

Digital Outcomes and Specialists 5 (RM1043.7)

Framework Schedule 6 (Order Form)

Version 2

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Framework Schedule 6 (Order Form Template, Statement of Work Template and Call-Off Schedules)

Order Form

Buyer guidance: This Order Form, when completed and executed by both Parties, forms a Call-Off Contract. A Call-Off Contract can be completed and executed using an equivalent document or electronic purchase order system.

If an electronic purchasing system is used instead of signing as a hard-copy, text below must be copied into the electronic order form starting from 'APPLICABLE FRAMEWORK CONTRACT' and up to, but not including, the Signature block.

It is important that if you, as the Buyer, add to or amend any aspect of any Call-Off Schedule, then **you must send the updated Schedule** with the Order Form to the Supplier.

Call-Off Reference: Project_1810

Call-Off Title: UKEF BI & ETL Data Engineering Support

Call-Off Contract Description: Provision of BI & ETL Data Engineering Support

The Buyer: UK Export Finance (UKEF)

Buyer Address:

UK Export Finance

1 Horse Guards Road

London

SW1A 2HQ

The Supplier: Cognizant Worldwide Limited

Supplier Address:

1 Kingdom Street

London

W2 6DB

Registration Number:

DUNS Number:

SID4GOV ID: N/A

Applicable Framework Contract

This Order Form is for the provision of the Call-Off Deliverables and dated 19th October 2022.

It's issued under the Framework Contract with the reference number RM1043.7 for the provision of Digital Outcomes and Specialists Deliverables.

The Parties intend that this Call-Off Contract will not, except for the first Statement of Work which shall be executed at the same time that the Call-Off Contract is executed, oblige the Buyer to buy or the Supplier to supply Deliverables.

The Parties agree that when a Buyer seeks further Deliverables from the Supplier under the Call-Off Contract, the Buyer and Supplier will agree and execute a further Statement of Work (in the form of the template set out in Annex 1 to this Framework Schedule 6 (Order Form Template, Statement of Work Template and Call-Off Schedules).

Upon the execution of each Statement of Work it shall become incorporated into the Buyer and Supplier's Call-Off Contract.

Call-Off Lot

Lot 1

Call-Off Incorporated Terms

The following documents are incorporated into this Call-Off Contract. Where numbers are missing we are not using those schedules. If the documents conflict, the following order of precedence applies:

- 1 This Order Form including the Call-Off Special Terms and Call-Off Special Schedules.
- 2 Joint Schedule 1 (Definitions) RM1043.7
- 3 Framework Special Terms
- 4 The following Schedules in equal order of precedence:
 - Joint Schedules for RM1043.7
 - Joint Schedule 2 (Variation Form)
 - Joint Schedule 3 (Insurance Requirements)
 - o Joint Schedule 4 (Commercially Sensitive Information)
 - Joint Schedule 6 (Key Subcontractors)
 - Joint Schedule 10 (Rectification Plan)
 - o Joint Schedule 11 (Processing Data) RM1043.7
 - o Joint Schedule 12 (Supply Chain Visibility) [Optional]

- Call-Off Schedules for RM1043.7
 - Call-Off Schedule 1 (Transparency Reports)
 - o Call-Off Schedule 2 (Staff Transfer)
 - Call-Off Schedule 3 (Continuous Improvement)
 - Call-Off Schedule 5 (Pricing Details and Expenses Policy)
 - Call-Off Schedule 6 (Intellectual Property Rights and Additional Terms on Digital Deliverables)
 - o Call-Off Schedule 7 (Key Supplier Staff)
 - o Call-Off Schedule 8 (Business Continuity and Disaster Recovery)
 - Call-Off Schedule 9 (Security)
 - o Call-Off Schedule 10 (Exit Management)
 - o Call-Off Schedule 13 (Implementation Plan and Testing)
 - Call-Off Schedule 14 (Service Levels and Balanced Scorecard)
 - Call-Off Schedule 15 (Call-Off Contract Management)
 - Call-Off Schedule 18 (Background Checks)
 - o Call-Off Schedule 20 (Call-Off Specification)
 - Call-Off Schedule 26 (Cyber Essentials Scheme)
- 5 CCS Core Terms (version 3.0.9)
- 6 Joint Schedule 5 (Corporate Social Responsibility) RM1043.7
- 7 Call-Off Schedule 4 (Call-Off Tender) as long as any parts of the Call-Off Tender that offer a better commercial position for the Buyer (as decided by the Buyer) take precedence over the documents above.

No other Supplier terms are part of the Call-Off Contract. That includes any terms written on the back of, added to this Order Form, or presented at the time of delivery.

Call-Off Special Terms

The following Special Terms are incorporated into this Call-Off Contract:

None

Call-Off Start Date: 19th October 2022

Call-Off Expiry Date: 18th October 2024

Call-Off Initial Period: 24 Months

Call-Off Optional Extension Period: 6 Month(s)

Minimum Notice Period for Extensions: 3 Month(s)

Call-Off Contract Value: £1,000,000.00. Should the Buyer exercise the option to extend the Call- Off Contract, the maximum amount to be paid during the Extension period would be 25% of the Call-Off Contract value.

Call-Off Deliverables

Option A: The requirements will be a series of call offs/SOWs for the provision of BI & ETL engineering Support to UKEF.

Buyer's Standards

From the Start Date of this Call-Off Contract, the Supplier shall comply with the relevant (and current as of the Call-Off Start Date) Standards referred to in Framework Schedule 1 (Specification). The Buyer requires the Supplier to comply with the following additional Standards for this Call-Off Contract:

Government Service Standard and Technology Code of Practice.

Cyber Essentials Scheme

The Buyer requires the Supplier, in accordance with Call-Off Schedule 26 (Cyber Essentials Scheme) to provide a Cyber Essentials Certificate prior to commencing the provision of any Deliverables under this Call-Off Contract.

Maximum Liability

The limitation of liability for this Call-Off Contract is stated in Clause 11.2 of the Core Terms as amended by the Framework Award Form Special Terms.

