

PATRIOT3 ELEVATED TACTICS



REVOLUTIONARY BY DESIGN

P3E's Elevated Tactics Systems (ETS) provides access to multi-story buildings, sniper positioning, elevated observation, ships-at-dock, much more. ETS also provides a greater degree of safety than traditional ladders and grappling hooks, resulting in fewer operator injuries.



WHAT IS ETS?

Today's tactical response capabilities, now more than ever, require innovative tactical equipment due to evolving threats.

Patriot3's Elevated Tactics System or ETS is one such tactical device that can greatly broaden a team's response capability and tactics. We have analyzed past methods of entry used by military and police forces (ropes, ladders, etc.) and the problems associated with them. Since 2000, we have had several goals: to provide increased operator safety, quick and reliable elevated access, and the ability to integrate our ETS's on a wide variety of vehicles. The ETS distinguishes itself as a viable alternative to ground level entry, which is one of the most dangerous points of entry in any mission, military and law enforcement. Through training and mission preparedness, ETS are deployed for a variety of situations; Aircraft Interdictions, Multi-Floor Assaults, Bus/Linear Assaults, Perimeter Clearing, Ship-at-Dock Assaults, Hostage Rescue, and much more. With Patriot3's ETS in current use around the world, they have and continue to prove themselves in real-world missions as an integral tool to ensure success!

WHY PATRIOT3 ETS?

Just like all operational gear, an ETS is an investment. Teams must be trained to be proficient in its use to get the most out of their investment. Patriot3 developed its flagship ETS system, Mobile Adjustable Ramp System or MARS, in 2000. Since then, the MARS has become the most requested and utilized ETS by SWAT, elite Counter Terrorism and Special Forces units in the world. In fact, the MARS is the only ETS that has been "combat tested" due to its use in Iraq by US and Iraqi Special Forces during the Iraq War.

The primary reason is ETS evolution. Since 2000, Patriot3 has listened to the feedback of its ETS users and their requests for more and specific capabilities. Patriot3 listened and responded, developing the most innovative ETS capabilities in use today. Whether its rapid-deploying independently operated dual ramps, full length uninhibited side deployment, fast roping and rappelling or side assault capability; all are patented innovations of Patriot3 and all are requested capabilities by Patriot3's ETS end users.

VEHICLES

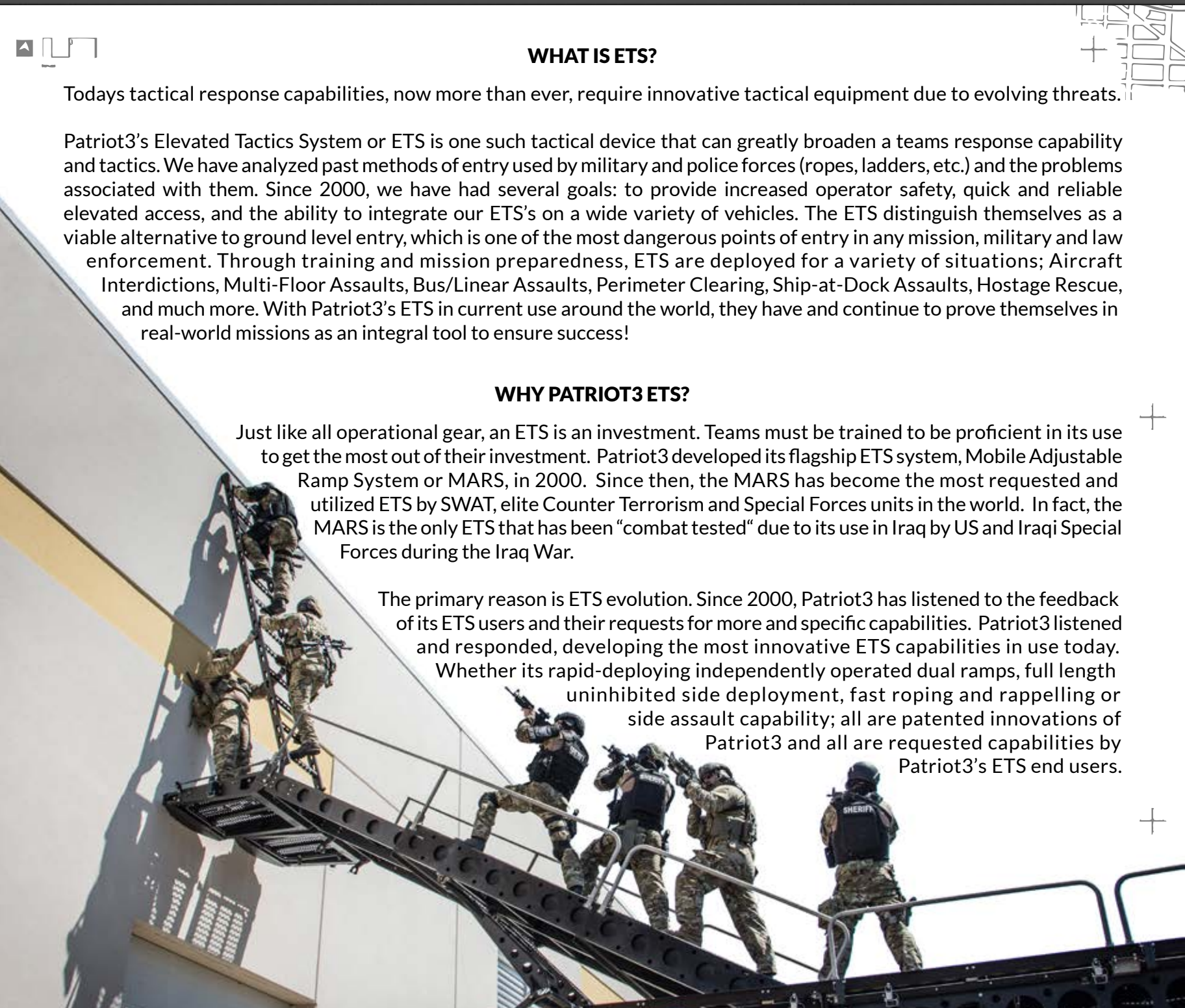
The most important question teams who want to purchase an ETS is - what host vehicle to choose to meet their mission requirements? The host vehicle must be able to carry the weight of the ETS while maintaining stability during driving operations around and over obstacles. The host vehicle must also have the power to handle the extra weight and close the distance to the target quickly. Patriot3 has reviewed many vehicles throughout the world to determine ETS host suitability. Patriot3's primary host vehicle is the Ford F550 with a turbo diesel engine. This host vehicle is extremely powerful, meets the necessary payload requirements, has a dually rear axle, and has unmatched capability of any host vehicle available on the market today.

