

SAF-FORESIGHT™

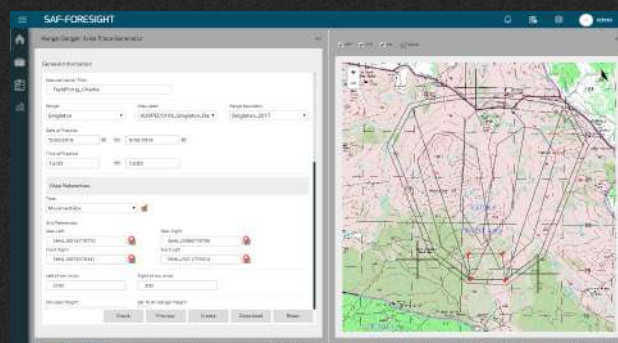


SAF-Foresight™ is a 3-dimensional range safety, planning, visualization, briefing, risk assessment, analysis and safety intervention tool supporting live fire collective military training. Joint Service Publication (JSP) 403 compliant, SAF-Foresight generates ballistically accurate Range Danger Area (RDA) templates mandatory for the conduct of live field firing. Today RDA templates are typically generated by a series of hand-drawn traces on clear plastic with manual submission and approval. SAF-Foresight allows for the 3D digitization of this entire process for multiple permanent and temporary ranges overlaid on geo-specific training areas. SAF-Foresight also includes a wealth of planning and visualization aids developed in close collaboration with the user community to support the safe and efficient planning, conduct and risk analysis of live fire training. SAF-Foresight can export RDA templates and control measures to synthetic training environments enabling seamless 3D range design, analysis, rehearsals, briefing, and virtual walkthroughs to be conducted.

SAF-Foresight is primarily aimed at the reduction of fratricide risk in live fire training and has been under development by SimCentric Technologies for two years in close collaboration with key Armed Forces and Industry stakeholders. To date SAF-Foresight has been adopted by the Australian Defence Force for introduction into service in 2019, and is currently under assessment by other military/Industry organizations across NATO and ABCA. SAF-Foresight enables a common picture to be employed continuously throughout planning, execution and after-action review phases, visible to commanders, range control, range appointments, safety personnel and exercise participants on both fixed and portable (tablet) devices. This includes supporting any short-notice amendments such as restriction of arcs to allow personnel movement to occur, suspension of range practices to allow target placement/ refurbishment, and deconfliction by both time and space to facilitate concurrent field firing practices. Once any amendments are made, the 3D view is updated in real time, ensuring that all relevant stakeholders are viewing the current, correct battle picture of active live ranges and control measures.

Rapid, Comprehensive & Safe Exercise Design

When conducting live fire training employing multiple permanent and non-permanent range templates, SAF-Foresight enables the generation of advanced doctrinally correct templates within minutes, rather than requiring laborious hand-drawn templates. SAF-Foresight enables multiple 3D digital templates to be positioned simultaneously within a geo-specific training area supported by sub-metre accuracy range boundaries, with an intuitive "click and adjust" feature to deconflict RDA template non-compliance. This enables the optimized freedom of action whilst balancing the three competing considerations of exercise realism, concurrent usage and personnel safety.



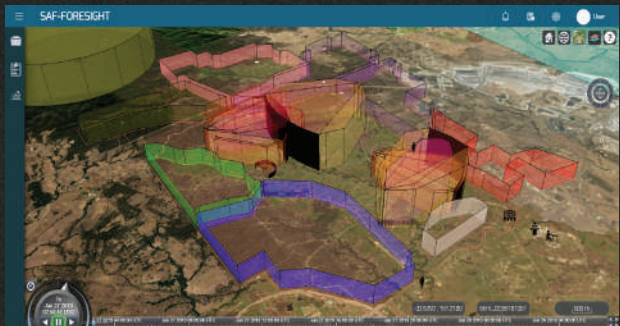
Live Exercise Safety Monitoring & Intervention

When coupled with troop geo-location and a Common Operating Picture (COP), SAF-Foresight will support the tracking of live troops during field firing exercises via recognized simulation standards (e.g. DIS). This enables auto-detection of emerging fratricide risks to troops and safety staff using SimCentric’s advanced proprietary AI algorithms. Consequently, instantaneous alert prompts can be delivered to range appointments in real time enabling swift mitigation of that risk before it results in a catastrophic incident.



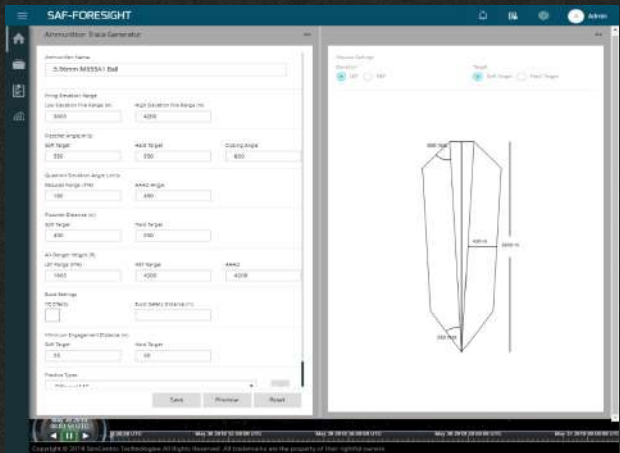
Permanent range design / layout analysis

Balancing the competing priorities of realism (large movement boxes with wide arcs), concurrency (multiple units training simultaneously) and safety (sufficient distance between troops and impact areas), SAF-Foresight allows detailed range modelling and design to be undertaken on existing or new military field firing ranges to maximize training outcomes using available space, incorporating collective training requirements, ammunition natures used, and constraints imposed by existing facilities and infrastructure.



Experimentation, Options Analysis and Supply Chain Rationalization

SAF-Foresight enables 3D ballistic analysis of template design for in-service and future proposed ammunition natures. This allows militaries to rationalize their in-service ammunition natures, reduce duplication, match ammunition natures to training and operational requirements, and assess implications of new acquisitions and experimental natures on existing training areas and extant range design for any training area globally.



Product
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