

ADSC



Air Defence Siting Computer

OVERVIEW

The Air Defence Siting Computer (ADSC) provides a rapid, accurate and easy to use planning tool for Very Short and Short Range Air Defence systems. Integration with military mapping data further improves ADSC's usability and analysis capabilities.

ADSC stores and analyses data on many potential air defence weapon sites, Vulnerable Points, Routes and Defended Areas. It produces optimised deployment selections for any number of weapon sites against any user defined threat, allowing the user to quickly assess many different scenarios.

ADSC can simulate hundreds of attacks against the deployment, so giving a high level of confidence in the robustness of its defence. Reports can be generated for distribution to weapon detachment commanders, air defence staff and operational commanders. ADSC can also be used by OA and Requirements Staff.

SUMMARY

- Increase in AD siting effectiveness of 20-30% using ADSC; better coverage of the defended point, route or area
- Rapid establishment of Air Defence; reconnaissance parties can carry out initial siting with ADSC ensuring effective air defence is available as soon as possible
- Digital terrain databases and digitised mapping can assist in pre-planning deployment; sites can be quickly updated with scanned images, diagrams and digital photographs and used for briefing detachment commanders
- Standalone; it does not require sophisticated communications infrastructure to operate so can therefore be used at any time to pre-plan defensive deployments
- Low cost and instant visual feedback of air defence coverage enables it to be issued widely to stimulate good siting practice within the AD community

DESCRIPTION

ADSC is in operational service with UK Armed Forces and has been purchased by Malaysia. It is a significant force multiplier for the UK MOD at a time when AD weapon systems are becoming increasingly expensive, scarce and necessary. It can be tailored to suit the needs of any nation and short range air defence weapon system.

The tool produces optimal siting of AD assets in an extremely cost effective manner. It can be deployed world-wide, and used by non-specialist operators thus avoiding a high training burden, as well as specialists wishing to leverage existing knowledge.

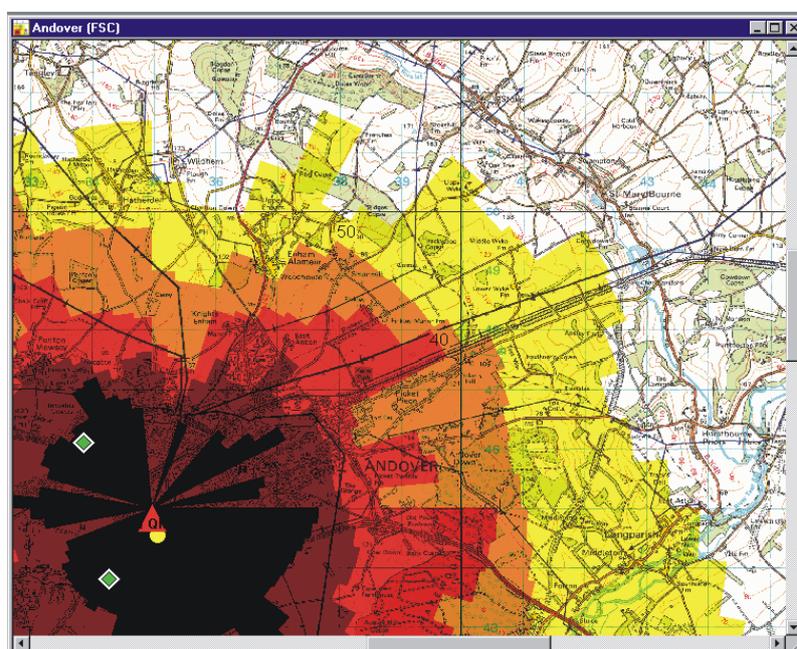
ADSC is easy to use having been designed by experienced Air Defenders who understand the real needs of users. The interface is based on Windows interface, reducing user training time, improving speed and usability, and allowing integration with OA tools such as word processing and presentation applications.

Using ADSC, Air Defence teams are able to give a realistic threat level against air attack with confidence to those in the defended area. Multiple areas can be defined, and overlapped, assisting the site optimisation process. The Geographical Target Engagement Rate diagram, for example, shows where particular impacts occur against a potential threat approaching the defended point. Weakly defended arcs can be highlighted, avoiding the misleading illusion of a good point defence that sometimes occurs when First Impact traces are used.

ADSC uses many types of mapping data including ASRP, CRP, ADRG, CADRG, VMap, DFAD, DAFIF, IMG, Shapefile and CIB. Integration with alternative mapping sources and radio coverage and inter-connectivity planning tools is also possible.

Optionally, survey data capture can be enhanced with ruggedised hand-held computers attached to GPS, laser range finders and other surveying equipments.

Full integration or data exchange with other Air Defence C3I systems is also possible. ADSC formed the planning component and operational interface of the Bowman-hosted GBAD BriC produced in collaboration with BAE Systems Insyte.



For further details of ADSC or to arrange a demonstration, please contact us at:
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