Certain end users choose to purchase the F550 directly from Patriot3 with the option to have their fleet personnel trained by Patriot3 for maintenance and repairs. Other end users either do not desire or have the option to use the Ford F550. In these cases, because of the lack of available parts or support, other vehicles can be deemed to be a suitable ETS host vehicle by Patriot3. These vehicles may or may not include limited or full armor. Patriot3 will always do its best to find the best host vehicle to meet the end user's requirements with safety as primary concern. Proper front axle payload and overall stability are key safety points that are always initially considered with host vehicle selection.

Patriot3 has developed partnerships with many OEM and APC vehicle manufacturers around the world and has installed ETS's on over 20 different host vehicles.



Since the development of the MARS, Patriot3 has developed a variety of other ETS - the Liberator, ARC and OSR. Each is a single ramp system with slightly different capabilities and designed to be lighter weight than the MARS for mounting to smaller vehicles with limited payload ratings. These ETS's were developed to fit a variety of other end users' host vehicles.



MOBILE ADJUSTABLE RAMP SYSTEM (MARS)

MARS sets the world standard for elevated tactical entry and rescue systems. Its dual, side-by-side hydraulic ramps allow simultaneous elevated access at varying heights, providing an enormous advantage to police, military and anti-terror forces. The MARS has proven itself in many real-world police and military missions to include; emergency evacuations, dynamic entries and tubular assaults.



MARS
MOBILE ADJUSTABLE RAMP SYSTEM



MOBILE ADJUSTABLE RAMP SYSTEM (MARS)

1 Dual Extendable Hydraulic Ramps

The MARS features dual independently operated hydraulic ramps that permit simultaneous, multi-story entry. Each ramp features an internally stowed extension allowing for maximum reach and vehicle front-end clearance. The MARS is capable of reaching max height with full extension in less than 10 seconds.

