CHANGE REQUEST FORM

Version	State	Author	Date	Description
1	Draft	J. Lim	08 Sep 2021	Initial Document
2	Draft	M.A. Gariplan	20 Jan 2022	Added error message in item 2.a. Change Details; added Other.Other template in Change Impact
3	Draft	M.A. Gariplan	17 Mar 2022	Added new Assumption

Title	**Evaluate ISO 3166 (2 char) validation for the entry of underlier instrument ISIN**		
Background	At present, the input process of validating an Underlying instrument ISIN is based on the format pattern of (2alpha, 9 alphanumeric and 1numeric) of the input value and syntactic validation of last digit. If such pattern or syntactic validation does not conform with the requirements, an error message will be returned to the users. To further improved the data quality of the input underlying instrument ISIN, the task is to evaluate the first two characters of the input value whether the prefix represents a valid ISIN prefix based on the list of ISIN prefixes that is available on the ANNA website. If the prefix of the input underlying ISIN does not correspond to a valid ISIN prefix, the request for creation of ISIN must be rejected.	**JIRA**	**DSB-1410**
		Type	Validation
		Owner	Jovelyn Lim
		Version	3
		State	Final

Terms of Reference	Scope	**In Scope** • The impact of change applies to product templates where an attribute is underlying ISIN. • SWAPTION products are in scope **Out of Scope** • The specification does not include the UPI behaviour of underlier ISIN. • The specification does not include the requirements for each product template e.g., for swaption product where the underlier ISIN must be a swap type.
	Dependencies	• Dependent on the availability of RA list of ISIN prefixes and active maintenance of the list.
	Assumptions	• The 2-char code list to be used is based on the RA list of ISIN prefixes made available by ANNA. • The specification assumes that the existing ISIN validation process will not be modified. • The specification for ISIN pattern (2alpha, 9alphanumeric, 1 check digit) is based on the ISO 6166. • The specification for swaption products will not be subject to specific validation. • The DSB must be consistent with the ASB validations in which the existing RA list is considered correct and invalid prefixes, including those for substitute numbering agencies or technical prefixes are not considered valid.
Requirements		There is a requirement to improve the data quality of OTC ISINs by evaluating the 2-char code of the input Underlying ISINs. In addition to that the validation of 2-char code will be based on the RA list of ISIN prefixes made available by ANNA. The first two-character alpha codes must go through a validation whether the alpha codes exist in the RA list of ISIN prefixes. If the two-character code does not exist, the DSB will return an error message and will

	not proceed to create an ISIN.

Current Process	The following validations are based on the current OTC ISIN product definitions and will not be affected by the changes detailed in the CRF.
	
	   a. First two characters – 2 alpha codes
	   b. Next nine characters – alphanumeric combination
	   c. Last character – check digit formula.

Change Details	In addition to the existing validation for the in-scope Underlying ISIN (see Current Process), the system will modify the validation of the first 2-char code of the underlying instrument ISIN. The change will apply to request message having "Underlying Instrument ISIN" or "Instrument ISIN" as an attribute.
	
	1. Valid input of 2-char codes
	    a. The 2-char code applies to the first two-character of the underlier ISIN
	    b. The 2-char must be an existing code in the RA list of ISIN prefixes made available by ANNA.
	
	2. Invalid input of 2-char codes
	    a. If the 2-char code is alphanumeric combination:
	      • ISIN Single structure – the DSB will not return an ISIN and instead will provide an error message of
	         o For attribute Underlying Instrument ISIN - "/Attributes/UnderlyingInstrumentISIN: ECMA 262 regex "^[A-Z]{2}[A-Z0-9]{9}[0-9]$\" does not match input string "[user input]""
	         o For attribute Instrument ISIN - "/Attributes/Underlying/InstrumentISIN: ECMA 262 regex "^[A-Z]{2}[A-Z0-9]{9}[0-9]$\" does not match input string "[user input]""
	      • ISIN AnyOf structure - the DSB will not return an ISIN and instead will provide an error message of "/Attributes/Underlying/UnderlyingInstrumentISIN: ECMA 262 regex "^[A-Z]{2}[A-Z0-9]{9}[0-9]$\" does not match input string "[user input]""
	      • ISIN OneOf structure – the DSB will not return an ISIN and instead will provide an error message of "/Attributes: instance failed to match exactly one schema (matched 0 out of 3)".
	    b. If the 2-char code does not exist in the source, the DSB will not return an ISIN and instead will provide an error message of "Error: ISIN/s must be valid".
	
