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APPLICATIONS AND HOSTING SERVICES

CALL OFF SCHEDULE 10

BUSINESS CONTINUITY AND DISASTER RECOVERY

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1. PURPOSE OF THIS CALL OFF SCHEDULE

- 1.1 This Call Off Schedule sets out the Customer's requirements for ensuring continuity of the business processes and operations supported by the Services in circumstances of Service disruption or failure and for restoring the Services through business continuity and as necessary disaster recovery procedures. It also includes the requirement on the Supplier to develop, review, test, change and maintain a BCDR Plan in respect of the Services.
- 1.2 The BCDR Plan shall be divided into three parts:
 - 1.2.1 Part A which shall set out general principles applicable to the BCDR Plan ("**General Principles**").
 - 1.2.2 Part B which shall relate to business continuity ("**Business Continuity Plan**"); and
 - 1.2.3 Part C which shall relate to disaster recovery ("**Disaster Recovery Plan**"); and
- 1.3 The BCDR Plan shall detail the processes and arrangements which the Supplier shall follow to ensure continuity of the business processes and operations supported by the Services following any failure or disruption of any element of the Services and the recovery of the Services in the event of a Disaster.
- 1.4 Except as expressly specified in Call Off Schedule 3 (Call Off Contract Charges, Payment and Invoicing), the Supplier is responsible for all costs associated with its obligations under this Call Off Schedule.

2. DEVELOPMENT OF BCDR PLAN

- 2.1 The BCDR Plan shall unless otherwise required by the Customer in writing, be based upon and be consistent with the provisions of Paragraphs 3 to 5 of this Call Off Schedule.
- 2.2 The Supplier shall procure that the Supplier's Sub-Contractors have appropriate business continuity and disaster recovery plans in place (and that these are regularly tested) to the extent appropriate to the nature of the Services that such Supplier Sub-Contractors are providing. Further, the Supplier acknowledges that where the Supplier requires any Supplier Sub-Contractor to meet the Supplier's obligations under this Call Off Schedule and any disaster recovery and business continuity plans pursuant to this Call Off Schedule, this shall not affect any of the Supplier's obligations under this Call Off Contract.
- 2.3 The Supplier shall ensure that it's Sub-Contractors' disaster recovery and business continuity plans are integrated with the BCDR Plan.

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3. PART A - GENERAL PRINCIPLES AND REQUIREMENTS

3.1 The BCDR Plan shall:

- 3.1.1 set out how its business continuity and disaster recovery elements link to each other;
- 3.1.2 provide details of how the invocation of any element of the BCDR Plan may impact upon the operation of the Services;
- 3.1.3 contain an obligation upon the Supplier to liaise with the Customer and (at the Customer's request) any Related Supplier with respect to issues concerning business continuity and disaster recovery where applicable;
- 3.1.4 detail how the BCDR Plan links and interoperates with any overarching and/or connected disaster recovery or business continuity plan of the Customer and any of its other Related Suppliers as notified to the Supplier by the Customer from time to time;
- 3.1.5 contain a communication strategy including details of an incident and problem management service and advice and help desk facility which can be accessed via multi-channels (including but without limitation a web-site (with FAQs), e-mail, phone and fax) for both portable and desk top configurations, where required by the Customer ;
- 3.1.6 contain a risk analysis, including:
 - 3.1.6.1 failure or disruption scenarios and assessments and estimates of frequency of occurrence;
 - 3.1.6.2 identification of any single points of failure within the Services and processes for managing the risks arising therefrom;
 - 3.1.6.3 identification of risks arising from the interaction of the Services with the services provided by a Related Supplier; and
 - 3.1.6.4 a business impact analysis (detailing the impact on business processes and operations) of different anticipated failures or disruptions;
- 3.1.7 provide for documentation of processes, including business processes, and procedures;
- 3.1.8 set out key contact details (including roles and responsibilities) for the Supplier (and any Sub-Contractors) and for the Customer ;
- 3.1.9 identify the procedures for reverting to "normal service";
- 3.1.10 set out method(s) of recovering or updating data collected (or which ought to have been collected) during a failure or disruption;

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- 3.1.11 identify during Implementation, and agree with the Customer, the responsibilities (if any) that the Customer has agreed it will assume in the event of the invocation of the BCDR Plan; and
- 3.1.12 provide for the provision of technical advice and assistance to key contacts at the Customer as notified by the Customer from time to time to inform decisions in support of the Customer's business continuity plans.
- 3.2 The BCDR Plan shall be designed so as to ensure that:
 - 3.2.1 the Services are provided in accordance with the Call Off Contract at all times during and after the invocation of the BCDR Plan;
 - 3.2.2 the adverse impact of any Disaster, Service Failure, or disruption on the operations of the Customer is minimal as far as reasonably possible;
 - 3.2.3 it aligns with the relevant provisions of ISO/IEC17799:2000, BS15000 (as amended) and all other industry standards from time to time in force; and
 - 3.2.4 there is a process for the management of disaster recovery testing detailed in the BCDR Plan.
- 3.3 The BCDR Plan must be upgradeable and sufficiently flexible to support any changes to the Services or to the business processes facilitated by and the business operations supported by the Services.
- 3.4 The Supplier shall not be entitled to any relief from its obligations under the Service Levels or to any increase in the Call Off Contract Charges to the extent that a Disaster occurs as a consequence of any breach by the Supplier of this Call Off Contract.
- 3.5 The BCDR Plan is to be defined and agreed between the Supplier and the Customer during Implementation.