2 Heavy Duty Construction

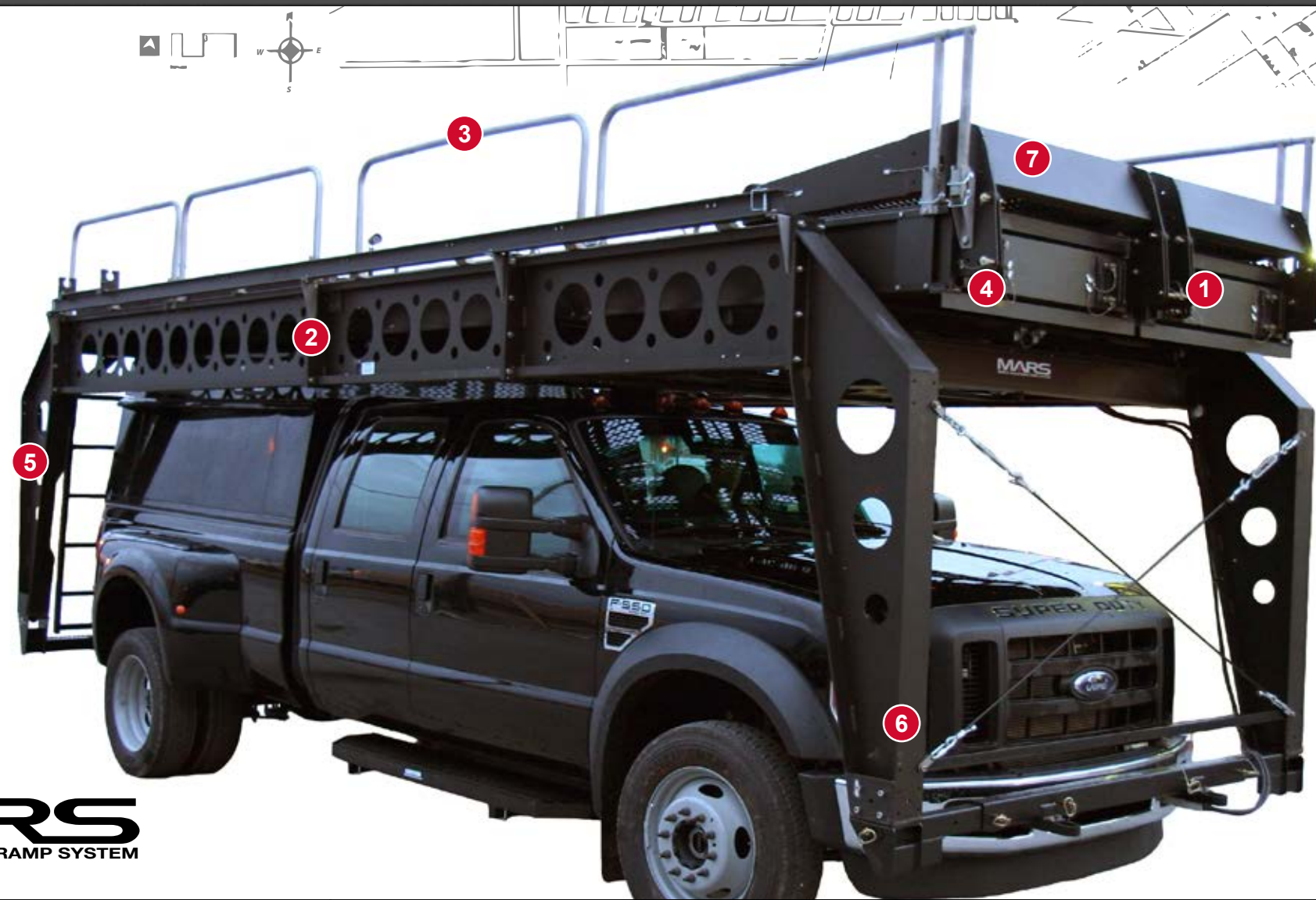
The MARS is built primarily from aircraft grade aluminum, high strength steel and stainless steel fasteners. All aluminum components are anodized and all mild steel components are powder coated for superior corrosion and weathering resistance. The truss frame spanning the vehicle supports all components of the system. The MARS ramp surface is constructed of Grip Strut® slip resistant, safety grating that exceeds US Federal Spec RRG-1602A requirements.

3 Safety Railing System

The Safety Railing System is a standard feature on all available ETS ramps. The railing is designed to reduce user risk during operations. All safety railings are stainless steel with a sand blasted textured finish for enhanced grip qualities. The railings fold down or can be quickly removed to reduce overall system height for transport and low clearance needs.



The MARS is adaptable to many non-armored and partially armored commercial vehicles as well as most OEM armored personnel carriers (APCs). Depending on the vehicle and the configuration, the MARS can often be designed for easy removal when not in use.



4 Accessory Mount Yokes

These anodized, solid aluminum brackets allow for optional equipment to be mounted to the front of the internally stowed extension ramps.

5 Rear Access Ladders

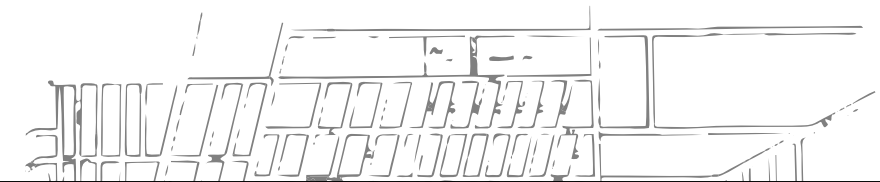
Two (2) ladders come standard with each ramp system. They are mounted to the rear of the MARS allowing access to the deck surface from the ground.

6 System Removal Jacks

System includes four (4) removal jacks. The MARS can be removed from or installed onto the host vehicle in approximately 5 minutes.

7 Multi-Angle Extension Ramp

The MER provides an additional 48" (1.2m) of linear deck surface to the end of each extension ramp. This offers the MARS ramps an 80" (2m) breaching capability. In addition, the MER can be pivoted to provide a semi-level surface throughout the entire motion of the MARS ramps. (Optional)



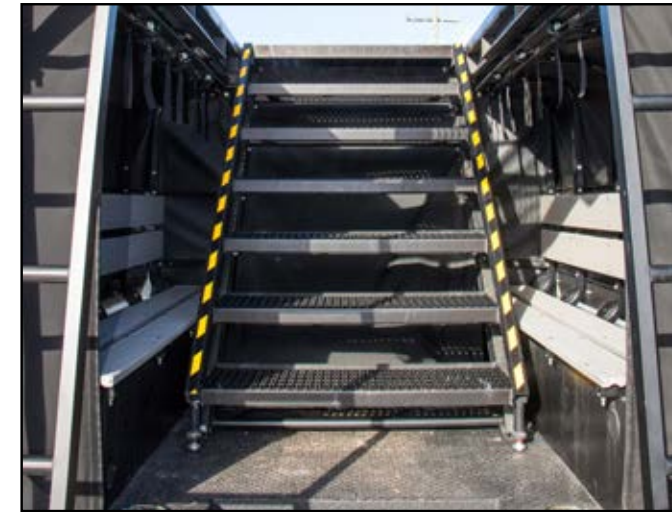
MARS REAR DEPLOYMENT DECK (RDD)

Patriot3's most recent compilation of capabilities is the MARS Rear Deployment Deck (RDD). This latest development in the MARS series offers all the standard and ancillary features in addition to a convertible ramp-to-stairway to facilitate rapid access to the ramps or evacuation from elevated targets, rear crew seating, and the Side Assault System (SAS), the only vehicle-based bus assault feature.



