

Use Case Description: Participant A is managing B2M data exchange using FTP channel and chooses to progressively migrate to IDX patterns

Note: These use cases assume Business Function to be synonymous to Transaction Group

Stage 1: Current State

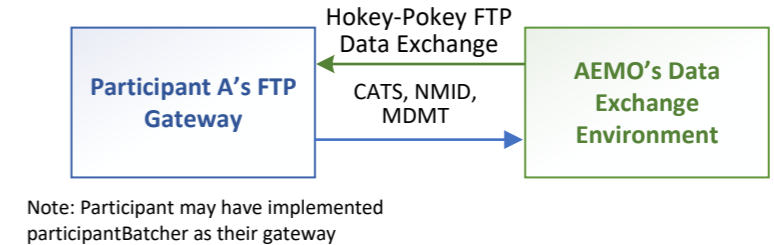
1 AEMO's data exchange mechanisms for Retail B2M during the current state

Business Function	FTP (aseXML)	API (aseXML)
NMID	✓	✓
CATS	✓	✓
MDMT	✓	✓

2 Participant A's nominated channels for B2M data exchange in MSATS Browser

Business Function	FTP (aseXML)	API (aseXML)
NMID	✓	
CATS	✓	
MDMT	✓	

3 Participant A's Data Exchange Implementation



Stage 2: Transition In-Progress

AEMO Deliverable prior to Stage 2 commencement: AEMO Gateway Software will be available for the Participants to optionally use to exchange data with AEMO using the new IDX patterns - during & post-transition

4 AEMO progressively deploys IDX business functions. AEMO deploys NMID IDX business function API

AEMO will also deliver JSON-aseXML Xforms for NMID business functions. Further details of this are covered in Step 12

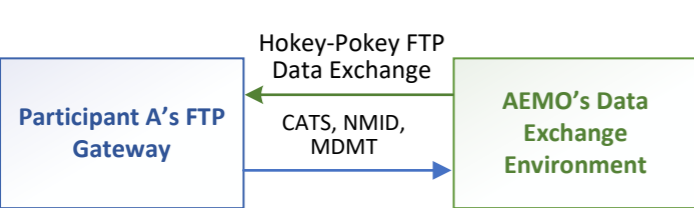
5 AEMO's data exchange mechanisms for Retail B2M post-NMID IDX business function API deployment

Business Function	FTP (aseXML)	API (aseXML)	New IDX Capability IDX API (JSON)
NMID	✓	✓	✓
CATS	✓	✓	
MDMT	✓	✓	

6 Participant A continues to use current state patterns (FTP) and is not intending to transition to the IDX pattern. Participant A's data exchange preference in MSATS Browser

Business Function	FTP (aseXML)	API (aseXML)	New IDX Capability IDX API (JSON)
NMID	✓		
CATS	✓		
MDMT	✓		

7 No changes to Participant A's Data Exchange Mechanism



8 AEMO progressively deploys more B2M business functions into production – CATS & MDMT

Business Function	FTP (aseXML)	API (aseXML)	New IDX Capability IDX API (JSON)
NMID	✓	✓	✓
CATS	✓	✓	✓
MDMT	✓	✓	✓

AEMO provides JSON-aseXML Xforms for new business functions viz. CATS & MDMT. Further details of this are covered in Step 12

Note: Functional changes such as on-going schema changes will be made to all three channels & payload formats

9 Participant A continues to use current state patterns (FTP) and is not intending to transition to the IDX pattern. Participant A's data exchange preference in MSATS Browser

Business Function	FTP? (aseXML)	API (aseXML)	New IDX Capability IDX API (JSON)
NMID	✓		
CATS	✓		
MDMT	✓		

