

**Electricity Balancing System IT Subgroup (EBSIT) Action List****Live/New Actions**

Action No.	Due Date	Issue	Responsibility	Action
006	Dec 2015	Dec 2011	AdC	<p>Develop a communications strategy for transition and cutover e.g. use of helpdesks etc. if a power station has a problem with EBS EDL. <b>Ongoing</b></p> <p>Mar 2014 - Now targeted for January 2015 as per latest plan</p> <p>Mar 2015 – Now target date is June 2015 as part of the consultation document for transition</p> <p>Jun 2015 – Communications requirement is part of the consultation to the industry and will get discussed in September meeting</p> <p>Sep 2015 – Draft Communications Plan discussed during EBS IT meeting. Final Communication Plan will be published in December.</p>
044	Jan 2016	Dec 2012	BC	<p>To provide an EDT FTP script for market participants to run to validate their access to EBS production.</p> <p>Mar 2014 – options discussed at March 2013 meeting.</p> <p>July 2014 - Target date moved to January 2015 as to align with the new plan.</p> <p>March 2015 – Target date is June 2015 for the release of consultation document for transition. This is linked to action 006 above.</p> <p>June 2015 – This script will be available in January 2016.</p> <p>Sep 2015 - <b>Ongoing</b></p>

056	Dec 2015	Mar 2013	BC	<p>In the arrangements for EDT cutover, include a section detailing the roll-back arrangements. <b>Ongoing</b></p> <p>Mar 2014 - Target date revised to September 2014 to align with the new plan. Action now incorporates Action 049 which has now been closed. (Don't plan any cutover activities on Fridays)</p> <p>March 2015 – Target date is June 2015 for the release of consultation document for transition</p> <p>June 2015 – Target date is December 2015 when the Transition Plan is issued post market consultation</p>
061	Jan 2016	Sept 2013	AO	<p>Ascertain when suppliers will be able to access the test versions of EDL*/EDT* via their private communications. <b>Ongoing</b></p> <p>Mar 2014 – awaiting availability of EDL*/EDT* server software.</p> <p>July 2014- New Interfaces will be available in Q4. However, National Grid will be testing these before being released to the Market Participants. Target date anticipated early 2015</p> <p>March 2015 – Target date is January 2016 in line with revised project plan</p> <p>June 2015 – Work in progress</p> <p>Sep 2015 – VPN access is in place however National Grid will perform an end to end test sometime in January 2016</p>
068	Dec 2015	Jun 2015	SK	<p>EBS is capable of sending multiple instructions at the same time with the same log time for one power station. The receiving end has to be capable of accepting such multiple instructions. Informal tests will be scheduled with volunteers to verify this extent. <b>Ongoing</b></p> <p>Sep 2015 – Successfully tested with 2 suppliers and remaining to be scheduled in next quarter.</p>
069	Dec 2015	Jun 2015	BC	<p>Agree on EDT access validation period as part of the Transition Plan. <b>Ongoing</b></p>

## Closed Actions

Action No.	Due Date	Issue	Responsibility	Action
001	Feb 2012	Dec 2011	AO	To investigate the implications of VMS operating system specifics, including commands and password rules, on the EBS version of EDT. <b>Closed</b> – Action 036 details areas that need following up with specific system suppliers
002	Aug 2012	Dec 2011	SR	To update the BPITs test scripts for EBS including specifics relating to pumped storage units. <b>Closed</b> – new scripts will be circulated for December meeting
003	June 2012	Dec 2011	AO	To consider the options for computer-to-computer EDT* data exchanges over the internet and discuss this with National Grid IS Security. <b>Closed</b> – National Grid will allow computer-to-computer EDT* data exchanges over the internet without requiring the use of a hard token, but access to EBS will be require the use of VPN.
004	Sept 2012	Dec 2011	AO	To determine whether EDT* will still have sequence numbers? <b>Closed</b> – it won't have sequence numbers
005	Feb 2012	Dec 2011	SR	Can National Grid provide a simulator for the new industry interfaces, which would perform a similar role to the various supplier-developed National Grid-server-simulators for the existing interfaces that are used for general testing? <b>Closed</b> – the intention is to offer suppliers access to a real EBS over the internet, rather than to attempt to create a simulator.
007	Feb 2012	Dec 2011	AO	To determine when a generic ABB client interface toolkit can be made available, as software suppliers would like early visibility of the style of the new EDT* & EDL* interfaces, without having to wait for the EBS-specific client Interface development toolkit. <b>Closed</b> – should be around August 2012.
008	Feb 2012	Dec 2011	AO	To provide an indicative date when details of EDT* acceptance/acknowledgement and time-stamping arrangements will be made available. <b>Closed</b> – should be around August 2012.