1 Rear Articulating Stairway

The RAS transforms the rear staging area into a high-speed access route for evacuation and assault purposes to and from the main ramp surface.



2 Saddle Box

The Saddle Box is a large equipment storage enclosure that can house various MARS components such as the Side Assault System (SAS) and the Fast Assault Suspension Tower (FAST). It is customizable upon request.



3 Crew Area Seating and Storage

Two (2) benches increase seating capacity for up to eight (8) additional persons to ride beneath the rear deck. Underneath these benches are four (4) lockable enclosures for extra storage of gear and equipment.



4 Rear Tactical Step

This two-tier staircase allows for easier access into the Crew Seating Area, Rear Articulating Stairway (RAS) and Rear Access Ladders. Each step is constructed from the same Grip Strut® material as the ramp decks for sure footing.

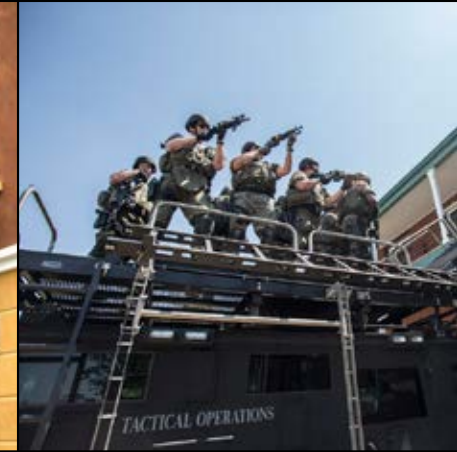


See pages 18-28 Additional Options and Accessories



LIBERATOR

Lightweight and easy to operate, the LIBERATOR single ramp Elevated Tactics System is designed to fit a wide variety of medium weight vehicles – both armored and non-armored. The LIBERATOR provides advanced assault and rescue capabilities to the host vehicle, without hindering any of the vehicle's features.





1 Single Hydraulic Ramp

The Liberator is a single operated hydraulic ramp that permits elevated entry and is capable of reaching max height in less than 10 seconds. For lightweight vehicles, the Liberator is available without hydraulics so that users may raise and lower the ramp manually.

2 Multi-Angle Extension Ramp

The MER comes standard with the Liberator and provides up to 48" (1.2m) of linear deck surface to the end of the ramp, offering enhanced breaching capability. In addition, the MER can be pivoted to provide a semi-level surface throughout the entire motion of the Liberator ramp.

3 Side Deployment Rails

Side Deployment Rails (SDR) are linear rails that mount to both sides of the ramp providing side deployment of Tactical Ladders. Each Side Deployment Rail system comes with two sliding ladder carriages. If desired, both carriages can be used on the same rail. Additional carriages achieve multi-ladder deployment. The SDR comes standard with the Liberator.

4 Safety Railing System

The Safety Railing System is a standard feature on all available ETS ramps. The railing is designed to reduce user risk during operations. All safety railings are stainless steel with a sand blasted textured finish for enhanced grip qualities. The railings fold down or can be quickly removed to reduce overall system height for transport and low clearance needs.

LIBERATOR



The Liberator along with all available ETS ramps are designed to not interfere with any of the host vehicles features, this includes access and 360° rotation of the vehicle's roof hatch/turret.



The Olden Operating Railroad Museum is the World



ARTICULATING RAMP CONVERSION (ARC)

The next generation in Elevated Tactics technology, the ARC is a single ramp system that can operate as a standard deck surface or as a stairway. The unique capability to transform into a stairway allows users to ascend and descend the ramp at steeper angles with ease while maintaining sure footing. Its design offers unprecedented capability and adaptability for medium weight vehicle platforms.

1 Articulating Stairway

The ramp deck surface of the ARC can be converted into a stairway from the down position by simply repositioning high strength pivot pins. In ramp mode and stairway mode the ramp can achieve a maximum incline angle of 30 degrees and 42 degrees, respectively.

2 Single Hydraulic Ramp

The ARC is a single operated hydraulic ramp that permits elevated entry and is capable of reaching max height in less than 10 seconds. Constructed mainly of aircraft grade aluminum, the ARC's single hydraulic ramp offers APC vehicles that have limited front axle weight capacity a lightweight ETS solution.

3 Multi-Angle Extension Ramp

The MER comes standard with the ARC and provides up to 48" (1.2m) of linear deck surface to the end of the ramp, offering enhanced breaching capability. In addition, the MER can be pivoted to provide a semi-level surface throughout the entire motion of the ARC ramp.

4 Side Deployment Rails

Side Deployment Rails (SDR) are linear rails that mount to both sides of the ramp providing side deployment of Tactical Ladders. Each Side Deployment Rail system comes with two sliding ladder carriages. If desired, both carriages can be used on the same rail. Additional carriages achieve multi-ladder deployment. The SDR comes standard with the ARC.

ARC



The RAID Elevated Tactics System is a complete package that includes a customized, heavy-duty jump out van with a Liberator, Side Assault System, and Side Deployment Rail. This versatile, multi-purpose tactical deployment and transport system supports teams of up to 10 people.