No change to Participant A's Data Exchange Mechanism

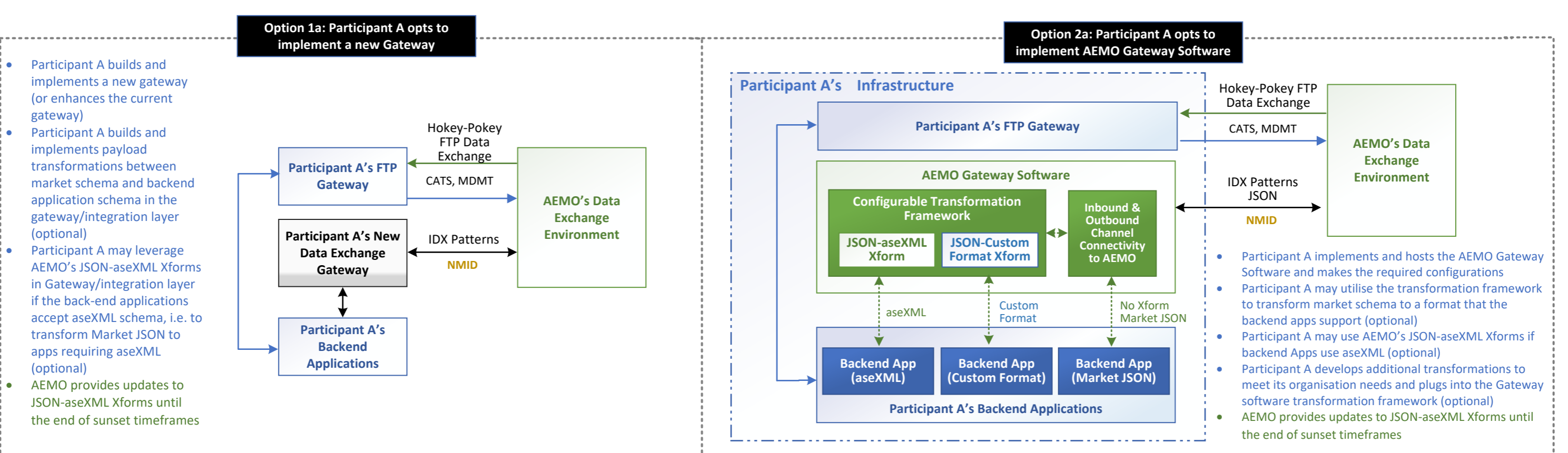
Stage 3: Sunset Timeframes

10 Participant A progressively opts-in to transition to IDX patterns, one business function at a time. Participant A implements the IDX data exchange pattern for the NMID business function

11 Participant A's data exchange preference in MSATS Browser

Business Function	FTP (aseXML)	API (aseXML)	IDX API (JSON)
NMID			✓
CATS	✓		
MDMT	✓		

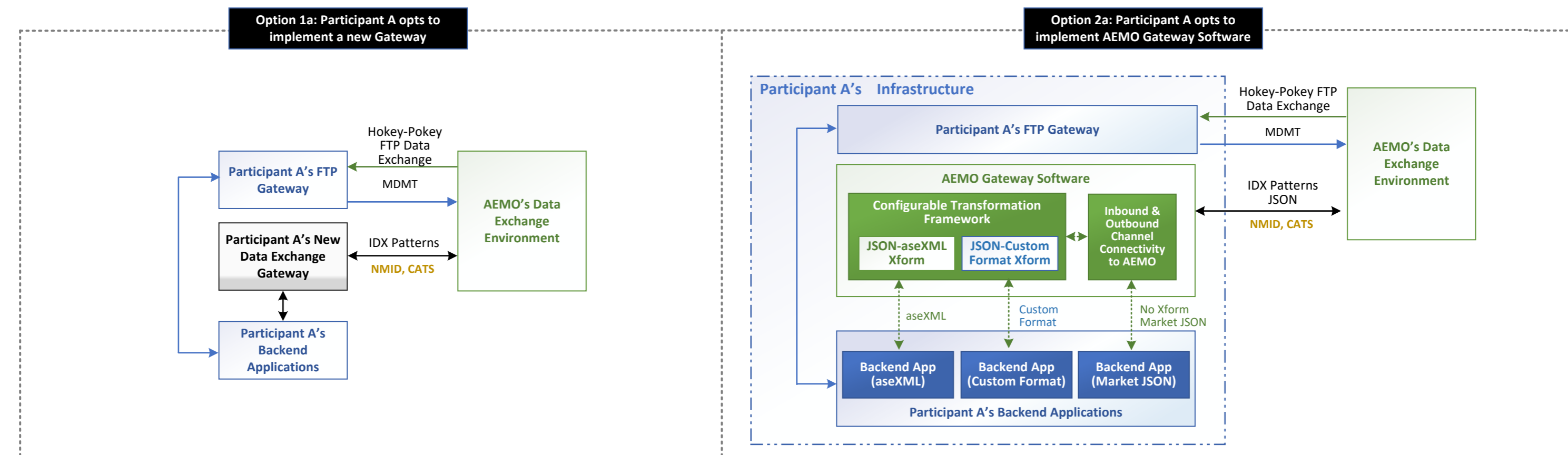
12 Participant A's Data Exchange Implementation: Participant A has the choice to use AEMO Gateway Software (or) enhance the current gateway to support IDX patterns (or) implement a new gateway to support IDX patterns



13 Participant A opts-in to transition CATS IDX Business Function next. Participant A's data exchange preference in MSATS Browser

Business Function	FTP (aseXML)	API (aseXML)	API (JSON)
NMID			✓
CATS			✓
MDMT	✓		

14 Participant A's Data Exchange Implementation. Participant A has the choice to use AEMO Gateway Software (or) enhance the current gateway to support IDX patterns (or) implement a new gateway to support IDX patterns



Stage 4: Post Sunset Timeframes. Participant A must transition to IDX Patterns for ALL of the B2M Business Function Prior to the commencement of Stage 4