009	Feb 2012	Dec 2011	RP	<p>National Grid to consider a mechanism to allow EBS questions to be asked and answers to be made available via the internet.</p> <p><b>Closed</b> - we intend providing an online Frequency Asked Questions which will be updated as and when we receive new questions.</p>
010	Feb 2012	Dec 2011	RP	<p>National Grid to determine where all the relevant EBS documents would be made available via the internet.</p> <p><b>Closed</b> – we will use <a href="http://www.nationalgrid.com/uk/Electricity/Balancing/EBS">http://www.nationalgrid.com/uk/Electricity/Balancing/EBS</a> as the single web page for all EBS information. If documents reside elsewhere e.g. Grid Code Working Group minutes on the Grid Code part of the site, then there will be links to these other documents/pages from this web page.</p>
011	Feb 2012	Dec 2011	AO	<p>To investigate what support EBS will have for IPv6 and HTML5.</p> <p><b>Closed</b> - There are currently no plans to transform National Grid's network to IPv6. However the hardware infrastructure being deployed for EBS is capable of running a dual stack (IPv4 and IPv6) and National Grid is also able to tunnel IPv6 over IPv4 (or vice versa) should the need arise. HTML5 is supported by IE9. EBS displays will be certified against IE9, so EBS will be HTML5 compliant. ABB are still investigating the new features of HTML5 and will let National Grid know if they utilise any of these new features on EBS.</p>
012	Feb 2012	Dec 2011	RP	<p>Include an objective in the ToR regarding industry input in the replacement industry interfaces.</p> <p><b>Closed</b> - ToR updated and sent out with draft minutes.</p>

013	July 2015	Mar 2012	AO/SK	<p>Progress providing suppliers with access to the EBS EDL* &amp; EDT* test services over the internet.</p> <p>Mar 2014 – Having ascertained which suppliers want a vpn connection to the EDL* &amp; EDT* test services, we will shortly be circulating technical questionnaires to them in order to obtain the required information to configure the vpns. With regard to timescales, this will be done in two stages, however, as yet there are no test systems available.</p> <p>July 2014– Completed questionnaires from 2 suppliers received and 2 are in progress.</p> <p>Mar 2015 – Completed questionnaire directed to National Grid vendor to complete the setting up the VPN tunnel for one supplier.</p> <p>June 2015 – Setup in progress</p> <p>Sep 2015 – VPN tunnel setup with 3 suppliers and end to end tests will be performed once National Grid will have outer proxy in place. <b>Closed</b></p>
014	June 2014	Mar 2012	AO	<p>Provide generic ABB client interface toolkit to software suppliers plus provide details of EDT* acceptance/acknowledgement and time stamping arrangements. <b>Ongoing</b> - EDT* toolkit sent out to all suppliers and those market participants who requested it in October. There are some outstanding queries relating to the EDL* toolkit – once these have been resolved then the toolkit will be circulated – this is expected to be in January 2014.</p> <p>EDL* Toolkit was circulated in June 2014 - <b>Closed</b></p>
015	Sept 2012	Mar 2012	AO	<p>Provide a list of web browser software that is compatible with EBS.</p> <p><b>Closed</b> – IE8 and IE9 will be supported. Chrome and Firefox are yet to be tested and the frequent releases of these browsers will make it difficult to maintain support. However we are generally optimistic that the EBS external web-pages will work with most browsers given that they only use HTML and JavaScript.</p>
016	June 2012	Mar 2012	AO	<p>Create and distribute a questionnaire to market participants and software suppliers regarding the use of VMS-specific commands, timescales to update network security settings and the use of DNS. <b>Closed</b></p>
017	June 2012	Mar 2012	SR	<p>To look into the possibility of an Elexon test environment to allow data flows from participant to EBS to Elexon to participant. <b>Closed</b> – National Grid and Elexon are planning to do this for the new EDT* and EDL* industry interfaces.</p>

