

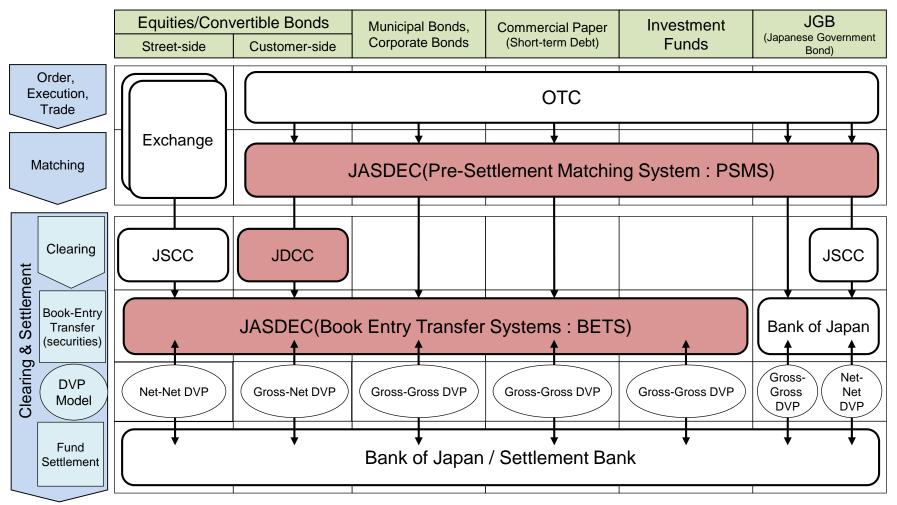
# Summary of ISO 20022 adoption in Japanese market

Japan Securities Depository Center, Inc.

# **Role of JASDEC in Japanese market**



All securities including stock certificates are dematerialized



JSCC: Japan Securities Clearing Corporation (Subsidiary of Japan Exchange Group)

JDCC: JASDEC DVP Clearing Corporation (Subsidiary of JASDEC)

## Timeline of ISO 2002 adoption in Japan



**1989**: Initiatives to reduce settlement risk and enforce STP triggered by G30 rec.

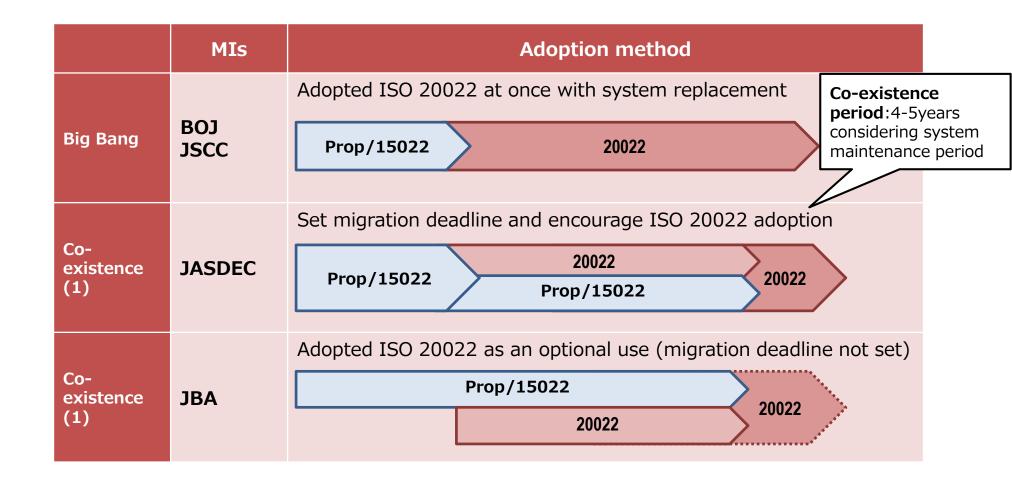
**2000:** FSA reported to "Establish a consistent collation system and standardize message formats is also important for facilitation of settlement of cross-border transactions"

**2001**:CPSS/IOSCO "Recommendations for Securities Settlement Systems"

**2012**: FMI Principle 22 "An FMI should use, or at a minimum accommodate, relevant internationally accepted communication procedures and standards in order to facilitate efficient payment, clearing, settlement, and recording."

