

DERIVATIVES SERVICE BUREAU

TECHNOLOGY ADVISORY COMMITTEE

27 June 2018 v1a

FINAL

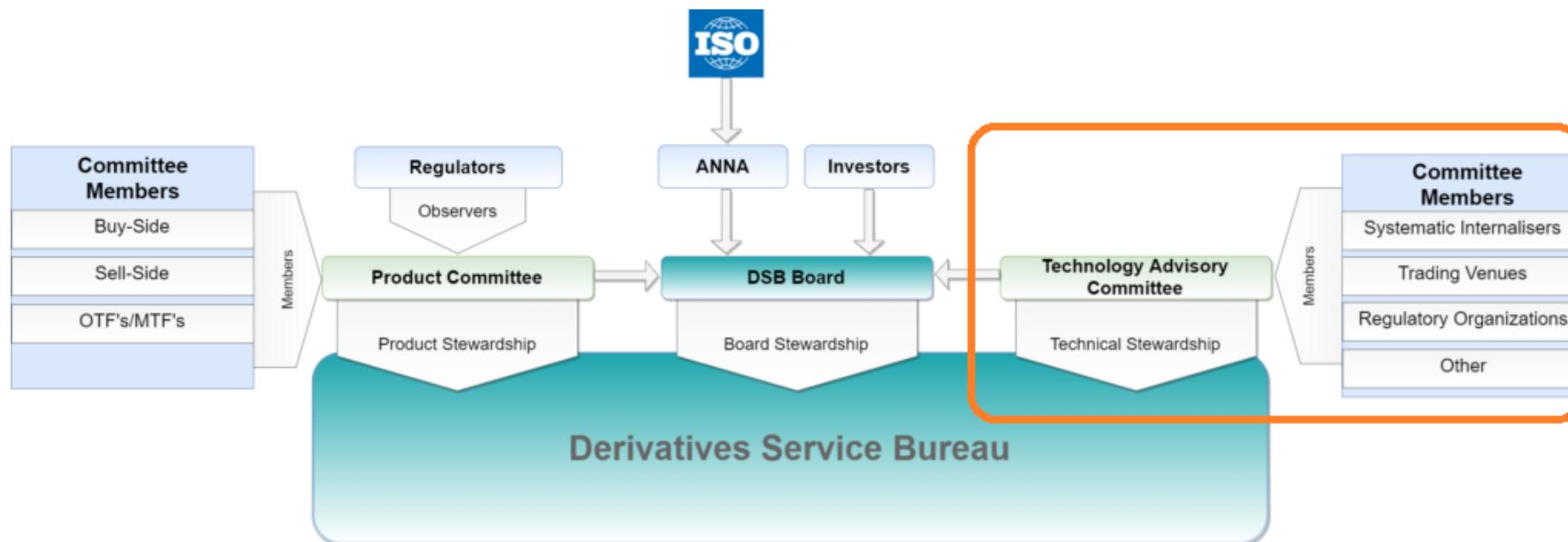
Agenda

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Introduction

The DSB Technology Advisory Committee (TAC) will provide advice on the application and utilization of new and existing technologies. The TAC will provide advice on the appropriate level of investment in technology, and advise on the strategies to implement services to support the DSB's responsibility to ensure the integrity of a critical market infrastructure for providing financial instrument identifiers:

<https://www.anna-dsb.com/download/technology-advisory-committee-charter/>



Committee Members

Institution	Category	First Name	Last Name	Position / Title
Citigroup	SI	Souvik	Deb	VP, Regulatory Reform
Credit Suisse	SI	Prem	Ananthakrishnan	IT
HSBC	SI	Andrew	Woolley	MiFID II Technical Architect
JP Morgan	SI	Rajiv	Malik	VP, IT
Lloyds Bank	SI	Stephen	Pond	FI E-Trading & Rates Pricing Dev Manager
Morgan Stanley	SI	Shari	Lines	Financial Instrument Ref Data Architect
Rabobank	SI	James	Brown	Delivery Manager, IT Systems
SEB	SI	Henrik	Martensson	Markets CTO Office
Standard Chartered Bank	SI	Andrew	Poulter	Sabre Development Manager
State Street Bank	SI	Kimberly	Cohen	MD - Business Technology Solutions
UBS	SI	Tony	Chau	IB CTO for Regulatory Initiatives
BGC Partners	TV	Jimmy	Chen	Development Manager
Bloomberg LP	TV	Chris	Pulsifer	Software Development Manager
Nex	TV	Ziv	Yankowitz	VP - Research and Development
State Street FX Connect	TV	Tony	Flamand	Head of Regulatory Reform
Thomson Reuters MTF	TV	Alex	Petts	Senior Technologist, Transactions Admin
Tradeweb	TV	Elodie	Cany	Director, Technology Product Development
Asset Control	Other Industry	Martijn	Groot	VP - Product Management
Simplitem	Other Industry	Aanya	Madhani	Head of Product Development
SIX Group Services AG	Other Industry	Stephan	Schaub	Senior Architect
SmartStream	Other Industry	Rocky	Martinez	CTO
Thomson Reuters Data	Other Industry	David	Bull	Head of FI Content Management
BVI	Other Industry	Felix	Ertl	VP, Legal
EFAMA	Other Industry	Vincent	Dessard	Senior Policy Advisor
FIX	Other Industry	Hubert	Kretschmer	FIX Global Technical Committee
Investment Association	Other Industry	David	Broadway	Investment Operations Lead
ISDA	Other Industry	Karel	Engelen	Senior Director
Independent Expert	Other Industry	Jim	Northey	ex officio as ISO TC 68 Chair Elect

DSB Sponsor:

Marc Honegger
DSB Board Member

TAC Chair:

David Broadway
Investment Association

Designated DSB Officer:

Sassan Danesh
DSB Management Team

Observers	Name	Position / Title
ESMA	Olga Petrenko	Senior Officer, Markets
FCA	Paul Everson	Senior Associate – Market Oversight
JSDA	Eiichiro Fukase	General Manager

Governance – Roles

TAC Sponsor (Marc Honegger)

DSB Board member, or a designee of the DSB Board, who will be responsible for ensuring that the advice and recommendations of the TAC are provided to the DSB Board.

TAC Chair (David Broadway)

Member of the TAC, appointed by the Sponsor, absent the objection of a majority of the DSB Board.

Designated DSB Officer (Sassan Danesh)

MSP employee, who will prepare and approve all meeting agendas; approve or call all TAC meetings; attend all TAC meetings; adjourn any meeting when the DDO determines adjournment to be in the public interest; chair meetings when directed to do so by the Sponsor or TAC Chair; and assist in the preparation and certification of meeting minutes.

Governance – Objectives and Scope of Activities

The TAC's objectives and scope of activities shall be to:

- conduct public meetings
- submit reports and recommendations to the DSB Board
- and to otherwise assist the DSB in identifying and understanding the impact and implications of technological innovation for the DSB and industry participants.

The TAC will provide advice on:

- the application and utilization of new and existing technologies used by the DSB
- the appropriate level of investment in technology to meet its responsibilities
- the need for strategies to implement services to support the DSB's responsibility to ensure the integrity of a critical market infrastructure for providing financial instrument identifiers

Governance – Description of Duties

The TAC may, by simple majority vote:

- call for reports and/or recommendations by the TAC
- adopt reports and/or recommendations
- transmit reports to the DSB Board
- make recommendations to the DSB Board.

Reports and/or recommendations shall:

- be developed in consultation with all members of the TAC
- include dissenting or minority views, if any.

The duties of the TAC shall be solely advisory. No determination of fact or policy shall be made by the TAC on behalf of the DSB. Determinations of actions to be taken and policy to be expressed with respect to the reports and/or recommendations of the TAC shall be made solely by the DSB Board.

Governance – Logistics

Estimated Number and Frequency of Meetings

Meetings of the TAC will occur normally two times per year, although for 2018 there may be a need for some additional meetings outside the normal cycle.

Duration

The TAC will continue until two years from the date of the first meeting, unless the DSB Board directs that the TAC terminate on an earlier date.

