

21 June 2022

STATEMENT OF REQUIREMENT FOR PROVISION OF COMMERCIAL IMAGERY (CI) AND ELEVATION DATA (ED)

Table of Mandatory Requirements

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2.1.2	<p>Information: To provide REDACTED – MILITARY SENSITIVE INFORMATION the ability to purchase Commercial Imagery (CI) and Elevation Data (ED) from vendor archive(s) or task vendor for new collection, and to do so at a competitive price that provides value for money.</p>
1.	<p>Requirements: Ability to purchase shall include the following: Contractor agreements to the major established and new CI and ED vendors and plans for agreements to emerging CI and ED vendors.</p>
2.	<p>Contractor method(s) for investigation and assessment of CI and ED across vendors sufficient to allow REDACTED – MILITARY SENSITIVE INFORMATION decisions on which CI or ED to purchase and/or when to initiate tasking for new collection.</p>
3.	<p>Contractor mechanisms to allow purchase at a competitive price providing value for money and including negotiated discounts and to be compliant with MoD Terms and Conditions.</p>
4.	<p>Contractor mechanism to avoid duplication of requests for CI and ED by REDACTED – MILITARY SENSITIVE INFORMATION</p>
2.1.3	<p>Information: To provide expert investigation and assessment of medium and/or high spatial resolution archive CI and ED over REDACTED – MILITARY SENSITIVE INFORMATION -defined geographic areas and provide recommendations for possible purchase.</p> <p>Requirements:</p>
5.	<p>CI and ED cover searches shall be conducted for either a specific sensor/source or a selection of sensors/sources, within or across spatial resolutions, as defined by REDACTED – MILITARY SENSITIVE INFORMATION .</p>
6.	<p>PASS/FAIL question (1) For the duration of the contract, you have the rights to provide archive imagery from all the following CI constellations:</p> <ul style="list-style-type: none"> • Optical – SPOT, KOMPSAT, Worldview, (WorldView-Legion when operational) Skysat, Pleiades and Pleiades-Neo. • Radar - ICEYE, CAPELLA, TerraSAR, KOMPSAT <p>PASS/FAIL question (2) For the duration of the contract, you have the rights to provide new collect imagery from all the following CI constellations:</p> <ul style="list-style-type: none"> • Optical – SPOT, KOMPSAT, Worldview, (WorldView-Legion when operational) Skysat, Pleiades and Pleiades-Neo • Radar - ICEYE, CAPELLA, TerraSAR, KOMPSAT

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7.	<p>ED Products/Sources considered shall include a minimum of:</p> <ul style="list-style-type: none"> • Stereo optical – ALOS PRISM, SPOT, KOMPSAT-3, Worldview, GeoEye, DEIMOS-2, ASTER and the Pleiades constellation. • Radar –SRTM, WorldDEM, NEXTmap, TerraSAR-X and Radarsat. • Lidar
8.	<p>Consideration of sensors/sources shall allow for future systems of suitable spatial resolution and searches for archive CI and ED from satellites no longer in operation as defined by REDACTED – MILITARY SENSITIVE INFORMATION .</p>
9.	<p>CI Spatial resolutions considered shall include medium resolution at 1 to 5m, and high resolution at less than 1m, as defined by REDACTED – MILITARY SENSITIVE INFORMATION . ED Spatial resolutions (post spacing) considered shall include medium resolution at 6 to 30m, and high resolution at less than 6m, as defined by REDACTED – MILITARY SENSITIVE INFORMATION .</p>
10.	
11.	<p>Imagery types considered shall be panchromatic, multi-spectral, pansharpened, hyper-spectral and radar but shall allow for future imagery types as defined by REDACTED – MILITARY SENSITIVE INFORMATION .</p>
12.	<p>Elevation Data considered shall be Bare earth Digital Terrain Models (DTM), Reflective surface Digital Surface Models (DSM) and Point Clouds but shall allow for future elevation data types as defined by REDACTED – MILITARY SENSITIVE INFORMATION .</p>
13.	<p>Geographic areas considered shall range from specific targeted area of interest footprints to full country areas, as defined by REDACTED – MILITARY SENSITIVE INFORMATION and customer RFIs. CI quality factors shall be considered in the recommendations, including accuracy, currency (usually latest available), cloud cover (usually 10% or less), atmospheric quality and verticality (angle of nadir) as defined by REDACTED – MILITARY SENSITIVE INFORMATION . ED quality factors shall be considered in the recommendations, including accuracy, currency (usually latest available), void cover (usually 10% or less), elevation model type (DSM or DTM), level/type of editing, as defined by REDACTED – MILITARY SENSITIVE INFORMATION .</p>
14.	<p>Deliverables from the investigation and assessment shall be provided by e-mail and shall include a summary of CI and/or ED availability with recommendations, estimated costs and delivery times where required, attached CI and ED coverage diagrams, CI and ED identifier listings and quick-look sample images. Investigation and subsequent results of a sensitive nature, should they be required, will be provided by a method as defined by REDACTED – MILITARY SENSITIVE INFORMATION on a case by case basis.</p>
15.	<p>All ED will be supplied to REDACTED – MILITARY SENSITIVE INFORMATION with metadata in a MoD Geospatial Metadata Profile 2 (MGMP2) compatible format, details of which will be provided. This metadata will include the following as a minimum: platform/source operator, platform/source name, date, time and geographic location of capture and type of capture DSM or DTM.</p> <p>Any imagery sensor must be from an appropriately reputable company and not have links to any countries the MOD would consider a risk unless otherwise requested by REDACTED – MILITARY SENSITIVE INFORMATION .</p>
2.1.4	<p>Information:</p> <p>To task, monitor and deliver CI and/or ED new collection on request by REDACTED – MILITARY SENSITIVE INFORMATION .</p>