	In cases where product templates have multiple underlier ISINs (e.g., Non-standard), and one of the inputs has invalid 2-char code, the DSB will return an error message of "Error: ISIN/s must be valid".

Change Impact	Below templates will be impacted by the change of validation and its attribute. For array type of attributes, the validation will apply to all input ISIN by the user and if one of the inputs has invalid 2-char code, the DSB will not generate an ISIN and instead will send an error message to the user. The following templates have attribute of "Underlying Instrument ISIN" and has single input underlier. • Rates.Forward.FRA_Other • Rates.Option.Swaption • Rates.Option.Debt_Option • Credit.Swap.Total_Return_Swap • Credit.Option.Index_Swaption • Credit.Option.Single_Name_Swaption • Commodities.Option.Swaption • Equity.Swap.Price_Return_Basic_Performance_Single_Name • Equity.Swap.Price_Return_Basic_Performance_Single_Index

- Equity.Swap.Price_Return_Basic_Performance_Single_Name_CFD
- Equity.Swap.Price_Return_Basic_Performance_Single_Index_CFD
- Equity.Forward.Price_Return_Basic_Performance_Single_Name_CFD
- Equity.Forward.Price_Return_Basic_Performance_Single_Index_CFD
- Equity.Forward.Price_Return_Basic_Performance_Single_Name
- Equity.Forward.Price_Return_Basic_Performance_Single_Index
- Equity.Swap.Parameter_Return_Dividend_Single_Name
- Equity.Swap.Parameter_Return_Dividend_Single_Index
- Equity.Swap.Parameter_Return_Variance_Single_Name
- Equity.Swap.Parameter_Return_Variance_Single_Index
- Equity.Swap.Parameter_Return_Volatility_Single_Name
- Equity.Swap.Parameter_Return_Volatility_Single_Index
- Equity.Swap.Portfolio_Swap_Other
- Equity.Swap.Portfolio_Swap_Single_Name
- Equity.Swap.Portfolio_Swap_Single_Index
- Equity.Option.Single_Name
- Equity.Option.Single_Index

The following templates have attribute of "Instrument ISIN" and has single input underlier.
- Credit.Swap.Corporate
- Credit.Swap.Municipal
- Credit.Swap.Sovereign
- Credit.Swap.Loan
- Credit.Swap.ABS

The following templates have attribute of "Underlying Instrument ISIN" and has multiple input underliers.
- Equity.Swap.Price_Return_Basic_Performance_Basket
- Equity.Swap.Price_Return_Basic_Performance_Basket_CFD
- Equity.Forward.Price_Return_Basic_Performance_Basket_CFD
- Equity.Forward.Price_Return_Basic_Performance_Basket
- Equity.Swap.Parameter_Return_Dividend_Basket
- Equity.Swap.Parameter_Return_Variance_Basket
- Equity.Swap.Parameter_Return_Volatility_Basket
- Equity.Swap.Portfolio_Swap
- Equity.Swap.Non_Standard
- Other.Swap.Non_Standard
- Equity.Option.Basket
- Equity.Option.Non_Standard
- Equity.Forward.Non_Standard
- Other.Option.Non_Standard
- Other.Other.Non_Standard

The following templates have attribute of "Instrument ISIN" and has multiple input underliers.
- Credit.Option.Non_Standard
- Credit.Swap.Non_Standard_Swap

Backward Compatibility	The existing ISIN will continue to exist in the DSB record but retrieving the record templates will be limited depending on the search or retrieve function used by users. The following functions are supported by DSB and should be taken into consideration once the validation has been added in the system. 1) **Retrieve or Create ISIN record** – Users supplies request attributes to the system, and DSB returned the recorded version of the ISIN or generate a new ISIN if not yet created in the system. a) User will submit request attribute, then the system validates the input data including the 2-char

code of the underlying instrument ISIN.

    b) If the 2-char code ISIN exist in the RA list of ISIN prefixes, the DSB will return a recorded version of an ISIN or generate a new ISIN if not exist.

    c) If the 2-char code ISIN does not exist in the RA list of ISIN prefixes, the DSB will not return an ISIN record, even if the ISIN has an existing record in the DSB.

    d) If ISIN has not been created in the DSB yet, and the 2-char code does not exist in the RA list of ISIN prefixes, the system will provide an error message and will not generate an ISIN.

    e) The DSB will not inform users whether an ISIN exists in the DSB record or not.

