

Delaware Department of Transportation
Questions and Answers
Real-Time Shelter Signs
Agreement 1804
November 4, 2016

Q #	Question	Answer
1	Can you provide concept drawings of bus shelter LED/LCD system displays (Single-sided & double-sided)?	A preliminary draft design will be posted on the contract advertisement site here: http://bids.delaware.gov/bids_detail.asp?i=4103&DOT=N
2	Does Federal Funding program mean the outdoor transit display should meet FTA (Federal Transit Administration) Made-In-USA compliance?	Yes. In accordance with 23 U.S.C, 313 and 23 CFR 635.410, all iron and steel materials permanently incorporated into this project will be produced in the United States and that all manufacturing processes involving these materials will occur in the U.S, except that a minimal amount of foreign steel or iron materials may be used, provided the cost of the foreign materials does not exceed 0.1 percent of the total Contract cost or \$2,500.00, whichever is greater. If such minimal amount of foreign steel is used, the Contractor shall maintain a record of the costs to ensure that the allowable limit is not exceeded. This documentation shall be presented to the
3	Can you confirm that there is a source for GTFS and GTFS-realtime data feeds? Are these available for review as we prepare our response?	Yes. Existing source data internal to DelDOT is GTFS/GTFS-RT-based, and will be presented to vendors via JSON feed post-processing. Our IT department will provide required data for each requested Stop in JSON format (or possibly other format if necessary) after post-processing and combining of GTFS/GTFS-RT feed data.
4	Can we receive a copy of the bidders and/or planholders list in order to see if there is value teaming up with another company interested in the solicitation RFP?	There is no bidders or planholders list.
5	The display size of 22”H x 37”W x 8.5”D; is this a set value of not to exceed or is there any room for a slightly larger size?	Due to current design this is a set value. DelDOT would like to understand product offering constraints this NTE creates with proposals. DelDOT, at its sole discretion, may be able to make minor adjustments.
6	Is this project and display builds required to comply with Buy	Yes refer to #2.
7	The initial 6/8 displays; are they single face or double face?	DTC has not determined the type (single face or double face) of signs. Decision will based on best product offerings.
8	Price sheet only stated LED and LCD. Can price sheet be altered to show single and double face LED and LCD?	Please see Appendix B, Revision 1 for the adjustments requested.
9	Is there any information, pictures, drawings and/or renderings that can be shared regarding the install of the displays? Is there a specific height the display will be installed from and/or viewing distance	A preliminary draft design will be posted on the contract advertisement site here: http://bids.delaware.gov/bids_detail.asp?i=4103&DOT=N

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10	Is there any specific character height to be displayed, characters per line and lines of information required to be displayed at any given	No, the department is open to all offerings with respect to these specifications, as long as ADA requirements are met.
11	It is mentioned in the requirements that displays to have 110 Power outlets. Is it the request that a AC power outlet be available with the displays build? Please clarify usage.	To clarify, shelters will be equipped with 110 power. The requirement is that the signs be able to utilize a 110 power outlet.
12	Can price sheet be altered to list mounting brackets for the displays; or is it assumed that brackets would be supplied within sign costs?	Mounting Brackets and all other hardware should be included with the sign price.
13	Assume shipping the displays to site is to be included in the prices?	Shipping should be included in the sign price.
14	Can verbiage be changed in contract for allowances towards a LCD might be different in years of the contract due to obsolesces or other?	Vendor proposals should make note of this circumstance. At this point, the department is not certain which type they will choose. It is understood that the vendor will be required to meet industry standards for the LCD product.
15	Are any of the displays faces or display entirely to be in direct	Yes, this is possible. Surrounding buildings and trees are a factor also.
16	Is there any timeline from NTP and/or when funding is available when the initial displays will be required?	Spring of 2017
17	When is final acceptance? Is this upon delivery or commissioning/ install?	Final acceptance to be provided post-field testing. At their sole discretion, the department will consider alternatives for acceptance should significant delays occur.
18	Maintenance and Support Services/ Warranty. Is there an interest of providing rolling stock of parts local for the agency and training the personal at DeIDOT to service their own units?	The department is willing to consider this option if proposed.
19	As for the Audio ADA sound option for the signs; is this to be included in the displays costs or a separate line item to be priced? Or supplier is just to make note that displays offered must have capabilities of adding audio / sound equipment for ADA?	Separate line item to be priced. Yes, all displays offered must have this capability.
20	If Audio is to be priced as part of the suppliers offering, a. How is it envisioned for sound to be activated? E.g. Push Button to be supplied by vendor with offering; annunciation during certain bus	Please make proposals comply with current ADAAG standards.
21	that signs are required to be IP based. Then further into the requirements it is requested that signs be able to be cellular data and modems and/or fiber optic communication: a.) Is vendor to supply a 4G cellular modem and the Verizon service with the display offer? and b.) If fiber optic coms is required; can you define the type? E.g. Single Mode, Multi Mode.	Any modems would be supplied by the state. Fiber will be single mode, tip with an SC coupler at both ends.
22	When is the system expected to go live?	Spring of 2017
23	Can the DOT provide more information on the anticipated installation locations of both the LED and LCD signs?	The initial install address is Rodney Square, 1100 N Market St, Wilmington, Delaware, 19801. The square is in the center of 10th, 11th, Market & King Sts.

