



**SOLUTIONS FOR OUTSIDE BROADCASTING**

# VEHICLE DESIGN



**Combining your needs and our expertise we design vehicles that are practical and versatile.**

Normally every vehicle design is unique as it must reflect the exact requirements of the team that will use it. However, there is also the accumulated combined know how over the years that we and our end-users have learned through hard experience. Our design philosophy is to bring both together so that the vehicle you receive not only reflects your needs but also several best practices that are widely accepted by broadcast professionals in the international community.

# SYSTEM DESIGN



**What makes a solution perfect is a good system design, and this is our core.**

We started our broadcast careers as System Design and Integration engineers. Every day was and still is a learning period for us as technology never stops advancing. We have designed and built from simple cut edit stations all the way up to full scale station automations, MAMs, PAMs and other that are yet to emerge.



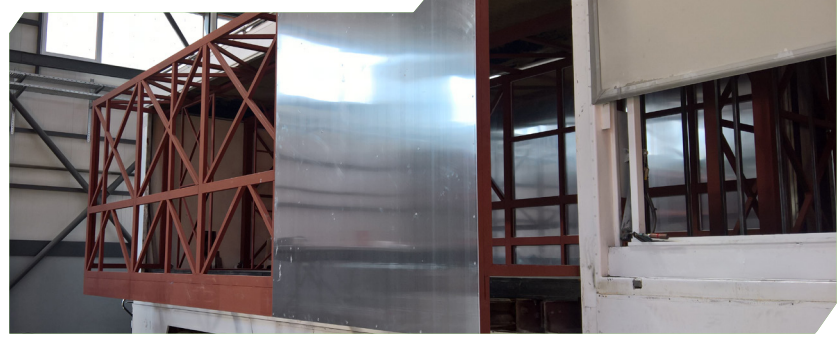
# COACH BUILDING



**This is the point we convert our designs into real objects. Well, OBVANs in our case...**

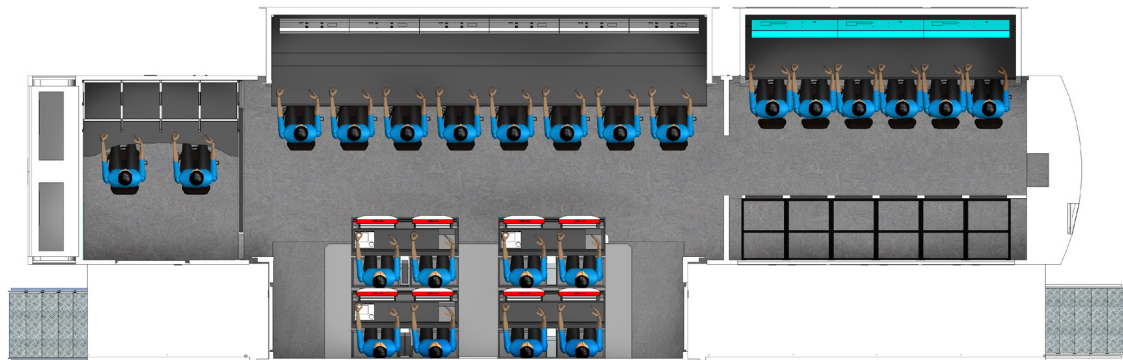
Coach building is not only a design challenge but also a manufacturing challenge. We need to create a vehicle that is robust, durable, easy to use, easy to maintain, fully ergonomic and very good looking. We do all our manufacturing process in house to control all these parameters and produce the results that will satisfy us and our end users. We can handle various coach sizes as our custom-built factory allows all road legal sizes (also sizes that are way beyond road legal) to be placed in one of the manufacturing and assembly lines.

# RENOVATION



**It is surprising what some love and care bring out from your old OBVAN...**

So many times, broadcast technology changed faster than how your OBVAN aged. New Technology comes with its own operational requirements and there is no guarantee it can be covered with your previous coach layout or air conditioning system. It can be a case that your coach frame might be partially damaged or just leaks. We can perform from simple repairs to very advanced restructuring of the coach itself and can save you time and money by protecting your existing investment.





Our MEGA series uses the 45-foot, low liner type semi-trailers that provide nearly 3 meters of usable height above the trailer chassis. As this is the longest legal road vehicle, the usual design approach is trying to double the operational space by having expansions on both sides.

Our unique design details allow all access related mechanical components like handrails, ladders, platforms, and awnings to be integrated into the coach itself reducing the items to store in the tender vehicle.