2) **Retrieve ISIN record by ISIN** – User uses the search function by supplying the OTC ISIN, and the DSB returns the record attributes.

    a) If user supplies the OTC ISIN, even if the underlying ISIN of the existing record has invalid 2-char code, the system will return the record template.

3) **Search for ISIN record** – User can search an ISIN based on the attributes of the templates.

    a) User needs to use the Lucene search string to search for an ISIN record.

    b) If the search string includes underlying instrument ISIN in the input search and the 2-char code is not in the RA list of ISIN prefixes, the DSB will return the recorded ISIN.

4) **Retrieve no create** – User supplies the request attribute to the system, and DSB will return the record attributes (including the derived).

    a) User will submit request attribute, then the system validates the input data including the 2-char code of the underlying instrument ISIN.

    b) If the 2-char code ISIN exist in the RA list of ISIN prefixes, the DSB will return a record template (attributes and derived) but will not generate an ISIN in the record or will provide an ISIN record template found if exist.

    c) If the 2-char code ISIN does not exist in the RA list of ISIN prefixes, the DSB will not return an ISIN record, even if the ISIN has an existing record in the DSB.

    d) If ISIN has not been created in the DSB yet, and the 2-char code does not exist in the RA list of ISIN prefixes, the system will provide an error message and will not generate an ISIN.

Documentation	The following DSB documents are to be updated: • DSB UAT Product Definitions here • DSB PROD Product Definitions here
Comments	• The specification only includes the two alpha code validation whether the code used is a recognized country code based on RA list of ISIN prefixes made by ANNA, however, it will not specify whether an ISIN is a valid underlying of a product.
References	Main source: RA list of ISIN prefixes Other sources: ISO-3166 Glossary ISO-3166-2 country codes collection ISO-6166

APPENDIX

The following table shows the list of eligible ISIN prefixes in the RA list of ISIN prefixes, ISO 3166-2 or in both sources. The remarks are the status of code elements based on country codes collection. The DSB will use the RA list of ISIN prefixes made available by ANNA as the list includes "QZ" and "XS" which are user-assigned codes for ISIN.

The RA list of ISIN prefixes by ANNA has 258 alpha codes available, wherein 249 of which are officially assigned country codes for ISIN and rest of which are reserved or user-assigned codes. The RA list of ISIN prefixes includes 2 of the user-assigned codes "QZ" and "XS" which do not represent a country but an organization for particular use. In addition, one code in the list is formerly used codes where it used to be part of the standard but no longer in use. The codes "EU" and "EZ" are exceptionally reserve, which means that these codes are special request from ISO member, governments or international organizations. Moreover, the remaining four codes – "AN", "CS", "YU" and "ZR" are transitionally reserve codes which are reserved during transitional period while the replacement of new codes is taken into use.

Summary Table:

ISO Status	ISO 3166 Membership	RA List Membership	Examples
Officially assigned	249	249	United States, Japan, France
Exceptionally reserved	13	2	European Union, OTC Derivatives, United Nations, USSR
Formerly used	14	1	DDR, Yemen, Upper Volta
Indeterminately Reserved	30	0	Patent Offices, License Plates
Transitionally reserved	7	4	Zaire, Yugoslavia, East Timor
User-assigned	0	2	Unique Product Identifier, Euroclear/ Clearstream
Total	**313**	**258**	

Alpha-2 code set list:

Alpha-2 code	RA list of ISIN prefixes	ISO-3166-2	Remarks
AC	✗	✓	Exceptionally reserved
AD	✓	✓	Officially Assigned
AE	✓	✓	Officially Assigned
AF	✓	✓	Officially Assigned
AG	✓	✓	Officially Assigned
AI	✓	✓	Officially Assigned
AL	✓	✓	Officially Assigned
AM	✓	✓	Officially Assigned
AN	✓	✓	Transitionally reserved
AO	✓	✓	Officially Assigned
AP	✗	✓	Indeterminately reserved
AQ	✓	✓	Officially Assigned
AR	✓	✓	Officially Assigned
AS	✓	✓	Officially Assigned
AT	✓	✓	Officially Assigned
AU	✓	✓	Officially Assigned
AW	✓	✓	Officially Assigned
AX	✓	✓	Officially Assigned
AZ	✓	✓	Officially Assigned
BA	✓	✓	Officially Assigned
BB	✓	✓	Officially Assigned
BD	✓	✓	Officially Assigned
BE	✓	✓	Officially Assigned
BF	✓	✓	Officially Assigned