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24	Will there be Ethernet access at each site location?	If necessary, there can be ethernet at each site location.
25	Can DOT please provide a sample set of GTFS data?	<p>A sample set of finalized data will be provided at a later date, however, the below draft structure is provided for reference. The department reserves the right to change this draft format/data, but will work with vendors to ensure proper integration. Keep in mind that the GFTS feed will be processed internally prior to presentation as a JSON or like feed:</p> <pre> { stopID: "60", stopName: "10th St Rodney Sq" routes: "1, 2, 6, 10, 11, 20, 21, 28, 33, 35, 38, 39, 40, 45, 48, 54, 55, 59, 301, 305", sheltersigndata: [{ route: "Route 1 (Philadelphia Pike)", predictedTime: ["10:01"] scheduledTime: ["10:00"] }] </pre>

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25		Destination: ["Christiana Mall"] }, { route: "Route 2 (Concord Pike)", predictedTime: ["13:05"] scheduledTime: ["12:50"] Destination: ["Tri-State Mall"] },]
26	What system is currently installed on DOT buses that provides Automatic Vehicle Location information?	Disclosure of existing Automatic Vehicle Location system will be provided, at the latest, upon award.
27	What information needs to be displayed on the LCD's? a.) Is the DOT interested in implementing a Content Management System which would allow advertising, news, arrivals predictions etc. to be	DelDOT is interested in all available options within the parameters of our overall requirements.
28	What size LED's does the DOT wish to see priced out?	Priority of pricing should be dictated by NTE size requirements provided. Also, please see Q&A #5.
29	What size LCD's does the DOT wish to see priced out?	Priority of pricing should be dictated by NTE size requirements provided. Also, please see Q&A #5.
30	Section 2.6 references the fact that DTC will provide a GTFS feed for determining schedule adherence while in Appendix A of the supporting document DTS references in section 1B that the supplied the feed will be a JSON. Could we please request a sample of the feed that will be provided in order for us analyse the information contained within the feed prior to submitting a proposal? Alternatively, if DTS could provide a URL so that we can view the	Refer to #3 & #25. A URL will be provided at a later date.
31	Could DTS please confirm who is the supplier of the existing real time fleet tracking system that will be generating the real time data	Refer to #26,