The Estimated Year 1 Charges used to calculate liability in the first Contract Year is £500,000.

Call-Off Charges

- 1 Capped Time and Materials (CTM)
- 2 Incremental Fixed Price
- 3. Time and Materials (T&M)
- 4 Fixed Price
- 5 A combination of two or more of the above Charging methods

Where non-UK Supplier Staff (including Subcontractors) are used to provide any element of the Deliverables under this Call-Off Contract, the applicable rate card(s) shall be incorporated into Call-Off Schedule 5 (Pricing Details and Expenses Policy) and the Supplier shall, under each SOW, charge the Buyer a rate no greater than those set out in the applicable rate card for the Supplier Staff undertaking that element of work on the Deliverables.

Reimbursable Expenses

None

Payment Method

BACS / Invoice

Buyer's Invoice Address



All Invoices to be 's submitted with a valid Purchase Order number from the buyer. **Buyer's Authorised Representative**



Buyer's Environmental Policy

The Environmental Information Regulations 2004 together with any guidance and/or codes of practice issued by the Information Commissioner or relevant government department in relation to such regulations.

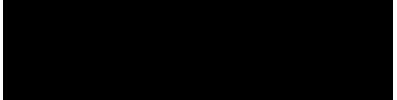
Buyer's Security Policy

Buyer's Security Policy available online at: https://www.gov.uk/government/publications/security-policy-framework

Supplier's Authorised Representative



Supplier's Contract Manager



Progress Report Frequency

On the first Working Day of each calendar month

Progress Meeting Frequency

Quarterly on the first Working Day of each quarter

Key Staff

Key Role	Key Staff	Contract Details	Employment / Engagement Route (incl. inside/outside IR35)	e-mail	Address
	1				

Key Subcontractor(s)

N/A

Commercially Sensitive Information

Not applicable

Balanced Scorecard

See Call-Off Schedule 14 (Service Levels and Balanced Scorecard)

Material KPIs

The Service Levels in Section 1 of Schedule 14 are not applicable to this Contract. UKEF will work with the Supplier to agree any further KPIs that may be required as well as the process that will be used for each SOW.

Additional Insurances

Not applicable

Guarantee

Not applicable

Social Value Commitment

The Supplier agrees, in providing the Deliverables and performing its obligations under the Call-Off Contract, that it will comply with the social value commitments in Call-Off Schedule 4 (Call-Off Tender)

Statement of Works

During the Call-Off Contract Period, the Buyer and Supplier may agree and execute completed Statement of Works. Upon execution of a Statement of Work the provisions detailed therein shall be incorporated into the Call-Off Contract to which this Order Form relates.

For and on behalf of the Supplier:

Signature	
Name:	
Role:	
Date:	11/1/2023
For and c	on behalf of the Buyer:
Signature	
Name:	
Role:	
Date:	

Appendix 1

Statement of Work 001

Annex 1 (Template Statement of Work)

1 Statement of Works (SOW) Details

Upon execution, this SOW forms part of the Call-Off Contract (reference below).

The Parties will execute a SOW for each set of Buyer Deliverables required. Any ad-hoc Deliverables requirements are to be treated as individual requirements in their own right and the Parties should execute a separate SOW in respect of each, or alternatively agree a Variation to an existing SOW.

All SOWs must fall within the Specification and provisions of the Call-Off Contact.

The details set out within this SOW apply only in relation to the Deliverables detailed herein and will not apply to any other SOWs executed or to be executed under this Call-Off Contract, unless otherwise agreed by the Parties in writing.

Date of SOW: 20 December 2022

SOW Title: Initial Data Foundations and first ETL roles

SOW Reference: SoW001

Call-Off Contract Reference: Project_1810

Buyer: UK Export Finance

Supplier: Cognizant Worldwide Limited

SOW Start Date: 16 January 2023

SOW End Date: 7 April 2023

Duration of SOW: 3 months

Key Personnel (Buyer):

Key Personnel (Supplier):

Subcontractors:

- N/A

2 Call-Off Contract Specification – Deliverables Context

SOW Deliverables Background:

This Statement of Work will lay some of the foundations for the FRC programme, which will include moving Development and Test Databases to Azure, Modifying the orchestration of some ETL jobs to decouple them and to deliver an ETL job to move Salesforce data into the Data Warehouse .

Overview of Requirement:

The supplier (Cognizant) shall provide UKEF with the technology consultancy and professional services to deliver the outcomes below.

3 **Buyer Requirements – SOW Deliverables**

Outcome Description:

- The creation of a 'Customer' DataMart in the data warehouse and the successful delivery of an ETL job to regularly update this with Salesforce data.
- Work on improvements to query / processing performance e.g. indexes and key generation based on normalised multi-dimensional modelling; and data validation, transformation and staging routines.

Milestone Ref	Milestone Description	Acceptance Criteria	Due Date
MS03	Salesforce Data warehousing – Data Structure	 Agreed Data model for the warehouse – approved by Head of Data and Analytics 	31 March 2023
		2. Agreed user stories with acceptance criteria	
MS04	Salesforce Data warehousing – ETL Job	 Schema, tables and ETL job released into production environment having passed UKEF QA. 	31 March 2023
MS05	Improvements to query / processing performance of our databases.	 Indexes and key generation are based on normalised multi-dimensional data models 	31 March 2023
		 Data Model validation and transformation – assist with migration to Azure managed instances 	

Delivery Plan:

Milestone	Deliverv	۲۷	Month 1 W2 W	th 1 W3	W4	W5	Month 2 W6 W	th 2 W7	W8	6M	Mo W10	Month 3 W11	W12
MS 03		Requirements Gathering and Understand the scope and As-is Systems.	Ints Gatheri and As-is S	ing and Un ystems.	derstand	Understand the Sc titlies, Relationships for the data model.	d the Scope tionships a a model.	Understand the Scope and come with En- tities, Relationships and Attributes needed for the data model.	with En- needed	First versi Stakehold warehous Analytics Agreed us	on of data n ers and Agr e – approve er stories w	First version of data model reviewed with Stakeholders and Agreed Data model for the warehouse – approved by Head of Data and Analytics Agreed user stories with acceptance criteria.	ed with odel for the f Data and ice criteria.
MS 04	Salesforce Data warehousing – ETL Job					Understand scope, Sou and Develo and perforr	Understand the Business scope, Source and Targe and Develop the Code fo and perform Unit testing	Understand the Business and Technical scope, Source and Target for ETL jobs and Develop the Code for IICS ETL Jobs and perform Unit testing	thnical jobs 'L Jobs	Schema, 1 UKEA QA environme	ables and E environmer ent having p	Schema, tables and ETL job released into UKEA QA environment and into production environment having passed UKEF QA.	ised into roduction - QA.
MS 05	Improvements to query / processing performance of our databases					Get all acc Infra and re provement mance of c	Get all access and under Infra and requirements to provements to query / pr mance of our databases.	Get all access and understand the Azure Infra and requirements to implement, Im- provements to query / processing perfor- mance of our databases.	e Azure ent, Im- perfor-	Reviewed gaps base	Reviewed with stakeholders gaps based on the feedback	Reviewed with stakeholders and address the gaps based on the feedback.	address the

Dependencies:

Dependency description	Impact if not delivered
Access provisioning to IICS Environment, Azure Platform, applications, and all needed environments will be made available to all Cognizant resources	Dependency delay will impact timeline, which will be addressed through a change control process.
Access provisioning to Data model and relevant tools	Dependency delay will impact timeline, which will be addressed through a change control process.
Providing documentation on existing Informatica landscape	Dependency delay will impact timeline, which will be addressed through a change control process.

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Dependency description	Impact if not delivered
Access to design documentation of ETL process	Dependency delay will impact timeline, which will be addressed through a change control process.
Any new connection related prerequisites (firewall, Database, etc.) are available for the resource on the day	Dependency delay will impact timeline, which will be addressed through a change control process.
Providing access to all the respective Source, Target, Parameters, Variables Folder	Dependency delay will impact timeline, which will be addressed through a change control process.
Providing documentation on business requirements, scope, and System documentation	Dependency delay will impact timeline, which will be addressed through a change control process.
UKEF will facilitate availability of representative set of data for testing any ETL flow	Dependency delay will impact timeline, which will be addressed through a change control process.
UKEF to provide timely sign-off to all delivered documentation and artefacts as planned	Dependency delay will impact timeline, which will be addressed through a change control process
To provide Architectural and design leadership to enable development to progress	Dependency delay will impact timeline, which will be addressed through a change control process

Supplier Resource Plan:

		M-1	M-2	M-3
Business Analyst [SFIA-5]	MS-03	1	1	1
Data Modeller [SFIA-5]	MS-03	1	1	1
IICS Engineer-1 [SFIA-5]	MS-04	0.5	1	1
Azure/MSSQL DBA [SFIA-5]	MS-05		1	1

Security Applicable to SOW:

The Supplier confirms that all Supplier Staff working on Buyer Sites and on Buyer Systems and Deliverables, have completed Supplier Staff Vetting in accordance with Paragraph 6 (Security of Supplier Staff) of Part B – Annex 1 (Baseline Security Requirements) of Call-Off Schedule 9 (Security).

SOW Standards:

[**Insert** any specific Standards applicable to this SOW (check Annex 3 of Framework Schedule 6 (Order Form Template, SOW Template and Call-Off Schedules)]

Performance Management:

[Insert details of Material KPIs that have a material impact on Contract performance]

Material KPIs	Target	Measured by
People (Resourcing)	As per resource plan	Against agreed resource plan
People in Place (Delivery)	As per resource plan	Against agreed resource plan

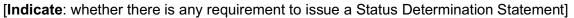
Additional Requirements:

Annex 1 – Where Annex 1 of Joint Schedule 11 (Processing Data) in the Call-Off Contract does not accurately reflect the data Processor / Controller arrangements applicable to this Statement of Work, the Parties shall comply with the revised Annex 1 attached to this Statement of Work.

Key Supplier Staff:

Key Role	Key Staff	Contract Details	Employment / Engagement Route (incl. inside/outside IR35)

Key Role	Key Staff	Contract Details	Employment / Engagement Route (incl. inside/outside IR35)



SOW Reporting Requirements:

Further to the Supplier providing the management information detailed in Paragraph 6 of Call-Off Schedule 15 (Call Off Contract Management), the Supplier shall also provide the following additional management information under and applicable to this SOW only:

Reporting will be managed through the weekly progress updates, where any further reporting requirements are required they will be agreed between UKEF and Cognizant.

4 Charges

Call Off Contract Charges:

The applicable charging method(s) for this SOW is:

• Capped Time and Materials

Buyer to select as appropriate for this SOW

The estimated maximum value of this SOW (irrespective of the selected charging method) is

Rate Cards Applicable:

Role	Rate Card	Max Billable Days
Senior Developer		
Senior Data Engineer [Data Modelling]		
Senior Performance Analyst [DBA]		
Senior Data Analyst [Business Analyst]		

Reimbursable Expenses:

None

5 Signatures and Approvals

Agreement of this SOW

BY SIGNING this Statement of Work, the Parties agree that it shall be incorporated into Appendix 1 of the Order Form and incorporated into the Call-Off Contract and be legally binding on the Parties:

For and on behalf of the Supplier

Name:	
Title:	
Date:	
Signatur	
For and	on benan of the Buyer
Name:	
Title:	
Date:	
Signatur	e:

Annex 1 Data Processing

Prior to the execution of this Statement of Work, the Parties shall review Annex 1 of Joint Schedule 11 (Processing Data) and if the contents of Annex 1 does not adequately cover the Processor / Controller arrangements covered by this Statement of Work, Annex 1 shall be amended as set out below and the following table shall apply to the Processing activities undertaken under this Statement of Work only:

Description	Details
Identity of Controller for each Category of Personal Data	The Relevant Authority is Controller and the Supplier is Processor
	The Parties acknowledge that in accordance with paragraph 2 to paragraph 15 and for the purposes of the Data Protection Legislation, the Relevant Authority is the Controller and the Supplier is the Processor of the following Personal Data:
	 Names and email addresses of UKEF staff and customers
Duration of the Processing	For the duration of the Contract – Dec 22 to Dec 24
Nature and purposes of the Processing	Structuring and adaptation through tasks as required by the Customer.
Type of Personal Data	Name, work related email address, work telephone number
Categories of Data Subject	Staff Customers Suppliers
Plan for return and destruction of the data once the Processing is complete	Data should only be retained for specific Statements of Work whilst working directly on UKEF systems, Any data held should be deleted on closure of that SoW
UNLESS requirement under Union or Member State law to preserve that type of data	

Call-Off Schedule 9 (Security)

Part B: Long Form Security Requirements

1 Definitions

1.1 In this Schedule the following words shall have the following meanings and they shall supplement Joint Schedule 1 (Definitions):

Term	Definition
Breach of Security	 means the occurrence of: (a) any unauthorised access to or use of the Goods and/or Deliverables, the Sites and/or any Information and Communication Technology ("ICT"), information or data (including the Confidential Information and the Government Data) used by the Buyer and/or the Supplier in connection with this Contract; and/or
	(b) the loss and/or unauthorised disclosure of any information or data (including the Confidential Information and the Government Data), including any copies of such information or data, used by the Buyer and/or the Supplier in connection with this Contract,
	in either case as more particularly set out in the security requirements in the Security Policy where the Buyer has required compliance therewith in accordance with paragraph 3.4.3 d;
ISMS	the information security management system and process developed by the Supplier in accordance with Paragraph 3 (ISMS) as updated from time to time in accordance with this Schedule; and
Security Tests	tests to validate the ISMS and security of all relevant processes, systems, incident response plans, patches to vulnerabilities and mitigations to Breaches of Security.

2 Security Requirements

- 2.1 The Buyer and the Supplier recognise that, where specified in Framework Schedule 4 (Framework Management), CCS shall have the right to enforce the Buyer's rights under this Schedule.
- 2.2 The Parties acknowledge that the purpose of the ISMS and Security Management Plan are to ensure a good organisational approach to security under which the specific requirements of this Contract will be met.
- 2.3 The Parties shall each appoint a security representative to be responsible for Security. The initial security representatives of the Parties are:

- 2.4 The Buyer shall clearly articulate its high level security requirements so that the Supplier can ensure that the ISMS, security related activities and any mitigations are driven by these fundamental needs.
- 2.5 Both Parties shall provide a reasonable level of access to any members of their staff for the purposes of designing, implementing and managing security.
- 2.6 The Supplier shall use as a minimum Good Industry Practice in the day to day operation of any system holding, transferring or processing Government Data and any system that could directly or indirectly have an impact on that information, and shall

ensure that Government Data remains under the effective control of the Supplier at all times.

- 2.7 The Supplier shall ensure the up-to-date maintenance of a security policy relating to the operation of its own organisation and systems and on request shall supply this document as soon as practicable to the Buyer.
- 2.8 The Buyer and the Supplier acknowledge that information security risks are shared between the Parties and that a compromise of either the Supplier or the Buyer's security provisions represents an unacceptable risk to the Buyer requiring immediate communication and co-operation between the Parties.

3 Information Security Management System (ISMS)

- 3.1 The Supplier shall develop and submit to the Buyer, within twenty (20) Working Days after the Start Date, an information security management system for the purposes of this Contract and shall comply with the requirements of Paragraphs 3.4 to 3.6.
- 3.2 The Supplier acknowledges that the Buyer places great emphasis on the reliability of the performance of the Deliverables, confidentiality, integrity and availability of information and consequently on the security provided by the ISMS and that the Supplier shall be responsible for the effective performance of the ISMS.
- 3.3 The Buyer acknowledges that;
- 3.3.1 If the Buyer has not stipulated during a Further Competition that it requires a bespoke ISMS, the ISMS provided by the Supplier may be an extant ISMS covering the Services and their implementation across the Supplier's estate; and
- 3.3.2 Where the Buyer has stipulated that it requires a bespoke ISMS then the Supplier shall be required to present the ISMS for the Buyer's Approval.
- 3.4 The ISMS shall:
- 3.4.1 if the Buyer has stipulated that it requires a bespoke ISMS, be developed to protect all aspects of the Deliverables and all processes associated with the provision of the Deliverables, including the Buyer Premises, the Sites, the Supplier System, the Buyer System (to the extent that it is under the control of the Supplier) and any ICT, information and data (including the Buyer's Confidential Information and the Government Data) to the extent used by the Buyer or the Supplier in connection with this Contract;
- 3.4.2 meet the relevant standards in ISO/IEC 27001 and ISO/IEC27002 in accordance with Paragraph 7;
- 3.4.3 at all times provide a level of security which:
 - (a) is in accordance with the Law and this Contract;
 - (b) complies with the Baseline Security Requirements;
 - (c) as a minimum demonstrates Good Industry Practice;
 - (d) where specified by a Buyer that has undertaken a Further Competition, complies with the Security Policy and the ICT Policy;
 - (e) complies with at least the minimum set of security measures and standards as determined by the Security Policy Framework (Tiers 1 to 4) (<u>https://www.gov.uk/government/publications/security-policy-framework/hmg-security-policy-framework</u>);
 - (f) takes account of guidance issued by the Centre for Protection of National Infrastructure (<u>https://www.cpni.gov.uk</u>);