Recordkeeping

Records of the TAC will be published on the DSB's website. Minutes will be on an attributable basis in order to provide appropriate transparency.

Milestones

27 June – TAC meeting

28 June – Publication of DSB second consultation

27 July – Deadline for industry feedback on second consultation

09 August – Second TAC meeting

20 August – Publication of final report

30 September – Publication of finalised User Agreement

05 December – Finalised 2019 costs

Topics under Consideration - Overview

The DSB conducted a consultation on the 2019 User Agreement, and included technology related questions on:

- Functionality (6 questions)
- Service Levels (6 questions)
- Service Resiliency (2 questions)

16 responses available at <https://www.anna-dsb.com/2019-user-fee-and-user-agreement-consultations/>:

- 6 trading venues (Bloomberg, Nex, State Street, TP-ICAP, 2 x Anonymous)
- 5 sell-side investment firms (Bank of America, Citadel Securities, Standard Chartered, 2 x Anonymous)
- 3 trade associations (BVI, EVIA, ISDA)
- 1 buy-side investment firm (Anonymous)
- 1 vendor (Anonymous)

Topics under Consideration - Overview

The DSB has collated the industry responses for each question and proposed next steps for each question.

The purpose of this TAC meeting is to:

1. Validate the DSB's proposed next steps for each question
2. Provide insight into additional questions / factors the DSB should consider as part of the finalisation of the 2019 service offering

Topics under Consideration - Functionality

Question	Response Summary	Proposed Next Steps
6 - Search download formats	General consensus that no new formats are required	Do not proceed in communal cost-recovery ring-fence
7 – API integration options	General consensus that no new API format required	Do not proceed in communal cost-recovery ring-fence
8 – Product template change process	Mixed opinion on whether product template change process should enable more rapid deployment	Further consultation
9 – EoD On-demand file download	General consensus that no new service is required for file download	Do not proceed in communal cost-recovery ring-fence
10 – GUI search functionality	General consensus that easier GUI search functionality not required	Do not proceed in communal cost-recovery ring-fence
11 – ISIN creation analytics	Mixed opinion on whether ISIN metadata should be provided. General consensus that real-time not required.	Further consultation

Topics under Consideration - Functionality

Question	Response Summary
<p>Q6. Download formats</p> <p>The DSB currently provides for web-interface (GUI) users to download search results in JSON (machine readable) format.</p> <p>Should the DSB extend the types of download formats?</p> <p>Proposal: Do not proceed in communal cost-recovery ring-fence.</p>	<p>Yes=2 (1 x sell-side; 1 x vendor) No=8 (5 x TV; 2 x associations; 1 x sell-side)</p> <p><u>Comments Against</u></p> <ol style="list-style-type: none"> 1. DSB should provide a minimal service (2 x TV; 1 x association) 2. csv is less capable (1 x TV) 3. Additional formats add complexity (1 x TV) 4. Increased technical risk for little gain (1 x TV) 5. Not cost effective (1 x TV) <p><u>Comments in Favour</u></p> <ol style="list-style-type: none"> 1. csv is easier to parse (1 x vendor) 2. Easier for business analysts to manipulate the data (1 x sell-side)

Topics under Consideration - Functionality

Question	Response Summary
<p>Q7. Excel API</p> <p>The DSB provides REST and FIX APIs but has also received interest for Excel API integration.</p> <p>Do you think the DSB should provide Excel API integration as a third API option?</p> <p>Proposal: Do not proceed in communal cost-recovery ring-fence.</p>	<p>Yes=0 No=7 (4 x TV; 2 x association; 1 x sell-side)</p> <p><u>Comments Against</u></p> <ol style="list-style-type: none"> 1. DSB should provide a minimal service (1 x TV; 1 x association) 2. Excel no easier than other APIs for complex instruments (1 x TV) 3. Can be provided by 3rd parties as value-add service (1x association) 4. Less capable, less automated solutions should not be deployed (1 x TV)

