

STREETMAN (DHYAN) PRE-DEPLOYMENT SCOPE CHECKLIST
(Centrally-hosted StreetMan Projects where the Customer is Responsible for Installation)

Project Information

Customer Name: _____

Project Location: _____

Date: _____

Portal Mapping Options

The StreetMan portal can utilize a customer provided site map (static mapping) or a StreetMan provided street based mapping database (dynamic mapping) similar to that used in a portable GPS device or Google Maps. For typical C&I projects, a customer provided map will allow for more detail, since parking lots and private roads are not shown in the licensed mapping database. The customer provided map must be an original work of authorship and be in one of the following formats: JPEG, GIF or PNG. Larger projects that include multiple streets may want to utilize the dynamic mapping, which allows zooming capabilities.

Which mapping option are you requesting? ☐ Static ☐ Dynamic

If using static mapping, which type of file will the image of the site plan be provided in? ☐ JPEG ☐ GIF ☐ PNG

Group Control

Group controls will affect the reporting, scheduling and network formation capabilities of. Scheduling and control functions may not process when lights are connected to group controls. Plus, some malfunctions will not be detected when fixtures are wired behind group controls. Networks will reform based upon node availability, which may limit data transmission for nodes in the vicinity of the group controlled nodes. Therefore, StreetMan recommends that all group controls be removed prior to installing StreetMan on the fixture.

Will you have any group lighting controls on your lighting system? ☐ Yes ☐ No

Do you want to be alerted of any fixtures that are connected to a group control? ☐ Yes ☐ No

System Voltage

StreetMan nodes are designed to operate on most electrical systems. Three different models are available; 120-277 volts, 347 volts or 480 volts. The StreetMan gateways are designed to operate on 120, 208, 240 or 277 volts. Operating the equipment on voltages outside of their intended nominal voltage range could damage the equipment.

What voltages do you utilize for your lighting system? ☐ 120V ☐ 208V ☐ 240V ☐ 277V ☐ 347V ☐ 480V

Also, lighting systems utilizing different voltages for the photocontrol and fixture, i.e. photocontrol wired 120 volts and the fixture wired 240 volts, will cause the StreetMan node to report a wiring issue.

Do you utilize different voltages for fixtures and photocontrols? ☐ Yes ☐ No

Do you want to be alerted on the portal of this wiring scheme? ☐ Yes ☐ No ☐ Not Applicable

Load Monitoring

The nodes are designed to monitor the power consumed by a single fixture and report problems based on the operating characteristics of that type and wattage fixture. Additional loads connected through the photocontrol receptacle could cause StreetMan to fail to diagnose or to misdiagnose a problem with a fixture.

Are there any situations where additional loads are connected to a fixture? ☐ Yes ☐ No

Please describe:

Decorative Fixtures

The StreetMan nodes will mount in any standard fixture, plus many decorative style fixtures, that have a NEMA locking receptacle. In preparation for the deployment please provide the type of fixture/photocontrol combinations that you have on your system, as StreetMan will not be compatible with certain fixture/photocontrol combinations. If you have concerns about specific combinations, please discuss with a StreetMan technical service representative.

What types of fixture/photocontrol combinations are currently installed on your system? (Check all that apply)

- | | |
|---|---|
| ☐ External NEMA locking | ☐ Internal NEMA locking |
| ☐ External w/ metal cupola | ☐ External w/ plastic cupola |
| ☐ Button style | ☐ No photocontrol |

Gateway Options

StreetMan offers two backhaul methods for gateways; Cellular and Ethernet. If the Ethernet backhaul is chosen, the applicable IP information must be provided. Please refer to the appropriate "Gateway Installation Instructions" for additional information.

What method will be used to connect the gateways to the internet? Select Cellular or Ethernet, below. If Ethernet is requested, please provide the additional details requested.

☐ Cellular

- Pole mounted gateway with universal mount
- Articulating bracket can accommodate mounting brackets of 1.0-3.0 inches
- Cord grip on 6' power lead with NEMA twist-locking power tap
- ☐ Domestic Data Plan (AT&T Coverage)
- ☐ International Data Plan (Additional charges may apply)

☐ Ethernet

- Building mounted gateway with universal mount
- Articulating bracket can accommodate mounting brackets of 1.0-3.0 inches or can be installed with anchor bolts (not supplied)
- 1/2" flex conduit connector with 10' power lead w/o termination

Firewall Settings: StreetMan gateways connect to two (2) possible external IP addresses. Since either of these addresses may be used by a gateway, we recommend allowing communications to both. Settings should allow both TCP and UDP communications through port 30000. Communications are initialized by the gateway. Installations with multiple gateways behind a router will not need to enable port forwarding. This is handled by the routing tables used in the router.

Server 1: abconnect.dhyan.com:30000

Server 2: abconnect1.dhyan.com:30000

Additionally, StreetMan gateways will periodically check their time with an internet time server at 0.pool.ntp.org. The response to this query is returned on Port 123 and should also be opened on the firewall. Alternatively, an internal NTP server can be specified. If so, no external NTP queries will be issued.