4. PART B - BUSINESS CONTINUITY ELEMENT - PRINCIPLES AND CONTENTS

- 4.1 The Business Continuity Plan shall set out the arrangements that are to be invoked to ensure that the business processes and operations facilitated by the Services remain supported and to ensure continuity of the business operations supported by the Services including but not limited to and unless the Customer expressly states otherwise in writing:
 - 4.1.1 the alternative processes, (including business processes), options and responsibilities that may be adopted in the event of a failure in or disruption to the Services; and
 - 4.1.2 the steps to be taken by the Supplier upon resumption of the Services in order to address any prevailing effect of the failure or disruption including a Root Cause analysis of the failure or disruption.

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- 4.2 The Business Continuity Plan shall address the various possible levels of failures of or disruptions to the Services and the services to be provided and the steps to be taken to remedy the different levels of failure and disruption. The Business Continuity Plan shall also clearly set out the conditions and/or circumstances under which the Disaster Recovery Plan is invoked.
- 4.3 The Business Continuity Plan shall be defined and agreed between the Supplier and the Customer during Implementation.

5. PART C - DISASTER RECOVERY ELEMENT - PRINCIPLES AND CONTENTS

- 5.1 The Disaster Recovery Plan shall be designed so as to ensure that upon the occurrence of a Disaster the Supplier ensures continuity of the business operations of the Customer supported by the Services following any Disaster or during any period of Service Failure or disruption with, as far as reasonably possible, minimal adverse impact.
- 5.2 The Disaster Recovery Plan shall only be invoked upon the occurrence of a Disaster.
- 5.3 The Disaster Recovery Plan shall include the following:
 - 5.3.1 the technical design and build specification of the Disaster Recovery System;
 - 5.3.2 details of the procedures and processes to be put in place by the Supplier and any Sub-Contractor in relation to the Disaster Recovery System and the provision of the Disaster Recovery Services and any testing of the same including but not limited to the following:
 - 5.3.2.1 data centre and disaster recovery site audits;
 - 5.3.2.2 backup methodology and details of the Supplier's approach to data back-up and data verification;
 - 5.3.2.3 identification of all potential disaster scenarios;
 - 5.3.2.4 risk analysis;
 - 5.3.2.5 documentation of processes and procedures;
 - 5.3.2.6 hardware configuration details;
 - 5.3.2.7 network planning including details of all relevant data networks and communication links;
 - 5.3.2.8 invocation rules;
 - 5.3.2.9 Service recovery procedures;
 - 5.3.2.10 steps to be taken upon Service resumption to address any prevailing effect of the Service Failure or disruption;

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- 5.3.3 any applicable Service Levels with respect to the provision of Disaster Recovery Services and details of any agreed relaxation upon the Service Levels during any period of invocation of the Disaster Recovery Plan;
- 5.3.4 details of how the Supplier shall ensure compliance with security standards ensuring that compliance is maintained for any period during which the Disaster Recovery Plan is invoked;
- 5.3.5 access controls (to any disaster recovery sites used by the Supplier or any Sub-Contractor in relation to its obligations pursuant to this Call Off Schedule); and
- 5.3.6 testing and management arrangements.