Topics under Consideration - Functionality

Question	Response Summary
<p>Q8. Improvement to Product Template Change Process</p> <p>The DSB updates its product templates each time an enumeration list or value changes. E.g. when a new reference rate or currency is added. This results in a 2-4 week implementation cycle which requires industry to follow a similar process.</p> <p>Do you believe this approach needs to be altered?</p> <p>Next Step: Further consultation.</p>	<p>Yes=3 (1 x TV; 1 x association; 1 x sell-side) No=4 (2 x TV; 1 x association; 1 x vendor)</p> <p><u>Comments in Favour</u></p> <p>1. Process should be faster and less impactful (1 x association; 1 x TV; 1 x sell-side)</p> <p><u>Comments Against</u></p> <ol style="list-style-type: none"> 1. Communally funded work presents a governance distortion in a utility model (1 x TV; association) 2. Should wait for global UPI adoption (1x TV; 1 x association) 3. Industry needs a similar timeframe (1 x TV) 4. Current time-to-market is satisfactory (1 x vendor)

Topics under Consideration - Functionality

Question	Response Summary
<p>Q9. Consolidated, on-demand EoD File download</p> <p>The DSB provides end-of-day OTC-ISIN record files in JSON format and has received requests to also make available consolidated, on-demand data for any user-defined period.</p> <p>Should the DSB make available such a service?</p> <p>Proposal: Do not proceed in communal cost-recovery ring-fence.</p>	<p>Yes=2 (1 x sell-side; 1 x vendor) No=5 (4 x TV; 1 x association)</p> <p><u>Comments in Favour</u></p> <p>1. Would minimise the need to consume the full universe of instruments (1 x vendor).</p> <p><u>Comments Against</u></p> <ol style="list-style-type: none"> 1. Communally funded work presents a governance distortion in a utility model (1 x TV; association) 2. Not worth incurring additional costs for such functionality (2 x TV; 2 x associations; 1 x sell-side)

Topics under Consideration - Functionality

Question	Response Summary
<p>Q10. GUI Search Functionality</p> <p>The DSB GUI search functionality is targeted at technical users who understand the Lucene language.</p> <p>Should the DSB enhance its GUI to allow non-technical users to search for ISINs by any attribute across any product template</p> <p>Proposal: Do not proceed in communal cost-recovery ring-fence.</p>	<p>Yes=1 (1 x vendor) No=7 (4 x TV; 2 x associations; 1 x sell-side)</p> <p><u>Comments in Favour</u></p> <p>1. It will aid in audit and exception management processes (1 x vendor)</p> <p><u>Comments Against</u></p> <ol style="list-style-type: none"> 1. Communally funded work presents a governance distortion in a utility model (1 x TV; association) 2. Not sufficient value (1 x TV)

Topics under Consideration - Functionality

Question	Response Summary
<p>Q11. ISIN Analytics</p> <p>Some users have asked the DSB to provide analytics that would allow users to have real-time insight into ISIN creation trends within the DSB.</p> <p>Do you concur?</p> <p>Next Step: Further consultation.</p>	<p>Yes=4 (1 x TV; 1 x association; 1 x buy-side; 1 x sell-side) No=5 (3 x TV; 1 x association; 1 x sell-side)</p> <p><u>Comments in Favour</u></p> <ol style="list-style-type: none"> 1. Real-time is not required but downloadable format would be helpful (1 x association; 1 x sell-side) 2. Statistics per firm (1 x buy-side) 3. # submitted for reporting to FIRDS (1 x TV) 4. # of creates and searches per ISIN over time (1 x sell-side; 1 x TV) <p><u>Comments Against</u></p> <ol style="list-style-type: none"> 1. Communally funded work presents a governance distortion in a utility model (1 x TV; 1 x association) 2. Risk of information leakage, especially real-time analytics (1 x sell-side)

Topics under Consideration - Functionality

What further questions / factors related to functionality should the DSB consider as part of the finalisation of the 2019 service offering?

