



# Mock Entry / Exit Criteria and Targets Conversion COE

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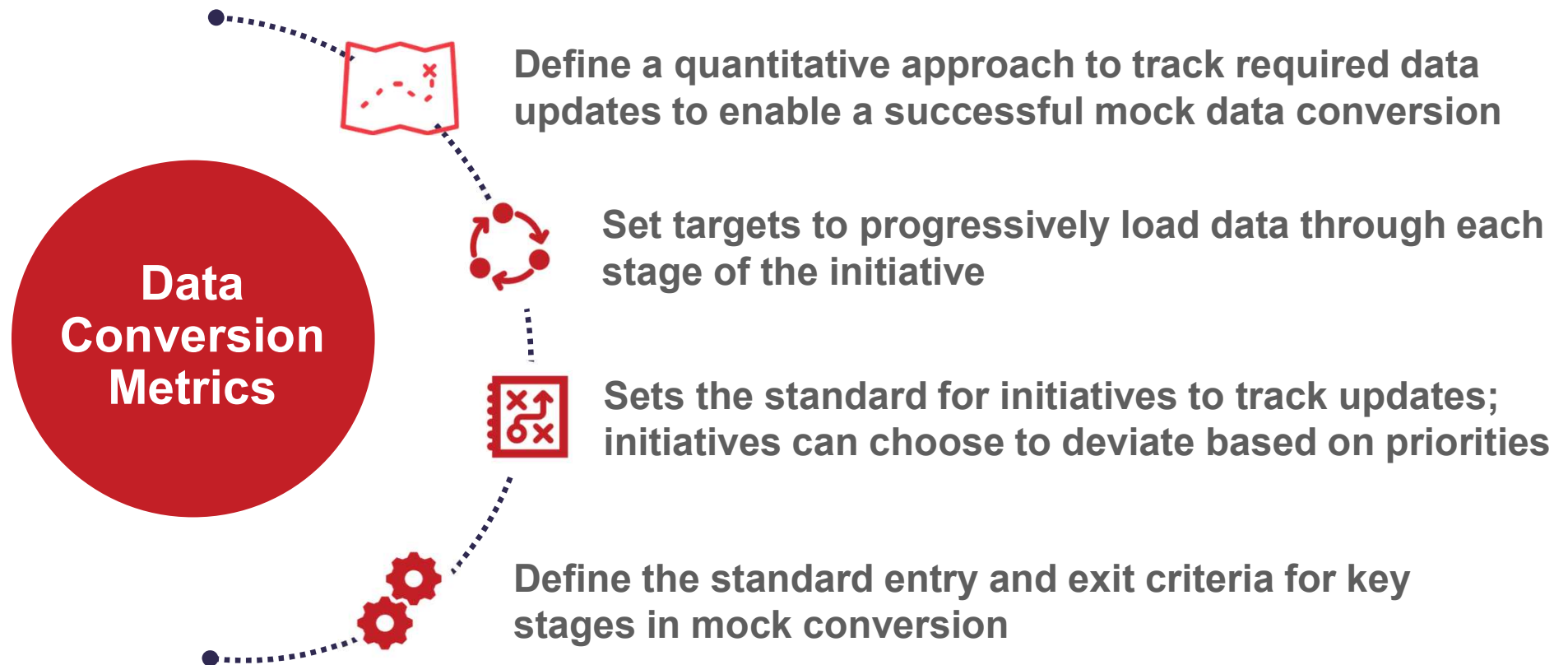


Appendix

# Mock Conversion Metrics - Objectives



The objectives of the Data Conversion COE – Conversion Metrics document are outlined below:



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# Mock Conversion Metrics - Purpose



