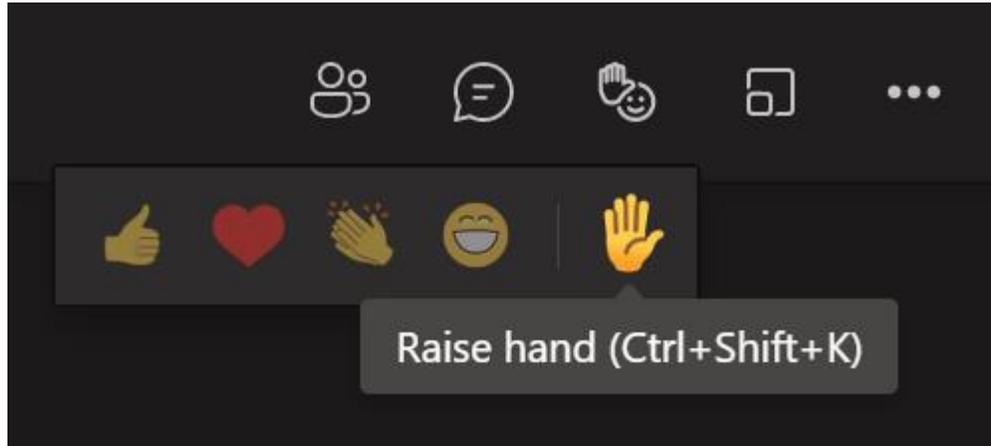


Issue 95 Digital Meeting Etiquette

- Welcome to Issue 95 Meeting 1 – we'll start shortly
- No video please to conserve bandwidth
- Please stay on mute unless you need to talk – use the **Raise hand** feature in the Menu bar in Microsoft Teams if you want to speak, or use the **Meeting chat**



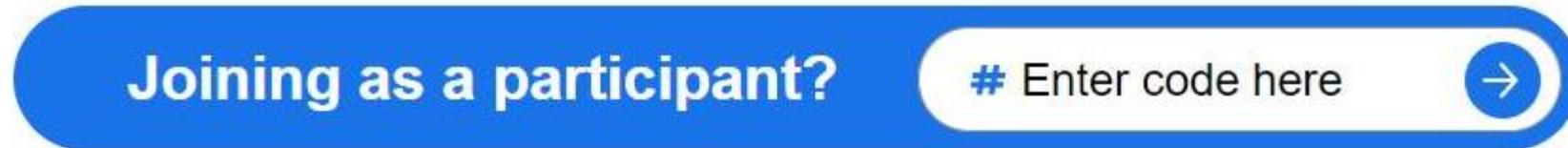
- Lots of us are working remotely – be mindful of background noise and connection speeds

Slido Guidance

- In order to ensure that all participants' voices are heard we are using Sli.do.
- Everyone should be able to provide views live during the presentation using Sli.do

Requirements:

- Internet access
- Web browser



ELEIXON

Issue 95 Workgroup 1

Assessing the continued use of TIBCO service as a source of data for market participants

16 February 2022

Meeting Agenda & Objectives

- Consideration of the background to Issue 95;
- Address the terms of reference; and
- Agree next steps.