Another unique feature of our designs is having very short deployment time between road mode and production mode and vice versa. This reduces fatigue and increases productivity of the team.

Semi-trailer range, due to its size, is a category that is shaped according to its end users' requirements. So nearly each build is custom designed to fit the end user as a glove.

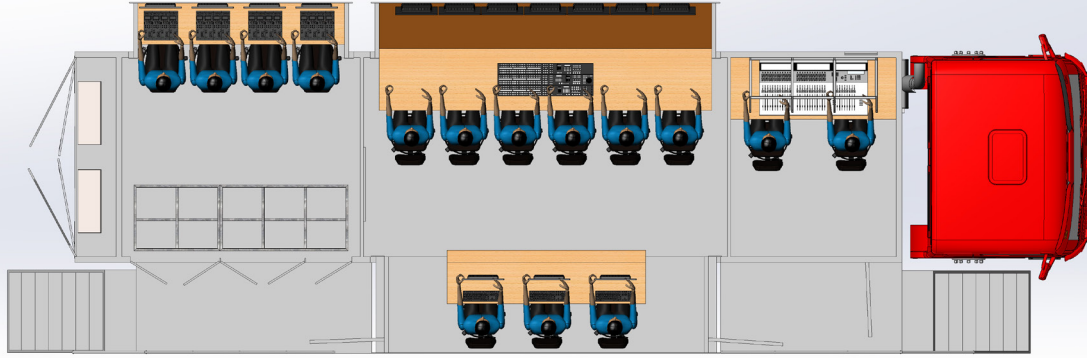
Having said that with its size our OBVANs from this class are used largely for live sports coverage with over 24 cameras, dual production control rooms, extensive rack space and extensive operational positions.

For us, this is our flagship category.

### Case Study : MEGA DXP MARK III



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Our OBTruck series range from 10 meters to 12 meters with single or double side expansions. Our latest build for this category is the double expanding OBVAN we built for A-TV which is one of the biggest TV stations in Turkey.

This OBVAN is designed and built mainly for live sports production. With full 4K end to end system it is one of the rare full 4K vehicles on the road.

We adopted our double expansion design from our Mega series to fit into a 12-meter rigid truck. The result is a very versatile OBVAN which can take on any job up to 16+ cameras.

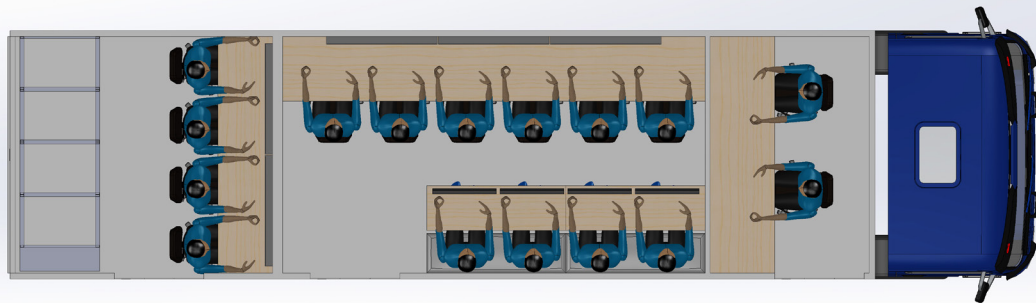
We also implemented an unusual interior finish where we used the same acoustic panels A-TV's new Media Center deployed in their control rooms. With high grade materials and classy wood finish this OBVAN is one to note thanks to its exceptional beauty.

It is filled with high tech functions to make the life of its users easy. Auto balancing leveling system, PLC controlled expansion system, constant monitoring of power system, advanced control of lighting systems are only some of the highlights we embedded into the vehicle.

On top of these, motorized cable drums, folding handrails, folding ladders all of which are stored on the OBVAN without needing to use tender vehicle.

### Case Study: A-TV / Turkey







Our MIDI series ranges from 8 to 10 meters, single side expanding and non-expanding trucks that are mainly built for versatility and robustness.

One such build is done for Wizja Multimedia for their project in Poland for a next generation TV platform.