BG	✓	✓	Officially Assigned
BH	✓	✓	Officially Assigned
BI	✓	✓	Officially Assigned
BJ	✓	✓	Officially Assigned
BL	✓	✓	Officially Assigned
BM	✓	✓	Officially Assigned
BN	✓	✓	Officially Assigned
BO	✓	✓	Officially Assigned
BQ	✓	✓	Officially Assigned
BR	✓	✓	Officially Assigned
BS	✓	✓	Officially Assigned
BT	✓	✓	Officially Assigned
BU	✗	✓	Transitionally reserved
BV	✓	✓	Officially Assigned
BW	✓	✓	Officially Assigned
BX	✗	✓	Indeterminately reserved
BY	✓	✓	Officially Assigned
BZ	✓	✓	Officially Assigned
CA	✓	✓	Officially Assigned
CC	✓	✓	Officially Assigned
CD	✓	✓	Officially Assigned
CF	✓	✓	Officially Assigned
CG	✓	✓	Officially Assigned
CH	✓	✓	Officially Assigned
CI	✓	✓	Officially Assigned
CK	✓	✓	Officially Assigned
CL	✓	✓	Officially Assigned
CM	✓	✓	Officially Assigned
CN	✓	✓	Officially Assigned
CO	✓	✓	Officially Assigned
CP	✗	✓	Exceptionally reserved
CQ	✗	✓	Exceptionally reserved
CR	✓	✓	Officially Assigned
CS	✓	✓	Transitionally reserved
CT	✗	✓	Formerly used
CU	✓	✓	Officially Assigned
CV	✓	✓	Officially Assigned
CW	✓	✓	Officially Assigned
CX	✓	✓	Officially Assigned
CY	✓	✓	Officially Assigned
CZ	✓	✓	Officially Assigned
DD	✗	✓	Formerly used
DE	✓	✓	Officially Assigned
DG	✗	✓	Exceptionally reserved
DJ	✓	✓	Officially Assigned
DK	✓	✓	Officially Assigned
DM	✓	✓	Officially Assigned

DO	✓	✓	Officially Assigned
DY	✗	✓	Indeterminately reserved
DZ	✓	✓	Officially Assigned
EA	✗	✓	Exceptionally reserved
EC	✓	✓	Officially Assigned
EE	✓	✓	Officially Assigned
EF	✗	✓	Indeterminately reserved
EG	✓	✓	Officially Assigned
EH	✓	✓	Officially Assigned
EM	✗	✓	Indeterminately reserved
EP	✗	✓	Indeterminately reserved
ER	✓	✓	Officially Assigned
ES	✓	✓	Officially Assigned
ET	✓	✓	Officially Assigned
EU	✓	✓	Exceptionally reserved
EV	✗	✓	Indeterminately reserved
EW	✗	✓	Indeterminately reserved
EZ	✓	✓	Exceptionally reserved
FI	✓	✓	Officially Assigned
FJ	✓	✓	Officially Assigned
FK	✓	✓	Officially Assigned
FL	✗	✓	Indeterminately reserved
FM	✓	✓	Officially Assigned
FO	✓	✓	Officially Assigned
FQ	✗	✓	Formerly used
FR	✓	✓	Officially Assigned
FX	✗	✓	Exceptionally reserved
GA	✓	✓	Officially Assigned
GB	✓	✓	Officially Assigned
GC	✗	✓	Indeterminately reserved
GD	✓	✓	Officially Assigned
GE	✓	✓	Officially Assigned
GF	✓	✓	Officially Assigned
GG	✓	✓	Officially Assigned
GH	✓	✓	Officially Assigned
GI	✓	✓	Officially Assigned
GL	✓	✓	Officially Assigned
GM	✓	✓	Officially Assigned
GN	✓	✓	Officially Assigned
GP	✓	✓	Officially Assigned
GQ	✓	✓	Officially Assigned
GR	✓	✓	Officially Assigned
GS	✓	✓	Officially Assigned
GT	✓	✓	Officially Assigned
GU	✓	✓	Officially Assigned
GW	✓	✓	Officially Assigned
GY	✓	✓	Officially Assigned

