

tactical air vehicle mission plans, front line aircraft use satellite imagery products to view detailed layout of cultural features, such as woodland and buildings, and, where available, of the precise dispositions of an enemy.		Demonstration; Operational Evaluation		SWG)				Images of satellite imagery products and formats. UK MoD's current product is in GeoTIFF format. The use of the Compressed Image Base (CIB) format is widespread. UK MoD's current product is in GeoTIFF format. The use of the Compressed Image Base (CIB) format is widespread. UK MoD's current product is in GeoTIFF format. The use of the Compressed Image Base (CIB) format is widespread.		MrSID, GeoTIFF, JPEG. Inzpire has powerful geo-systems extensively in service (DIGIMAP, AMMWAS) and NITFS is not currently present because sample data has not been provided.	
To ensure data validity periods are adhered to or are not unknowingly exceeded, in addition to allowing the operator to understand the impact on planning of data currency.	DGC	Analysis; Inspection; Demonstration; Operational Evaluation							Non Compliant	The GECO Puma MSS is capable of providing this functionality as part of a future funded software upgrade. However, provision of this functionality is not currently costed within this proposal.	
Allows rapid access to information and features not provided in other products.	JHC	Analysis; Inspection; Demonstration; Operational Evaluation		Y			Y (Tide tables, slick cut Almanac)		Threshold	GECO Puma MSS will partially comply with this in providing - Towns, villages and postcodes if made available by the MoD. GECO has a powerful import, search and display capability. More extensive options could be offered as part of an upgrade programme	
	DGC	Analysis; Inspection; Demonstration; Operational Evaluation		Y			Y (Polar Grids, Others, grids)		Threshold	GECO Puma MSS is compliant with this as demonstrated on a number of Inzpire geo products on MoD contracts (DIGIMAP, AMMWAS etc) that hosts the MoD relevant formats provided by DGC and AIDU.	
	DGC	Analysis; Inspection; Demonstration; Operational Evaluation		Y					Threshold	GECO Puma MSS provides these coordinate reference systems. These are evident across Inzpire's products used in MoD training and on operations for many years (DIGIMAP, AMMWAS).	

In addition to DVOP information provided by DGC User requires ability to update with constructions not included within the DVOP file either because they are new, have been omitted, or they fall outside the DVOP criteria but are required for operations (in particular LVI A and B NVD operations).

DVOF either because they are new/have been omitted, or they fall outside the DVOF criteria but are required for operations (in particular Lvl A and B NVD operations).							extract of minutes from a meeting at DGC on 18 Aug between the CADS team and DGC operations teams at achieving the		
							*Feedback of CADS team distribution database to DVOF. To ensure that the attached MA is updated properly to reflect changes in the database, the DVOF team will be required to ensure that the database is updated with any changes to the database. The DVOF team will be required to ensure that the database is updated with any changes to the database. The DVOF team will be required to ensure that the database is updated with any changes to the database.		
Up-to-date, worldwide mission planning can take place on the MSS without recourse to checking separate meteorological products.	UKMO	Analysis; Inspection; Test		SWG				Threshold	GECCO Puma MSS will import and host meteorological information for display in accordance with the data supplied during the bid process.
Up-to-date, worldwide mission planning can take place on the MSS without recourse to checking separate meteorological products.	UKMO	Analysis; Inspection; Test					Y	Threshold	The GECCO Puma MSS is capable of providing this functionality through the middleware or physical media.