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32	In Reference to Page 6 Section 3.1: "Furthermore, the letter must attest to the fact that no activity related to this proposal will take place outside of the United States " a)Could you please clarify this referenced sentence? Does this mean that each and every component to the system must have been manufactured and designed in the USA?	In accordance with 23 U.S.C, 313 and 23 CFR 635.410, all iron and steel materials permanently incorporated into this project will be produced in the United States and that all manufacturing processes involving these materials will occur in the U.S, except that a minimal amount of foreign steel or iron materials may be used, provided the cost of the foreign materials does not exceed 0.1 percent of the total Contract cost or \$2,500.00, whichever is greater. If such minimal amount of foreign steel is used, the Contractor shall maintain a record of the costs to ensure that the allowable limit is not exceeded. This documentation shall be presented to the Department upon request.
33	Is it sufficient to be Buy America Compliant?	Refer to #32.
34	Delaware, but utilized in different countries, and may have been written in another country, will it be acceptable, as long as it is hosted within the USA?	See State of Delaware DTI standards as referenced in the RFP document. Also consider code has to be maintained, which implies subsequent coding outside US.
35	We're trying to rationalize between the "Data Input" requirement in Appendix B - Requirement 1B against the "Adherence Schedule" section 2.6 of the RFP. They seem to provide conflicting	Data internal to DelDOT is GTFS/GTFS-RT-based, and will be presented to vendors via JSON feed post-processing. Also, refer to #25.
36	Can you provide access (or an Interface Control Document) to the JSON AVL feed for real-time and scheduled data?	Currently, no ICD document was prepared on JSON AVL for real-time and scheduled data. JSON (or like) data which Vendor needs for consumption can be placed on External and Internal sites, each Stop will have its own unique ID, and based on STOPID vendor can acquire data for consumption.
37	Is Buy America applicable for this project?	Refer to #2.
38	Can you provide a drawing, model, and/or picture of the structure the signs will for where the signs will be installed? This will help determine the design requirements of the mounting brackets.	A preliminary draft design will be posted on the contract advertisement site here: http://bids.delaware.gov/bids_detail.asp?i=4103&DOT=N
39	RFP Functional Requirements -2A - ADA Standards – Can the audio be pushbutton activated?	Please make proposals comply with current ADAAG standards.
40	Data and Hardware Requirements - 6B – Hardware – Is safety glass acceptable?	Safety is glass acceptable as long as sunlight or heat from sunlight does not interrupt the normal functioning or performance of the signs while also satisfying other requirements as specified in the RFP.
41	Data and Hardware Requirements - 13B – LED Color – How many different colors?	No, the department is open to offerings with respect to this specification, as long as all other stated requirements are met.
42	Data and Hardware Requirements - 15B – Power Outlet – Does each display need to have an internal receptacle?	DTC is fine with internal or external receptacle as long as they meet safety and other requirements as specified in RFP. Also, please refer to answer #11 for more information regarding power outlet.
43	Data and Hardware Requirements - 25B – Display lines – How many lines of text?	No, the department is open to offerings with respect to this specification, as long as all other stated requirements are met.

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44	height? This is needed to determine compliance with ADA requirements.	A preliminary draft design will be posted on the contract advertisement site here: http://bids.delaware.gov/bids_detail.asp?i=4103&DOT=N																
45	Environmental Requirements - 1D – Environmental – Please clarify the meaning of ‘minimal to none’.	See overall environmental requirements and draft shelter design provided for more information.																
46	Environmental Requirements - 5D – Atmospheric Pollutants – Please provide specifics.	Environment is a typical urban area. See #23 for geographic reference to install location.																
47	Functional requirements 1A states “Signs shall be capable of displaying the destination of the route, route name, and estimated arrival times (either countdown time or 12 hour format time)”. Can you provide the number of characters necessary for this information, and a sample of the text to be displayed? (i.e 4 characters for route number, 12 for route name, and 6 for arrival time.)	<p>Currently the department envisions the following (subject to change or possible adjustment where necessary):</p> <p>3 characters for Route number, 20 character Route Name (can be shortened/adjusted as necessary), and 6 characters for arrival time.</p> <p>1 Philadelphia Pike 1:50PM (if we are using 12 hour format time)</p> <p>1 Philadelphia Pike 13:50 (if we are using 24 hour format time)</p> <p>1 Philadelphia Pike 2 min (if we are using countdown time)</p> <p>The department prefers use of destination name to replace Route Name, and display of a countdown if current arrival time is less than 10 min from the current time. 12 hour format also preferred over 24 hour. See below graphic.</p> <table border="1" data-bbox="1136 771 1829 911"> <thead> <tr> <th>Route</th> <th>Destination</th> <th>Predicted Time</th> <th>Scheduled Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ChristianaMall</td> <td>13:05</td> <td>13:00</td> </tr> <tr> <td>1</td> <td>Tristate-Mall</td> <td>13:20</td> <td>13:10</td> </tr> <tr> <td>301</td> <td>Dover</td> <td>No Status</td> <td>13:20</td> </tr> </tbody> </table>	Route	Destination	Predicted Time	Scheduled Time	1	ChristianaMall	13:05	13:00	1	Tristate-Mall	13:20	13:10	301	Dover	No Status	13:20
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