- (g) complies with HMG Information Assurance Maturity Model and Assurance Framework (<u>https://www.ncsc.gov.uk/articles/hmg-ia-maturity-model-iamm</u>);
- (h) meets any specific security threats of immediate relevance to the ISMS, the Deliverables and/or Government Data;
- (i) addresses issues of incompatibility with the Supplier's own organisational security policies; and
- (j) complies with ISO/IEC27001 and ISO/IEC27002 in accordance with Paragraph 7;
- 3.4.4 document the security incident management processes and incident response plans;
- 3.4.5 document the vulnerability management policy including processes for identification of system vulnerabilities and assessment of the potential impact on the Deliverables of any new threat, vulnerability or exploitation technique of which the Supplier becomes aware, prioritisation of security patches, testing of security patches, application of security patches, a process for Buyer approvals of exceptions, and the reporting and audit mechanism detailing the efficacy of the patching policy; and
- 3.4.6 be certified by (or by a person with the direct delegated authority of) a Supplier's main board representative, being the "Chief Security Officer", "Chief Information Officer", "Chief Technical Officer" or "Chief Financial Officer" (or equivalent as agreed in writing by the Buyer in advance of issue of the relevant Security Management Plan).
- 3.5 Subject to Paragraph 2 the references to Standards, guidance and policies contained or set out in Paragraph 3.4 shall be deemed to be references to such items as developed and updated and to any successor to or replacement for such standards, guidance and policies, as notified to the Supplier from time to time.
- 3.6 In the event that the Supplier becomes aware of any inconsistency in the provisions of the standards, guidance and policies set out in Paragraph 3.4, the Supplier shall immediately notify the Buyer Representative of such inconsistency and the Buyer Representative shall, as soon as practicable, notify the Supplier as to which provision the Supplier shall comply with.
- 3.7 If the bespoke ISMS submitted to the Buyer pursuant to Paragraph 3.3.1 is Approved by the Buyer, it shall be adopted by the Supplier immediately and thereafter operated and maintained in accordance with this Schedule. If the ISMS is not Approved by the Buyer, the Supplier shall amend it within ten (10) Working Days of a notice of nonapproval from the Buyer and re-submit it to the Buyer for Approval. The Parties shall use all reasonable endeavours to ensure that the Approval process takes as little time as possible and in any event no longer than fifteen (15) Working Days from the date of the first submission of the ISMS to the Buyer. If the Buyer does not Approve the ISMS following its resubmission, the matter shall be resolved in accordance with the Dispute Resolution Procedure. No Approval to be given by the Buyer pursuant to this Paragraph 3 may be unreasonably withheld or delayed. However any failure to approve the ISMS on the grounds that it does not comply with any of the requirements set out in Paragraphs 3.4 to 3.6 shall be deemed to be reasonable.
- 3.8 Approval by the Buyer of the ISMS pursuant to Paragraph 3.7 or of any change to the ISMS shall not relieve the Supplier of its obligations under this Schedule.

4 Security Management Plan

- 4.1 Within twenty (20) Working Days after the Start Date, the Supplier shall prepare and submit to the Buyer for Approval in accordance with Paragraph 4 fully developed, complete and up-to-date Security Management Plan which shall comply with the requirements of Paragraph 4.2.
- 4.2 The Security Management Plan shall:

- 4.2.1 be based on the initial Security Management Plan set out in Annex 2 (Security Management Plan);
- 4.2.2 comply with the Baseline Security Requirements and, where specified by the Buyer in accordance with paragraph 3.4.3 d, the Security Policy;
- 4.2.3 identify the necessary delegated organisational roles defined for those responsible for ensuring this Schedule is complied with by the Supplier;
- 4.2.4 detail the process for managing any security risks from Subcontractors and third parties authorised by the Buyer with access to the Goods and/or Services, processes associated with the delivery of the Goods and/or Services, the Buyer Premises, the Sites, the Supplier System, the Buyer System (to the extent that it is under the control of the Supplier) and any ICT, Information and data (including the Buyer's Confidential Information and the Government Data) and any system that could directly or indirectly have an impact on that information, data and/or the Deliverables;
- 4.2.5 unless otherwise specified by the Buyer in writing, be developed to protect all aspects of the Deliverables and all processes associated with the delivery of the Deliverables, including the Buyer Premises, the Sites, the Supplier System, the Buyer System (to the extent that it is under the control of the Supplier) and any ICT, Information and data (including the Buyer's Confidential Information and the Government Data) to the extent used by the Buyer or the Supplier in connection with this Contract or in connection with any system that could directly or indirectly have an impact on that Information, data and/or the Deliverables;
- 4.2.6 set out the security measures to be implemented and maintained by the Supplier in relation to all aspects of the Deliverables and all processes associated with the delivery of the Deliverables and at all times comply with and specify security measures and procedures which are sufficient to ensure that the Deliverables comply with the provisions of this Schedule (including the requirements set out in Paragraph 3.4);
- 4.2.7 demonstrate that the Supplier's approach to delivery of the Deliverables has minimised the Buyer and Supplier effort required to comply with this Schedule through consideration of available, appropriate and practicable pan-government accredited services (for example, 'platform as a service' offering from the G-Cloud catalogue);
- 4.2.8 set out the plans for transitioning all security arrangements and responsibilities from those in place at the Start Date to those incorporated in the ISMS within the timeframe agreed between the Parties;
- 4.2.9 set out the scope of the Buyer System that is under the control of the Supplier;
- 4.2.10 be structured in accordance with ISO/IEC27001 and ISO/IEC27002, crossreferencing if necessary to other Schedules which cover specific areas included within those standards; and
- 4.2.11 be written in plain English in language which is readily comprehensible to the staff of the Supplier and the Buyer engaged in the Deliverables and shall reference only documents which are in the possession of the Parties or whose location is otherwise specified in this Schedule.
- 4.3 If the Security Management Plan submitted to the Buyer pursuant to Paragraph 4.1 is Approved by the Buyer, it shall be adopted by the Supplier immediately and thereafter operated and maintained in accordance with this Schedule. If the Security Management Plan is not approved by the Buyer, the Supplier shall amend it within ten (10) Working Days of a notice of non-approval from the Buyer and re-submit it to the Buyer for Approval. The Parties shall use all reasonable endeavours to ensure that the

Approval process takes as little time as possible and in any event no longer than fifteen (15) Working Days from the date of the first submission to the Buyer of the Security Management Plan. If the Buyer does not Approve the Security Management Plan following its resubmission, the matter shall be resolved in accordance with the Dispute Resolution Procedure. No Approval to be given by the Buyer pursuant to this Paragraph may be unreasonably withheld or delayed. However any failure to approve the Security Management Plan on the grounds that it does not comply with the requirements set out in Paragraph 4.2 shall be deemed to be reasonable.