Question	Response Summary	Proposed Next Steps
8 – Product template change process	Mixed opinion on whether product template change process should enable more rapid deployment	Further consultation
11 – ISIN creation analytics	Mixed opinion on whether ISIN metadata should be provided. General consensus that real-time not required.	Further consultation

Topics under Consideration – Service Levels

Question	Response Summary	Proposed Next Steps
13 – Service level satisfaction	Mixed opinion on whether service levels should change Consensus that account managers are not required Mixed opinion on provision of phone support	Further consultation Not in cost-recovery ring-fence Further consultation
14 – Performance SLA	Mixed opinion on required latency SLA	Further consultation
17 – Availability hours	General consensus that weekly availability hours are ok General consensus that holidays should be covered	Further consultation Further consultation
18 – AUP throughput	Mixed opinion on review of AUP throughput caps	Further consultation
19 – AUP volumes	Mixed opinion on review of AUP volume caps	Further consultation
20 – Technical support availability	Mixed opinion on whether technical support should monitor system outside availability hours	Further consultation

Topics under Consideration – Service Levels

Question	Response Summary
<p>Q13. Service Level Satisfaction</p> <p>Are you satisfied with the DSB's current client service levels?</p> <p>Next Step: Further consultation.</p>	<p>Yes=4 (2 x sell-side; 1 x TV; 1 x vendor) No=3 (1 x TV; 1 x association; 1 x sell-side)</p> <p><u>Comments in Favour</u></p> <p>1. Current service levels are sufficient (1 x sell-side)</p> <p><u>Comments Against</u></p> <ol style="list-style-type: none"> 1. Response times are slow (1 x TV) 2. Lack of product-specific and technical expertise (2 x TV; 1 x association) 3. During onboarding, service was poor, but has improved since (1 x TV) 4. Product templates changes take too long (1 x sell-side)

Topics under Consideration – Service Levels

Question	Response Summary
<p>Q13b. Service Level Satisfaction</p> <p>Should the DSB provide named account managers for single point of contact for queries?</p> <p>Proposal: Do not proceed in communal cost-recovery ring-fence.</p>	<p>Yes=0 No=7 (4 x TV; 2 x associations; 1 x sell-side)</p> <p><u>Comments Against</u></p> <ol style="list-style-type: none"> 1. Not appropriate (1 x TV) 2. DSB should provide a minimal service (1 x TV; 1 x association) 3. Mitigate by implementing faster response times (1 x TV) <p><u>Other Comments</u></p> <ol style="list-style-type: none"> 1. Mitigate by offering street-wide or asset class specific Q&A fora (1 x sell-side) 2. Need named escalation point for account management (1 x sell-side; 1 x TV)

Topics under Consideration – Service Levels

Question	Response Summary
<p>Q13c. Service Level Satisfaction</p> <p>Should the DSB provide telephone support?</p> <p>Next Step: Further consultation.</p>	<p>Yes=3 (1 x TV; 2 x sell-side) No=4 (3 x TV; 1 x association)</p> <p><u>Comments in Favour</u></p> <ol style="list-style-type: none"> 1. Power users require timely responses (1x TV; 1 x sell-side) 2. The DSB is unusual in not having a support line (1 x sell-side) <p><u>Comments Against</u></p> <ol style="list-style-type: none"> 1. DSB should provide a minimal service (1 x TV; 1 x association) 2. Focus should be placed on reducing email response times (1 x TV) <p><u>Other Comments</u></p> <ol style="list-style-type: none"> 1. Review the support model of other industry wide providers (1 x sell-side) 2. Phone support as part of the escalation process (1 x association)

Topics under Consideration – Service Levels

Question	Response Summary
<p>Q14. Performance SLA</p> <p>The current DSB performance SLA is to process 99% of all messages across all workflows within 1,000ms.</p> <p>Should the 99% latency be changed to:</p> <ul style="list-style-type: none"> a) 500ms for ISIN Record retrieval b) 1,000 ms for ISIN Create Request c) 5,000 ms for ISIN Search <p>Next Step: Further consultation.</p>	<p>Yes=2 (1 x TV; 1 x sell-side) No=2 (2 x TV)</p> <p><u>Comments in Favour</u></p> <ol style="list-style-type: none"> 1. Latencies of use cases (a) and (b) should rival latencies that are industry standard for exchange infrastructure (1x TV) <p><u>Comments Against</u></p> <ol style="list-style-type: none"> 1. Latency SLAs are a secondary concern (2 x TV; 2 x association; 1 x sell-side) 2. Sub-second performance is not important (1x TV; 1 x association)