HK	✓	✓	Officially Assigned
HM	✓	✓	Officially Assigned
HN	✓	✓	Officially Assigned
HR	✓	✓	Officially Assigned
HT	✓	✓	Officially Assigned
HU	✓	✓	Officially Assigned
HV	✗	✓	Formerly used
IB	✗	✓	Indeterminately reserved
IC	✗	✓	Exceptionally reserved
ID	✓	✓	Officially Assigned
IE	✓	✓	Officially Assigned
IL	✓	✓	Officially Assigned
IM	✓	✓	Officially Assigned
IN	✓	✓	Officially Assigned
IO	✓	✓	Officially Assigned
IQ	✓	✓	Officially Assigned
IR	✓	✓	Officially Assigned
IS	✓	✓	Officially Assigned
IT	✓	✓	Officially Assigned
JA	✗	✓	Indeterminately reserved
JE	✓	✓	Officially Assigned
JM	✓	✓	Officially Assigned
JO	✓	✓	Officially Assigned
JP	✓	✓	Officially Assigned
JT	✗	✓	Formerly used
KE	✓	✓	Officially Assigned
KG	✓	✓	Officially Assigned
KH	✓	✓	Officially Assigned
KI	✓	✓	Officially Assigned
KM	✓	✓	Officially Assigned
KN	✓	✓	Officially Assigned
KP	✓	✓	Officially Assigned
KR	✓	✓	Officially Assigned
KW	✓	✓	Officially Assigned
KY	✓	✓	Officially Assigned
KZ	✓	✓	Officially Assigned
LA	✓	✓	Officially Assigned
LB	✓	✓	Officially Assigned
LC	✓	✓	Officially Assigned
LF	✗	✓	Indeterminately reserved
LI	✓	✓	Officially Assigned
LK	✓	✓	Officially Assigned
LR	✓	✓	Officially Assigned
LS	✓	✓	Officially Assigned
LT	✓	✓	Officially Assigned
LU	✓	✓	Officially Assigned
LV	✓	✓	Officially Assigned

LY	✓	✓	Officially Assigned
MA	✓	✓	Officially Assigned
MC	✓	✓	Officially Assigned
MD	✓	✓	Officially Assigned
ME	✓	✓	Officially Assigned
MF	✓	✓	Officially Assigned
MG	✓	✓	Officially Assigned
MH	✓	✓	Officially Assigned
MI	✗	✓	Formerly used
MK	✓	✓	Officially Assigned
ML	✓	✓	Officially Assigned
MM	✓	✓	Officially Assigned
MN	✓	✓	Officially Assigned
MO	✓	✓	Officially Assigned
MP	✓	✓	Officially Assigned
MQ	✓	✓	Officially Assigned
MR	✓	✓	Officially Assigned
MS	✓	✓	Officially Assigned
MT	✓	✓	Officially Assigned
MU	✓	✓	Officially Assigned
MV	✓	✓	Officially Assigned
MW	✓	✓	Officially Assigned
MX	✓	✓	Officially Assigned
MY	✓	✓	Officially Assigned
MZ	✓	✓	Officially Assigned
NA	✓	✓	Officially Assigned
NC	✓	✓	Officially Assigned
NE	✓	✓	Officially Assigned
NF	✓	✓	Officially Assigned
NG	✓	✓	Officially Assigned
NH	✗	✓	Formerly used
NI	✓	✓	Officially Assigned
NL	✓	✓	Officially Assigned
NO	✓	✓	Officially Assigned
NP	✓	✓	Officially Assigned
NQ	✓	✓	Formerly used
NR	✓	✓	Officially Assigned
NT	✗	✓	Transitionally reserved
NU	✓	✓	Officially Assigned
NZ	✓	✓	Officially Assigned
OA	✗	✓	Indeterminately reserved
OM	✓	✓	Officially Assigned
PA	✓	✓	Officially Assigned
PC	✗	✓	Formerly used
PE	✓	✓	Officially Assigned
PF	✓	✓	Officially Assigned
PG	✓	✓	Officially Assigned