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tactical situation.	JHC	Analysis; Inspection; Demonstration; Operational Evaluation			Y					Threshold	Full functionality to select and save any number of tactical mark ups across all types is provided. These can be synchronised between MPS and MMS at ease.	
	JHC	Analysis; Inspection; Demonstration; Operational Evaluation			SWG				Implementation of the style could be similar to the employed in Tables and Borders of Microsoft products.	Threshold	GECCO Puma MSS is unlimited in its ability to provide symbology in a style that supports an style for 'current' as well as 'planned' activity. This is evident already in all Inspire products where line style, thickness etc are widely available for displayable entities.	
	JHC	Analysis; Inspection; Demonstration; Operational Evaluation			SWG					Threshold	The Tactical mark-up system present in GECCO Puma MSS allows all Tactical mark ups to have an equipment identity tag of the user's choice (extremely flexible). This can be from a standardised set e.g. JHC MRCs or as required by the APHs. Notes can also be attributed to the tactical mark-up.	
	JHC	Analysis; Inspection; Demonstration; Operational Evaluation			LAN (SWG)			WAN		Threshold	GECCO Puma MSS allows all data associated with the tactical mark up (Symbol, equipment tag and notes) to be shared throughout the WAN and LAN.	
	JHC	Analysis; Inspection; Demonstration; Operational Evaluation			Y					Threshold	GECCO Puma MSS provides a database and visualisation of user configurable threat systems (and their associated parameters such as Max Range, aspect-based range and intervisibility for a configurable height). This is displayed in full 2D and 3D views.	
	JHC	Analysis; Inspection; Demonstration; Operational Evaluation			Y					Threshold	GECCO Puma MSS will alert the User if a route is planned to fly within range of a threat system according to the alert criteria set.	

requisite for all air-space Users. All relevant information has to be displayed on the MSS if compliant route plans are to be developed. The tempo of modern operations requires that changes may be made during the conduct of operations and may be promulgated outside of the ACO/ATO messaging process e.g. by voice.											
The tempo of modern operations requires that changes may be made during the conduct of operations and may be promulgated outside of the ACO/ATO messaging process e.g. by voice. Allows development of Training scenarios.	JHC	Analysis; Inspection; Demonstration; Operational Evaluation		Y					Threshold	Manual entry of ACMs can be created and amended tp provide the information when electronic import is not available (and any other time when desired). Manual NOTAMS are handled in a similar way.	
To allow manually created ACMs to be shared	JHC	Analysis; Inspection; Demonstration; Operational Evaluation		Y					Threshold	Manually created ACM Information will be shared across the WAN and LAN.	Threshold
Minimise display clutter and transfer requirements to what is required	JHC	Analysis; Inspection; Demonstration; Operational Evaluation					Y (MIDDLE E / SLI)		Threshold	GECO Puma MSS will allow the filtering of displayed and transferred items in terms of time, space and vertical relevance (altitude and height).	Pass/Fail
Operational Effectiveness Situational Awareness	JHC	Analysis; Inspection; Demonstration; Operational Evaluation		2					Non Compliant	The GECO Puma MSS is capable of providing this functionality as part of a future funded software upgrade. However, provision of this functionality is not currently costed within this proposal	Threshold / Objective
Operational Effectiveness Situational Awareness	JHC	Analysis; Inspection; Demonstration; Operational Evaluation		2					Non Compliant	The GECO Puma MSS is capable of providing this functionality as part of a future funded software upgrade. However, provision of this functionality is not currently costed within this proposal	Threshold

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accessed if required Given the planned task within the mission, the crew should be able to select the most appropriate scale of chart for that task (e.g. one should not plan an IP to Tgt task on a 1:1M map).	JHC	Analysis; Inspection; Demonstration; Operational Evaluation		Y					Threshold	GECO Puma MSS provides all of the listed map scales required as well as higher and lower scales as well. These can be automatically transitioned as the User zooms in and out to provide a sensible map scale for the zoom level. A map scale can also be manually selected by the User.	Pass/Fail
At any time, crews should be able to check the features on the products they view to ensure no ambiguity occurs during the planning process.	JHC	Analysis; Inspection; Demonstration; Operational Evaluation							Non Compliant	The GECO Puma MSS is capable of providing this functionality as part of a future funded software upgrade. However, provision of this functionality is not currently costed within this proposal	Pass/Fail
It is important to distinguish between the ability to zoom in or out on the currently selected backdrop, without a change of chart type occurring, as opposed to a change of scale when a different chart type may be appropriate. In addition, excessive time taken will interrupt the planning process where frequent changes of scale, appropriate to the phase of planning (e.g. route planning vs attack planning) are required.	JHC	Analysis; Inspection; Demonstration; Operational Evaluation		Y					Threshold	The automatics of the GECO Puma MSS is configurable to meet a user's requirement and these settings are within system capabilities. The automatics can be invoked or a specific map scale chosen for specific zoom without change including bringing it up at 1x zoom.	Pass/Fail
This ensures that the User does not repetitively request the same action unnecessarily with potentially undesired.	JHC	Analysis; Inspection; Demonstration; Operational Evaluation		Y					Threshold	GECO provides near instant feedback confirming a key press through a key selection tell back within 0.5 second.	Threshold
This allows the crew to view the route in the most appropriate way for the mission.	JHC	Analysis; Inspection; Demonstration; Operational Evaluation	K	Y					Threshold	GECO Puma MSS can provide a variety of map orientations including North Up, Manual orientation (with Compass orientation display) and route leg up.	Pass/Fail

