



MESSENGER 6000 SERIES

RETROFIT SOLUTIONS

Retrofit Information Questionnaire

To better understand your needs, please fill-in the following information sheet as best as you can. This will allow SES America to accurately prepare a quote estimate. You can use this form for one type of signs, if you have more types, please use another form.

Thank you!

Contact Information	
Contact name and title	
Organization	
Physical mailing address	
E-mail	
Phone #	
Fax #	

Existing Sign(s) Description	
Total number of signs in your system	
Total number of signs to be retrofitted	
Sign Manufacturer	
Manufacturer Model number	



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Year of installation (approximate)	
Type of housing: Front, Rear or Walk-in	
Model Type and technology (example: 3 lines of 15 characters Fiberoptic or Flip disk)	
Display Array type Character, Line or Full) matrix	
Character height in inches	
Pixel Pitch (distance between each pixel) in inches	
Controller location (ground cabinet, pole mounted or inside sign housing)	
Flashers (Yes/No) If yes, how many? What size and type (LED or bulb)	
Temperature sensors? (Where and how many)	
Auxiliary message panel?	
Is there 120 or 240 VAC available in sign housing? If so what capacity is the circuit? (ex: 120V @ 15A)	
Does the sign have a UPS? Is it working? Would you like to replace it?	
Access to the sign; Integrated ladder, portable ladder, bucket truck?	
Are Lane closures required to access the sign (if so, how many lanes?)	
Existing Sign(s) Communications	
Current communication protocol (NTCIP?, version ?)	
Transmission rate (2400, 9600 BPS)	
Name/supplier of Control Center software (proprietary?)	
Are you interested in replacing the Central Control Software?	



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Communication medium between sign and control software (fiber, dial-up, wireless, IP, twisted pair, etc.)?	
Existing Sign(s) Conditions	
General sign housing condition (perfect, minor damage, bad)	
Any water leakage?	
Any corrosion?	
Any problems with doors, locks, cable entries, fans, lights, etc?	
Front face polycarbonate: Any problems (scratched, yellowed)?	
Front face adhesive: If applicable, any problem with black adhesive? Is it peeling?	
Cabling inside the Sign: General condition? Can we reuse power cables?	
Cabling between Controller and Sign: General condition? Can we re-use communication and power cables?	
What is the condition of the controller cabinet? Does it need any repairs?	
Existing Sign(s) Available Documentation	
Can you provide General documentation?	
Can you provide Wiring diagrams?	
Can you provide Mechanical/Dimensional drawings?	
Can you provide Parts description (especially display boards, fans, lights)?	
Can you provide Component Layout drawings?	
Can you provide pictures of sign and site locations (up and down stream)?	



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Retrofit requirements/options	
Replace existing fans?	
Repair internal sign lighting system?	
Upgrade sign to NTCIP?	
Add an internal sign temperature and humidity sensor?	
Add an external temperature sensor?	
Add or replace amber LED flashers (Qty 2 or 4?) Size (8" or 12")	
Provide redundant Power Supply system?	
Provide WiFi access to sign?	
Would you prefer that we replace the front face windows?	
Upgrade modem, communication speed, or type?	
Would you like to purchase some spare parts with the retrofit?	
Would you like to have a battery backup on the controller/modem to communicate during power failures?	
Will you require training on software or field hardware? If so how many people and days?	
Do you need Maintenance software or Central software?	
Would you like Central Computer or Laptop Computer hardware?	
Would you like an extended warranty package?	
Are you interested in Preventative Maintenance services?	



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Miscellaneous information for retrofit	
Who maintains the signs? DOT or Contractors? Name and address if different than above:	
Signs Locations (indicate County, Interstate or road number and approximate Miles) Example: I95 NB @ Hope St. (mp 225.2)	
Maintenance problems or any other miscellaneous/pertinent information:	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

Please return this form to SESA:
Fax : 401-232-7130 or e-mail : sales@sesamerica.com