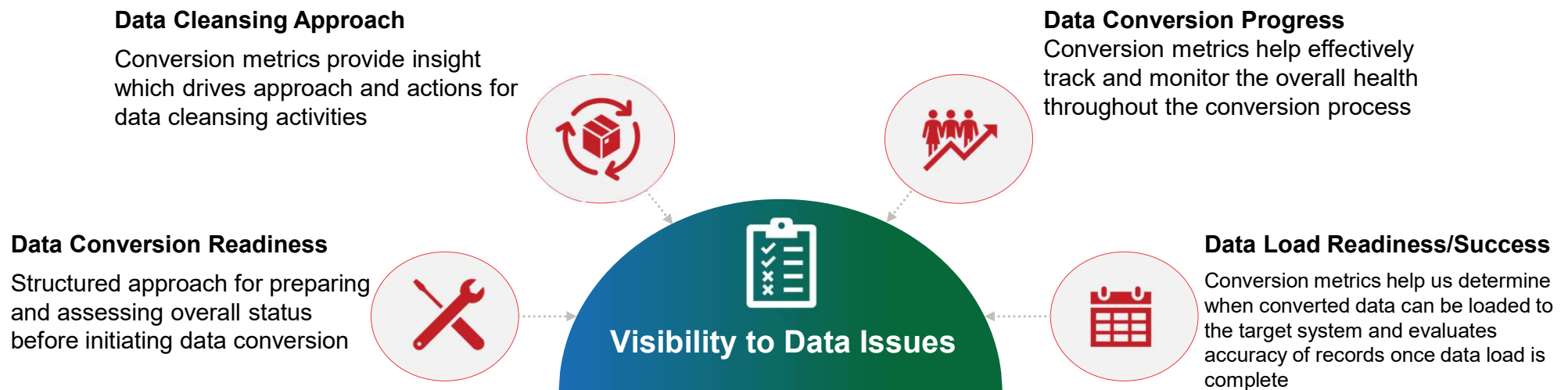
Data conversion metrics (or targets) are the criteria that will be used to track the progress and success of the mock conversion data loads across initiatives. These metrics are a quantitative approach to tracking required updates for the overall conversion. Outlined below are expected metrics the COE will use for conversion oversight:

#	Metrics	Description
1	Conversion design	Conversion design based on objects to show the progress and sign-off of the functional design and conversion mapping
2	Conversion build	Conversion build based on objects to show the build completion and readiness for test
3	Defect resolution	Identified issue/error has been fixed or has an accepted work around
4	Data loaded	The % of conversion data object successfully input into the target system
5	Data cleansed	The % of data that has been successfully cleansed and is ready for data load
6	Data constructed	The % of data that has been successfully constructed and is ready for data load

# Mock Conversion Metrics – Importance



Conversion metrics are used to provide visibility to the progress of each mock conversion throughout the data conversion lifecycle of an initiative.



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**Mock Conversion Entry/Exit Criteria**



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# Mock Conversion Metrics – Entry/Exit Criteria



The use of entry and exit criteria create an objective and quantifiable approach to confirm readiness to start and exit mock conversion. The entry and exit target criteria progressively moves closer to 100% with each mock conversion. The objectives of these criteria are:



Confirm design and build are complete at the level ready for test



Identify potential roadblocks that could stop the mock conversion process



Demonstrate the ability to identify and cleanse data in preparation for data load including confirming constructed data



Demonstrate success loading of data in preparation for go-live



Confirm the business and technical data validation



Progressively improve mock conversion targets in preparation for go-live

# Mock Conversion Metrics – Entry Criteria



Prior to entering mock conversions, there are the expected criteria to meet as part of mock conversion. The entry criteria below is required before executing Mock and Production conversions

Data Conversion: Load Execution Entry Criteria							
Criteria	Example	Mock 1* (BO P2)	Mock 2* (SIT1)	Mock 3* (SIT2)	Mock 4* (UAT)	Mock 5* (JDR)	Prod
(%) Number Conversion Design Done	9/10 Conversion Functional Designs Done (90%)	80	100	100	100	100	100
(%) Conversion Extract, Transform, Load (ETL) Programs Developed for Objects in Scope	8/10 Conversion ETL Programs Built (80%)	80	100	100	100	100	100
(%) Critical/High Priority Data Defects Resolved / Work Around or Solution Provided	8/10 Missing Data in Required Fields Corrected (80%)	80-100	80-100	90-100	95-100	100	100
Exit of Previous Mock Completed		N/A	Y	Y	Y	Y	Y
Mock Environment Refreshed - Source		Y	Y	Y	Y	Y	Y
Mock Environment Refreshed - Target	AWM – this includes code deployment	Y	Y	Y	Y	Y	Y
Conversion dependent Configuration Complete & Validated	AWM – N/A	Y	Y	Y	Y	Y	Y
Conversion dependent security provisioned	Security provisioned for access for Validation Service Account, Non BHE Contractors and BHE data validators	Y	Y	Y	Y	Y	Y

\* For Critical / High Defects that are not resolved have an agreed upon workaround and resolution plan

# Mock Conversion Metrics – Entry Criteria



Prior to entering mock conversions, there are set (entry) criteria to meet. The entry criteria is required before executing Mock and Production conversions, examples provided below for reference.

