

### 4.3 CP Form

<b>Change Proposal – BSCP40/02</b>	<b>CP No: CP1482</b> <i>Version No: 1.0</i> <i>(mandatory by BSCCo)</i>
<b>Title</b> (mandatory by originator) Upgrade of NHHDA and EAC/AA systems from Oracle 11g to version 12c	
<b>Description of Problem/Issue</b> (mandatory by originator) The current versions of NHHDA and EAC/AA applications that ELEXON provides to Party Agents run on Oracle 11g, for which Oracle Corporation will withdraw application support in 2018. Party Agents have requested a 12 month lead time to be able to implement the upgrade, with early notification allowing them	
<b>Proposed Solution</b> (mandatory by originator) Upgrade EAC/AA and NHHDA to the latest available version of Oracle 12c. Where possible, leverage cost savings by aligning with ELEXON's planned update to BSC central systems.	
<b>Justification for Change</b> (mandatory by originator) As the current version of Oracle is not expected to be supported beyond 2018, if problems were then encountered with the database products, they could not be resolved without recourse to an upgrade, which in turn could not be completed within a reasonable timeframe. Any proposed workaround may not resolve the issue and the only solution would be a full Oracle upgrade.  While there is a low probability of this risk occurring, it could have a significant impact on Settlement. After consultation with the Software Technical Advisory Group (STAG), we feel it is important to begin the upgrade now to give Party Agents sufficient time to implement.  Upgrading the NHHDA and EAC/AA systems to run on Oracle 12c would ensure compatibility with the latest fully supported Oracle release. As a consequence, the upgrade would have a number of material benefits for both the developer and users of this software:  1) Maintain full vendor support service for both developer and users of the applications; 2) Minimise risk of being unable to take advantage of any defect fixes and other enhancements made available by the vendor; 3) Minimise reliance on reduced vendor support service for both developer and users; and 4) Minimise cost of vendor support for both developer and users.  The upgraded version of the NHHDA and EAC/AA systems will maintain compatibility with the latest fully supported Oracle Forms release for both server and client components.	

<p><b>To which section of the Code does the CP relate, and does the CP facilitate the current provisions of the Code?</b> (mandatory by originator)</p>
<p><b>Estimated Implementation Costs</b> (mandatory by BSCCo)</p> <p>The implementation costs for CP1482 will be approximately £125,000. This is the sum of service provider costs and ELEXON operational costs.</p>
<p><b>Configurable Items Affected by Proposed Solution(s)</b> (mandatory by originator)</p> <p>EAC/AA and NHHDA Software and supporting Software Documents.</p>
<p><b>Impact on Core Industry Documents or System Operator-Transmission Owner Code</b> (mandatory by originator)</p> <p>No identified impact</p>
<p><b>Related Changes and/or Projects</b> (mandatory by BSCCo)</p> <p>Upgrade of BSC Central Systems to Oracle 12c (internal change, no enabling CP required)</p>
<p><b>Requested Implementation Date</b> (mandatory by originator)</p> <p>Delivery proposed for the February 2018 BSC Systems Release. Party Agents will then have up to six months to go live with the software. This means that Party Agents should have completed testing and have the software live by 29 June 2018 (the June 2018 Release date).</p> <p><b>Reason:</b></p> <p>The targeted release date will ensure uninterrupted support by giving Party Agents sufficient time to implement by mid-2018, while allowing ELEXON to combine part of its Party Agent environment upgrade with the upgrade to BSC Central Systems during H2 2017. It will also minimise the period during which ELEXON will have to support two versions of the software.</p>
<p><b>Version History</b> (mandatory by BSCCo)</p>
<p><b>Originator's Details:</b></p> <p><b>BCA Name:</b> <i>Nanu Miah</i> .....</p> <p><b>Organisation:</b> <i>ELEXON Ltd.</i> .....</p> <p><b>Email Address:</b> <a href="mailto:nanu.miah@elexon.co.uk">nanu.miah@elexon.co.uk</a> .....</p> <p><b>Telephone Number:</b> <i>020 7380 4350</i> .....</p> <p><b>Date:</b> <i>3 November 2016</i>.....</p>

Attachments: N (If Yes, No. of Pages attached: .....)

*(delete as appropriate)*

### Appendix 1: Summary table for all software components impacted by this CP

#	Technology	Type	Baseline Version	Target Version	Pre-requisites
1	Oracle Database (RDBMS)	Database Server	11g R2 (11.2.x)	v12.1.x	Oracle Solaris v11
2	Oracle Fusion Middleware Forms and Reports	Middleware	11.1.1.6.x or 11.1.2.x	v12.2.1.1.0	Oracle JDK v8
3	Oracle Fusion Middleware: Web logic Server	Middleware	11.1.1.6.x or 11.1.2.x	v12.2.1.1.0	Oracle JDK v8
4	Oracle Java Development Kit (JDK)	Development environment	v7	v8	-
5	Microsoft Windows Server	Operating System	2012	2012 R2	-
6	Oracle Solaris	Operating System	v10 (5.10)	v11 (5.11)	-

The vendor support policies and dates cited above are based on this Oracle Support document: <http://www.oracle.com/us/support/library/lifetime-support-middleware-069163.pdf>