018	June 2012	Mar 2012	AO/RP	To investigate the timescales for Elexon changes to support EDT*. <b>Closed</b> – a plan has been worked-up – see agenda item.
019	May 2012	Mar 2012	SR	To look into the level of EDL and EDT testing required and to come back one month prior to the next meeting with proposals. <b>Closed</b> – addressed by an agenda item at the June 2012 meeting.
020	June 2012	Mar 2012	SR/PS	To produce a joint timeline of when activity would be required from participants and suppliers in respect of type testing, BPITS, connectivity testing and transition. <b>Closed</b> – agenda item 5 from the June 2012 meeting covers National Grid's proposals for EDL and EDT testing, and National Grid provided a high-level timeline as part of the slides that supported this item.
021	Sept 2012	Mar 2012	PS	To look into the availability of MPLS for EDL/EDT. <b>Closed</b> – there is one EDT site already, another is in progress. EDL leased lines are provided by National Grid.
022	Sept 2012	Mar 2012	AO	Issue a technical guidance note for FTP/DNS connectivity including the use of DNS. <b>Closed</b> – Version 2.0 of the Market Participant Access document was issued in July which now includes information on the use of DNS.
023	June 2012	Mar 2012	PS	Make available the latest version of the CTC Message Client on <a href="http://www.nationalgrid.com/uk/Electricity/Balancing/EDL/">http://www.nationalgrid.com/uk/Electricity/Balancing/EDL/</a> <b>Closed</b>
024	June 2012	Mar 2012	JO	To look into getting the bulletin into the Elexon Bulletin / Newscast <b>Closed</b>
025	July 2012	June 2012	Market participants & Suppliers	Complete questionnaire as applicable re. VMS-specific commands, timescales to update network security settings and the use of DNS. Once complete, e-mail it to <a href="mailto:ebs.it@nationalgrid.com">ebs.it@nationalgrid.com</a> <b>Closed</b> – no further responses have been received
026	Mar 2015	June 2012	AO	Provide a draft for comment of a guidance document for market participants/suppliers regarding the use of MPLS to send EDT files to National Grid. Guidance document to be finalised following comments from market participants/suppliers. <b>Closed</b> Mar 2014 – draft circulated for comment as per the action – next step is to take it through the Grid Code process for changes to the Electrical Standards. Support is now available re MPLS and guidance documentation to be finalised once confirmation is received from the Network Suppliers as to when the document will be approved. July 2014– No date available for approval of this document but required ASAP Mar 2015 – Document circulated and approved.
027	July 2012	June 2012	Suppliers	Indicate to National Grid if they would be interested in being involved in the testing of the interim release of EDL and EDT. <b>Closed</b>
028	Aug 2012	June 2012	SR	Document, and distribute to attendees, National Grid's EDL and EDT testing proposals including their rationale, the failover of EDL servers within an environment and the EDT remote password change facility. <b>Closed</b>
029	Sept 2012	June 2012	AO	Check that ABB are considering the effects on the CTC Message Client/EDL Client of the rapid failover to the other EDL server within an EBS environment. <b>Closed</b> – they are considering this. <sup>6</sup>