The OSR is designed to be a high access, lightweight Elevated Tactics System for MRAPs and other similar style medium-heavy weight vehicles that are either limited or cannot accept the weight of a MARS system.

1 Single Hydraulic Ramp

The RAID is a single operated hydraulic ramp that permits elevated entry and is capable of reaching max height in less than 10 seconds. The ramp is constructed of aluminum anti-slip Grip Strut® for maximum traction and stainless steel handrails span the length of the ramp for safety.

2 Jump Out Van Configuration

4x4 Extended Length Cargo Van with tactical seating for 8 operators. Comes with equipment storage boxes underneath each seat, standby and operational lighting, and roof mounted hand grabs.

3 RETRAX Running Boards

These running boards provide standing space for 3-4 team members per vehicle side, allowing for rapid deployment without the need to climb in/out of the vehicle. Attached to the underside of the vehicle, they can be easily deployed when needed or tucked away for normal driving.

RAID



OSR

OFF SET RAMP

1 Extendable Hydraulic Ramp

The OSR features a single hydraulic ramp with an internally stowed extension, allowing for elevated entry while maintaining maximum reach and vehicle front-end clearance. The OSR is capable of reaching max height with full extension in less than 10 seconds.

2 Ramp Deck Position

Single ramp can be positioned left, right, or center to accommodate the host vehicle roof layout.

3 Multi-Angle Extension Ramp

The MER comes standard with the OSR and provides up to 48" (1.2m) of linear deck surface to the end of the ramp. This offers the OSR ramps up to 80" (2m) breaching capability. In addition, the MER can be pivoted to provide a semi-level surface throughout the entire motion of the OSR.



Patriot3 Elevated Tactics Systems are packed with standard features. But that's just the beginning. We also offer a wide assortment of specialty equipment and add-ons that give teams decisive tactical advantages.

ICON LEGEND FOR ACCESSORIES PAGES:

Reference the icons below to identify which accessories are available and compatible with each ramp system.

- M** Mobile Adjustable Ramp System (MARS)
- A** Articulating Ramp Conversion (ARC)
- O** Off-Set Ramp (OSR)
- MR** MARS Rear Deployment Deck (RDD)
- R** Rescue Access Intervention Deployment (RAID)
- L** Liberator

Bull Bar and Winch Package

The Bull Bar mounts to the front of the vehicle, provides semi-frontal impact protection and permits the mounting of Go-Lights. The Winch includes a 100 ft. (30m) synthetic-rope, hook, and remote control. It has a pulling capacity of 9500 lbs. (4309kg).

M MR



Four Pump Hydraulic System

The addition of two (2) hydraulic pumps provides all four-ramp sections (2-main, 2-extension) with dedicated pumps. This provides for faster, simultaneous ramp operation and is a redundant backup.

M MR



Crew Area Canvas

The canvas shroud located over the rear crew area protects personnel from sun and other elements. It also obscures the crew members from public view and is black in color.

MR



FI
GL



Emergency Evacuation Stairway

The Emergency Evacuation Stairway (EES) is a compact, foldable staircase that provides an alternative access point to and from the top of the ramp surface. Once deployed, the EES allows for faster egress capability. Stainless steel handrails are included for safety.

M A O R L



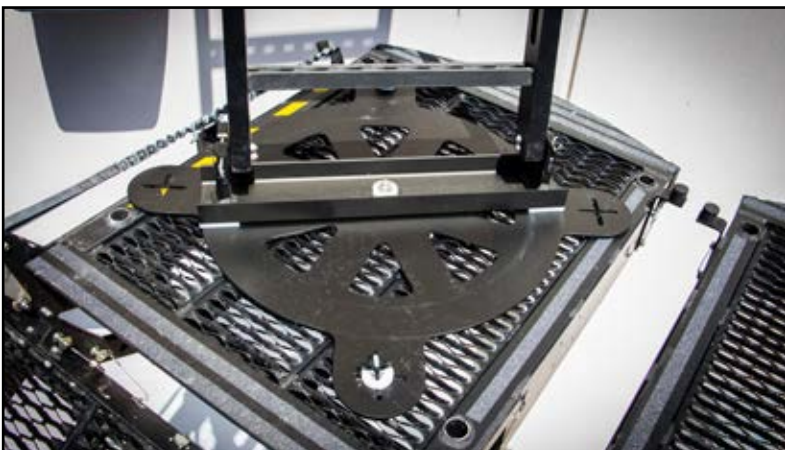
Combined Tactical Ladder System

The Combined Tactical Ladder System (CTLS) is a multi-segment expandable ladder enabling further reach beyond the capability of the ramp. The system utilizes specialized hardware to connect the segments together allowing for a ladder configuration that can extend to 30 ft (9.1m) and beyond if needed.



360° Tactical Turret

The Tactical Turret is a 360° rotating carriage base that allows users to deploy the CTLS at any angle. The base can be mounted onto any ramp's level Grip Strut® deck surface. Slider pads allow for effortless rotation to quickly adjust ladder direction and angle when approaching the target.



Extended Access Stairway

The Extended Access Stairway (EAS) mounts to the Multi-Angle Extension Ramp (MER) and provides stairway access to high elevations beyond the ramp (max height varies by host vehicle). The Extended Access Stairway is ideal for gaining entry to the upper doors of the B747 and A380 aircraft.