		~2000	2001~2010	2011~2017	2018~
IS	O/SWIFT	• <b>1999</b> : ISO 15022 es	• <b>2004</b> : ISO 20022 est.	• 2011 : ISO 20022 Securities domain est.	• <b>2018.4</b> : ISO 20022 migration study(SWIFT)
JР	Payments		JASDEC, JSCC in ecurities domain, BOJ, A in Payments domain		<ul> <li>2018.12:         <ul> <li>Further XML enhancemen in new Zengin system (ZEDI)</li> </ul> </li> <li>BOJ adopts 20022</li> <li>JNet [Big Bang]</li> </ul>
	Securites		ve adopted ISO 20022	• 2014.1 : JASDEC [Set migration per	<ul> <li>2018.5: JSCC adopts 2002</li> <li>*JGB OTC settlement [Big Bang]</li> <li>adopts 20022</li> <li>iod till end of 2018]</li> <li>2018.12: JASDEC end omigration period</li> </ul>







- Align with international standardization and enhance efficiency/accessibility using XML
- By adopting and migrating to ISO 20022, we aimed to mitigate the costs of cross-border trades

#### 2007~2010

- Technical study
- Join SEG ET to engage initial development

#### 2011~2014

- With support of ISITC JP, submitted 12 CRs to align with JP market practice
- Test phase

#### 2015~2018

- Migration phase
- Set internal SR policy to minimize maintenance cost

Number of ISO 20022 messages: Payments[3], S&R[24], Post Trade Matching[4]

# ISO 20022 adoption in JASDEC (2)



- Together with SWIFT, conducted gap analysis and mapping between ISO 15022/20022
- Participated in Evaluation Team (ET) for the following four fields related to the JASDEC operation and participate in new message development work

Business Domains	Other Evaluation Team	
Settlement & Reconciliation (S&R)	ISITC、ECSDA、CSDs、 T2S、SMWG、SWIFT	<ul><li>For JASDEC's BET and PSMS</li><li>Reverse Engineering from ISO 15022</li><li>Draft message released in Dec 2009</li></ul>
Modification and Counterparty Response	DTCC、Euroclear、 Clearstream、SWIFT	<ul><li>For PSMS modification operation</li><li>Registered to ISO in April 2012</li></ul>
Post-trade Matching	Omgeo、Euroclear、 SWIFT、Anbima、FPL	<ul> <li>For PSMS Trade Matching operation</li> <li>Registered to ISO in Oct 2011 (5 msgs used in JASDEC)</li> </ul>
Total Portfolio Valuation (TPV)	ISITC	<ul> <li>Messages for Total Portfolio Valuation, which in JASDEC used as NAV data and Foreign Investment Account Data</li> <li>Registered to ISO in Oct 2011</li> </ul>

# ISO 20022 adoption in JASDEC (3)



- While conducting ISO study, consider application of ISO 20022 to JASDEC system
- In the early stages of examination, 20022 was targeted for Pre Settlement Matching System (PSMS), but later extended to Book-Entry Transfer System(BETS) as well

Schedule	Outline	
2009.11~ 2010.12	In order to examine cross-divisional transactions including the settlement matching system and each transfer system, JASDEC established "ISO 20022 Subcommittee" and carry out cross-sectional item mapping	Mapping for Post Trade Matching was done in PSMS subcommittee
2012.3	System Specification Documents for Users v.1 released	
~2013.6	System development phase	
2013.7~10	Testing with user phase	Concurrent with JASDEC's system replacement
2013.11~ 12	System migration rehearsal	
2014.1	System c/o	

### ISO 20022 schema defined in JASDEC



JASDEC.



- JASDEC schema: "ISO Mandatory" + "Elements used in JASDEC"
- In case of SR, JASDEC only updates its message only if it has impact to JASDEC schema

#### ISO schema (sese.023) JASDEC schema (sese.023 (Settlement Instruction) ) **TransactionIdentification** [1...1]**TransactionIdentification** [1...1]**SettlementTypeAndAdditionalParameters** [1...1]**SettlementTypeAndAdditionalParameters** [1...1]SecuritiesMovementType [1...1]SecuritiesMovementType [1...1]**Payment** [1...1]**Payment** [1...1]CommonIdentification [0...1]CommonIdentification [0...1]CorporateActionEventIdentification [0...1]**TradeDate** [0...1]**TradeDate** [**1**...1] . . . ISO Optional and not defined in ISO Optional but mandatory in

JASDEC. If set, it will be treated as

an error.