Topics under Consideration – Service Levels

Question	Response Summary
<p>Q17. Availability hours</p> <p>Is the current availability hours appropriate?</p> <p>Next Step: Further consultation.</p>	<p>Yes=6 (3 x TV; 2 x association; 1 x sell-side) No=2 (1 x TV; 1 x sell-side)</p> <p><u>Comments Against</u></p> <ol style="list-style-type: none"> 1. The service should be available whenever the OTC markets are open (1 x sell-side) 2. Prefer the minimum weekend downtime possible (1 x sell-side) 3. 24x7 with monthly downtime, instead of weekly (1 x TV) <p><u>Other Comments</u></p> <ol style="list-style-type: none"> 1. Proposed downtime: Sat 23:00 UTC to Sun 12:00 UTC (1 x sell-side) 2. Proposed downtime: Sat 20:00 UTC to Sun 08:00 UTC (1 x sell-side) 3. The DSB should plan for future 6.5/7 and 7/7 availability scenarios (1 x association) 4. The service should evolve beyond MIFID-2/RTS-23 reporting requirements (1 x sell-side)

Topics under Consideration – Service Levels

Question	Response Summary
<p>Q17. Holidays</p> <p>What should be the downtime period for holidays (if any)?</p> <p>Next Step: Further consultation.</p>	<p><u>Majority of Comments</u></p> <ol style="list-style-type: none"> 1. Holiday schedules vary across countries and markets, and while MiFID is EU based, all markets are impacted (1 x TV) 2. No downtime at holidays – e.g. Christmas is a working day in Turkey (1 x sell-side) 3. No holiday downtime for global FX markets (1 x TV) <p><u>Alternative Comment</u></p> <ol style="list-style-type: none"> 1. ECB Target 2 holidays only (1 x association)

Topics under Consideration – Service Levels

Question	Response Summary
<p>Q18. Acceptable Use Throughput</p> <p>Should current AUP throughput caps be reviewed?</p> <p>Next Step: Further consultation.</p>	<p>Yes= 4 (1 x sell-side; 2 x TV; 1 x vendor) No= 4 (3 x TV; 1 x association)</p> <p><u>Comments Against</u></p> <ol style="list-style-type: none"> 1. Business need for occasional large bursts of ISIN requests (1 x sell-side) 2. It is easier to control 1-2 REST connections than 10 (1 x vendor) 3. At least 1,000 REST calls per minute (1 x data vendor) <p><u>Other Comments</u></p> <ol style="list-style-type: none"> 1. Allow multiple ISINs to be requested via a single message (1 x TV) 2. Increase REST API throughput cap from 60 to 600 messages per minute (1 x TV) 3. Speed of response is important for trading platforms (1 x TV)

Topics under Consideration – Service Levels

Question	Response Summary
<p>Q19. Acceptable Use Volumes</p> <p>Should current AUP volume caps be reviewed?</p> <p>Next Step: Further consultation.</p>	<p>Yes=3 (1 x TV; 1 x sell-side; 1 x vendor) No=2 (2 x TV)</p> <p><u>Comments in Favour</u></p> <ol style="list-style-type: none"> 1. Caps do not factor in conditions that require increased loads (1 x sell-side) 2. Creation caps should be increased (1 x TV) <p><u>Other Comments</u></p> <ol style="list-style-type: none"> 1. It would be useful to have a better definition of invalid message (1 x TV) 2. Invalid messages should be for both DSB and User generation (1 x TV) 3. Provide alternative API or infrastructure to backfill already consumed data (1 x sell-side) 4. Increase search request cap to reduce caching of older data (1 x data vendor)

Topics under Consideration – Service Levels

Question	Response Summary
<p>Q20. Technical support availability</p> <p>Level of support for monitoring of system outside availability hours.</p> <p>Next Step: Further consultation.</p>	<p>Full support=2 (2 x sell-side) On-call support=3 (2 x TV; 1 x vendor) No change=3 (2 x TV; 1 x association)</p> <p><u>Comments</u></p> <ol style="list-style-type: none"> 1. Consult regulators as the regulators set the reporting timeframes (1 x association) 2. Require more information on the type of issues the DSB encounters at the start of the week and a better understanding of the work that happens during the downtime (maintenance, new releases, etc.)