030	Aug 2012	June 2012	PS	Document, and distribute to attendees, National Grid's transition proposals including the rationale for them. <b>Closed</b>
031	Sept 2012	June 2012	RP	Investigate the provision of better remote access facilities for subsequent meetings, including the use of MS Live Meeting or similar. <b>Closed</b> – MS Live Meeting appointments will be sent out
032	Dec 2012	July 2012	AO	To notify Market Participants of the new EBS IP addresses and address ranges (from bilateral teleconference requested by RWE and recorded here because of general applicability). <b>Closed</b> – complete
033	Sept 2012	July 2012	AO	To reconfirm that there is no DNS caching at the NG end of the leased line circuits (from bilateral teleconference requested by RWE and recorded here because of general applicability). <b>Closed</b> – National Grid can confirm that there is no DNS caching at our end of the leased line circuits
034	TBD	July 2012	National Grid	Raised by EdF at the main (business) EBS Working Group – To propose a roadmap for EDL connectivity in terms of technology and communications topology. <b>Closed</b> – the roadmap was discussed at the main (business) EBS meeting and received a mixed response. Propose closing this action, in favour of action 026 to provide guidance on the use of MPLS for EDL & EDT.
035	Oct 2012	Sept 2012	SR	To revise the EBS EDT & EDL Test Approach document and to circulate the new draft. <b>Closed</b> – a new draft was circulated in October
036	Dec 2012	Sept 2012	AO	To confirm that : 1. EBS EDT will continue to use the existing VMS directory structure 2. That it will not populate the VMS file version number in the response files <b>Closed</b> – as testing will determine the nature and extent of any issues
037	Dec 2012	Sept 2012	PS	Produce a draft transition summary document and circulate it to attendees for comment prior to the next meeting. <b>Closed</b> – draft produced and circulated with agenda
038	Dec 2012	Sept 2012	AO	To investigate whether it would be appropriate to provide market participants with training on the EDT* web-pages. <b>Closed</b> – National Grid proposes providing user guides to assist market participants with using the EDT* web-pages

039	Dec 2012	Sept 2012	RP	Present the telecommunications roadmap to the next EBSG (business) meeting (13 <sup>th</sup> Dec). <b>Closed</b> – complete
040	Mar 2013	Dec 2012	AO	Send a copy of the EDT* tool-kit to Mahesh Chauhan of E.ON. Also arrange for the EDT* tool-kit to be uploaded to the EBS IT web-page <b>Closed</b> – complete
041	Mar 2013	Dec 2012	SR	To check what, if anything, suppliers need to do in terms of firewall changes etc. at their end in order to access the EBS test systems. <b>Closed</b> – complete – covered in bilateral discussions
042	Dec 2012	Dec 2012	SR/RP	To publish a new version of the Testing & Transition plan on the EBS IT web-page every fortnight. <b>Closed</b> – complete
043	Mar 2013	Dec 2012	PS	To draft out proposals for EDL & EDT access validation by the next meeting. <b>Closed</b> – agenda item presents proposals
045	Jan 2013	Dec 2012	Market Participants & Suppliers	Provide National Grid with any comments they may have on the External Testing and Transition Overview document by the end of January. <b>Closed</b> – first issue uploaded to EBS IT web-page
046	Mar 2013	Dec 2012	SR	To update the EDT type test scripts to cover the impact of the absence of VMS version numbers. <b>Closed</b> – scripts updated.
047	April 2013	Dec 2012	AR-C	For comparison purposes, provide indicative costs for the provision of MPLS and Leased Lines. <b>Closed</b> – slide included in June '13 slide pack.
048	Jan 2013	Dec 2012	RP	To circulate the slides from the meeting with the minutes. <b>Closed</b> – complete.
049	Sept 2014	Mar 2013	PS	In the EDT cutover plan, don't plan any cutover activity on Fridays. <b>Ongoing</b> – target date revised to September 2014 to align with the new plan. Action now incorporated into Action 056. <b>Closed</b>