Side Deployment Rails

Side Deployment Rails (SDR) are linear rails that mount to both sides of the ramp providing side deployment of the CTLS. Each SDR system comes with two sliding ladder carriages. If desired, both carriages can be used on the same rail. Additional carriages achieve multi-ladder deployment.



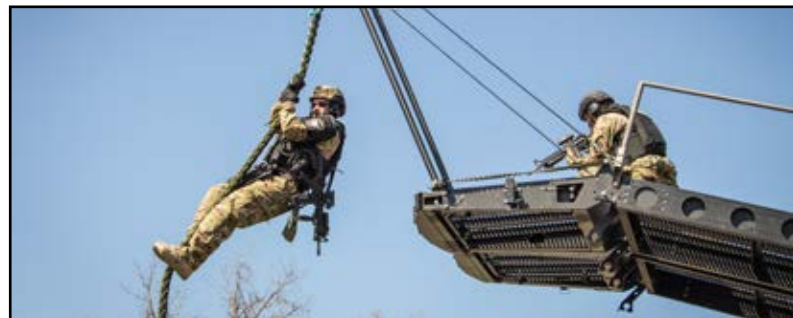
Side Assault System

The Side Assault System (SAS) is a height-adjustable personnel platform that mounts to either the driver or passenger side of the vehicle, positioning operators for bus/train and tubular assaults. Optimum height can be selected depending on target vehicle; city bus, school bus, double decker bus, etc.



Fast Assault Suspension Tower

The Fast Assault Suspension Tower (FAST) mounts to the Multi-Angle Extension Ramp (MER) and provides for quick deployment down a fast rope to gain access over fences, walls and other barriers up to 23 feet (7m) in height. A military grade, braided fast rope is included.



SAS and FAST Storage

When not mounted to the vehicle, the SAS and FAST can be disassembled and stowed in the saddlebox and lockable enclosures underneath the rear deck. Hard mounted fasteners ensure the equipment easily hangs quickly and stays secured.



RETRAX Running Boards

These running boards provide standing space for 3-4 team members per vehicle side, allowing for rapid deployment without the need to climb in/out of the vehicle. Attached to the underside of the vehicle, they can be easily deployed when needed or tucked away for normal driving.



Observation Sniper Bench

The Observation Sniper Bench (OSB) is a platform that allows operators an elevated view of the target from the top of the ramp. It can be rotated 360° manually and has full adjustability to compensate for ramp angle to provide a level shooting position. The bench easily attaches to the accessory mount on the front of the ramp or to the optional Side Deployment Rails. The rifle platform is 24" x 36" (60x91 cm).

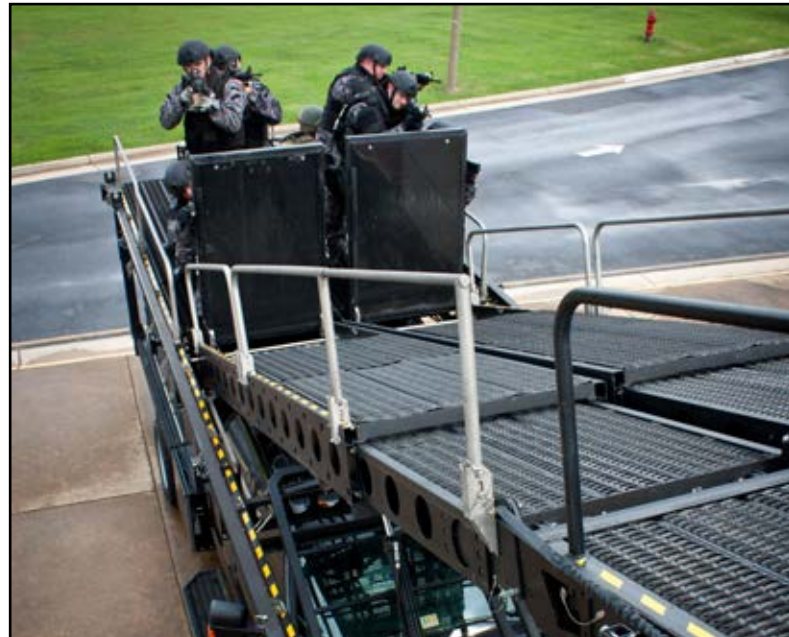
M A O MR R L



Ramp Ballistic Panels

The Ramp Ballistic Panels (RBP) are mounted to the lower end of the ramp deck surface. Spring assists allow the operator to easily pivot the panels upward to protect personnel or downward to give access to the ramp. The panels provide NIJ Level III threat protection.