## **CRs regarding ISO 20022 adoption**



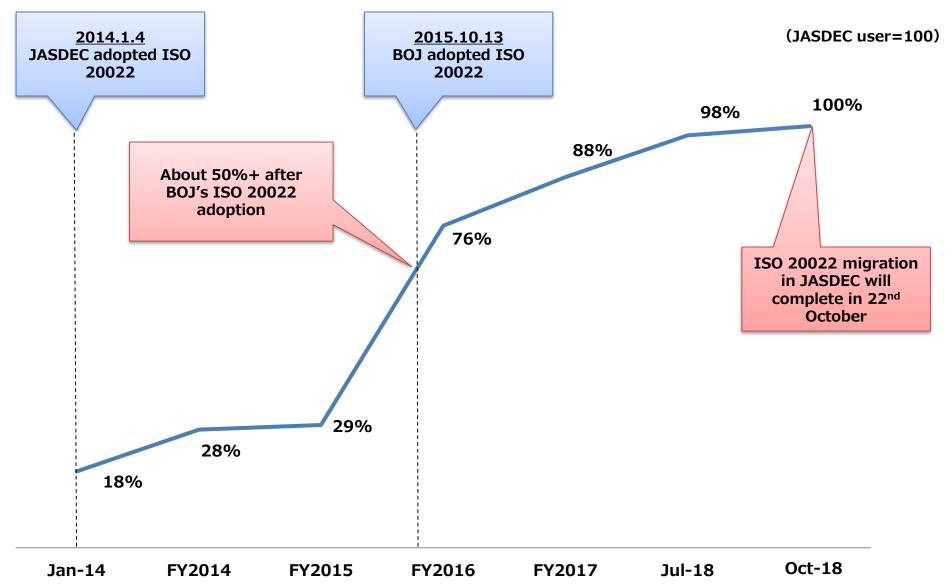
◆ In case of S&R where ISO15022 and ISO20022 coexist, CRs need to be submitted to ISO15022 or ISO20022

#	Year of Submission	Overview	Justification
1	2008 (SR2010)	Addition of QFI info field	Needed for the affirmation of cancellation/modification for already matched instruction
2	2008 (SR2010)	Addition of Related Parties Field in Receiving Agent	Allowed to use ISIN and local code
3	2008 (SR2010)	Addition of Market Type Code "VARI"	Allowed to use ISIN and local code (Accepted as single ISO 20022 CR)
4	2009 (SR2010)	Modification of Consumption Tax Definition	For JASDEC's DVP Settlement Services for NETDs
5	2009 (SR2010)	Able to set two Settlement date	For JASDEC's DVP Settlement Services for NETDs
6	2009 (SR2010)	Addition of "INVE" (fund code) and "DEAG/REAG" (delivering/receiving settlement agent) to MT530/sese.03	Reason code in case of unmatched in accrued interest amount

NETD: Non-exchange transaction deliveries







### **ISO 20022 Assessment in JASDEC**



- System and its operation complies with the international standards
- ♦ Further focus point will be to resolve the coexistence of 15022 and 20022

Element	JASDEC	Domestic Player	Global Player	Assessment
International Standardization	0	-	-	Archived alignment with ISO standards
Maintainability using XML	$\bigcirc$			-System development and test efficiency has improved -JASDEC will adopt SR changes only if it has impacts to JASDEC's defined messages/components
Migration/Termination of legacy system	$\circ$	0	0	Making steady progress (will complete migration as sheduled)
STP for the entire settlement chain	Δ	-	×	-Unify 20022 for the entire settlement chain 【Global ×】 -Coexistence w/ 15022 is not cost effective 【Global ×】

Domestic Player: PSMS participant who aim to operate domestic transaction (Domestic brokers, banks, etc.)

Global Player: PSMS participant who aim to operate cross-border transaction (Global custodians, broker/dealers, etc.)

 $\bigcirc$  : Achieved the initial goal / Obtain the expected benefit

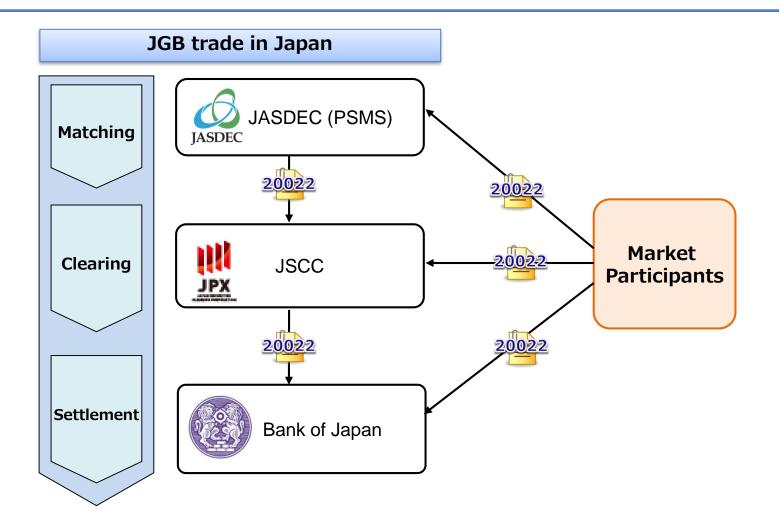
 $\triangle$  : Neither Agree Nor Disagree

