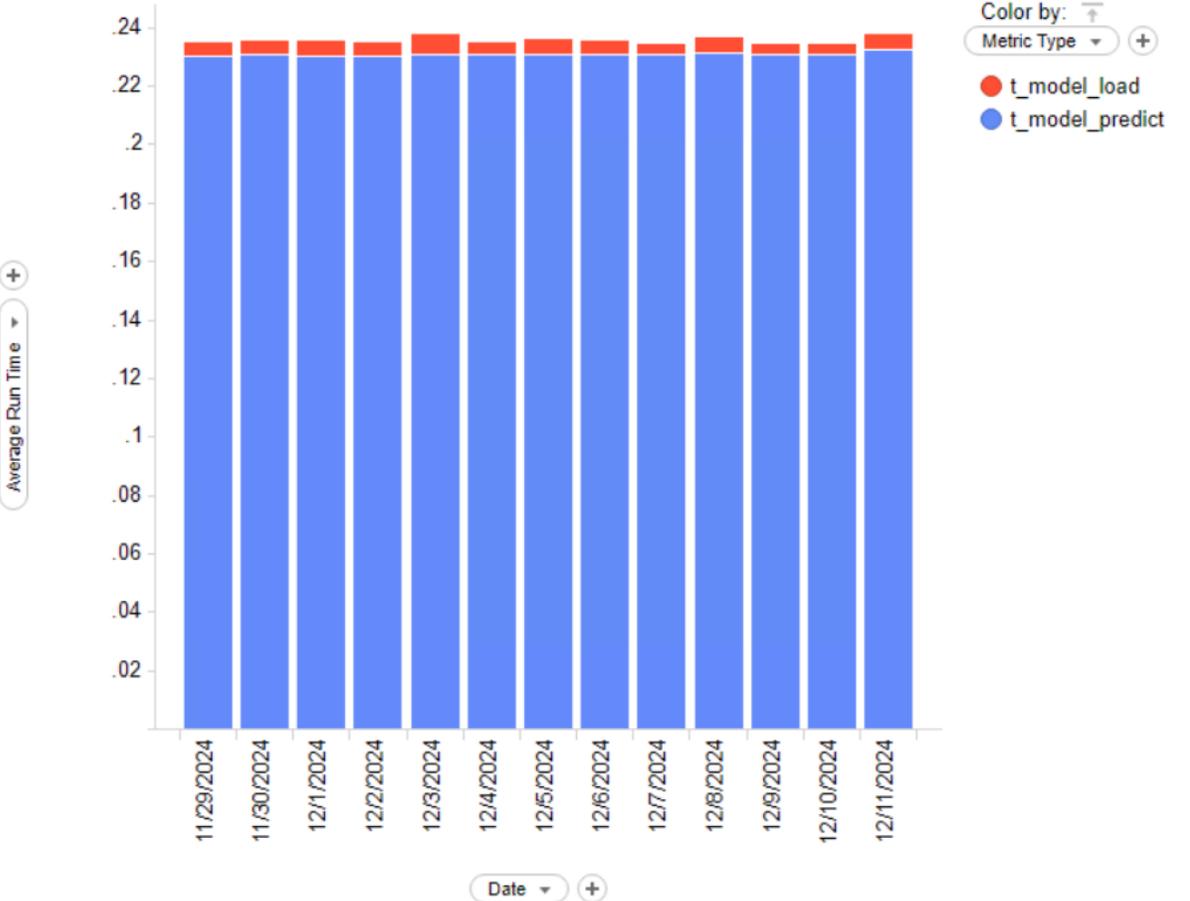
Summary by Day

Date	Metric Type	Stats	Runtime (ms)
12/11/2024	t_model_load	mean	5.7
12/11/2024	t_model_load	std	4.2
12/11/2024	t_model_predict	mean	231.9
12/11/2024	t_model_predict	std	40
12/11/2024	total_runtime	mean	236.9
12/11/2024	total_runtime	std	40
12/10/2024	t_model_load	mean	4.4
12/10/2024	t_model_load	std	3.7
12/10/2024	t_model_predict	mean	230
12/10/2024	t_model_predict	std	40.1
12/10/2024	total_runtime	mean	235
12/10/2024	total_runtime	std	40.1
12/9/2024	t_model_load	mean	3.7
12/9/2024	t_model_load	std	2.7

Average Inference Engine Run Time Components

Metric Type	Stats					
	max	mean	median	min	outlier	std
t_model_load	18.11	5.11	3.56	.31	19.97	4.98
t_model_predict	299.98	230.29	230.25	160.05	351.28	40.33
total_runtime	304.98	235.29	235.25	165.05	356.28	40.33