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16.	Requirements: To task vendors to enable sensors to capture CI and/or ED over areas of interest identified by REDACTED – MILITARY SENSITIVE INFORMATION . To advise availability of sensors, collection windows, delivery timeframes and costs.
17.	Deliverables from the tasking and task monitoring shall be provided by e-mail. Deliverables shall include initial tasking details, progress reports during collection windows, and completion details or reasons for failed collection. Investigation and subsequent results of a sensitive nature, should they be required, will be provided by a method as defined by REDACTED – MILITARY SENSITIVE INFORMATION on a case by case basis.
18.	Deliverables (including ephemeris support data to allow local processing) from the CI and/or ED collection shall be in softcopy to standard geographic reference systems, formats and media as selected by REDACTED – MILITARY SENSITIVE INFORMATION accompanied by metadata in a MGMP2 compatible format where required.
19.	The Contractor shall provide the option to deliver the CI in standard format (no topographic correction and mapped to the average base elevation of the terrain covered by each scene), standard ortho-ready format (a geographically referenced product radio-metrically calibrated, corrected for sensor distortion and mapped to a valid combination of geographic or cartographic projection, datum and spheroid) as defined by REDACTED – MILITARY SENSITIVE INFORMATION .
20.	The Contractor shall provide the option to deliver the ED in standard gridded format (such as GeoTIFF, DTED format [e.g. .dt2], LAS, AsciiXYZ), mapped to a valid combination of geographic or cartographic projection, datum and spheroid and to a standard such as DGED, as defined by REDACTED – MILITARY SENSITIVE INFORMATION .
21.	Pictometry and Lidar should be included in the range of sensors and imagery/elevation types that can be tasked if requested by REDACTED – MILITARY SENSITIVE INFORMATION .
22.	22a
22a	PASS/FAIL question (3) For the duration of the contract, you can use direct digital transfer (via FTP) through appropriate servers when sending us CI and ED. Secondary delivery method will be via Media and shall include CD-ROM, DVD, Blu-ray and portable external hard drive. No individual image file can exceed 4GB, any image file larger will need to be split up into 2 separate files as agreed with REDACTED – MILITARY SENSITIVE INFORMATION .
2.1.5	Information: To deliver CI and/or ED from archive, only if required by REDACTED – MILITARY SENSITIVE INFORMATION .
23.	Requirements: Deliverables (including ephemeris support data) shall be in softcopy to standard vendor geographic reference systems, formats and media as selected by REDACTED – MILITARY SENSITIVE INFORMATION , accompanied by metadata in a MGMP2 compatible format where required.
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25.	<p>The Contractor shall provide the option to deliver the CI in standard format (no topographic correction and mapped to the average base elevation of the terrain covered by each scene), standard ortho-ready format (a geographically referenced product radiometrically calibrated, corrected for sensor distortion and mapped to a valid combination of cartographic projection, datum and spheroid).</p>
26	<p>The Contractor shall provide the option to deliver the ED in standard gridded format (such as GeoTIFF, DTED format [e.g.dt2], LAS, AsciiXYZ), mapped to a valid combination of geographic or cartographic projection, datum and spheroid and to a standard such as DGED, as defined by REDACTED – MILITARY SENSITIVE INFORMATION .</p> <p>Secondary delivery method shall include CD-ROM, DVD, Blu-ray and portable external hard drive. No individual image file can exceed 4GB, any image file larger will need to be split up into 2 separate files as agreed with REDACTED – MILITARY SENSITIVE INFORMATION .</p>
2.1.6	<p>Information: To deliver if required; Enhanced CI and ED products, namely orthorectified imagery (where all terrain distortions have been removed), pansharpened imagery, mosaicked imagery and with respect to ED; DTMs. And datasets that are associated with CI and ED, for example GCPs, surface classifications and slope analysis</p> <p>Requirements:</p> <p>27. If required, GCPs will be supplied to assist in the triangulation and geographic referencing of any supplied imagery.</p> <p>28. If required, fully orthorectified imagery shall be supplied by the Contractor produced against a model provided by the vendor or REDACTED – MILITARY SENSITIVE INFORMATION . The Contractor will be required to generate a model in the event of the vendor or REDACTED – MILITARY SENSITIVE INFORMATION being unable to do so. Such products must be within an acceptable standard of quality as defined by REDACTED – MILITARY SENSITIVE INFORMATION</p> <p>29. PASS/FAIL question (4) <i>For the duration of the contract you can provide, on request, the following enhanced imagery products;</i> -Mosaicing -Manual Pansharpening 29a. -Manual Orthorectification</p> <p>30. If required, a DTM (bare earth) shall be supplied rather than or in addition to a DSM (reflective surface)</p> <p>31. If required, the contractor on request will supply datasets that are associated with CI and ED, for example; Surface classifications and slope analysis</p> <p>The contractor will ensure that all CI and ED provided to REDACTED – MILITARY SENSITIVE INFORMATION is in an electronic data format that is compliant with and useable in all Defence/Government systems, as advised by REDACTED – MILITARY SENSITIVE INFORMATION .</p>
2.1.7	<p>Information:</p>