4.4 Approval by the Buyer of the Security Management Plan pursuant to Paragraph 4.3 or of any change or amendment to the Security Management Plan shall not relieve the Supplier of its obligations under this Schedule.

5 Amendment of the ISMS and Security Management Plan

- 5.1 The ISMS and Security Management Plan shall be fully reviewed and updated by the Supplier and at least annually to reflect:
- 5.1.1 emerging changes in Good Industry Practice;
- 5.1.2 any change or proposed change to the Supplier System, the Deliverables and/or associated processes;
- 5.1.3 any new perceived or changed security threats;
- 5.1.4 where required in accordance with paragraph 3.4.3 d, any changes to the Security Policy;
- 5.1.5 any new perceived or changed security threats; and
- 5.1.6 any reasonable change in requirement requested by the Buyer.
- 5.2 The Supplier shall provide the Buyer with the results of such reviews as soon as reasonably practicable after their completion and amend the ISMS and Security Management Plan at no additional cost to the Buyer. The results of the review shall include, without limitation:
- 5.2.1 suggested improvements to the effectiveness of the ISMS;
- 5.2.2 updates to the risk assessments;
- 5.2.3 proposed modifications to the procedures and controls that affect information security to respond to events that may impact on the ISMS; and
- 5.2.4 suggested improvements in measuring the effectiveness of controls.
- 5.3 Subject to Paragraph 5.4, any change which the Supplier proposes to make to the ISMS or Security Management Plan (as a result of a review carried out pursuant to Paragraph 5.1, a Buyer request, a change to Annex 1 (Security) or otherwise) shall be subject to the Variation Procedure and shall not be implemented until Approved in writing by the Buyer.
- 5.4 The Buyer may, acting reasonably, Approve and require changes or amendments to the ISMS or Security Management Plan to be implemented on timescales faster than set out in the Variation Procedure but, without prejudice to their effectiveness, all such changes and amendments shall thereafter be subject to the Variation Procedure for the purposes of formalising and documenting the relevant change or amendment.

6 Security Testing

6.1 The Supplier shall conduct Security Tests from time to time (and at least annually across the scope of the ISMS) and additionally after any change or amendment to the ISMS (including security incident management processes and incident response plans) or the Security Management Plan. Security Tests shall be designed and implemented by the Supplier so as to minimise the impact on the delivery of the

Deliverables and the date, timing, content and conduct of such Security Tests shall be agreed in advance with the Buyer. Subject to compliance by the Supplier with the foregoing requirements, if any Security Tests adversely affect the Supplier's ability to deliver the Deliverables so as to meet the KPIs, the Supplier shall be granted relief against any resultant under-performance for the period of the Security Tests.

- 6.2 The Buyer shall be entitled to send a representative to witness the conduct of the Security Tests. The Supplier shall provide the Buyer with the results of such Security Tests (in a form approved by the Buyer in advance) as soon as practicable after completion of each Security Test.
- 6.3 Without prejudice to any other right of audit or access granted to the Buyer pursuant to this Contract, the Buyer and/or its authorised representatives shall be entitled, at any time upon giving reasonable notice to the Supplier, to carry out such tests (including penetration tests) as it may deem necessary in relation to the ISMS and the Supplier's compliance with the ISMS and the Security Management Plan. The Buyer may notify the Supplier of the results of such tests after completion of each such test. If any such Buyer's test adversely affects the Supplier's ability to deliver the Deliverables so as to meet the KPIs, the Supplier shall be granted relief against any resultant underperformance for the period of the Buyer's test.
- 6.4 Where any Security Test carried out pursuant to Paragraphs 6.2 or 6.3 reveals any actual or potential Breach of Security or weaknesses (including un-patched vulnerabilities, poor configuration and/or incorrect system management), the Supplier shall promptly notify the Buyer of any changes to the ISMS and to the Security Management Plan (and the implementation thereof) which the Supplier proposes to make in order to correct such failure or weakness. Subject to the Buyer's prior written Approval, the Supplier shall implement such changes to the ISMS and the Security Management Plan and repeat the relevant Security Tests in accordance with the timetable agreed with the Buyer or, otherwise, as soon as reasonably possible. For the avoidance of doubt, where the change to the ISMS or Security Management Plan is to address a non-compliance with the Security Policy or security requirements (as set out in Annex 1 (Baseline Security Requirements) to this Schedule) or the requirements of this Schedule, the change to the ISMS or Security Management Plan shall be at no cost to the Buyer.
- 6.5 If any repeat Security Test carried out pursuant to Paragraph 6.4 reveals an actual or potential Breach of Security exploiting the same root cause failure, such circumstance shall constitute a material Default of this Contract.

7 Complying with the ISMS

- 7.1 The Buyer shall be entitled to carry out such security audits as it may reasonably deem necessary in order to ensure that the ISMS maintains compliance with the principles and practices of ISO 27001 and/or the Security Policy where such compliance is required in accordance with paragraph 3.4.3 d.
- 7.2 If, on the basis of evidence provided by such security audits, it is the Buyer's reasonable opinion that compliance with the principles and practices of ISO/IEC 27001 and/or, where relevant, the Security Policy are not being achieved by the Supplier, then the Buyer shall notify the Supplier of the same and give the Supplier a reasonable time (having regard to the extent and criticality of any non-compliance and any other relevant circumstances) to implement and remedy. If the Supplier does not become compliant within the required time then the Buyer shall have the right to obtain an independent audit against these standards in whole or in part.
- 7.3 If, as a result of any such independent audit as described in Paragraph the Supplier is found to be non-compliant with the principles and practices of ISO/IEC 27001 and/or, where relevant, the Security Policy then the Supplier shall, at its own expense,

undertake those actions required in order to achieve the necessary compliance and shall reimburse in full the costs incurred by the Buyer in obtaining such audit.