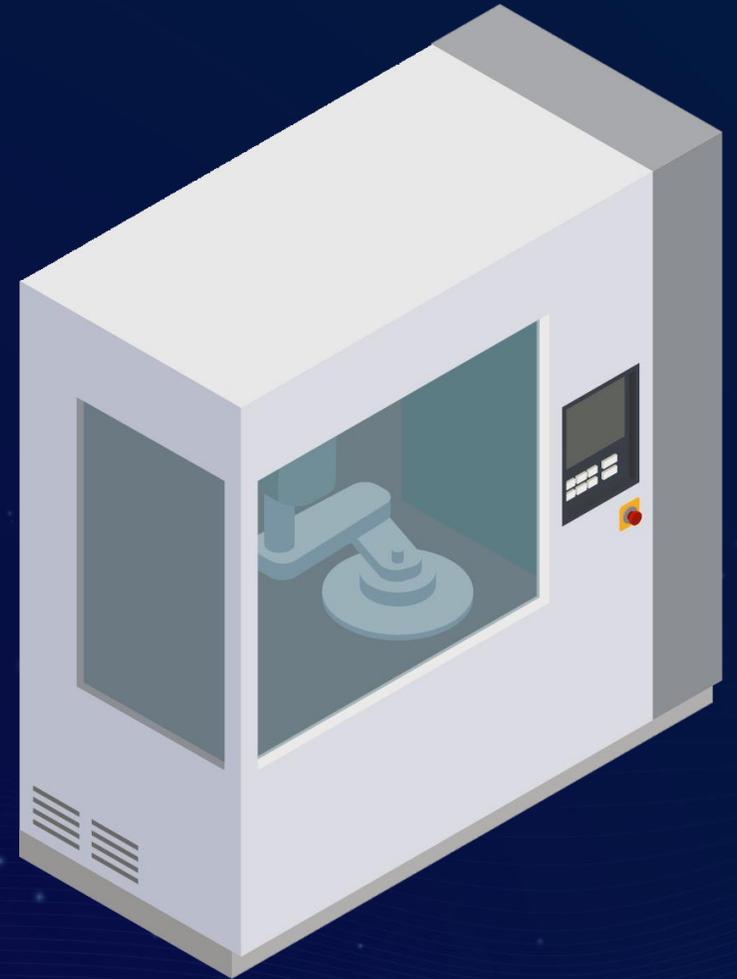
Stacked Bar - Inference Engine Run Time Components by Day



Value

ModelOps Current Engagements

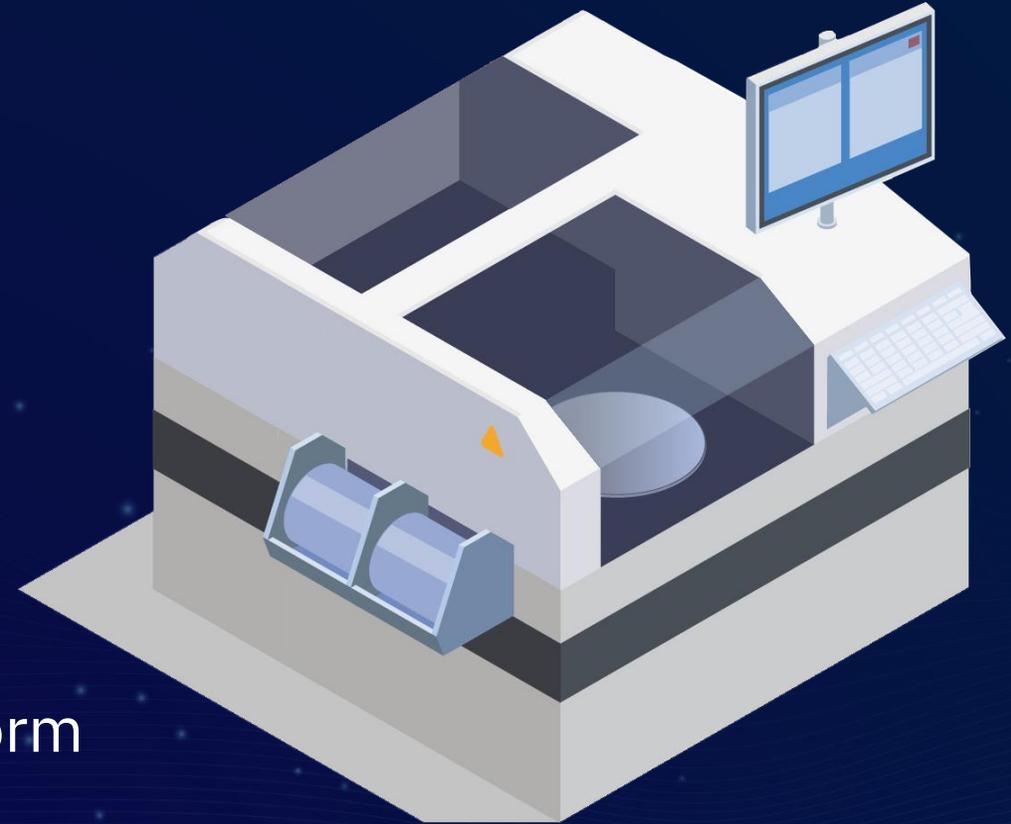
- Two customers for Adaptive Test
- Customer for DFF
- Customer for customized modeling
- Customer for wafer classification