Data Conversion: Load Execution Entry Criteria							
Criteria	Example	Mock 1* (P2)	Mock 2* (SIT1)	Mock 3* (SIT2)	Mock 4* (UAT)	Mock 5* (JDR)	Prod
(%) Data Construction/Data Collection Complete (all scenarios represented regardless of % constructed)	5/10 Supplier Contacts Master Data Records Constructed (50%)	25	50	75	95	95+	95+
(%) Master Data Cleansing Complete	Active Customer Master Records (25%) from each data set (ex. EBS, SAP) <i>Will leverage % success from previous mock cycle in absence of Data Profiling</i>	50	75	85	95	95-100	95-100
(%) Transactional Data Cleansing Complete	Open Purchase Order Records Cleansed in Source (50%) <i>Will leverage % success from previous mock cycle in absence of Data Profiling</i>	25	50	75	85	90-100	90-100
Data Validation test scripts created		N/A	Y	Y	Y	Y	Y

# Mock Conversion Metrics – Exit Criteria



Prior to closing mock conversions, there are set (exit) criteria to meet. The exit criteria is required before Mock and conversions can be completed, examples provided below for reference.

Data Conversion: Load Execution Exit Criteria							
Criteria	Example	Mock 1* (P2)	Mock 2* (SIT1)	Mock 3* (SIT2)	Mock 4* (UAT)	Mock 5* (JDR)	Prod
(%) Master Data Records Loaded/Validated of Master Records in Scope	600/1000 Item Master Records are Loaded (60%)	50	75	85	95	95	99-100
(%) Transactional Data Records Loaded/Validated of Transactional Records in Scope	250/1000 A/R Invoice Records are Loaded (25%)	25	50	75	85	90	99-100
(%) High Priority Data Defects Resolved / Work Around Provided	8/10 Missing Data in Required Fields Corrected (80%)	75-100	75-100	90-100	95-100	95-100	100

# Mock Conversion Metrics – Exit Criteria



Prior to closing mock conversions, there are set (exit) criteria to meet. The exit criteria is required before Mock and conversions can be completed, examples provided below for reference.

Data Conversion: Load Execution Exit Criteria							
Criteria	Example	Mock 1* (P2)	Mock 2* (SIT1)	Mock 3* (SIT2)	Mock 4* (UAT)	Mock 5* (JDR)	Prod
(%) Objects Validated by Business Users of Total Objects in Scope	20/40 Master / Transactional Data Objects Validated (50%)	100	100	100	100	100	100
(%) Objects Validated by Data Conversion Team of Total Objects in Scope	10/10 Master / Transactional Data Objects Validated (100%)	100	100	100	100	100	100
(%) Objects Manually Converted by Business Users of Manual Conversion Data Objects in Scope	100% of manual conversions for manually converted objects are performed	50	100	100	100	100	100
(%) Master Data Object Records Validated	500/1000 Item Records Validated (50%)	Sample Set** (Target high impact records, different variations/scenarios); potential audit considerations					
(%) Transactional Data Object Records Validated	500/1000 Purchase Order Records Validated (50%)	Sample Set** (Target high impact records, different variations/scenarios); potential audit considerations					

# Mock Conversion Metrics – Supplier Example



The example below provides a data set that would be evaluated against mock data conversion entrance and exit criteria

Load Summary - Supplier	Load Details
Total number of records	500
Total number of records loaded without data issues	495
Total number of records with data issues	5
Percentage of records without data issues	99.0%

Detailed Errors – Supplier Name	Error Message
Supplier 1	Invalid Address
Supplier 2	Invalid Address
Supplier 3	Missing Tax ID
Supplier 4	Invalid Zip Code

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**Team Responsibilities**



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# Mock Conversion Metrics – Team Responsibilities



The data conversion teams across initiatives will be responsible for the following tasks related to conversion metrics

## **Data Conversion COE:**

Provide oversight to mock conversion and provide standards for entry and exit criteria