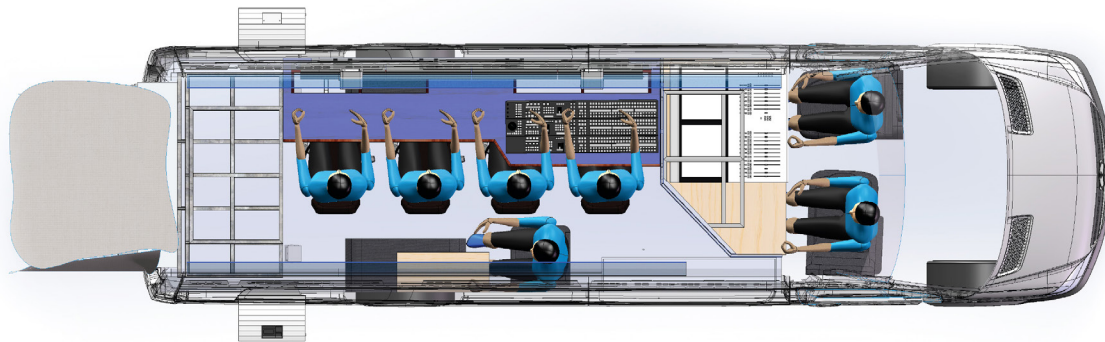
This OBVAN is based on Mercedes Atego 2124 truck which is chosen for its cost performance. The final design has three independent operational space and a total of 16 operator positions distributed to these operational spaces.

The upper body is our signature aluminum composite structure which is impervious to rust and decay. All doors and cabinet doors are also made from aluminum with aluminum honeycomb panels increasing their rigidity. All access doors are equipped with fire grade panic bars that latch on 3 points.

The power system is fully compliant with IEC 60364-7-717 safety standard as well as accommodating improved conditions of UEFA over the 7-717.

### Case Study: Wizja Multimedia OB2 / Poland









## MiniOBVan (all in one)

Designed from ground-up to be able to undertake both live and post production requirements. The MINI OBVAN has dedicated separate video and audio production rooms with independent access doors and sound insulation in between.

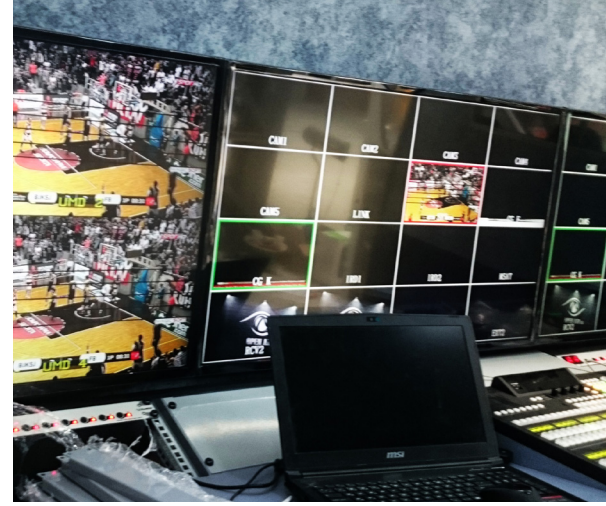
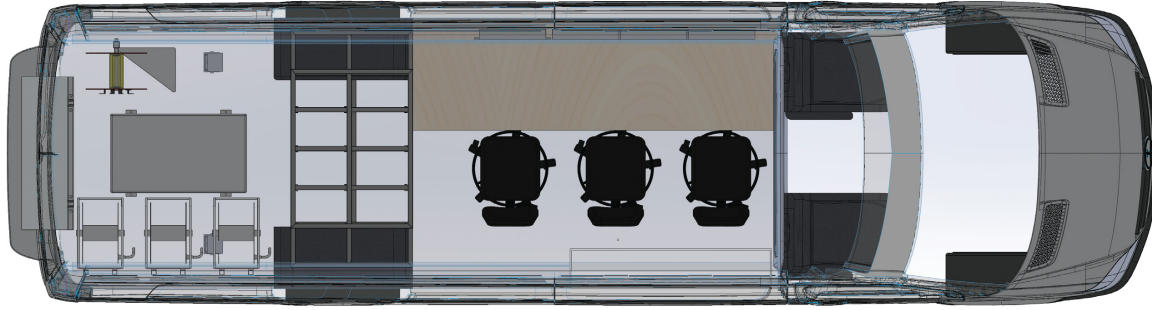
This radical design allows end user to handle live and postproduction activities without compromise on audio side just like an OBVAN based on a truck.