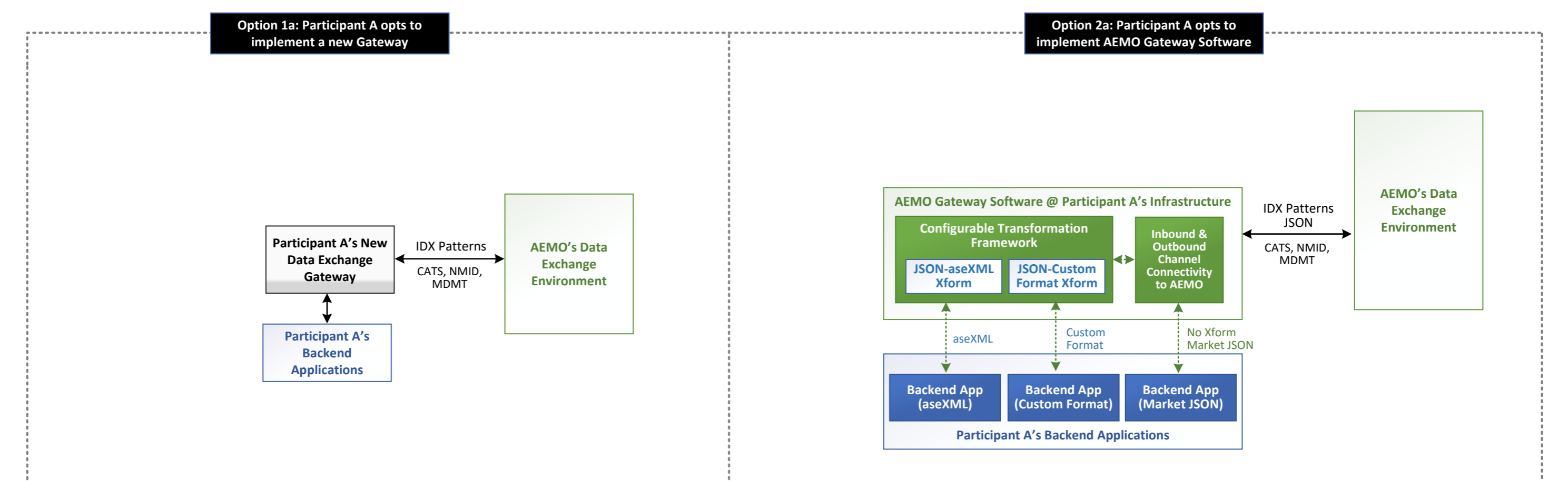
15 AEMO retires the legacy FTP & API channels

Business Function	FTP (aseXML)	API (aseXML)	IDX API (JSON)
NMID	Retired	Retired	✓
CATS	Retired	Retired	✓
MDMT	Retired	Retired	✓

16 Participant A is not required to opt-in for a channel; it is defaulted to API (JSON)

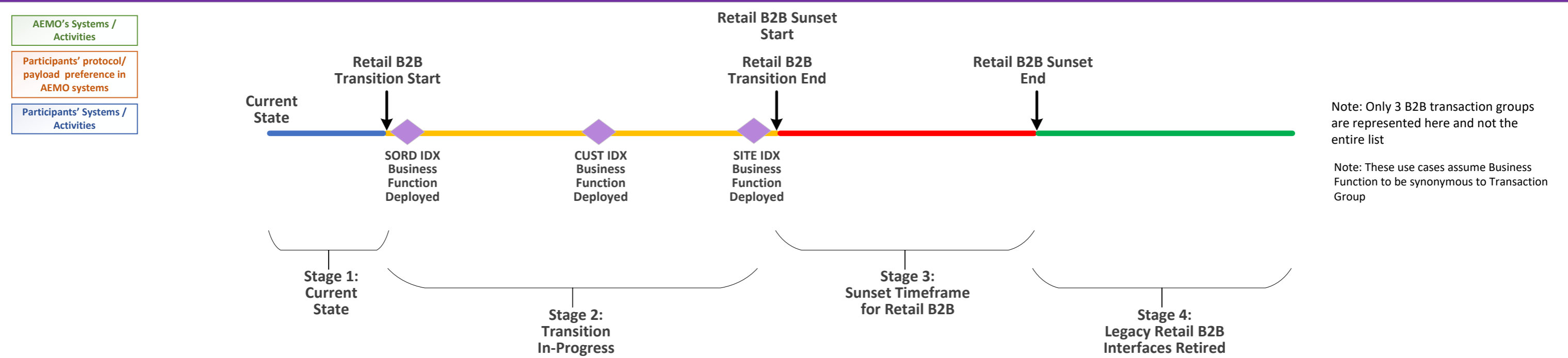
Business Function	FTP? (aseXML)	API (aseXML)	API (JSON)
NMID	NA	NA	✓
CATS	NA	NA	✓
MDMT	NA	NA	✓

18 Participant A's Data Exchange Implementation. Participant A has the choice to use AEMO Gateway Software (or) enhance the current gateway to support IDX patterns (or) implement a new gateway to support IDX patterns



19 Participant A needs to manage further amendments to JSON-aseXML Xforms (if applicable) in AEMO Gateway Software from Stage 4

AEMO provides periodic software updates to the AEMO Gateway Software; this includes changes to the current channels / patterns and introducing new channels or patterns



Use Case Description: Sender (Participant B), currently on legacy API transitions to IDX patterns in-line with AEMO's deployment plan, but Recipient (Participant A) currently on FTP intends to migrate to IDX patterns progressively during the sunset timeframes

Stage 1: Current State

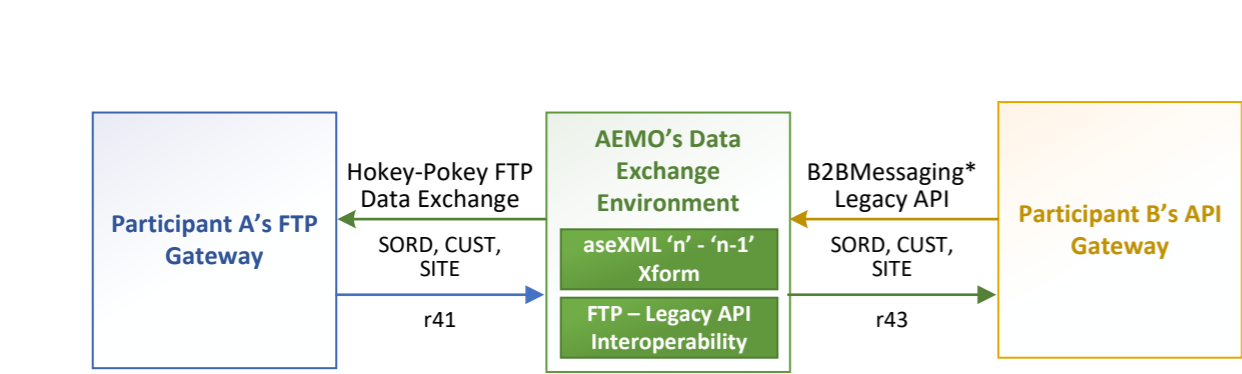
- 1. AEMO's data exchange mechanisms for Retail B2B during the current state
- 2. Participant A's nominated channels for B2B data exchange in B2B Browser
- 3. Participant B's nominated channels for B2B data exchange in B2B Browser