Support deviation from original plans and metrics

Identify / support risks and mitigation approach

## **Initiative Teams:**

Confirm Design and Build Progress

Confirm approach to move forward based on defects

Execute data load and report on success rate

Identify / support risks and mitigation approach

## **Affiliate Teams:**

Track progress on data cleansing updates for master and transaction data

Update and close defects as needed

Prepare to make decisions - functional signoff of data following post-load to target

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# AWM W1 - Conversion Entry and Exit Criteria

Entry Criteria							
Criteria	Mock 1 (App Test 1)	Mock 2 (App Test 2)	Mock 3 N/A	Mock 4 (SIT1)	Mock 5 (SIT2)	UAT Load (UAT)	DR
Exit of previous mock completed	N/A	Y	Y	Y	Y	Y	Y
Mock environment refreshed	Y	Y	Y	Y	Y	Y	Y
Validation test scripts created in ADO?	N/A	Y	Y	Y	Y	Y	Y
% volume of source data available (includes legacy and constructed data)	25	50	75	90	90	95	100
Exit Criteria							
Criteria	Mock 1	Mock 2	Mock 3	Mock 4	Mock 5	UAT Load	DR
% Conversions Executed	70	70	70	80	80	100	100
Success Rate of Conversions (% of <b>in-scope</b> records loaded to Maximo)	75	75	75	80	80	95	99
All user data validation scripts attempted	N/A	Y	Y	Y	Y	Y	Y
All reasons for failed records logged as ADO Bugs	Y	Y	Y	Y	Y	Y	Y
No Open Critical bugs in ADO	Y	Y	Y	Y	Y	Y	Y

# BO Wave 1 Entry Criteria (1/2)

## Data Conversion: Load Execution Entry Criteria

Criteria	Category	Details	Mock 4	Mock 5	Mock 6	PROD
(%) Conversion Design Complete	Design	22/22 Conversion CV40 designs Complete / Signed off (100%) – design & mapping issues closed	100%	100%	100%	100%
(%) Conversion Programs Developed and tested for Objects in Scope	Build/Test	37/37 ETL Programs Built (100%)	100%	100%	100%	100%
(%) Conversion Load Automation Scripts Developed & Tested for Objects in Scope	Build/Test	38/38 Load Automation Scripts Built & Tested (100%)	100%	100%	100%	100%
(%) Pre Load Validation Build Complete	Build/Test	38/38 Pre-Load Validation Reports Built (100%)	100%	100%	100%	100%
(%) Post Load Validation Build Complete	Build/Test	38/38 Post Load Validation Reports Built (100%)	100%	100%	100%	100%
(%) eCompare Validations Build Complete (compares transformed file against data loaded into Fusion)	Build/Test	38/38 eCompare Validation Reports Built (100%)	100%	100%	100%	100%

# BO Wave 1 Entry Criteria (2/2)

## Data Conversion: Load Execution Entry Criteria

Criteria	Category	Details	Mock 4	Mock 5	Mock 6	PROD
(%) Master Conversion dependent Configuration Complete & Validated	Config	Master Data Fusion configuration complete (100%)	100%	100%	100%	100%
(%) Transactional Conversion dependent Configuration Complete & Validated	Config	Transactional Data Fusion Configuration Complete (100%)	100%	100%	100%	100%
(%) Conversion dependent Security Provisioned for access to Network Shares	Access	Network Share Security provisioned for conversion loaders and data validators	Complete	Complete	Complete	Complete
(%) Conversion dependent Oracle Security	Access	Security provisioned for access to Fusion for Validation Service Account, Non BHE Contractors and BHE data validators	Complete	Complete	Complete	Complete
(%) Mock 3 High Priority Data Defects Resolved / Work Around Provided & Reviewed	Defects	8/10 Missing Data in Required Fields Corrected (80%)	80% or higher	90%	100%	100%
(%) Master Data Cleansing Complete	Data Readiness	750/1000 Master Records Cleansed (75%) based on ETL in Mock 0	85%	90%	95%+	95%+
(%) Transactional Data Cleansing Complete	Data Readiness	500/1000 Transactional Records passed pre-load validation check from Mock 0	60%	75%	95%+	95%+
(%) Data Construction/Data Collection Complete (Files/Records Expected vs. Obtained)	Data Readiness	59/59 Data Files Available (100%), each file contains at least 75% of expected records	75%	90%	95%+	95%+
(%) Dominion Data Extracted/Data Collection Complete	Extract	168/168 Data files Extracted and supplied in expected format (100%)	100%	100%	100%	100%

