SVG229/05 - APPROVAL OF KI. CENTRAL MANAGEMENT SYSTEM

MEETING NAME	Supplier Volume Allocation Group

Date of meeting	3 March 2020
Paper number	SVG229/05
Owner/author	Adam Jessop
Purpose of paper	Decision
Classification	Public
Summary	The Unmetered Supplies User Group (UMSUG) recommends that the SVG approve the Ki. Central Management System (CMS) for use in Settlement.

1.   What CMS have we tested and why?

1.1   CMS are the systems used by customers with Unmetered Supplies (UMS) to control street lights remotely.

1.2   Lucy Zodion have developed a CMS, branded Ki. The Ki. platform is a web application that provides CMS control nodes on luminaires with dimming and switch on/off profiles for an entire year. Nodes communicate their switch on/off times via a daily billing uplink. If the CMS doesn't receive a billing uplink from a node, it will use one from a nearby node.

1.3   This paper provides an overview of ELEXON's witness testing of the Ki. CMS and the UMSUG's recommendation based on the test results.

2.   What were the results of our witness testing?

2.1   In November 2019, Lucy Zodion provided a test report to ELEXON detailing its own testing against the CMS test specification provided on the CMS webpage. The requirements in the test specification map to the requirements for a CMS as defined in section 4.6.3.3 of BSC Procedure (BSCP) 520 'Unmetered Supplies Registered in SMRS'. The Lucy Zodion test report can be found in attachment A.

2.2   ELEXON conducted witness testing in January 2020. The CMS passed all the tests we conducted. The witness test report can be found in Attachment B and the witness test evidence can be found in Attachment C.

3.   What is the UMSUG's recommendation?

3.1   The UMSUG reviewed both the Lucy Zodion test report and the ELEXON witness test report in February 2020.

3.2   An UMSUG member noted that it states in Lucy Zodion's test report that if the CMS does not receive a billing uplink from a control node, it will use one from a nearby node. A BSCP 520 requirement is that if a control node is not reported due to a fault, it should revert to a default Switch Regime, which gives the customer an incentive to fix it. Lucy Zodion have made the relevant changes to their system to match this requirement and have updated the test report with evidence of this. The UMSUG member was satisfied with the resubmission and evidence provided.

3.3   An UMSUG member noted that the power usage shown in the event logs from the witness test also included the power of the control node. The power of the control node should be accounted for separately in the control file. Lucy Zodion clarified that a unique dimming curve was created for the witness test due to the control node and luminaire being powered by the same socket on the power analyser. Lucy Zodion noted that their own test report shows that the event logs used in normal operation do not account for the control node. The UMSUG member was satisfied with the response and evidence provided confirming the custom dimming curve used solely for the witness test.

3.4   The UMSUG recommends that the SVG approves the Ki. CMS version ki-master-694 for use in Settlement.

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4.   Recommendations

4.1   We invite you to:

   a)   **APPROVE** the Ki. CMS version ki-master-694 for use in Settlement; and

   b)   **NOTE** that we will update the CMS webpage with details of the approved CMS

Attachments

Attachment A – Lucy Zodion test report

Attachment B – ELEXON witness test report

Attachment C – ELEXON witness test evidence

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