6. PROVISION, REVIEW AND AMENDMENT OF THE BCDR PLAN

- 6.1 The Supplier shall provide a draft of the BCDR Plan within 20 Working Days following the Call Off Commencement Date. This draft BCDR Plan will be delivered and Approved pursuant to the Approval Procedure as set out in Annex 5 of Part B (Product Description – Deliverable Approvals) of Call Off Schedule 4 (Implementation Plan, Customer Responsibilities and Key Personnel).
- 6.2 The Supplier shall review part or all of the BCDR Plan (and the risk analysis on which it is based):
 - 6.2.1 on a regular basis and as a minimum once every six (6) calendar months;
 - 6.2.2 within three calendar months of the BCDR Plan (or any part) having been invoked pursuant to Paragraph 8 of this Call Off Schedule; and
 - 6.2.3 where the Customer requests any additional reviews (over and above those provided for in Paragraphs 6.2.1 and 6.2.2 of this Call Off Schedule) by notifying the Supplier to such effect in writing, whereupon the Supplier shall conduct such reviews in accordance with the Customer's written requirements. The costs of both Parties for any such additional reviews will be met by the Customer.
- 6.3 Each review pursuant to Paragraph 6.2 of the BCDR Plan shall be a review of the procedures and methodologies set out in the BCDR Plan and shall assess their suitability having regard to any change to the Services or any underlying business processes and operations facilitated by or supported by the Services which have taken place since the later of the original Approval of the BCDR Plan or the last review of the BCDR Plan and shall also have regard to the occurrence of any event since that date (or the likelihood of any such event taking place in the foreseeable future) which may increase the likelihood of the need to invoke the BCDR Plan. The review shall be completed by the Supplier within the period required by the BCDR Plan or if no such period is required within such period as the Customer shall reasonably require. The Supplier shall, within twenty (20) Working Days of

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the conclusion of each such review of the BCDR Plan, provide to the Customer a report ("**Review Report**") setting out:

- 6.3.1 the findings of the review;
 - 6.3.2 any changes in the risk profile associated with the Services; and
 - 6.3.3 the Supplier's proposals ("**Supplier's Proposals**") for addressing any changes in the risk profile and its proposals for amendments to the BCDR Plan following the review detailing the impact (if any and to the extent that the Supplier can reasonably be expected to be aware of the same) that the implementation of such proposals may have on any services or systems provided by a third party.
- 6.4 The Supplier shall as soon as is reasonably practicable after receiving the Customer's Approval of the Supplier's Proposals (having regard to the significance of any risks highlighted in the Review Report) effect any change in its practices or procedures necessary so as to give effect to the Supplier's Proposals. Any such change shall be at the Supplier's expense unless it can be reasonably shown that the changes are required because of a material change to the Project's risk profile.

7. TESTING OF THE BCDR PLAN

- 7.1 The Supplier shall test the BCDR Plan on a regular basis (and in any event not less than once in every year during the Call Off Contract Period). Subject to Paragraph 7.2, the Customer may require the Supplier to conduct additional tests of some or all aspects of the BCDR Plan at any time where the Customer considers it necessary, including where there has been any change to the Services or any underlying business processes, or on the occurrence of any event which may increase the likelihood of the need to implement the BCDR Plan.
- 7.2 If the Customer requires an additional test of the BCDR Plan it shall give the Supplier written notice and the Supplier shall conduct the test in accordance with the Customer's requirements and the relevant provisions of the BCDR Plan. The Supplier's costs of the additional test shall be borne by the Customer unless the BCDR Plan fails the additional test in which case the Supplier's costs of that failed test shall be borne by the Supplier.
- 7.3 Following each test, the Supplier shall send to the Customer a written report summarising the results of the test and shall promptly implement any actions or remedial measures which the Customer considers to be necessary as a result of those tests.
- 7.4 The Supplier shall undertake and manage testing of the BCDR Plan in full consultation with the Customer and shall liaise with the Customer in respect of the planning, performance, and review, of each test, and shall comply with the reasonable requirements of the Customer in this regard. Each test shall be carried out under the supervision of the Customer or its nominee.
- 7.5 The Supplier shall ensure that any use by it or any Sub-Contractor of "live" data in such testing is first Approved with the Customer. Copies of live test

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data used in any such testing shall be (if so required by the Customer) destroyed or returned to the Customer on completion of the test.

7.6 The Supplier shall, within 20 Working Days of the conclusion of each test, provide to the Customer a report setting out:

7.6.1 the outcome of the test;

7.6.2 any failures in the BCDR Plan (including the BCDR Plan's procedures) revealed by the test; and

7.6.3 the Supplier's proposals for remedying any such failures.

7.7 Following each test, the Supplier shall take all measures requested by the Customer, (including requests for the re-testing of the BCDR Plan) to remedy any failures in the BCDR Plan and such remedial activity and re-testing shall be completed by the Supplier, at no additional cost to the Customer, by the date reasonably required by the Customer and set out in such notice.

7.8 For the avoidance of doubt, the carrying out of a test of the BCDR Plan (including a test of the BCDR Plan's procedures) shall not relieve the Supplier of any of its obligations under this Call Off Schedule or otherwise.

7.9 The Supplier shall also perform a test of the BCDR Plan as part of Implementation.

8. INVOCATION OF THE BUSINESS CONTINUITY AND DISASTER RECOVERY PLAN

In the event of a complete loss of service or in the event of a Disaster or pursuant to the provisions of the BCDR Plan, the Supplier shall immediately invoke the BCDR Plan (and shall inform the Customer promptly of such invocation). In all other instances the Supplier shall only invoke or test the BCDR Plan with the prior consent of the Customer. The Supplier shall comply with the BCDR Plan in respect of all such invocation.