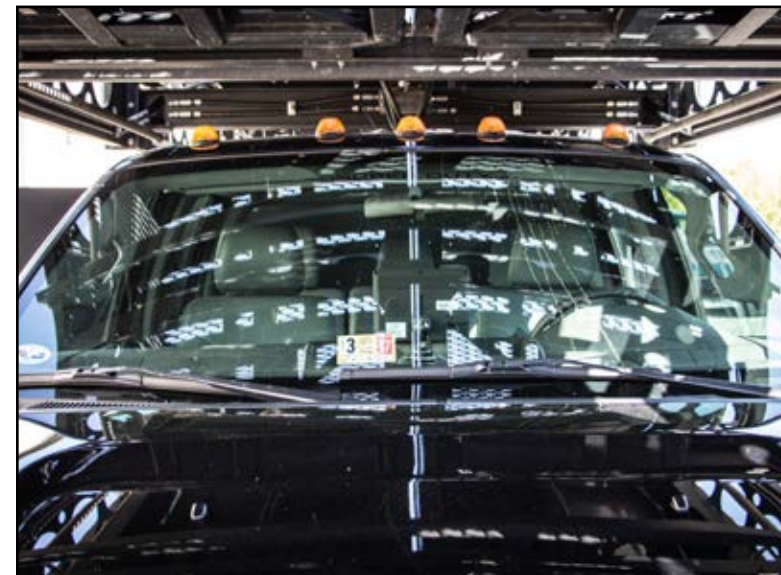
M O MR R L



Windshield Armoring

Patriot3 provides windshield armoring for increased protection for driver and front passenger. This option includes installation of curved "No-Spall" transparent armor windshield with an NIJ Level III threat protection.

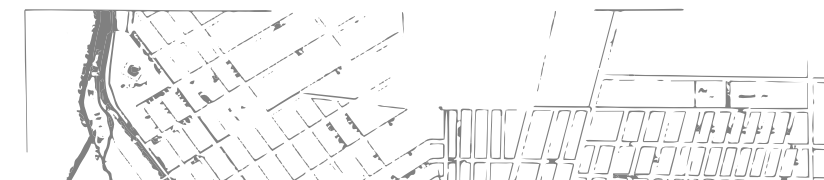
M A O MR R L



Run Flat Inserts

The Run Flat Inserts are installed and attached to the vehicle's wheels to counteract the effects of deflation in the event of air pressure loss. These inserts are able to support the weight of the vehicle if the tire(s) become deflated. The standard option includes the mounting of inserts to four (4) wheels, two (2) fronts and two (2) rears. Additional inserts can be installed on vehicles with more than four (4) wheels, including spare.

M A O MR R L



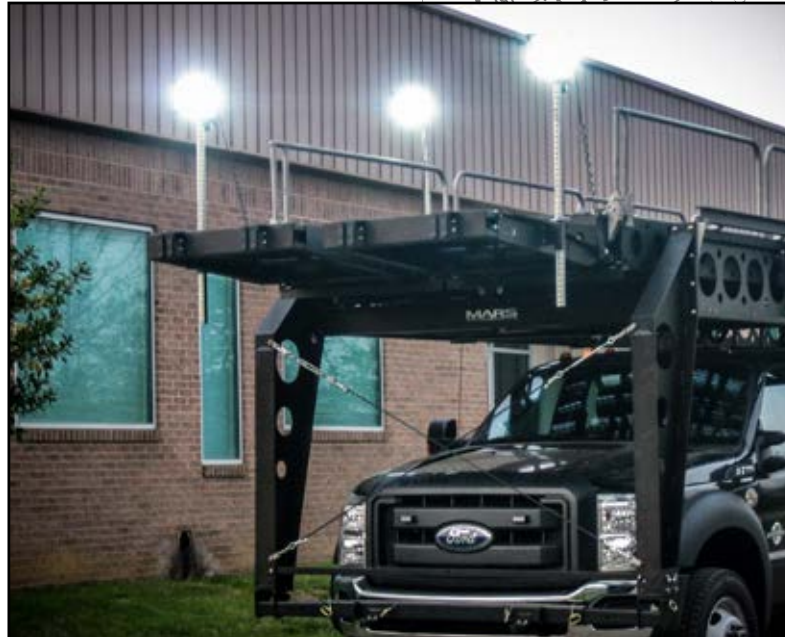
Dynamic Distraction Lighting

Dynamic Distraction Lighting (DDL) is used to distract, disorient and divert the attention of adversaries. The DDL system comes complete with high-intensity LED light heads mounted to height adjustable mounting poles. The system can be installed on the driver or passenger side of the vehicle and can also be used on the Multi-angle Extension Ramp (requires MSL option).



MER Supplemental Lighting

The MER Supplemental Lighting (MSL) utilizes DDL Light heads mounted to the left and right side of the MER(s), illuminating the target up close in either a steady on or flash pattern. MSL includes an electrical connector package and component mounts.