# Mock Conversion Metrics – Entry Criteria

Prior to entering mock conversions, there are the expected criteria to meet as part of mock conversion. The entry criteria below is required before executing Mock and Production conversions

Data Conversion: Load Execution Entry Criteria							
Criteria	Example	Mock 1* (BO P2)	Mock 2* (SIT1)	Mock 3* (SIT2)	Mock 4* (UAT)	Mock 5* (JDR)	Prod
(%) Number Conversion Design Done	9/10 Conversion Functional Designs Done (90%)	80	100	100	100	100	100
(%) Conversion Extract, Transform, Load (ETL) Programs Developed for Objects in Scope	8/10 Conversion ETL Programs Built (80%)	80	100	100	100	100	100
(%) Critical/High Priority Data Defects Resolved / Work Around or Solution Provided	8/10 Missing Data in Required Fields Corrected (80%)	80-100	80-100	90-100	95-100	100	100
Exit of Previous Mock Completed		N/A	Y	Y	Y	Y	Y
Mock Environment Refreshed - Source		Y	Y	Y	Y	Y	Y
Mock Environment Refreshed - Target	AWM – this includes code deployment	Y	Y	Y	Y	Y	Y
Conversion dependent Configuration Complete & Validated	AWM – N/A	Y	Y	Y	Y	Y	Y
Conversion dependent security provisioned	Security provisioned for access for Validation Service Account, Non BHE Contractors and BHE data validators	Y	Y	Y	Y	Y	Y

\* For Critical / High Defects that are not resolved have an agreed upon workaround and resolution plan

# Mock Conversion Metrics – Entry Criteria

Prior to entering mock conversions, there are set (entry) criteria to meet. The entry criteria is required before executing Mock and Production conversions, examples provided below for reference.

Data Conversion: Load Execution Entry Criteria							
Criteria	Example	Mock 1* (P2)	Mock 2* (SIT1)	Mock 3* (SIT2)	Mock 4* (UAT)	Mock 5* (JDR)	Prod
(%) Data Construction/Data Collection Complete (all scenarios represented regardless of % constructed)	5/10 Supplier Contacts Master Data Records Constructed (50%)	25	50	75	95	95+	95+
(%) Master Data Cleansing Complete	Active Customer Master Records (25%) from each data set (ex. EBS, SAP)  <i>Will leverage % success from previous mock cycle in absence of Data Profiling</i>	50	75	85	95	95-100	95-100
(%) Transactional Data Cleansing Complete	Open Purchase Order Records Cleansed in Source (50%)  <i>Will leverage % success from previous mock cycle in absence of Data Profiling</i>	25	50	75	85	90-100	90-100
Data Validation test scripts created in ADO		N/A	Y	Y	Y	Y	Y

# Mock Conversion Metrics – Entry Criteria



Prior to entering mock conversions, there are the expected criteria to meet as part of mock conversion. The entry criteria below is required before executing Mock and Production conversions

Data Conversion: Load Execution Entry Criteria					
Criteria	Example	Mock 1*	Mock 2*	Mock 3*	Prod
(%) Conversion Design Complete	5/5 Conversion Functional Designs Complete (100%)	80	100	100	100
(%) Data Construction/Data Collection Complete	5/10 Supplier Contacts Master Data Records Constructed (50%)	25	50	75	100
(%) Conversion Load Programs Developed for Objects in Scope	8/10 Conversion Load Programs Built (80%)	80	100	100	100
(%) Critical/High Priority Data Defects Resolved / Work Around or Solution Provided	8/10 Missing Data in Required Fields Corrected (80%)	80-100	90-100	95-100	100

\* For Critical / High Defects that are not resolved have an agreed upon workaround and resolution plan

# Mock Conversion Metrics – Entry Criteria

Example



Prior to entering mock conversions, there are set (entry) criteria to meet. The entry criteria is required before executing Mock and Production conversions, examples provided below for reference.