Business Function	FTP (aseXML)	API (aseXML)	aseXML Version 'n'	aseXML Version 'n-1'
SORD	✓	✓	r43	r41
CUST	✓	✓	r43	r41
SITE	✓	✓	r43	r41

Business Function	FTP (aseXML)	API (aseXML)	aseXML Version
SORD	✓		r41
CUST	✓		r41
SITE	✓		r41

Business Function	FTP (aseXML)	API (aseXML)	aseXML Version
SORD		✓	r43
CUST		✓	r43
SITE		✓	r43

- 4. Participant A's Data Exchange Implementation. AEMO's Data Exchange environment (1) transforms aseXML schema version between sender and recipient based on Participants' preference (2) receives message from the sender & delivers message to the recipient based on Participants' nominated channel



Stage 2: Transition In-Progress

AEMO Deliverable prior to Stage 2 commencement: AEMO Gateway Software will be available for the Participants to optionally use to exchange data with AEMO using the new patterns - during & post-transition

- 5. AEMO progressively deploys IDX business functions. AEMO deploys SORD, CUST & SITE IDX business function APIs progressively
- 6. AEMO's data exchange mechanisms for Retail B2B after the completion of Stage 2

AEMO will also deliver JSON-aseXML Xforms for SORD, CUST & SITE business functions. Further details of this are covered in Step 12

Business Function	FTP (aseXML)	API (aseXML)	New IDX Capability			
			IDX API (JSON)	aseXML Version 'n'	aseXML Version 'n-1'	JSON Version
SORD	✓	✓	✓	r43	r41	SORD.r1
CUST	✓	✓	✓	r43	r41	CUST.r1
SITE	✓	✓	✓	r43	r41	SITE.r1

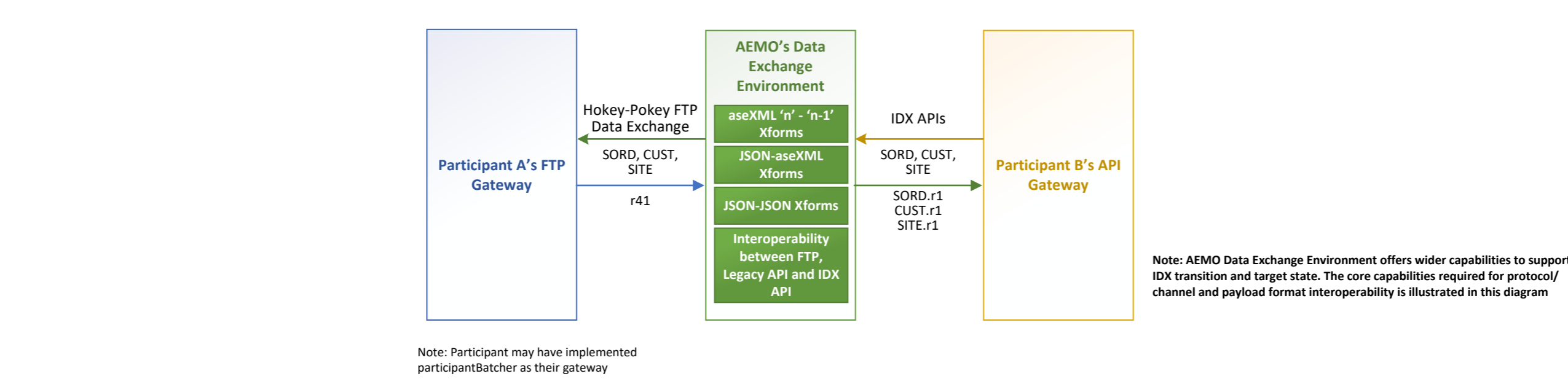
Note: Functional changes such as on-going schema changes will be made to all three channels & payload formats

- 7. Participant A's nominated channels for B2B data exchange in B2B Browser at the end of Stage 2
- 8. Participant B's nominated channels for B2B data exchange in B2B Browser at the end of Stage 2

Business Function	FTP (aseXML)	API (aseXML)	New IDX Capability		
			IDX (JSON)	aseXML Version	JSON Version
SORD	✓			r41	
CUST	✓			r41	
SITE	✓			r41	

Business Function	FTP (aseXML)	API (aseXML)	New IDX Capability		
			IDX API (JSON)	aseXML Version	JSON Version
SORD			✓		SORD.r1
CUST			✓		CUST.r1
SITE			✓		SITE.r1

- 9. Participant A's Data Exchange Implementation does not change. AEMO Data Exchange Environment supports (1) JSON-aseXML and aseXML 'n' - 'n-1' transformation (2) interoperability between FTP, legacy API and IDX API patterns