The design improvements continue with integrated three phase 20 KVA alternator to the vehicle engine saving lots of space and reducing weight while delivering more power. Our unique design allows a total of 7 operator positions inside the vehicle. Thus, you can have dedicated positions for Director, Video Mixer, REC/Playback, CG and Engineer in the video production room and Audio Mixer and Sound Assistant in the audio production room.

The space dedicated to Engineering allows 6 main cameras with the option to go up to 8 cameras. Thanks to our radical design and careful selection of generator and air conditioner we can fit TX antenna from 120 cm up to 150 cm diameter as well as a smaller air return antenna. Together with its existing production capabilities this vehicle allows you to send only two vehicles to a broadcast site. Your MiniOBVAN and your staff carrier. Our ALL-IN-ONE solution provides groundbreaking cost performance ratio.



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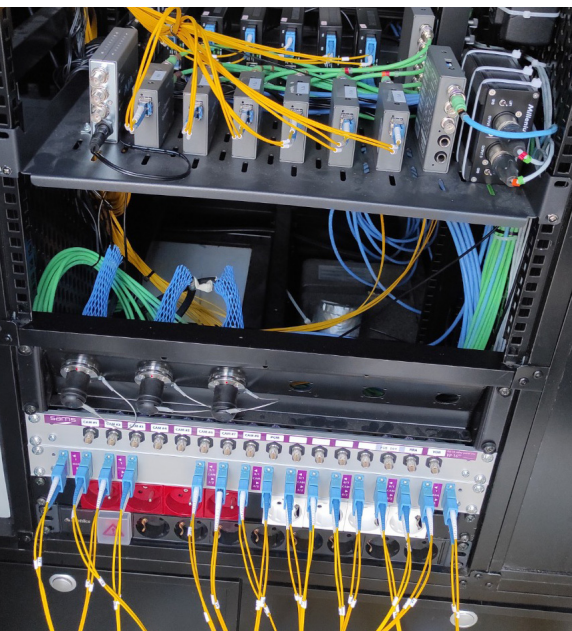
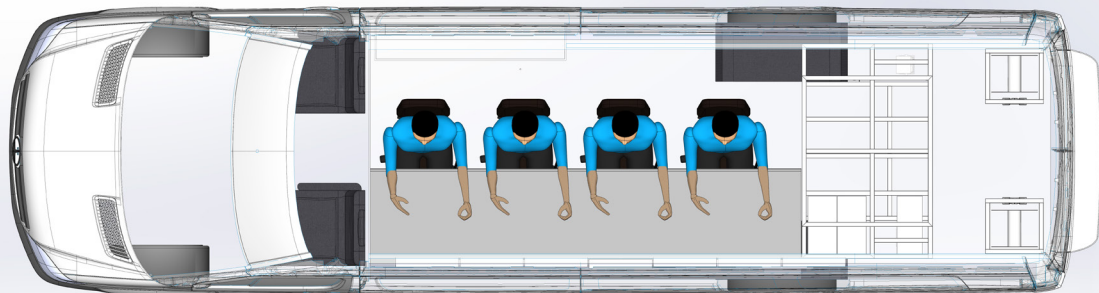




Our classical DSNG design follows the long-established best practices for the uplink vehicles. Our base unit is a panel van with high roof and 5,000 kg load bearing capability. We divide the interior into two by placing the equipment racks directly above the wheels on the back. The area on the back is used for a super silent generator and fixed and portable cable drum storage. When the portable cable drums are removed you can easily access back of the racks.

The operational area allows 3 operators to fit side by side on a large production desk. So, you have space for an engineer for camera and uplink controls, video mixer and audio mixer operators. The wall carpets below the desk area are chosen from highly durable materials and there are fastening hooks and clamps so that additional equipment can be loaded into the DSNG vehicle.







As technology advances it creates changes in the way we do things. This is more true for the TV stations with good IT know how. Arena Channels Group from Serbia created a light version of the OBVAN that they named as Remote Production Vehicles rather than OB-VANs. In this concept the vehicle provides a base point for cameras and microphones. All camera feeds and mic lines are converted to data streams and send to main facility via fiber links. The connection is bidirectional and thus all operational crew of the production control room stay in the dedicated PCRs in the main facility.

The vehicle itself is based on Mercedes Sprinter 517 CDI long frame to provide enough space for both core equipment as well as the cameras, tripods, mics and such.