PH	✓	✓	Officially Assigned
PI	✗	✓	Indeterminately reserved
PK	✓	✓	Officially Assigned
PL	✓	✓	Officially Assigned
PM	✓	✓	Officially Assigned
PN	✓	✓	Officially Assigned
PR	✓	✓	Officially Assigned
PS	✓	✓	Officially Assigned
PT	✓	✓	Officially Assigned
PU	✗	✓	Formerly used
PW	✓	✓	Officially Assigned
PY	✓	✓	Officially Assigned
PZ	✗	✓	Formerly used
QA	✓	✓	Officially Assigned
QZ	✓	✗	User-assigned
RA	✗	✓	Indeterminately reserved
RB	✗	✓	Indeterminately reserved
RC	✗	✓	Indeterminately reserved
RE	✓	✓	Officially Assigned
RH	✗	✓	Indeterminately reserved
RI	✗	✓	Indeterminately reserved
RL	✗	✓	Indeterminately reserved
RM	✗	✓	Indeterminately reserved
RN	✗	✓	Indeterminately reserved
RO	✓	✓	Officially Assigned
RP	✗	✓	Indeterminately reserved
RS	✓	✓	Officially Assigned
RU	✓	✓	Officially Assigned
RW	✓	✓	Officially Assigned
SA	✓	✓	Officially Assigned
SB	✓	✓	Officially Assigned
SC	✓	✓	Officially Assigned
SD	✓	✓	Officially Assigned
SE	✓	✓	Officially Assigned
SF	✗	✓	Indeterminately reserved
SG	✓	✓	Officially Assigned
SH	✓	✓	Officially Assigned
SI	✓	✓	Officially Assigned
SJ	✓	✓	Officially Assigned
SK	✓	✓	Officially Assigned
SL	✓	✓	Officially Assigned
SM	✓	✓	Officially Assigned
SN	✓	✓	Officially Assigned
SO	✓	✓	Officially Assigned
SR	✓	✓	Officially Assigned
SS	✓	✓	Officially Assigned
ST	✓	✓	Officially Assigned

SU	✗	✓	Exceptionally reserved
SV	✓	✓	Officially Assigned
SX	✓	✓	Officially Assigned
SY	✓	✓	Officially Assigned
SZ	✓	✓	Officially Assigned
TA	✗	✓	Exceptionally reserved
TC	✓	✓	Officially Assigned
TD	✓	✓	Officially Assigned
TF	✓	✓	Officially Assigned
TG	✓	✓	Officially Assigned
TH	✓	✓	Officially Assigned
TJ	✓	✓	Officially Assigned
TK	✓	✓	Officially Assigned
TL	✓	✓	Officially Assigned
TM	✓	✓	Officially Assigned
TN	✓	✓	Officially Assigned
TO	✓	✓	Officially Assigned
TP	✗	✓	Transitionally reserved
TR	✓	✓	Officially Assigned
TT	✓	✓	Officially Assigned
TV	✓	✓	Officially Assigned
TW	✓	✓	Officially Assigned
TZ	✓	✓	Officially Assigned
UA	✓	✓	Officially Assigned
UG	✓	✓	Officially Assigned
UK	✗	✓	Exceptionally reserved
UM	✓	✓	Officially Assigned
UN	✗	✓	Exceptionally reserved
US	✓	✓	Officially Assigned
UY	✓	✓	Officially Assigned
UZ	✓	✓	Officially Assigned
VA	✓	✓	Officially Assigned
VC	✓	✓	Officially Assigned
VD	✗	✓	Formerly used
VE	✓	✓	Officially Assigned
VG	✓	✓	Officially Assigned
VI	✓	✓	Officially Assigned
VN	✓	✓	Officially Assigned
VU	✓	✓	Officially Assigned
WF	✓	✓	Officially Assigned
WG	✗	✓	Indeterminately reserved
WK	✗	✓	Formerly used
WL	✗	✓	Indeterminately reserved
WO	✗	✓	Indeterminately reserved
WS	✓	✓	Officially Assigned
WV	✗	✓	Indeterminately reserved
XS	✓	✗	User-assigned

YD	✗	✓	Formerly used
YE	✓	✓	Officially Assigned
YT	✓	✓	Officially Assigned
YU	✓	✓	Transitionally reserved
YV	✗	✓	Indeterminately reserved
ZA	✓	✓	Officially Assigned
ZM	✓	✓	Officially Assigned
ZR	✓	✓	Transitionally reserved
ZW	✓	✓	Officially Assigned