Stage 3: Sunset Timeframes

- 10. Participant A progressively opts-in to transition to IDX patterns, one business function at a time. Participant A implements the IDX data exchange pattern for the SORD business function
- 11. Participant A's data exchange preference in B2B Browser

Business Function	FTP (aseXML)	API (aseXML)	IDX (JSON)	aseXML Version	JSON Version
SORD			✓		SORD.r1
CUST	✓			r41	
SITE	✓			r41	

- 12. Participant A's Data Exchange Implementation: Participant A has the choice to use AEMO Gateway Software (or) enhance the current gateway to support IDX patterns (or) implement a new gateway to support IDX patterns



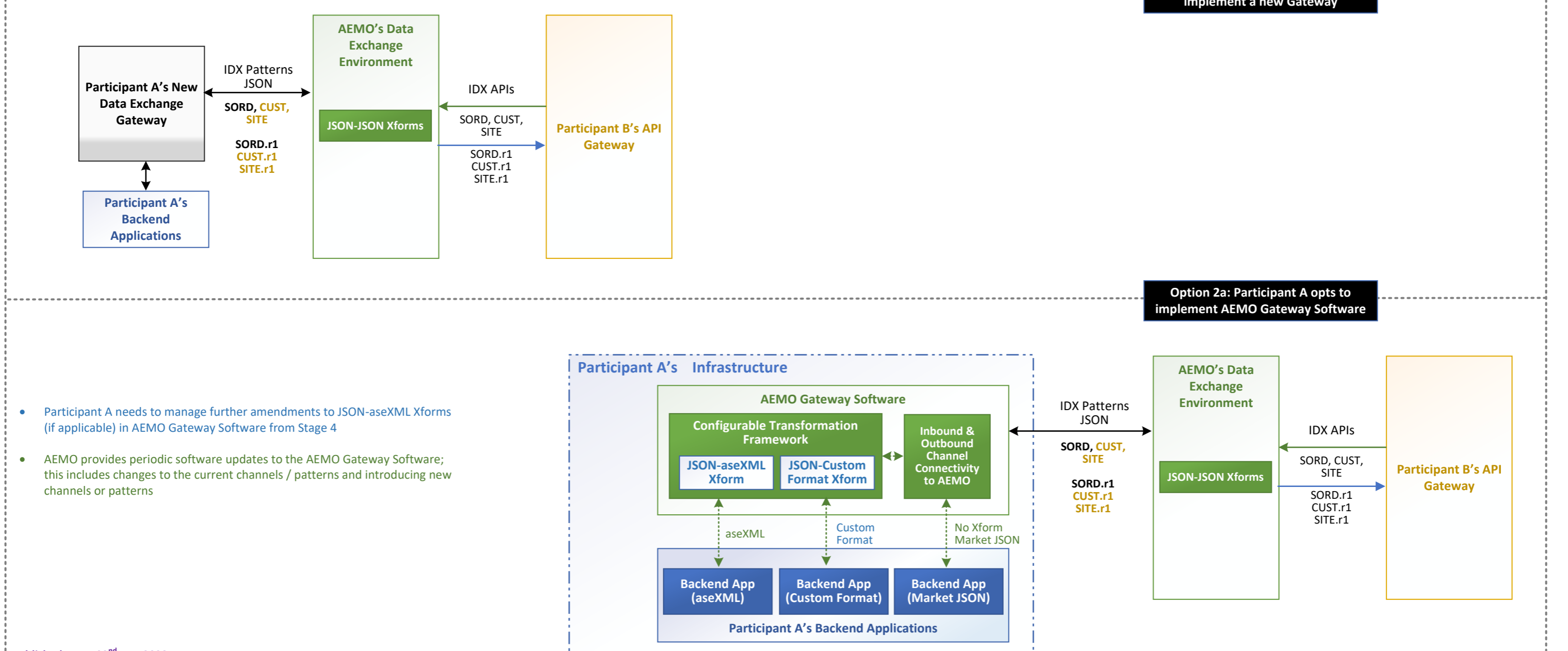
Stage 4: Post Sunset Timeframes. Participant A must transition to IDX Patterns for ALL of the B2B Business Function Prior to the commencement of Stage 4

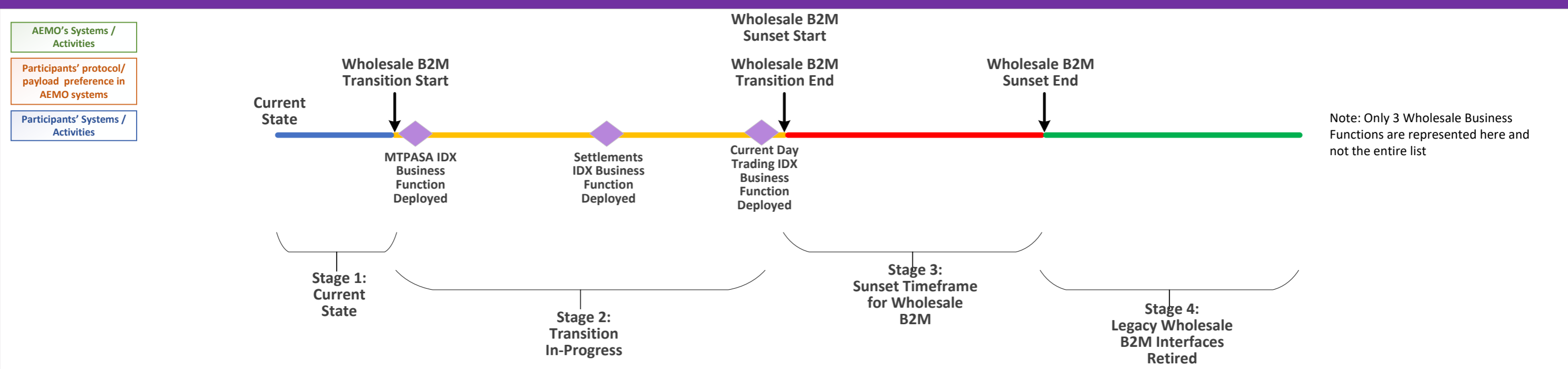
- 13. AEMO's data exchange mechanisms for Retail B2B after the completion of Stage 3
- 14. Participant A's data exchange preference in B2B Browser