Topics under Consideration – Service Levels

What further questions / factors related to service levels should the DSB consider as part of the finalisation of the 2019 service offering?

Question	Response Summary	Proposed Next Steps
13 – Service level satisfaction	Mixed opinion on whether service levels should change Mixed opinion on provision of phone support	Further consultation Further consultation
14 – Performance SLA	Mixed opinion on required latency SLA	Further consultation
17 – Availability hours	General consensus that weekly availability hours are ok General consensus that holidays should be covered	Further consultation Further consultation
18 – AUP throughput	Mixed opinion on review of AUP throughput caps	Further consultation
19 – AUP volumes	Mixed opinion on review of AUP volume caps	Further consultation
20 – Technical support availability	Mixed opinion on whether technical support should monitor system outside availability hours	Further consultation

Topics under Consideration – Service Resiliency

Question	Response Summary	Proposed Next Steps
22 - Multiple Primary Regions	Mixed opinion on whether to move to a primary / primary model	Further consultation
23 - Multiple Cloud Operators	General consensus that dual-cloud provisioning is not required	Do not proceed

Topics under Consideration – Service Resiliency

Question	Response Summary
<p>Q22. Multiple Primary Regions</p> <p>Is a move to an active / active DR model appropriate?</p> <p>Next Step: Further consultation.</p>	<p>Yes=4 (1 x TV; 2 x sell-side; 1 x association) No=4 (3 x TV; 1 x vendor)</p> <p><u>Comments in Favour</u></p> <ol style="list-style-type: none"> 1. Primary/Primary architecture preferred, with transparent fail over (1 x sell-side) 2. Prefer Primary/Primary, but lower priority vs other improvements(1x sell-side) <p><u>Comments Against</u></p> <ol style="list-style-type: none"> 1. Mitigation is to run DR tests more frequently, possibly quarterly (1 x TV) 2. It is sufficient to provide fail over in the same Availability Zone (1 x data vendor) <p><u>Other Comments</u></p> <ol style="list-style-type: none"> 1. Schedule a minimum of a full weeks run on the contingency service (1 x sell-side) 2. Recovery time should be aligned with that of TVs under MiFID II, two hours (1 x TV)

Topics under Consideration – Service Resiliency

Question	Response Summary
<p>Q23. Multiple Cloud Operators</p> <p>Do you believe the DSB should mitigate the risk of collapse of an entire cloud operator by moving to a dual-cloud deployment?</p> <p>Proposal: Do not proceed</p>	<p>Yes=1 (1 x sell-side) No=7 (4 x TV; 1 x association; 1 x vendor)</p> <p><u>Comments Against</u></p> <ol style="list-style-type: none"> 1. Additional cloud providers adds complexity and cost (1 x TV; 1 x vendor) 2. AWS is already the single provider for many large companies (1 x vendor) 3. In such a DR event, there would most likely be other system failures that would require a system-wide, and proportionate, market understanding (1 x TV; 1 x association) <p><u>Comments in Favour</u></p> <ol style="list-style-type: none"> 1. Approach mitigates the vast majority of the DR risks (1 x sell-side)

Topics under Consideration – Service Resiliency

What further questions / factors related to service resiliency should the DSB consider as part of the finalisation of the 2019 service offering?

Question	Response Summary	Proposed Next Steps
22 - Multiple Primary Regions	Mixed opinion on whether to move to a primary / primary model	Further consultation

Next Steps

27 June – TAC meeting

28 June – Publication of DSB second consultation

27 July – Deadline for industry feedback on second consultation

09 August – Second TAC meeting

20 August – Publication of final report

30 September – Publication of finalised User Agreement

05 December – Finalised 2019 costs

AOB

- DSB Operational Status: <https://www.anna-dsb.com/operational-status/>
- TAC information: <https://www.anna-dsb.com/technology-advisory-committee/>
- To receive updates on DSB service: email technical.support@anna-dsb.com