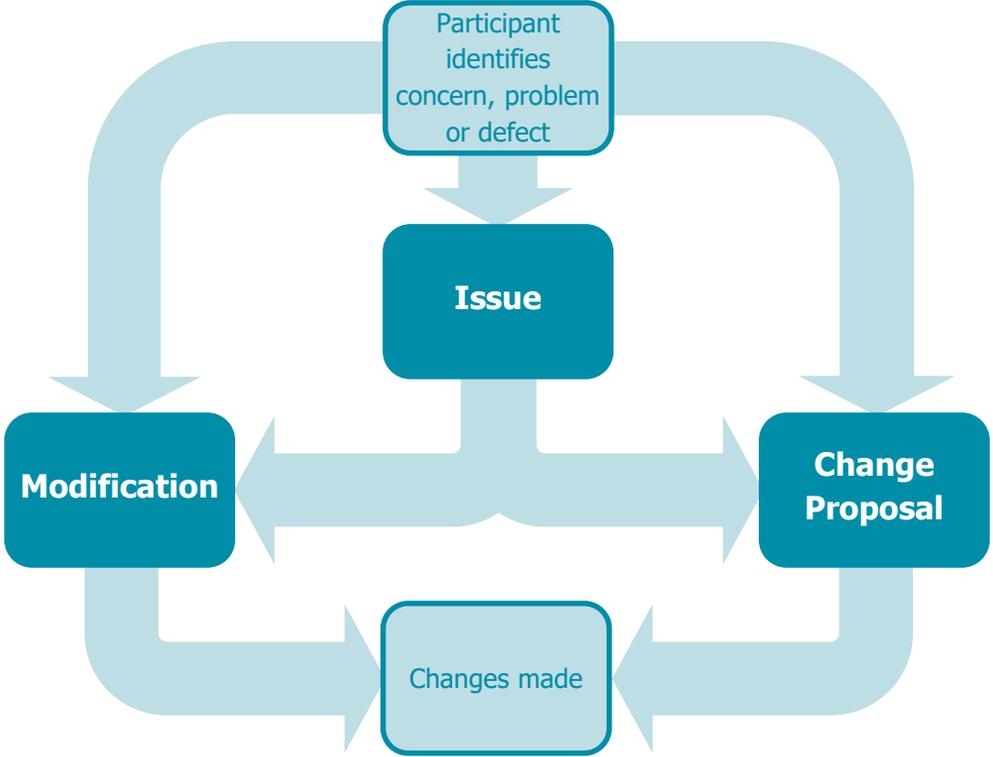
| Agenda Item | Lead |
|---|---|
| 1. Welcome and Meeting objectives | Elliott Harper (Chair) |
| 2. BSC Issue process | Ivar Macsween (Lead Analyst) |
| 3. Overview of TIBCO messaging service | Zaahir Ghanty & Mark De Souza Wilson (Elexon) |
| 4. Discussion around I95 terms of reference: <ul style="list-style-type: none">• How is TIBCO currently used by market participants and to what extent?• What would the implications of discontinuing TIBCO be?• What would the implications of continuing to use TIBCO be?• Are there merits in supporting a High Grade service in the future?• If deemed appropriate, what would be the best approach to phase out TIBCO service? | Workgroup |
| 5. Potential solutions | Workgroup |
| 9. Next steps | Ivar Macsween |
| 10. Meeting close | Elliott Harper |



BSC ISSUE PROCESS

BSC changes (1 of 2)

| | | Will my solution amend the BSC? | |
|-----------------------------|-----|---------------------------------|-------|
| | | Yes | No |
| Do I have a clear solution? | Yes | Modification | CP |
| | No | Issue | Issue |



BSC changes (2 of 2)

- **Modifications** – these are raised to introduce changes that would alter any part of the BSC legal text. Any Code Subsidiary Documents (CSDs) or BSC Systems impacted by the proposed changes would also be updated as part of the Modification. A Modification will typically take six to eight months to be progressed to a final decision, and will then take further time to be implemented, depending on the required lead times

<https://www.elexon.co.uk/change/modifications/>

- **Change Proposals (CPs)** – these are detailed proposals which are raised to amend Code Subsidiary Documents (CSDs) and/or BSC Systems, but would not alter the BSC legal text itself. A CP will typically take around three months to be progressed to a final decision, and will then take further time to be implemented, depending on the required lead times

<https://www.elexon.co.uk/change/change-proposals/>

- **Issues** – these are problems or potential issues with the current arrangements whereby the solution is unknown or undefined, so once raised will be discussed by an industry expert Issue Group to consider possible solutions

<https://www.elexon.co.uk/change/standing-modification-group-issues/>

BSC Issues – process

- There are no set timescales for Issues, so an Issue can take varying amounts of time to complete depending on the nature and complexity of the problem in question, after which a Modification and CP is required to take anything forward
- Raised if participant wants to discuss an issue or concern
- Issue Group convened to discuss the Issue
- Issue Group will consider any ways forward e.g. solution (any BSC Party can take forward the outcomes of an Issue e.g. BSC Modification/Change Proposal), extra guidance, no change
- Non-BSC Parties may raise a BSC Modification subject to designation from the BSC Panel
- We will prepare a final Issue report for the BSC Panel containing the recommendations of the Issue group