Business Function	FTP (aseXML)	API (aseXML)	IDX API (JSON)	aseXML Version 'n'	aseXML Version 'n-1'	JSON Version
SORD	Retired	Retired	✓	NA	NA	SORD.r1
CUST	Retired	Retired	✓	NA	NA	CUST.r1
SITE	Retired	Retired	✓	NA	NA	SITE.r1

Business Function	FTP (aseXML)	API (aseXML)	IDX (JSON)	aseXML Version	JSON Version
SORD	NA	NA	✓	NA	SORD.r1
CUST	NA	NA	✓	NA	SORD.r1
SITE	NA	NA	✓	NA	SORD.r1

- 15. Participant A's Data Exchange Implementation. Participant A has the choice to use AEMO Gateway Software (or) enhance the current gateway to support IDX patterns (or) implement a new gateway to support IDX patterns





Use Case Description: Participant A is managing Wholesale B2M data exchange using FTP channel and chooses to progressively migrate to IDX patterns

Stage 1: Current State

1 AEMO's data exchange mechanisms for Wholesale B2M during the current state

Business Function	Outbound FTP (AEMOCSV)	Inbound FTP (JSON)	Inbound API (JSON)
MTPASA	✓		
Settlements	✓		
Current Day Trading (Bids & Offers)	✓	✓	✓

2 Participant A's configured channels for B2M data exchange

Business Function	Outbound FTP (AEMOCSV)	Inbound FTP (JSON)	Inbound API (JSON)
MTPASA	✓		
Settlements	✓		
Current Day Trading (Bids & Offers)	✓	✓	✓

3 Participant A's Data Exchange Implementation

Note: Participant may have implemented bespoke solution to manage FTP inbound/outbound transactions

Stage 2: Transition In-Progress

AEMO Deliverable prior to Stage 2 commencement: AEMO Gateway Software will be available for the Participants to optionally use to exchange data with AEMO using the new patterns - during & post transition

4 AEMO progressively deploys IDX business functions. AEMO deploys MTPASA IDX business function API

Business Function	Outbound FTP (AEMOCSV)	Inbound FTP (JSON)	Inbound API (JSON)	IDX API (JSON)
MTPASA	✓			✓
Settlements	✓			
Current Day Trading (Bids & Offers)	✓	✓	✓	✓

5 AEMO's data exchange mechanisms for Wholesale B2M post MTPASA IDX business function API deployment

Business Function	Outbound FTP (AEMOCSV)	Inbound FTP (JSON)	Inbound API (JSON)	IDX API (JSON)
MTPASA	✓			✓
Settlements	✓			
Current Day Trading (Bids & Offers)	✓	✓	✓	✓

6 Participant A continues to use current state patterns (FTP) and is not intending to transition to IDX pattern. Participant A's data exchange preference in Browser

Business Function	Outbound FTP (AEMOCSV)	Inbound FTP (JSON)	Inbound API (JSON)	IDX API (JSON)
MTPASA	✓			
Settlements	✓			
Current Day Trading (Bids & Offers)	✓	✓		

7 No changes to Participant A's Data Exchange Mechanism

Note: Participant may have implemented bespoke solution to manage FTP inbound/outbound transactions

8 AEMO progressively deploys more B2M business functions into production – Settlements, Bids & Offers

Business Function	Outbound FTP (AEMOCSV)	Inbound FTP (JSON)	Inbound API (JSON)	IDX API (JSON)
MTPASA	✓			✓
Settlements	✓			✓
Current Day Trading (Bids & Offers)	✓	✓	✓	✓

AEMO provides JSON-AEMOCSV Xforms for new business functions viz. Settlements, Bids & Offers. Further details of this is covered in Step 12

9 Participant A continues to use current state patterns (FTP) and is not intending to transition to IDX pattern. Participant A's data exchange preference in Browser

Business Function	Outbound FTP (AEMOCSV)	Inbound FTP (JSON)	Inbound API (JSON)	IDX API (JSON)
MTPASA	✓			
Settlements	✓			
Current Day Trading (Bids & Offers)	✓	✓		