8 Security Breach

- 8.1 Either Party shall notify the other in accordance with the agreed security incident management process as defined by the ISMS upon becoming aware of any breach of security or any potential or attempted Breach of Security.
- 8.2 Without prejudice to the security incident management process, upon becoming aware of any of the circumstances referred to in Paragraph 8.1, the Supplier shall:
- 8.2.1 immediately take all reasonable steps (which shall include any action or changes reasonably required by the Buyer) necessary to:
 - (a) minimise the extent of actual or potential harm caused by any Breach of Security;
 - (b) remedy such Breach of Security or any potential or attempted Breach of Security in order to protect the integrity of the Buyer Property and/or Buyer Assets and/or ISMS to the extent that this is within the Supplier's control;
 - (c) apply a tested mitigation against any such Breach of Security or attempted Breach of Security and provided that reasonable testing has been undertaken by the Supplier, if the mitigation adversely affects the Supplier's ability to provide the Deliverables so as to meet the relevant Service Level Performance Indicators, the Supplier shall be granted relief against any resultant under-performance for such period as the Buyer, acting reasonably, may specify by written notice to the Supplier;
 - (d) prevent a further Breach of Security or any potential or attempted Breach of Security in the future exploiting the same root cause failure; and
 - (e) supply any requested data to the Buyer (or the Computer Emergency Response Team for UK Government ("GovCertUK")) on the Buyer's request within two
 (2) Working Days and without charge (where such requests are reasonably related to a possible incident or compromise); and
 - (f) as soon as reasonably practicable provide to the Buyer full details (using the reporting mechanism defined by the ISMS) of the Breach of Security or attempted Breach of Security, including a root cause analysis where required by the Buyer.
- 8.3 In the event that any action is taken in response to a Breach of Security or potential or attempted Breach of Security that demonstrates non-compliance of the ISMS with the Security Policy (where relevant) or the requirements of this Schedule, then any required change to the ISMS shall be at no cost to the Buyer.

9 Vulnerabilities and fixing them

- 9.1 The Buyer and the Supplier acknowledge that from time to time vulnerabilities in the ICT Environment will be discovered which unless mitigated will present an unacceptable risk to the Buyer's information.
- 9.2 The severity of threat vulnerabilities for COTS Software shall be categorised by the Supplier as 'Critical', 'Important' and 'Other' by aligning these categories to the vulnerability scoring according to the agreed method in the ISMS and using the appropriate vulnerability scoring systems including:
- 9.2.1 the 'National Vulnerability Database' 'Vulnerability Severity Ratings': 'High', 'Medium' and 'Low' respectively (these in turn are aligned to CVSS scores as set out by NIST http://nvd.nist.gov/cvss.cfm); and
- 9.2.2 Microsoft's 'Security Bulletin Severity Rating System' ratings 'Critical', 'Important', and the two remaining levels ('Moderate' and 'Low') respectively.

- 9.3 The Supplier shall procure the application of security patches to vulnerabilities within a maximum period from the public release of such patches with those vulnerabilities categorised as 'Critical' within 14 days of release, 'Important' within 30 days of release and all 'Other' within 60 Working Days of release, except where:
- 9.3.1 the Supplier can demonstrate that a vulnerability is not exploitable within the context of any Service (e.g. because it resides in a software component which is not running in the service) provided vulnerabilities which the Supplier asserts cannot be exploited within the context of a Service must be remedied by the Supplier within the above timescales if the vulnerability becomes exploitable within the context of the Service;
- 9.3.2 the application of a 'Critical' or 'Important' security patch adversely affects the Supplier's ability to deliver the Services in which case the Supplier shall be granted an extension to such timescales of 5 days, provided the Supplier had followed and continues to follow the security patch test plan agreed with the Buyer; or
- 9.3.3 the Buyer agrees a different maximum period after a case-by-case consultation with the Supplier under the processes defined in the ISMS.
- 9.4 The Specification and Mobilisation Plan (if applicable) shall include provisions for major version upgrades of all COTS Software to be upgraded within 6 Months of the release of the latest version, such that it is no more than one major version level below the latest release (normally codified as running software no older than the 'n-1 version') throughout the Term unless:
- 9.4.1 where upgrading such COTS Software reduces the level of mitigations for known threats, vulnerabilities or exploitation techniques, provided always that such upgrade is made within 12 Months of release of the latest version; or
- 9.4.2 is agreed with the Buyer in writing.
- 9.5 The Supplier shall:
- 9.5.1 implement a mechanism for receiving, analysing and acting upon threat information supplied by GovCertUK, or any other competent Central Government Body;
- 9.5.2 ensure that the ICT Environment (to the extent that the ICT Environment is within the control of the Supplier) is monitored to facilitate the detection of anomalous behaviour that would be indicative of system compromise;
- 9.5.3 ensure it is knowledgeable about the latest trends in threat, vulnerability and exploitation that are relevant to the ICT Environment by actively monitoring the threat landscape during the Contract Period;
- 9.5.4 pro-actively scan the ICT Environment (to the extent that the ICT Environment is within the control of the Supplier) for vulnerable components and address discovered vulnerabilities through the processes described in the ISMS as developed under Paragraph 3.3.5;
- 9.5.5 from the date specified in the Security Management Plan provide a report to the Buyer within five (5) Working Days of the end of each Month detailing both patched and outstanding vulnerabilities in the ICT Environment (to the extent that the ICT Environment is within the control of the Supplier) and any elapsed time between the public release date of patches and either time of application or for outstanding vulnerabilities the time of such report;
- 9.5.6 propose interim mitigation measures to vulnerabilities in the ICT Environment known to be exploitable where a security patch is not immediately available;
- 9.5.7 remove or disable any extraneous interfaces, services or capabilities that are not needed for the provision of the Services (in order to reduce the attack surface of the ICT Environment); and

- 9.5.8 inform the Buyer when it becomes aware of any new threat, vulnerability or exploitation technique that has the potential to affect the security of the ICT Environment and provide initial indications of possible mitigations.
- 9.6 If the Supplier is unlikely to be able to mitigate the vulnerability within the timescales under this Paragraph 9, the Supplier shall immediately notify the Buyer.
- 9.7 A failure to comply with Paragraph 9.3 shall constitute a Default, and the Supplier shall comply with the Rectification Plan Process.