ISSUE 95



OVERVIEW OF TIBCO MESSAGING SERVICE

Background to Issue 95 and TIBCO

- TIBCO was the chosen technology to deliver Elexon Obligations wrt High Grade Service and provide participants with BMRS data
- Section V sets out the obligation: Each of the Authority and BSCCo shall be entitled without payment: (a) to have the BMRS (High Grade Service) made available to them (with such number of communication links as they may require);
- High Grade Service (Communications Requirements document paragraph 4.2.1)
 - *This provides access to all services and data through private network communication. For the BMRA service, the High Grade Service provides the capability for 24 hours a day, 7 days a week near real time information to be 'pushed' to the service users.*
 - *For the EWS, the High Grade Service provides the capability for 24 hours a day, 7 days a week, near real time notification data for Parties and Party Agents to view. Notification Agents may also create notifications from existing authorisations and submit them to ECVAA through the EWS.*
 - *The users can access this data either through browser screens (using Service Provider supplied applets to refresh the screens on receipt of updates), or through a defined programmatic interface (using TIBCO software) (BMRS data only).*
- TIBCO and High Grade Service are used interchangeably, a party wishing to use TIBCO must have a High Grade line.

Since inception, TIBCO implementation has not evolved greatly and provided data in

- Named/Value pair format
- Provide no automatic outage recovery for participants
- TIBCO Archive for participant to retrieve backlog
- XML publication hindered by bandwidth issues
- One approach to data publication rather than understanding the requirements for a report to be available via a push mechanism
- Limited publication message queues
- Expensive license for BSC Parties
- Central support costs – OS compatibility issues

Alternative Push Mechanisms

To address those, Elexon implemented a NRT Data Push Service in 2015

- Better outage recovery – automatic recovery of backlog
- Better package data in XML
- Open source license AMQ
- Very flexible & supports various protocols

But it isn't perfect

- No data archive source
- Content based on TIBCO but varies from APIs (Industry legacy issue)
- Instances of stability issues
- Basic filtering of message queues

Circ.150 DPS subscribers as compared to TIBCO subscribers (30)

Next Generation DPS

Elexon is rebuilding the replacement for BMRS and currently migrating existing report onto the new platform.

In the third iteration (June 2022 onwards) Elexon will begin implementation of the next generation DPS solution

- Improve Stability
- Introduce Archive data
- Functionality like message queues/topics
- Minimise impact to existing users

TIBCO is not currently planned on the roadmap and Elexon want to understand Industry's appetite to continue/phase out TIBCO

1. Remove obligations in the BSC
2. Provide a reliable alternative service for users to transition to
3. Transition plan to be discussed as part of BSC Mod Solution



ISSUE GROUP DISCUSSIONS

- We suggest that the following questions form a ‘terms of reference’ for the Issue Group to aid the flow of discussion.
 1. How is TIBCO currently used by market participants and to what extent?
 2. What would the implications of discontinuing TIBCO be? Does data provided by alternative TIBCO sources meet your requirements?
 3. What would the implications of continuing to use TIBCO be? Are there any associated opportunity costs to its continued support?
 4. Are there merits in supporting a High Grade service in the future?
 5. If deemed appropriate, what would be the best approach to phase out TIBCO service?



HOW IS TIBCO CURRENTLY USED BY MARKET PARTICIPANTS?

How is TIBCO currently used by market participants and to what extent?

- Term of reference 1 - How is TIBCO currently used by market participants and to what extent?
 - What requirements does TIBCO satisfy for industry?

To submit your views please visit www.sli.do and enter **755405** to join the session

You'll be asked to provide a response in an open text question which can be submitted anonymously. You can answer multiple times.

Joining as a participant?

755405



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How is TIBCO currently used by market participants and to what extent? What requirements does TIBCO satisfy for industry?

① Start presenting to display the poll results on this slide.

What would the implications of discontinuing TIBCO be?

- Term of reference 2 - What would the implications of discontinuing TIBCO be?
 - Focus on impacts caused by discontinuing.
 - Does data provided by alternative TIBCO sources meet your requirements?

To submit your views please visit www.sli.do and enter **755405** to join the session

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Joining as a participant?