No change to Participant A's Data Exchange Mechanism

Stage 3: Sunset Timeframes

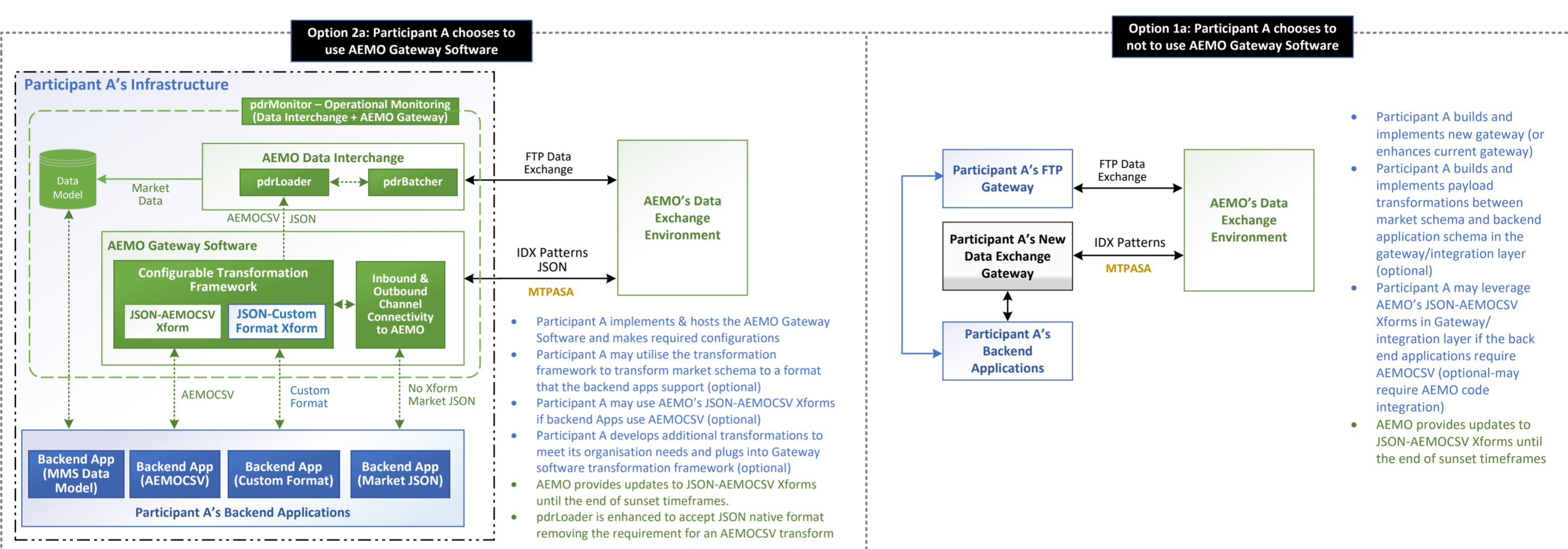
10 Participant A opts-in to transition to IDX patterns progressively, one business function at a time. Participant A implements IDX data exchange pattern for MTPASA business function

Business Function	Outbound FTP (AEMOCSV)	Inbound FTP (JSON)	Inbound API (JSON)	IDX API (JSON)
MTPASA				✓
Settlements	✓			
Current Day Trading (Bids & Offers)	✓	✓		

11 Participant A's data exchange preference in Browser

Business Function	Outbound FTP (AEMOCSV)	Inbound FTP (JSON)	Inbound API (JSON)	IDX API (JSON)
MTPASA				✓
Settlements	✓			
Current Day Trading (Bids & Offers)	✓	✓		

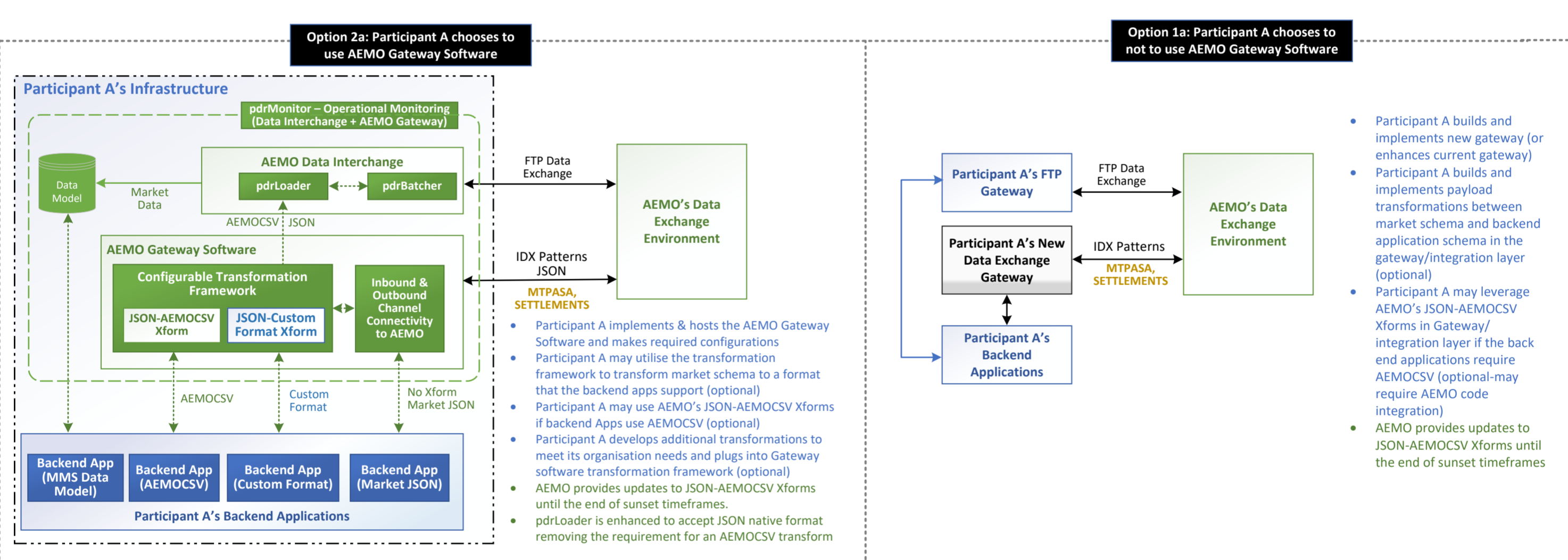
12 Participant A's Data Exchange Implementation: Participant A has the choice to use AEMO Gateway Software (or) enhance their current bespoke integration solution to support IDX patterns (or) implement a new gateway to support IDX patterns