Data Conversion: Load Execution Entry Criteria					
Criteria	Example	Mock 1*	Mock 2*	Mock 3*	Prod
(%) Master Data Cleansing Complete	Active Customer Master Records (25%) from each data set (EBS, SAP)	25	50	75	90-100
(%) Transactional Data Cleansing Complete	Open Purchase Order Records Cleansed in Source (50%)	25	50	75	90-100
% Transactional Data Close Complete	Close Purchase Order Records Cleansed in Source (50%)	25	50	75	90-100

# BO Wave 1 Conversion Exit Criteria

## Data Conversion: Load Execution Exit Criteria

Criteria	Details	Mock 4*	Mock 5*	Mock 6*	PRD Load*
(%) Master Data Records Loaded of Master Records in Load File	85% or more of each master object's records are loaded Successfully	85	90-100	95-100	99-100
(%) Transactional Data Records Loaded of Transactional Records in Load File	60% or more of each transactional object's records are loaded successfully	60	80-100	95-100	99-100
(%) High Priority Data Defects Resolved / Work Around Provided	80% or more of all P1 defects resolved or workarounds provided	80-100	90-100	95-100	100
(%) Validation of Dominion Extract Files in scope by BHE	100% (currently 168) of all DE files validated	100	100	100	100
(%) Objects Validated by BHE of Filtered Data EXTRACT in scope	100% of extracted and filtered data validated	100	100	100	100
(%) Objects Pre Load Validated by Business Users of TRANSFORMED data in scope	100% of objects converted validated through pre-load reports	100	100	100	100
(%) Objects Post Load Validated by Business Users of LOADED data in scope	100% of objects converted and LOADED into Fusion validated through Post Load and eCompare Reports	100	100	100	100
(%) Objects Manually Converted by Business Users of Manual Conversion data in scope	100% of manual conversions for manually converted objects are performed (ex. Absence Parental Leave)	100	100	100	100

# Mock Conversion Metrics – Exit Criteria

Prior to closing mock conversions, there are set (exit) criteria to meet. The exit criteria is required before Mock and conversions can be completed, examples provided below for reference.

Data Conversion: Load Execution Exit Criteria							
Criteria	Example	Mock 1* (P2)	Mock 2* (SIT1)	Mock 3* (SIT2)	Mock 4* (UAT)	Mock 5* (JDR)	Prod
(%) Master Data Records Loaded/Validated of Master Records in Scope	600/1000 Item Master Records are Loaded (60%)	50	75	85	90	95	99-100
(%) Transactional Data Records Loaded/Validated of Transactional Records in Scope	250/1000 A/R Invoice Records are Loaded (25%)	25	50	75	80	90	99-100
(%) High Priority Data Defects Resolved / Work Around Provided	8/10 Missing Data in Required Fields Corrected (80%)	75-100	75-100	90-100	95-100	95-100	100

# Mock Conversion Metrics – Exit Criteria

Prior to closing mock conversions, there are set (exit) criteria to meet. The exit criteria is required before Mock and conversions can be completed, examples provided below for reference.

Data Conversion: Load Execution Exit Criteria							
Criteria	Example	Mock 1* (P2)	Mock 2* (SIT1)	Mock 3* (SIT2)	Mock 4* (UAT)	Mock 5* (JDR)	Prod
(%) Objects Validated by Business Users of Total Objects in Scope	20/40 Master / Transactional Data Objects Validated (50%)	100	100	100	100	100	100
(%) Objects Validated by Data Conversion Team of Total Objects in Scope	10/10 Master / Transactional Data Objects Validated (100%)	100	100	100	100	100	100
(%) Objects Manually Converted by Business Users of Manual Conversion data in scope	100% of manual conversions for manually converted objects are performed	50	100	100	100	100	100
(%) Master Data Object Records Validated	500/1000 Item Records Validated (50%)	Sample Set** (Target high impact records, different variations/scenarios)					
(%) Transactional Data Object Records Validated	500/1000 Purchase Order Records Validated (50%)	Sample Set** (Target high impact records, different variations/scenarios)					

# Mock Conversion Metrics – Exit Criteria



Prior to closing mock conversions, there are set (exit) criteria to meet. The exit criteria is required before Mock and conversions can be completed, examples provided below for reference.