This allows the crew to view the route in the most appropriate way for the mission.	JHC	Analysis; Inspection; Demonstration; Operational Evaluation		Y					Threshold	A change of mapping type and scales preserves the map centric point on the display.	Pass/Fail
The small size of computer screens relative to traditional paper maps, represents one of the disadvantages of using a computerised MSS. In consequence, the ability to be able to manipulate maps rapidly and intuitively is a key requirement when using a MSS.	JHC	Analysis; Inspection; Demonstration; Operational Evaluation		Y					Threshold	GECCO has the ability to rapidly centre the display by a variety of means including through coordinate entry, select an entity (touchscreen or mouse) and centre, touch the screen and enter, mouse click the screen and centre and centre via a search through any geo-located data entity within the database.	Pass/Fail
MSS calculations will, at the threshold, provide a cross check of aircrew calculations, and at the objective	JHC	Analysis; Inspection; Test		Y					Threshold	GECCO Puma MSS has a standard scientific calculator to perform any mathematical calculations as part of the in-built operating system.	Pass/Fail

route trajectory or to refuel en route.									the MPS and MMS UI with ease.		
This capability will inform the User of the viability of the current route and whether action needs to be taken to amend the route trajectory or to refuel en route.	JHC	Analysis; Inspection; Demonstration; Operational Evaluation		Y				Planned fuel assumes that mission is completed with all weapons.	Threshold	GECCO Puma MSS provides automatic alerts to show if the planned fuel is not sufficient to complete the mission planned with the platform configuration. This will not prevent the plan to continue being progressed.	Threshold
This capability will inform the User of the viability of the current route and whether action needs to be taken to amend the route trajectory or to refuel en route.	JHC	Analysis; Inspection; Demonstration; Operational Evaluation		Y					Threshold	GECCO has the ability to provide refuelling points and upload the defined fuel amounts and incorporate into all performance and fuel calculations.	
The will provide crews (specifically planning formation sorties) the ability to identify their fuel usage.	JHC	Analysis; Inspection; Demonstration; Operational Evaluation		Y					Threshold	Bingo fuels are automatically calculated along the route that are displayed at each turning point (waypoint).	
On long legs/sorties (especially over either ocean or remote land areas, where SAR coverage is sparse) it is vital that the crew	JHC	Analysis; Inspection; Demonstration; Operational Evaluation		SWG					Threshold	GECCO Puma MSS will calculate PNR and CP for a leg or the whole route using the planning data and atmospheric (winds etc) available from the MSS.	
The generation of detailed route information, including timing, allows confirmation of the feasibility of the plan and is of fundamental importance to the aircrew during the execution of the mission. The rapid derivation of accurate route timing information will reduce the time to plan and will support development of co-ordinated mission plans.	JHC	Analysis; Inspection; Demonstration; Operational Evaluation		Y					Threshold	GECCO Puma MSS will provide all timings relevant to routes ETA/ETD based on TAS or Ground Speed with wind factored into the calculations. Objective will be provided if GRIB data is provided as GFI	
This capability is necessary to develop co-ordinated plans with respect to pre-planned time-on-target or take-off times.	JHC	Analysis; Inspection; Demonstration; Operational Evaluation		Y					Threshold	The timing capability within GECCO is very powerful and can allow an unlimited number of fixed / reference timing combinations tied to navigation points. Everything is automatically calculated and options exist to fix timings by adjusting speed too.	