13 Participant A opts-in to transition Settlements IDX Business Function next. Participant A's data exchange preference in Browser

Business Function	Outbound FTP (AEMOCSV)	Inbound FTP (JSON)	Inbound API (JSON)	IDX API (JSON)
MTPASA				✓
Settlements				✓
Current Day Trading (Bids & Offers)	✓	✓		

14 Participant A's Data Exchange Implementation. Participant A has the choice to use AEMO Gateway Software (or) enhance the current gateway to support IDX patterns (or) implement a new gateway to support IDX patterns



Stage 4: Post Sunset Timeframes. Participant A must transition to IDX Patterns for ALL of the B2M Business Function Prior to the commencement of Stage 4

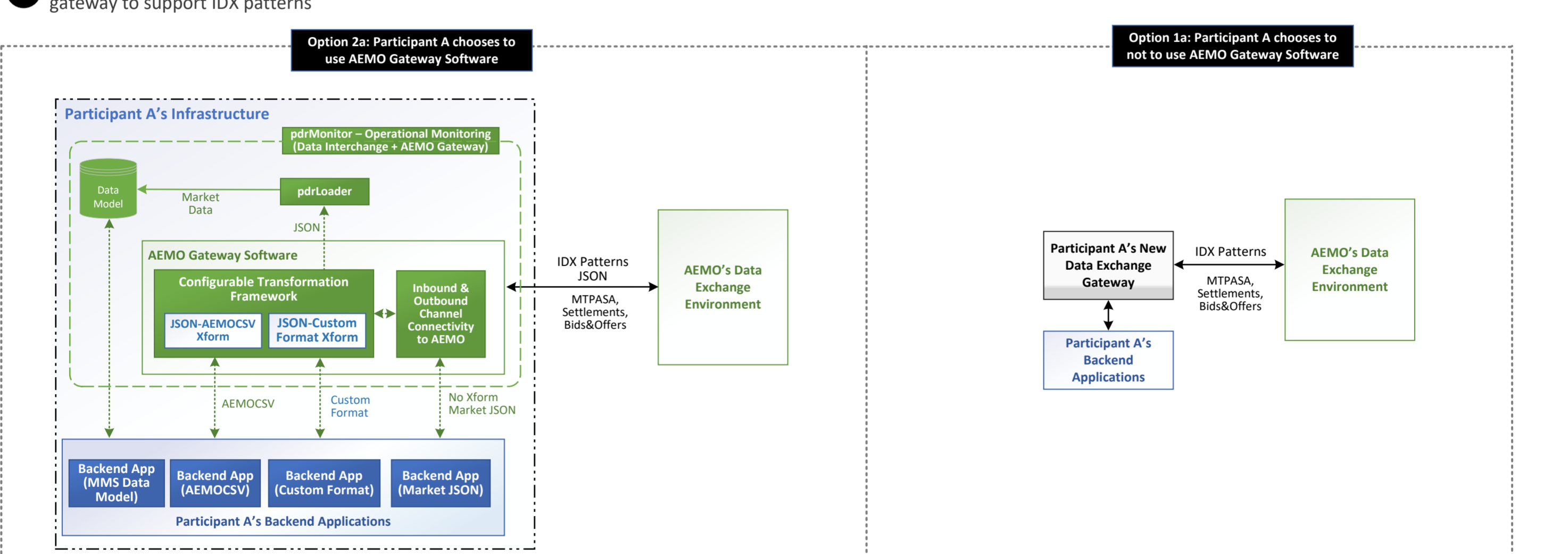
15 AEMO retires the legacy FTP & API channels

Business Function	Outbound FTP (AEMOCSV)	Inbound FTP (JSON)	Inbound API (JSON)	IDX API (JSON)
MTPASA	Retired			✓
Settlements	Retired			✓
Current Day Trading (Bids & Offers)	Retired	Retired	Retired	✓

16 Participant A is not required to opt-in for a channel; it is defaulted to API (JSON)

Business Function	Outbound FTP (AEMOCSV)	Inbound FTP (JSON)	Inbound API (JSON)	IDX API (JSON)
MTPASA	NA			✓
Settlements	NA			✓
Current Day Trading (Bids & Offers)	NA	NA	NA	✓

18 Participant A's Data Exchange Implementation. Participant A has the choice to use AEMO Gateway Software (or) enhance the current gateway to support IDX patterns (or) implement a new gateway to support IDX patterns



19 Participant A needs to manage further amendments to JSON-AEMOCSV Xforms (if applicable) in AEMO Gateway Software from Stage 4

AEMO provides periodic software updates to the AEMO Gateway Software; this includes changes to the current channels / patterns and introducing new channels or patterns