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32.	<p>To advise and support REDACTED – MILITARY SENSITIVE INFORMATION in understanding and solving technical issues concerning the collection and use of CI and ED from both new collection and archive.</p> <p>Requirements:</p> <p>Advice shall include best solutions to cover searches, and cover topics including sensor operational time frames and characteristics, vendor archives, delivery formats, costing processes, licensing options, and tasking and delivery channels and timings.</p> <p>Support shall include resolution of technical issues for delivered CI and ED and its use, through interaction with the vendor, analysis at the contractor's site, or by the contractor acting as a "help desk".</p> <p>Deliverables shall include formal written documentation sufficient to progress or resolve requests and issues, and the re-supply of delivered CI and/or ED if required.</p>
2.1.8	<p>Information:</p> <p>To have a thorough understanding of licence issues and to be able to negotiate suitable usage permissions on behalf of REDACTED – MILITARY SENSITIVE INFORMATION .</p> <p>Requirements:</p> <p>35. Defence use CI and ED in different forms, i.e. as raw CI or ED, enhanced products and in derived products. The Contractor must provide clear guidance on licence conditions for use of each form, for both hard and soft copy products.</p> <p>36. The Contractor will need to understand the way in which REDACTED – MILITARY SENSITIVE INFORMATION conducts its business in creating, and exchanging information in hard and soft copy, with other parts of UK Defence, other Government departments and international Defence organisations and when working in multi-national coalitions.</p> <p>37. PASS/FAIL question (5)</p> <p>For the duration of the contract, you will make every attempt to negotiate suitable licences that enables REDACTED – MILITARY SENSITIVE INFORMATION to meet the usage requirements, for example: sharing with organisations outside the MOD, such as FVEYs partners (note- REDACTED – MILITARY SENSITIVE INFORMATION must have the final say on the acceptability).</p> <p>37a.</p> <p>The Contractor will be expected to negotiate terms, conditions of use in an innovative manner, be reactive to evolving REDACTED – MILITARY SENSITIVE INFORMATION licence requirements and be able to demonstrate best value against market rates.</p> <p>38.</p> <p>Deliverables shall include formal documentation of the licence setting out any uplift cost, and subsequent conditions of use. It must be possible to amend the licence should requirements change.</p> <p>39.</p> <p>PASS/FAIL question (6)</p> <p>For the duration of the contract, you will make every attempt to negotiate with an imagery Tenderer to continue any imagery-use licences that are renewable on an annual basis.</p>
2.1.9	<p>Information:</p>