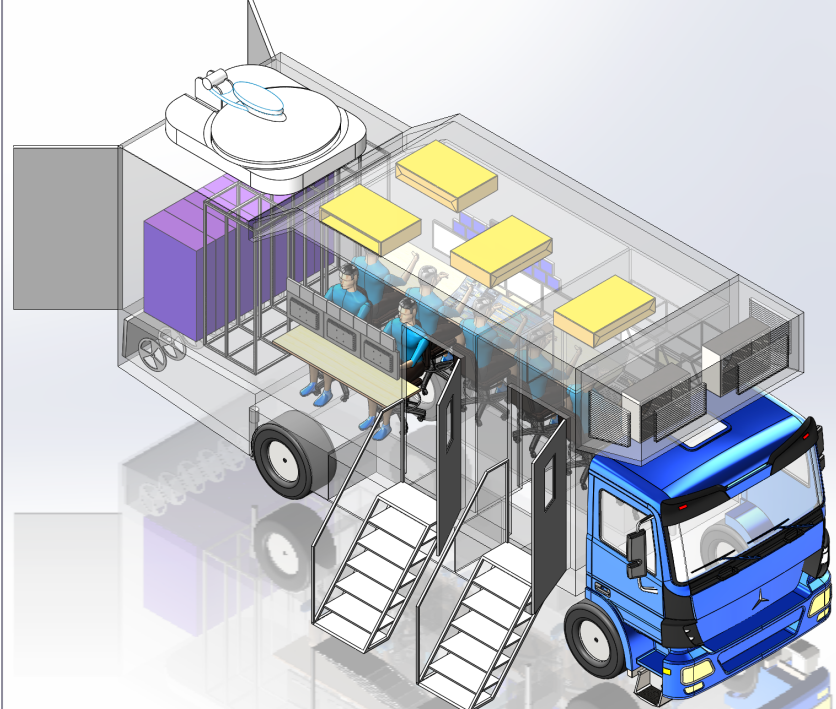
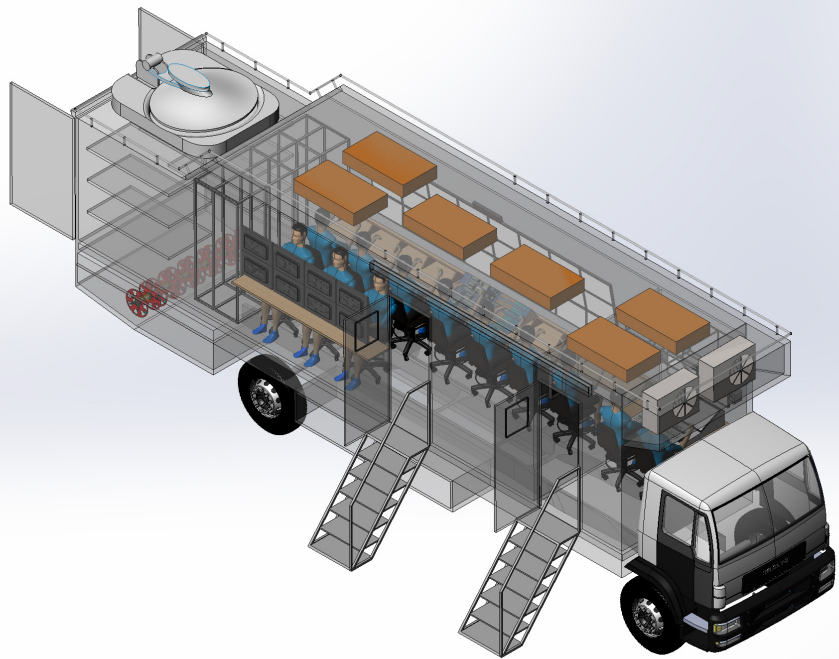
We have used vehicle engine powered alternator with 10 kVA power output as the generator solution for this vehicle.

As always this vehicle follows IEC-60364-7-717 safety standards.