050	June 2013	Mar 2013	Market Participants	E-mail <a href="mailto:integration.testing@nationalgrid.com">integration.testing@nationalgrid.com</a> if they are interested in taking part in the Optional EDT/EDL Testing. Prerequisites are EDT/EDL client test systems and appropriate telecommunications to connect them to National Grid's EBS test systems. <b>Closed</b> – have had around four market participants express interest.
051	Sept 2013	Mar 2013	SR	Circulate the draft circuit connectivity test scripts. <b>Closed</b> – circuit connectivity test scripts circulated.
052	June 2013	Mar 2013	SR	Include in the EDT type test the duplicate file name submission and acknowledgement scenario. <b>Closed</b> – script updated.
053	June 2013	Mar 2013	SR	Add EDL access validation to the EDL type test. <b>Closed</b> – script updated.
054	June 2013	Mar 2013	SR	Rename “Optional EDT Testing with Trading Points” to be “Optional Testing with Market Participants” or similar. <b>Closed</b> – renamed.
055	June 2013	Mar 2013	PS	To propose when market participants' BM EDT accounts should be disabled after the cutover to EBS. <b>Closed</b> – we will disable BM EDT accounts once market participants are happy that their EBS EDT is working.
057	June 2013	Mar 2013	RP	Load the slides presented at this meeting onto the EBS IT web-site. <b>Closed</b> – slides uploaded.
058	June 2013	Mar 2013	RP	Work up a plan for the activities associated with EDL* and EDT*. <b>Closed</b> – an agenda item for June '13 meeting refers.
059	July 2013	June 2013	SK	Inform EdF of which of their Control Points have a main EDL comms route that terminates at the National Grid site where the proxy has been installed. <b>Closed</b> – EdF informed.
060	Aug 2013	June 2013	RP	Consider the agenda for the September 2013 meeting and come to a view as to whether this meeting should be a physical meeting or a Live Meeting only. <b>Closed</b>

062	Oct 2013	Sept 2013	RP	E-mail all invitees when the proxy at the second National Grid site is available for use. <b>Closed</b> – e-mail sent to all invites stating that both proxies are available
063	June 2015	Dec 2013	SK	When contacting market participants regarding circuit connectivity tests, determine which participants intend using DNS when submitting EDT files to EBS. Mar 2014 – As and when Sarvesh contacts market participants for circuit connectivity testing. July 2014 – Confirmation from 1 supplier for using DNS Mar 2015 – Sarvesh to discuss with each participant if they intend to use the DNS for connecting to National Grid. This can be confirmed during the EDT circuit connectivity test scheduled in April 2015. <b>Closed-Tested during EDT Circuit Connectivity tests with Market Participants.</b>
064	June 2014	Mar 2014	AO	Report back to the meeting on the timescales in which National Grid will be replacing the BT KiloStream circuits used for EDL with MPLS. <b>Closed</b> – Replacement to commence August 2015
065	Dec 2014	July 2014	AO	Second version of the toolkits should include the message definitions to be circulated to suppliers Mar 2015 – The message definitions are included in the first version. Action Closed.
066	June 2015	July 2014	AdC	Ensure that Industry Newsletters accompany the Pre-meeting documentation in future. <b>Ongoing</b> Mar 2015 – Newsletter sent out prior to the meeting. Suggestions to keep it open for the following meeting. <b>Closed</b>
067	Mar 2015	Mar 2015	SK	Re-circulate the EBS Market Participant Access document to Market Participants <b>Closed</b>
070	Mar 2015	July 2014	SR	Distribute the test cases to be incorporated into the Non-Functional Type Test for EDT and EDL <b>Closed</b> March 2015 - Target date is March 2015 June 2016 - Scripts circulated in June 2016
071	July 2015	Jun 2015	JS and EB	Provide examples of instances where BOA instructions might be open to interpretations Sep 2015 – Answered by National Grid satisfactorily and action is <b>Closed.</b>