## Data Conversion: Load Execution Exit Criteria

Criteria	Example	Mock 1*	Mock 2*	Mock 3*	Prod
(%) Master Data Records Loaded/Validated of Master Records in Load File	600/1000 Item Master Records are Loaded (60%)	60	75	95-100	100
(%) Transactional Data Records Loaded/Validated of Transactional Records in Load File	250/1000 A/R Invoice Records are Loaded (25%)	25	50	90-100	100
(%) High Priority Data Defects Resolved / Work Around Provided	8/10 Missing Data in Required Fields Corrected (80%)	75-100	90-100	95-100	100

# Mock Conversion Metrics – Exit Criteria



Prior to closing mock conversions, there are set (exit) criteria to meet. The exit criteria is required before Mock and conversions can be completed, examples provided below for reference.

## Data Conversion: Load Execution Exit Criteria

Criteria	Example	Mock 1*	Mock 2*	Mock 3*	Prod
(%) Objects Validated by Business Users of Total Objects in Scope	20/40 Master / Transactional Data Objects Validated (50%)	0	50-75	100	100
(%) Objects Validated by Data Conversion Team of Total Objects in Scope	10/10 Master / Transactional Data Objects Validated (100%)	100	100	100	100
(%) Master Data Object Records Validated	500/1000 Item Records Validated (50%)	Sample Set** (Target high impact records, different variations/scenarios)			
(%) Transactional Data Object Records Validated	500/1000 Purchase Order Records Validated (50%)	Sample Set** (Target high impact records, different variations/scenarios)			

# Wave 2 Conversion Mock 1 – Exit Summary

Data Conversion: Load Execution Exit Criteria										
Criteria	Mock 1* Criteria	Wave 2 Overall		Back Office Actuals		AWM Actuals		Capital Projects Actuals		Powerplan Actuals
(%) Master Data Records Loaded/Validated of Master Records in Scope	>=50			<b>Met with Exception:</b> On average, > 90% load rate. <b>Exceptions</b> are: Intercompany Supplier (17%), Supplier Bank accounts (5.8%); Supplier Attachment (49.7%) HCM: Learning content due to non availability of Physical files (10.6%)		<b>Met</b>		<b>Met with Exception:</b> On average >54% PG: no data for Kern		<b>Met</b>
(%) Transactional Data Records Loaded/Validated of Transactional Records in Scope	>=25			<b>Met with Exception:</b> On average, > 70% load rate. <b>Exceptions</b> are: PO Attachments (8.62%)		<b>Met</b>		<b>Not Met:</b> 0% Stopped due to timeline. Limited volume available; API performance issues; will transition from API to use BIP Reports		<b>Met</b> - % splits will be tested in Mock 2 for the first time
(%) High Priority Data Defects Resolved / Work Around Provided	>=75-100			<b>Met:</b> 88% - 7 of 8 P1 Defects Closed; 1 Open Defect: ADO 335745: POET PO for BHER requires EDM configuration change - to be done for Mock2		<b>Met with Exception:</b> <b>Exception</b> - 6 Open High Severity Defects. Overall 41 defects open.		<b>Met:</b> 90% - 1 open defect: Mitigated for Mock 2, plan to solve for Mock 3. PPM Project Templates not completely defined for PG		N/A – will commence in Mock 2
(%) Objects Validated by Business Users of Total Objects in Scope	100			<b>Met:</b> Master Data: 100% (27/27) Transactional Data: 100% (25/25)		<b>In Progress:</b> Master Data: 87% (39/45) Transactional Data: 78% (7/9)		<b>Not Met:</b> BHER: Complete KERN: N/A MEC: Not Done NNG: Not Done		N/A – will commence in Mock 2
(%) Objects Validated by Data Conversion Team of Total Objects in Scope	100			<b>Met:</b> Master Data: 100% (27/27) Transactional Data: 100% (25/25)		<b>Met:</b> Master Data: 100% (53/53) Transactional Data: 100% (9/9)		<b>Met with Exception:</b> BHER: 12/16 KERN: N/A MEC: 15/18 NNG: 11/16		<b>Met</b>
(%) Objects Manually Converted by Business Users of Manual Conversion data in scope	50			<b>Met:</b> 50% - (1/2) Intercompany Customer/Supplier; AP for Philippine's to be done in future mock		Not Applicable		<b>Not Met:</b> Issues on converting due to code mismatches. MEC is updating for Mock 2 so codes are aligned to new CP system		N/A

## Slide 29

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JS(1 Added Wave 2 Mock 1 Exit Summary to appendix.  
Jurchisin, Shellie (MidAmerican, 2023-09-13T19:51:57.604