Summary

ModelOps Platform

- Built for the semiconductor industry
- Leverage all data in Exensio
- Train, deploy, execute, and monitor models
- Productize models on any tester/ OSAT
- Integrate with multiple systems on one platform





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Summary

ModelOps Platform

- Organize your data in any system
- Productize model with any tester/ OSAT
- Manage metadata with MES/ ERP
- Monitor model in real time



- Home
- Operational Status >
- Rules >
- Configuration >

1 Orphaned products found, Check [Orphan Management page](#)

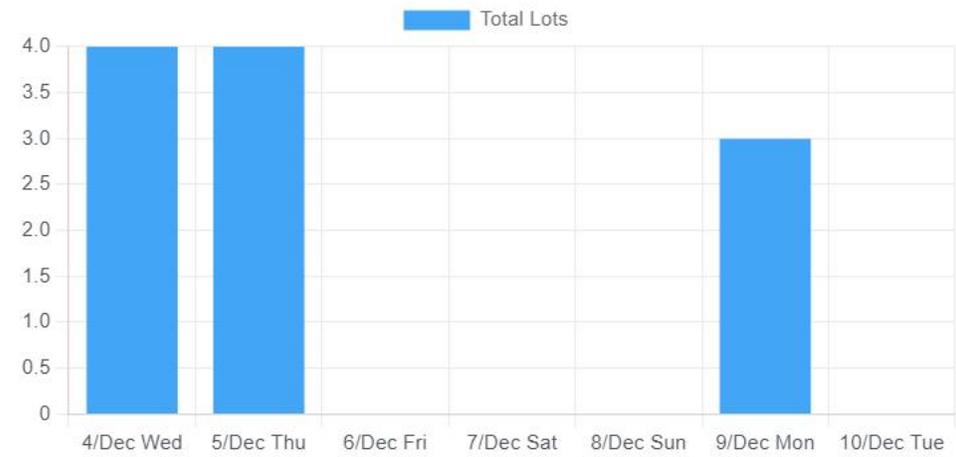
4 Quarantined Items, Check Quarantine page

0 SBL/SYL limit in need of approval, Check [Limits page](#)

RDS is On

Lots

Days ▼



- Home
- Operational Status
- Rules
 - Rules List**
 - Rules Set List
 - Rules Simulation
 - Rules Set Simulation
 - Bulk Rule Operations
 - Incoming Rules
 - Custom Rules List
 - Simulation Status
 - Simulation Dashboards
 - Limit Approval
- Configuration

Search you can use wildcard metacharacters

Name: Type: ALL Target: ALL

[Advanced](#)

Rules

#	Name	Type	Status	Target	Enabled	Tools
1	MLIE - LOGISTIC REGRESSION - 7788861c-7329-499e-97e7-38c05cbffe4a	INFERENCEENGINE	PRODUCTION	Cell	✓	
2	transfer_res_to_edge	DEX_TRANSFER	PRODUCTION	DEX	✓	
3	MLIE_CELL	INFERENCEENGINE	PRODUCTION	CELL	✓	

- Parameters
- History
- Scope

Revisions

Revision	Timestamp	Username	Comments
No data available in table			

- Home
- Operational Status
- Rules
 - Rules List
 - Rules Set List
 - Rules Simulation
 - Rules Set Simulation
 - Bulk Rule Operations
 - Incoming Rules
 - Custom Rules List
 - Simulation Status
 - Simulation Dashboards
 - Limit Approval
- Configuration

Search you can use wildcard metacharacters

Name:

Rules

#	Name	Type	Status	Target	Enabled	Tools
1	MLIE - LOGISTICREGRESSION - f788861c-7329-499e-97e7-38c05cbffe4a	INFERENCEENGINE	PRODUCTION	Cell	✓	
2	transfer_res_to_edge	DEX_TRANSFER	PRODUCTION	DEX	✓	
3	MLIE_CELL	INFERENCEENGINE	PRODUCTION	CELL	✓	

MLIE - LOGISTICREGRESSION - f788861c-7329-499e-97e7-38c05cbffe4a

Search:

Name	Value
Model ID (model_id)	f788861c-7329-499e-97e7-38c05cbffe4a

Showing 1 to 1 of 1 entries

Previous **1** Next

Revisions

Transfer Rules

Companies EDGE

Transfer actions

Transfer scope

- Home
- Operational Status
- Rules
 - Rules List
 - Rules Set List
 - Rules Simulation
 - Rules Set Simulation
 - Bulk Rule Operations
 - Incoming Rules
 - Custom Rules List
 - Simulation Status
 - Simulation Dashboards
 - Limit Approval
- Configuration

Search you can use wildcard metacharacters

Name:

Rules

#	Name	Type	Status	Target	Enabled	Tools
1	MLIE - LOGISTICREGRESSION - f788861c-7329-499e-97e7-38c05cbffe4a	INFERENCEENGINE	PRODUCTION	Cell	✓	
2	transfer_res_to_edge	DEX_TRANSFER	PRODUCTION	DEX	✓	
3	MLIE_CELL	INFERENCEENGINE	PRODUCTION	CELL	✓	

MLIE - LOGISTICREGRESSION - f788861c-7329-499e-97e7-38c05cbffe4a

Search:

Name	Value
Model ID (model_id)	f788861c-7329-499e-97e7-38c05cbffe4a

Showing 1 to 1 of 1 entries

Revisions

Transfer Rules

Companies EDGE

Transfer actions

Transfer scope

- Home
- Operational Status >
- Rules >
 - Rules List
 - Rules Set List
 - Rules Simulation
 - Rules Set Simulation
 - Bulk Rule Operations
 - Incoming Rules
 - Custom Rules List
 - Simulation Status
 - Simulation Dashboards >
 - Limit Approval
- Configuration >

Search you can use wildcard metacharacters

Name: Type: Target:

Search Reset [Advanced](#)

Rules

Add Rule

#	Name	Type	Status	Target	Enabled	Tools
1	MLIE - LOGISTIC REGRESSION - f788861c-7329-499e-97e7-38c05cbffe4a	INFERENCEENGINE	PRODUCTION	Cell	✓	
2	transfer_res_to_edge	DEX_TRANSFER	PRODUCTION	DEX	✓	
3	MLIE_CELL	INFERENCEENGINE	PRODUCTION	CELL	✓	

Parameters | History | Scope | Actions

Inference Engine Input files

MLIE - LOGISTICREGRESSION - f788861c-7329-499e-97e7-38c05cbffe4a

Search:

Name	Value
Model ID (model_id)	f788861c-7329-499e-97e7-38c05cbffe4a

Showing 1 to 1 of 1 entries

Previous
1
Next

Revisions

Standard

Select Meta Type

31 - MLIE Device Master Table

Raw Level Programs

28952a76-44ad-4fea-8901-958751c31a6c

Parameters

Conditions Advanced

name	unit	num	program	count
IDDQ_SERDE...		2	28952a76-44a...	1
SCAN_TDF_V...		3	28952a76-44a...	1
IDDQ_USB_A...		4	28952a76-44a...	1

0

1

3

Meta Filters

Name	Count	Values
------	-------	--------

Lots

Use Source Lot

Wafers

name	num
------	-----

Statistics

- avg
- crit
- cpk-outlier
- cpk-prod
- cpk-spec
- cpk-whatf
- max
- min
- q1
- q2
- q3

Date/Time Selection

Start Time

From: 09-Nov-2024 17:44:48

To: 09-Dec-2024 17:44:48

Advanced Selection

0

0

Enable Filtering

...

Cancel

Clear

Filters >>

Load

Advanced
Indexes

Activate Windows
Go to Settings to activate Windows.

Standard

Select Meta Type

31 - MLIE Device Master Table

Raw Level Programs

28952a76-44ad-4fea-8901-958751c31a6c

Parameters

Conditions Advanced

name	unit	num	program	count
IDDQ_SERDE...		2	28952a76-44a...	1
SCAN_TDF_V...		3	28952a76-44a...	1
IDDQ_USB_A...		4	28952a76-44a...	1

0

1

3

Meta Filters

Name	Count	Values
------	-------	--------

Lots

Use Source Lot

DEMOLOT1
QLOT01

Wafers

name num

Statistics

- avg
- crit
- cpk-outlier
- cpk-prod
- cpk-spec
- cpk-whatf
- max
- min
- q1
- q2
- q3

Date/Time Selection

Start Time

From: 09-Nov-2024 17:44:48

To: 09-Dec-2024 17:44:48

Advanced Selection

1

0

Enable Filtering

...

Cancel Clear Filters >> Load

Advanced
Indexes

Activate Windows
Go to Settings to activate Windows.