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40.	<p>The contractor shall have procedures and environment that will ensure security of all REDACTED – MILITARY SENSITIVE INFORMATION requests and orders within the contractor's organisation, within any CI and ED vendor's organisation, and in the transmission of information and materials between contractor and vendor and REDACTED – MILITARY SENSITIVE INFORMATION .</p> <p>Requirements:</p> <p>PASS/FAIL question (7) For the duration of the contract, you can ensure that when submitting any details of a request or order and declaring licensees, that you will take all possible measures to disguise the Authorities identity from third parties (now and in the future). If there are vendor restrictions or legal requirements to release the Authorities identity prior to the data being accessed/collected the Authority will be informed, and a decision made before proceeding. Where there are vendor restrictions or legal requirements to release the Authority identity as the licensee after a task has been processed the Authority should be informed, and the details released should be at the highest level possible – e.g. 1) UK Government, 2) MOD, 3) REDACTED – MILITARY SENSITIVE INFORMATION , 4) REDACTED – MILITARY SENSITIVE INFORMATION , 5) REDACTED – MILITARY SENSITIVE INFORMATION -A.), and where possible, the individual units within the Authority should be obfuscated</p>
2.1.10	<p>Information: To provide timely delivery of the results from investigation and assessment and subsequent delivery of CI and ED.</p> <p>Requirements:</p> <p>PASS/FAIL question (8) 43. For the duration of the contract, you can ensure that the delivery timeframes for results from the investigation and assessment for archive CI and ED shall not exceed 24 hours for urgent operational and emergency requests and 72 hours for routine requests.</p> <p>PASS/FAIL question (9) 44. For the duration of the contract, you can ensure that the delivery timeframes for results from the investigation and assessment for CI and ED new collection shall not exceed 24 hours for urgent operational and emergency requests and 72 hours for routine requests.</p> <p>45. Delivery timeframes for delivery of CI and/or ED from new collection shall be advised to REDACTED – MILITARY SENSITIVE INFORMATION after negotiation by the Contractor with the vendor. REDACTED – MILITARY SENSITIVE INFORMATION will determine the validity of such request on receipt of this information and instruct the Contractor accordingly.</p>

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46.	PASS/FAIL question (10) For the duration of the contract, you can ensure that the delivery timeframes for CI and ED from archive shall not exceed 24 hours for urgent operational and emergency requests and 72 hours for routine requests.
47.	Delivery timeframes for deliverables from advice and support shall not exceed: 24 hours for urgent operational and emergency requests and 72 hours for routine requests.
48.	PASS/FAIL question (11) For the duration of the contract, you can if required, provide weekend and Bank Holiday cover between 08.30 and 17.00 for operational (pre-arranged) and emergency reasons. (Cover does not necessarily mean a person point of contact and could be met by an alternative solution, however the solution would have to provide the same cover as would be expected during a normal working day).

Table of Key Requirements

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2.1.11	<p>Information: To advise REDACTED – MILITARY SENSITIVE INFORMATION on future sensors/sources, associated satellite launches and other technical developments.</p>
1.	<p>Requirement: Advice shall include status on future CI sensor/satellite launches, details of sensors and ED sources and their evolution ahead of them becoming operational.</p>
2.	<p>Deliverables shall include an assessment of expected sensor/satellite launches over at least the next three years, and formal written documentation sufficient to support REDACTED – MILITARY SENSITIVE INFORMATION planning for exploitation of new CI and ED if requested.</p>
3.	<p>Delivery timeframes shall be monthly for launch information, and as sensor/source operational details become available for other information.</p>

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