× : Did not achieved the initial goal / Problem observed

- : Not subject to evaluate



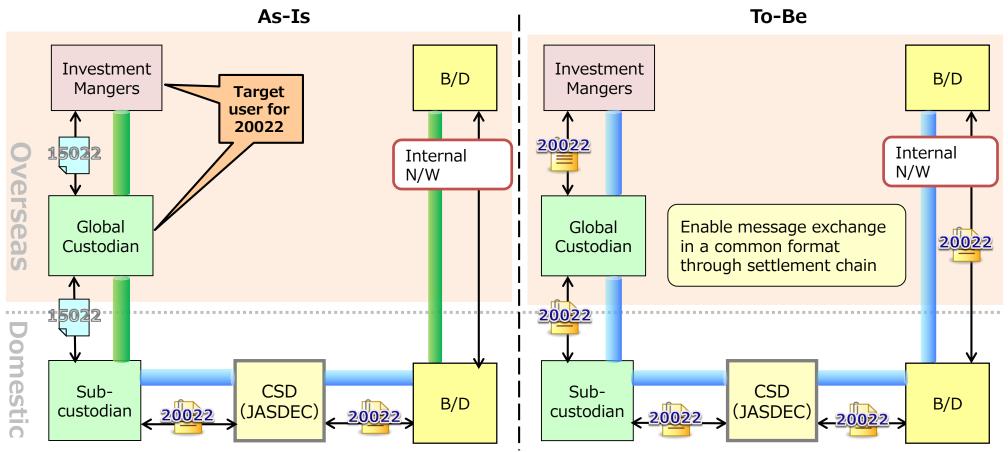
- ◆ From May 2018, domestic JGB settlement has moved to T+1 cycle
- The effect of ISO 20022/XML adoption was demonstrated where the comprehensive operational tests have progressed smoothly and without any delay



### To-Be in ISO 20022 Securities domain

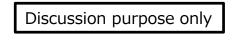


- All entities engaging in ISO 20022 will contribute further STP
- Although ISO 15022 is still dominant among overseas institutional investors and global custodians\*, we hope for early 20022 migration in the settlement chain

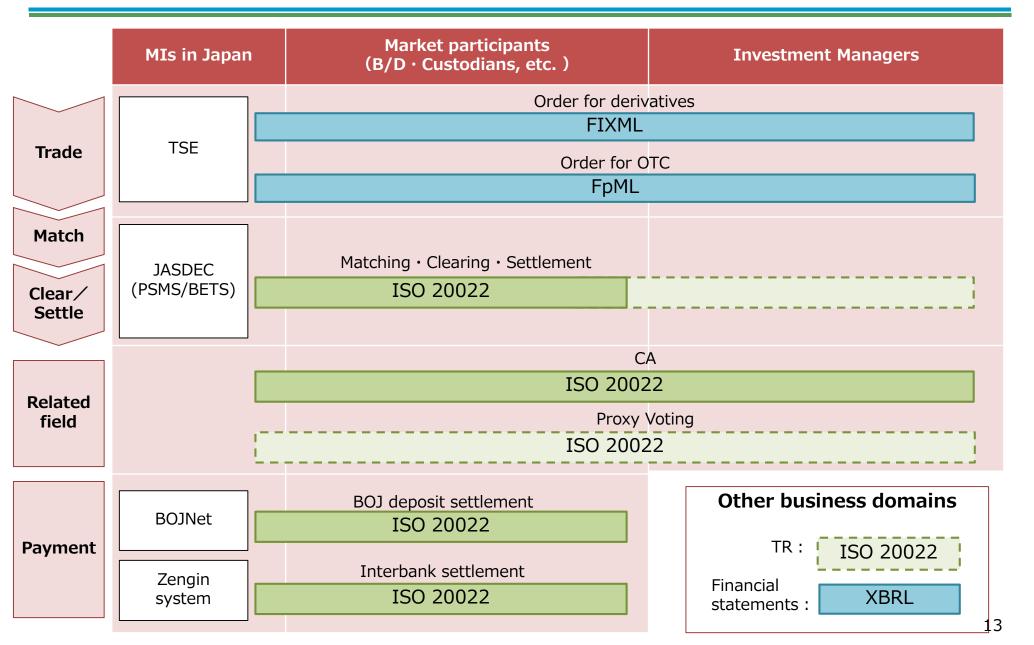


<sup>\*</sup> In recent years, transactions of HFs/PBs are growing, which results that corresponds to the problem is about 1/4 of the total of non  $\bar{1}2$  resident transactions

## How could we extend ISO 20022/XML?









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