## Remote Production

### Case Study: Arena Group / Serbia





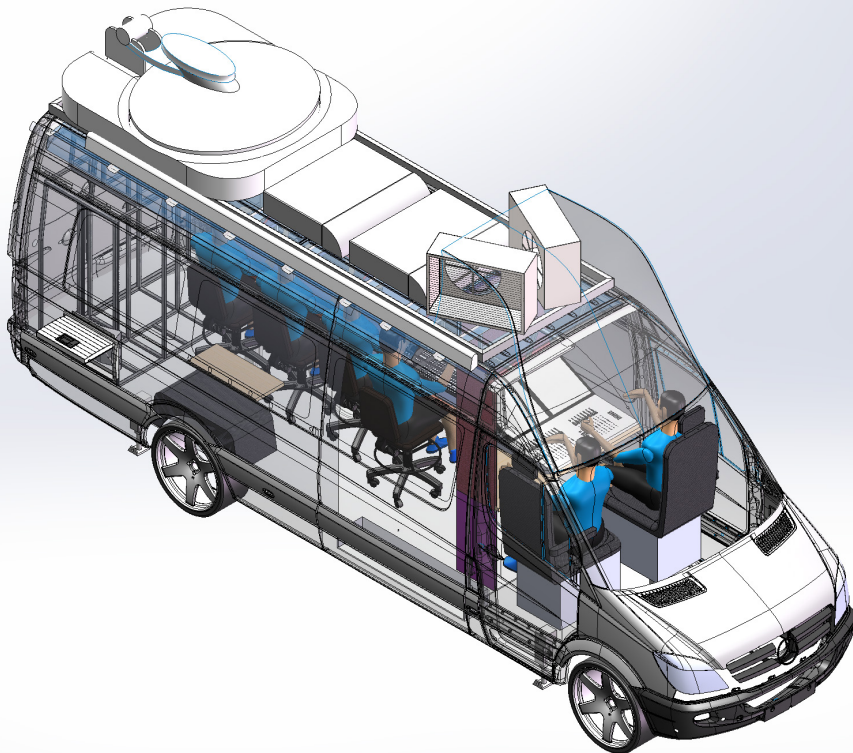


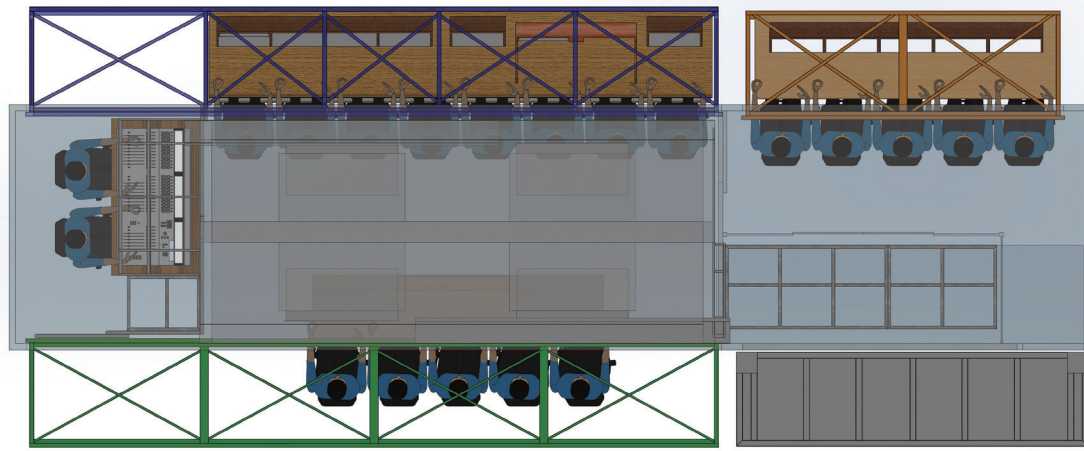
Our ALL-IN-ONE concept is for end users who want to have a smaller number of vehicles to handle remote production requirements.

The main characteristic of this concept is to have sufficient storage space and a place to have TX antenna. When requested we can generate ALL IN ONE solution on all our four main categories.

The design method is simple, listen to the production requirements of the end users first. Then identify the vehicle size based on that description and then pick a vehicle one step above it.

These vehicles usually will incorporate generators as well thus targeting to be fully self-sufficient. On larger versions we usually include a lift at the back for easy loading and unloading of broadcast equipment.







In today's world where costs are increasing while the income is decreasing one key policy should be to protect your own assets. Maybe more so than before.

A good example of doing this can be found in OBVAN renovation projects for us. We welcome your old OBVAN and can bring it to a state that it can serve you another 5 to 10 years. We have completed several renovation projects where the replacement ratio of the job ranged from 30 % all the way to 80%.

As long as the base vehicle and its chassis is salvageable, we can bring your old OBVan back to its glorious days.



# Mega DXP Mark III

New OBVAN from SRTEK! This unit is the 3rd generation of our Mega series double expanding semi-trailer based OBVANs with a lot of improvements over previous generations nearly in all aspects from AC to operational space to internal cosmetics.

# SRTEK

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