

Derivatives Service Bureau  
**CHANGE REQUEST FORM**

Version	State	Author	Date	Description
1	DRAFT	Marlowe Surop	07 Feb 2020	Initial Document
1	FINAL	Marlowe Surop	16 July 2020	Updated to FINAL

Title		Set LastUpdateDateTime ISIN attribute to "Required" in all record templates	
<b>Background</b>	<p>Every ISIN successfully created is ever unique in DSB database. However, a certain user has raised their concern as they would like to rely on the "LastUpdateDateTime" and to know when a certain record has changed. "LastUpdateDateTime" is one of the ISIN record attributes, serves as the timestamp that indicates when a certain record was created or last updated if there have been any updates.</p> <p>Current state in all record templates, ISIN record does not include "LastUpdateDateTime" attribute as one of the required fields in DSB's JSON schema as illustrated below:</p> <pre> },   "required": [     "ISIN",     "Status"   ],   "additionalProperties": false </pre> <p>In order for each ISIN created to be meaningful, "LastUpdateDateTime" ISIN record attribute should be included to "Required" in JSON schema in all record templates for all asset classes. This is in response to the email inquiry received from a DSB user (November 01, 2017).</p>	<b>JIRA</b>	<b>DSB-054</b>
		<b>Type</b>	Technical
		<b>Owner</b>	Marlowe Surop
		<b>Version</b>	1
		<b>State</b>	FINAL
<b>Terms of Reference</b>	<b>Scope</b>	The impact of this change is for all templates in all asset classes (i.e., Rates, Credit, Equity, Commodities, Foreign_Exchange and Other).	
	<b>Dependencies</b>	DSB-054 has no dependencies to any existing JIRA ticket.	
<b>Requirements</b>	As stated above, ISIN record attribute "LastUpdateDateTime" must be included to "Required" in JSON schema. Once change is implemented in all in-scope templates, "LastUpdateDateTime" should be one of the required output attributes in ISIN derivation.		
<b>Technical Considerations</b>	For this specific change requirement, as per Developers, there are no technical considerations as of the moment and such requirement can be executed with no issues as "Last Update DateTime" record attribute already exist once ISIN is created or last updated, it just happen that this is not included as one of the Required fields in all DSB record templates.		
<b>Change Details</b>	All in-scope record templates for all asset classes with ISIN record attribute "LastUpdateDateTime" needs to be included to "Required" as illustrated below. Moreover, its logic or functionality remains unchanged.		

	<pre> }, "required": [   "ISIN",   "Status",   "LastUpdateDateTime" ], "additionalProperties": false }, </pre>																									
<b>Change Impact</b>	The change will impact all existing record templates for all asset classes (i.e., Rates, Credit, Equity, Commodities, Foreign_Exchange and Other).																									
<b>Error Message</b>	Once the required change is implemented in DSB JSON schema, there is no error message that is expected to happen.																									
<b>Backward Compatibility</b>	This is an enhancement in all existing templates and will not have an impact on any existing ISINs since all previously created ISINs have "LastUpdateDateTime" record attribute which served as a fingerprint or timestamp as to when the ISIN was created or last updated if there have been any updates.																									
<b>Use Cases</b>	<p>Valid ISIN record for all affected templates based on each ISIN status:</p> <table border="1" data-bbox="308 916 1307 1155"> <thead> <tr> <th>RECORD</th> <th>Identification</th> <th>Status</th> <th>Status Reason</th> <th>Last Update DateTime</th> </tr> </thead> <tbody> <tr> <td>All templates</td> <td>EZ*****</td> <td>New</td> <td>x</td> <td>√</td> </tr> <tr> <td>All templates</td> <td>EZ*****</td> <td>Updated</td> <td>x</td> <td>√</td> </tr> <tr> <td>All templates</td> <td>EZ*****</td> <td>Expired</td> <td>x</td> <td>√</td> </tr> <tr> <td>All templates</td> <td>EZ*****</td> <td>Deleted</td> <td>x</td> <td>√</td> </tr> </tbody> </table>	RECORD	Identification	Status	Status Reason	Last Update DateTime	All templates	EZ*****	New	x	√	All templates	EZ*****	Updated	x	√	All templates	EZ*****	Expired	x	√	All templates	EZ*****	Deleted	x	√
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All templates	EZ*****	Deleted	x	√																						
<b>Documentation</b>	None																									
<b>References</b>	<ul style="list-style-type: none"> <li>• ANNA-DSB ISIN Status_Final <a href="#">here</a></li> <li>➤ Section 7 ISIN update in FIX subscription and File Download</li> </ul>																									

## INTERNAL INFORMATION

Title	Description
<b>MIS Requirements</b>	This is an enhancement of ISIN record attribute "Last Update Date Time" in all DSB templates which already forms part of <b>anna-dsb-fipro-log</b> .