Part B: Annex 1

Baseline security requirements

- 1 Handling Classified information
- 1.1 The Supplier shall not handle Buyer information classified SECRET or TOP SECRET except if there is a specific requirement and in this case prior to receipt of such information the Supplier shall seek additional specific guidance from the Buyer.

2 End user devices

- 2.1 When Government Data resides on a mobile, removable or physically uncontrolled device it must be stored encrypted using a product or system component which has been formally assured through a recognised certification process of the National Cyber Security Centre ("NCSC") to at least Foundation Grade, for example, under the NCSC Commercial Product Assurance scheme ("CPA").
- 2.2 Devices used to access or manage Government Data and services must be under the management authority of Buyer or Supplier and have a minimum set of security policy configuration enforced. These devices must be placed into a 'known good' state prior to being provisioned into the management authority of the Buyer. Unless otherwise agreed with the Buyer in writing, all Supplier devices are expected to meet the set of security requirements set out in the End User Devices Security Guidance (<u>https://www.ncsc.gov.uk/guidance/end-user-device-security</u>). Where the guidance highlights shortcomings in a particular platform the Supplier may wish to use, then these should be discussed with the Buyer and a joint decision shall be taken on whether the residual risks are acceptable. Where the Supplier wishes to deviate from the NCSC guidance, then this should be agreed in writing on a case by case basis with the Buyer.

3 Data Processing, Storage, Management and Destruction

- 3.1 The Supplier and Buyer recognise the need for the Buyer's information to be safeguarded under the UK Data Protection regime or a similar regime. To that end, the Supplier must be able to state to the Buyer the physical locations in which data may be stored, processed and managed from, and what legal and regulatory frameworks Government Data will be subject to at all times.
- 3.2 The Supplier shall agree any change in location of data storage, processing and administration with the Buyer in accordance with Clause 14 (Data protection).
- 3.3 The Supplier shall:
- 3.3.1 provide the Buyer with all Government Data on demand in an agreed open format;
- 3.3.2 have documented processes to guarantee availability of Government Data in the event of the Supplier ceasing to trade;
- 3.3.3 securely destroy all media that has held Government Data at the end of life of that media in line with Good Industry Practice; and
- 3.3.4 securely erase any or all Government Data held by the Supplier when requested to do so by the Buyer.

4 Ensuring secure communications

- 4.1 The Buyer requires that any Government Data transmitted over any public network (including the Internet, mobile networks or un-protected enterprise network) or to a mobile device must be encrypted using a product or system component which has been formally assured through a certification process recognised by NCSC, to at least Foundation Grade, for example, under CPA.
- 4.2 The Buyer requires that the configuration and use of all networking equipment to provide the Services, including those that are located in secure physical locations, are at least compliant with Good Industry Practice.

5 Security by design

- 5.1 The Supplier shall apply the 'principle of least privilege' (the practice of limiting systems, processes and user access to the minimum possible level) to the design and configuration of IT systems which will process or store Government Data.
- 5.2 When designing and configuring the ICT Environment (to the extent that the ICT Environment is within the control of the Supplier) the Supplier shall follow Good Industry Practice and seek guidance from recognised security professionals with the appropriate skills and/or a NCSC certification (https://www.ncsc.gov.uk/section/products-services/ncsc-certification) for all bespoke or complex components of the ICT Environment (to the extent that the ICT Environment is within the control of the Supplier).

6 Security of Supplier Staff

- 6.1 Supplier Staff shall be subject to pre-employment checks that include, as a minimum: identity, unspent criminal convictions and right to work.
- 6.2 The Supplier shall agree on a case by case basis Supplier Staff roles which require specific government clearances (such as 'SC') including system administrators with privileged access to IT systems which store or process Government Data.
- 6.3 The Supplier shall prevent Supplier Staff who are unable to obtain the required security clearances from accessing systems which store, process, or are used to manage Government Data except where agreed with the Buyer in writing.
- 6.4 All Supplier Staff that have the ability to access Government Data or systems holding Government Data shall undergo regular training on secure information management principles. Unless otherwise agreed with the Buyer in writing, this training must be undertaken annually.
- 6.5 Where the Supplier or Subcontractors grants increased ICT privileges or access rights to Supplier Staff, those Supplier Staff shall be granted only those permissions necessary for them to carry out their duties. When staff no longer need elevated privileges or leave the organisation, their access rights shall be revoked within one (1) Working Day.

7 Restricting and monitoring access

7.1 The Supplier shall operate an access control regime to ensure all users and administrators of the ICT Environment (to the extent that the ICT Environment is within the control of the Supplier) are uniquely identified and authenticated when accessing or administering the Services. Applying the 'principle of least privilege', users and administrators shall be allowed access only to those parts of the ICT Environment that they require. The Supplier shall retain an audit record of accesses.

8 Audit

- 8.1 The Supplier shall collect audit records which relate to security events in the systems or that would support the analysis of potential and actual compromises. In order to facilitate effective monitoring and forensic readiness such Supplier audit records should (as a minimum) include:
- 8.1.1 Logs to facilitate the identification of the specific asset which makes every outbound request external to the ICT Environment (to the extent that the ICT Environment is within the control of the Supplier). To the extent the design of the Deliverables allows such logs shall include those from DHCP servers, HTTP/HTTPS proxy servers, firewalls and routers.
- 8.1.2 Security events generated in the ICT Environment (to the extent that the ICT Environment is within the control of the Supplier) and shall include: privileged account log-on and log-off events, the start and termination of remote access

sessions, security alerts from desktops and server operating systems and security alerts from third party security software.

- 8.2 The Supplier and the Buyer shall work together to establish any additional audit and monitoring requirements for the ICT Environment.
- 8.3 The Supplier shall retain audit records collected in compliance with this Paragraph 8 for a period of at least 6 Months.