☐ Static IP (Use optional gateway page for projects with multiple gateways)

- IP Address for the StreetMan Gateway: _____._____._____._____
- IP Address for the default gateway (router IP): _____._____._____._____
- Network Mask: _____._____._____._____
- Primary DNS Server: _____._____._____._____
- Secondary DNS Server: _____._____._____._____
- Internal NTP Server (If required): _____._____._____._____

☐ Dynamic IP (DHCP)

- Internal NTP Server (If required): _____._____._____._____
- Is DHCP router on the 10.1.0.x subnet? ☐ Yes ☐ No

Activation Process

The activation process consists of entering an asset GPS location, unique StreetMan device identification and customer defined asset attributes. This information is usually collected electronically, through the use of a handheld PDA, GPS device and a bar-coded booklet ("Activation Kit"). In some cases, it may be more efficient to manually activate the nodes with the customer providing an electronic map and database file (StreetMan will provide the required format) of the asset locations and attributes.

Activation Process to be used

☐ Electronic

☐ Manual

Loaned Activation Equipment

If an Activation Kit is not purchased separately but is provided as part of on-site Project Management Services, Customer may use the Activation Kit during the period of deployment. The Activation Kit must be returned to StreetMan promptly following activation of the Products. If the Activation Kit (or portion thereof) is destroyed, damaged, lost or stolen, Customer must, at the option of StreetMan, either replace or repair the Activation Kit at Customer's sole cost. Customer acknowledges that the Activation Kit will remain the property of StreetMan and StreetMan does not transfer any rights in the Activation Kit to Customer.

Fixtures with Dimming Control

StreetMan has the capability of controlling the dimming functionality of LED fixtures, plus some HID and fluorescent fixtures, with the proper equipment. The fixtures must be equipped with a 0-10v input control interface, plus a StreetMan dimming control module (DCM). Both of these items are supplied by the fixture manufacturer at the time of purchase. The customer should confirm with the fixture manufacturer that the specific dimming fixture that the customer is planning to use has been pre-approved for use with a StreetMan DCM. In addition, StreetMan will need to modify the activation process to allow for scanning the barcodes of both the StreetMan node and the DCM.

Does the project include dimmable fixtures?

☐ Yes

☐ No

Time Zone Settings

In order to accurately display the hourly data and execute schedules/events, the time zone setting for the deployment area and whether Daylight Savings Time is observed must be provided.

Time Zone Setting: ☐ Eastern ☐ Central ☐ Mountain ☐ Pacific ☐ Other _____

DST Observed: ☐ Yes ☐ No

Attributes

During installation of the StreetMan nodes, attributes for each lighting asset can be entered into the StreetMan System. StreetMan provides the use of the attributes listed below as options. Please choose the attributes that should be included for this project.

	☐ Pole ID	☐ Pole Style	☐ Pole Type	☐ Pole Classification	☐ Pole Material
	☐ Pole Color	☐ Pole Model	☐ Foundation Type	☐ Mounting Height	☐ Electrical Feed
Scannable Attributes:	☐ Fixture Type	☐ Fixture Mfg	☐ Fixture Model	☐ Fixture Install Date	☐ Fixture Voltage
	☐ Lamp Type	☐ Lamp Wattage	☐ Lamp Install Date		

Signatures

The information provided above is accurate and complete to the best of my knowledge.

Customer Contact Name: _____ **Date:** _____

Contact Phone Number: _____

Contact E-mail Address: _____

Signature: _____

Network Information For Projects With Multiple Gateways

Information Required for Each Gateway

Gateway #1 Description (i.e. Location): _____

- IP Address for the StreetMan Gateway: _____
- IP Address for the default gateway (router IP): _____
- Network Mask: _____
- Primary DNS Server: _____
- Secondary DNS Server: _____
- Internal NTP Server (If required): _____

Gateway #2 Description (i.e. Location): _____

- IP Address for the StreetMan Gateway: _____
- IP Address for the default gateway (router IP): _____
- Network Mask: _____
- Primary DNS Server: _____
- Secondary DNS Server: _____
- Internal NTP Server (If required): _____

Gateway #3 Description (i.e. Location): _____

- IP Address for the StreetMan Gateway: _____
- IP Address for the default gateway (router IP): _____
- Network Mask: _____
- Primary DNS Server: _____
- Secondary DNS Server: _____
- Internal NTP Server (If required): _____

Gateway #4 Description (i.e. Location): _____

- IP Address for the StreetMan Gateway: _____
- IP Address for the default gateway (router IP): _____
- Network Mask: _____
- Primary DNS Server: _____
- Secondary DNS Server: _____
- Internal NTP Server (If required): _____

Gateway #5 Description (i.e. Location): _____

- IP Address for the StreetMan Gateway: _____
- IP Address for the default gateway (router IP): _____
- Network Mask: _____
- Primary DNS Server: _____
- Secondary DNS Server: _____
- Internal NTP Server (If required): _____

Gateway #6 Description (i.e. Location): _____

- IP Address for the StreetMan Gateway: _____
- IP Address for the default gateway (router IP): _____
- Network Mask: _____
- Primary DNS Server: _____
- Secondary DNS Server: _____
- Internal NTP Server (If required): _____