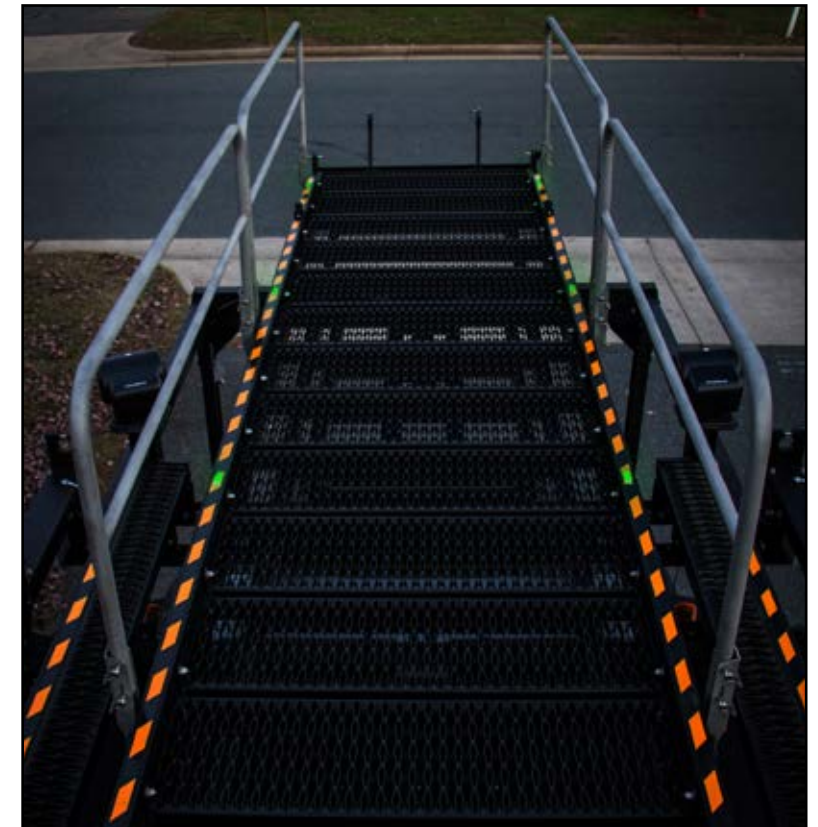
Situational Awareness Camera

The Situational Awareness Camera (SAC) is a wide-angle, closed circuit camera in a protective housing mounted to the rear of the ramp staging area providing the driver a full view of the operations on top of the ramp. It allows for critical decisions based on real time images.



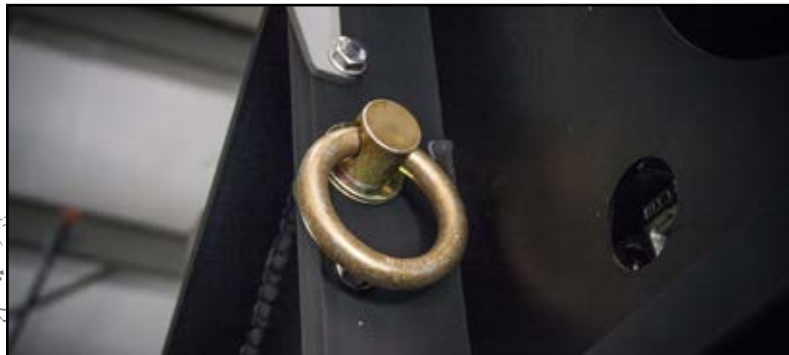
Ramp Illumination Markers

Ramp Illumination Markers (RIM) can be installed along the perimeter of the ramps edge to help guide users during low/no-light operations. The markers do not require electronic installation and can last more than 10 years.



Aircraft Tie-down Rings

The MARS is air transport certified by the US Air Force ATTLA Program. The six (6) Mil-Spec, 25,000 lbs. (111 kN) tie-down rings are attached to the underside of the vehicle chassis. Four (4) Mil-Spec, 10,000 lbs. (4536 kg) tie down rings are attached to the MARS.



Wireless Ramp Controller

Patriot3's newest high-speed option, the WRC provides for high-band wireless operation of the ramps from up to 300 ft. (91m) away. Utilizing a 902-928MHZ band and over 4000 receiver codes, the WRC is sure to provide uninterrupted wireless control.



THE COMPANY

Patriot3, an American owned Small Business began operations in Quantico, Virginia in May 2000 to provide specialized equipment for Special Forces and Law Enforcement worldwide. Today, Patriot3 has four divisions that include, Ballistic Products, Elevated Tactics Systems, Maritime and Kinetics.

Patriot3 employs a full staff of Engineers, Sales and Field Representatives, Office and Production personnel at their Corporate Headquarters in Fredericksburg, Virginia. Day-to-day operations are much the same today as they were in the beginning. Patriot3's dynamic staff enjoys meeting the challenges of development, engineering, manufacturing, marketing and training of unique, state of the art tactical and maritime equipment.

Patriot3 enjoys a reputation as a premier provider and authority in tactical operations and specialty maritime products, as well as being a leader in innovation and winner of the prestigious Spirit of NTOA, Small Business Administration's Exporter of the Year and GovSec Homeland Security Awards. Patriot3 has products in operation all over the world and has exported to more than 40 countries.

Patriot3 strives to offer next generation products developed for unprecedented mobility and ease of use that address their client's latest challenges. Patriot3 always has numerous new products in all stages of development as well as continuing to upgrade and refine products currently in use.

Patriot3 Associates are eager to work with operators to find simple, viable solutions for the challenges they encounter in the field as well as ensuring Patriot3 products remain cutting edge and a step above.



Patriot3 Maritime

Patriot3 offers a variety of innovative specialty equipment for waterborne operations. Our products are designed to enhance mobility, stealth and quick-strike capabilities in unforgiving environments.



Patriot3 Elevated Tactics

Patriot3 is the worldwide leader in Elevated Tactics Systems (ETS). Our vehicle mounted systems permit elevated access to buildings, aircraft, trains and buses; assisting special units and rescue teams to take control of difficult situations.



Patriot3 Ballistics

Patriot3 is a premier provider of lightweight, mobile ballistic products and shields. Our product line includes a wide range of patented personal protection shields, ballistic fragmentation systems and mobile ballistic barriers.



Patriot3 Kinetics

Patriot3's newest division, P3K, was established to develop and manufacture ballistic measurement and instrumentation for tactical, military and ballistic test range applications. P3K also performs research, design, development, integration and support of ground based radar and airborne sensor systems designed to operate in severe and demanding environments.

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