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**What would the implications of discontinuing TIBCO be?
Does data provided by alternative TIBCO sources meet
your requirements?**

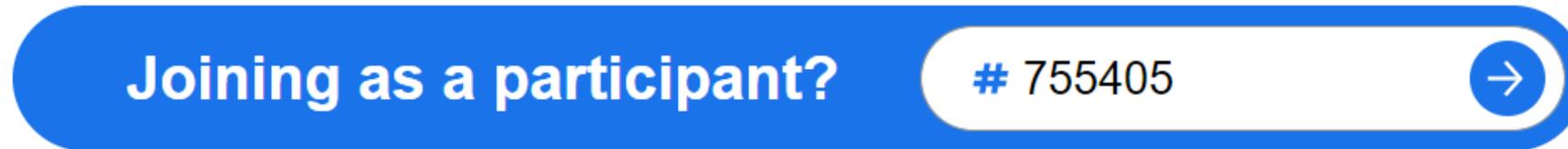
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What would the implications of continuing to use TIBCO be?

- Term of reference 3 - What would the implications of continuing to use TIBCO be?
 - Are there any associated opportunity costs to its continued support?

To submit your views please visit www.sli.do and enter **755405** to join the session

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What would the implications of continuing to use TIBCO be?
Are there any associated opportunity costs to its continued support?

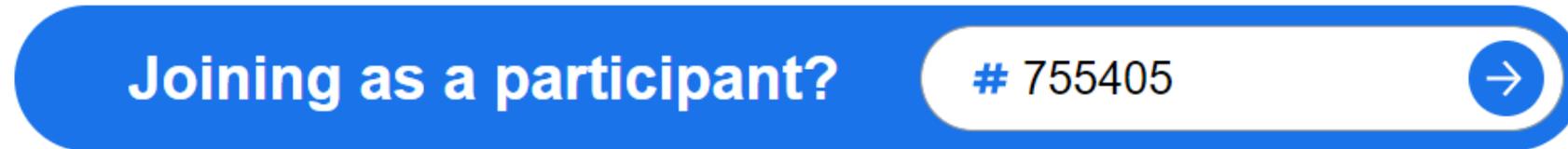
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Are there merits in supporting a High Grade service in the future?

- Term of reference 4 - Are there merits in supporting a High Grade service in the future?

To submit your views please visit www.sli.do and enter **755405** to join the session

You'll be asked to provide a response in an open text question which can be submitted anonymously. You can answer multiple times.



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Are there merits in supporting a High Grade service in the future?

① Start presenting to display the poll results on this slide.

If deemed appropriate, what would be the best approach to phase out TIBCO service?

- Term of reference 5 - If deemed appropriate, what would be the best approach to phase out TIBCO service?

To submit your views please visit www.sli.do and enter **755405** to join the session

You'll be asked to provide a response in an open text question which can be submitted anonymously. You can answer multiple times.

Joining as a participant?

755405



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What would be the best approach to phase out TIBCO service?

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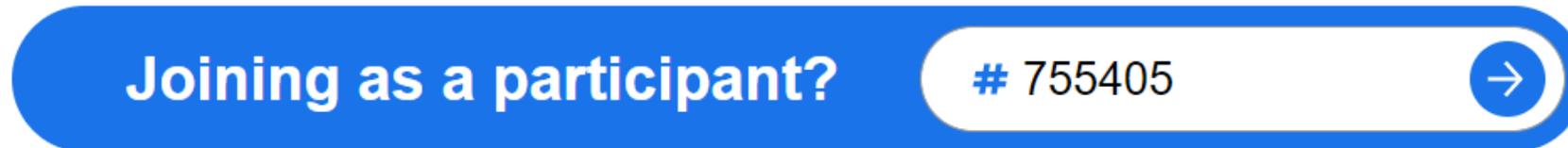
POTENTIAL SOLUTIONS TO ISSUE 95

Potential solutions to Issue 95

- One solution the Workgroup may consider is to decommission the TIBCO messaging service, on a phased approach over a timescale agreeable by High Grade users, whilst separately assessing whether the TIBCO Relay Service should be discontinued.
 - Another outcome could be, if deemed to be of value to continue TIBCO, to incorporate this service within future BMRS architecture.
- The outcome of this Issue Group would be to identify the area of the BSC that needs to be changed so that Elexon can provide greater flexibility on future technologies to be ported to future data platform.

To submit your views please visit www.sli.do and enter **755405** to join the session

You'll be asked to provide a response in an open text question which can be submitted anonymously. You can answer multiple times.



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Do you have any comments on potential solutions to Issue 95?

① Start presenting to display the poll results on this slide.

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**Do you have any further comments
on any aspect of Issue 95?**



NEXT STEPS

ELEXON

THANK YOU

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2022