

DS1 Installation Premises Ready Considerations-Copper Service Delivery

To help assure customer premises readiness, below is a list of some of the items to be considered in preparing the premises. Please note that anything in this document that is identified as being the responsibility of the customer must be provided or performed by you the customer, at no cost to Verizon.

DS1 Service delivery may be via copper or fiber/electronic facilities at Verizon's discretion. The items below are for copper service delivery. Note that in many situations the circuit may be delivered to the building on fiber facilities to a main telco room or other common space and then extended to the demarc on the customer's premises on Verizon-owned copper facilities. If the customer requests an extended demarc, the customer must provide the path for the extension and appropriate time and material charges will apply for the extension. See Cable Path and Conduit section below.



Environmental Factors

- The customer must provide an environment suitable for Verizon's cable and equipment
- Dust free environment.
- Adequate lighting.
- Space for a cabinet, rack, or wall mount.



Cable Path and Conduit

- The customer must provide a cable path.
- Verizon will utilize common building telecom riser shafts where available. The customer must perform any necessary core drilling or other premises preparation work.
- If conduit is required for Verizon to place facilities, it must be provided by the customer. Verizon usually does not require intra-building conduit for installation of its cable.
- Verizon will co-occupy a conduit provided by the customer or building owner/manager that contains the telecommunications cable(s) of other person(s) only if the customer provides a spare, roped, sub-duct for Verizon's cable.
- Verizon will place riser-rated cable that meets applicable fire and electrical code requirements. When a customer-provided cable path includes air plenum space, Verizon will install plenum-rated cable and additional charges to the customer and an extended installation interval will apply. (As an alternative, the customer may provide metallic conduit through the air plenum space for Verizon's use, which will avoid the need for installation of plenum-rated cable.)



Power (as needed)

- The customer must provide a 120V AC, 20A, convenience outlet and/or a dedicated outlet for local powering needs, if any (i.e. loopback devices, etc.).

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Ground

- The customer must provide adequate grounding capability.
- Mounted at the top or bottom of the backboard, to provide a single point ground for all telecom equipment at the backboard (specifications will be based on the forecasted number of circuits, etc.).

Backboard

- The customer must provide any backboard that is needed for the installation. The backboard must be sized to securely mount a Verizon NIU (typically 4-position universal unit mounted sideways, generally 9" width x 5 3/4" height x 4 1/4" depth). If the customer anticipates additional circuits, the backboard must be sized accordingly.

Service Demarcation

- The standard interface for the demarcation with Verizon's equipment will be an RJ48X jack in the proposed cabinet, bay, or wall mount space.

Premises Access and Use

- The customer must provide Verizon access to all portions of the premises for which Verizon needs access in order to install Verizon's conduit, cable and equipment. The customer must obtain building owner/manager permission for installation of Verizon's conduit, cable and equipment.
- The customer must provide a clean/hazard free telco room.

Occupancy Charges

- The customer must provide space, electric power and cable paths for Verizon's use. Verizon will not pay any charges for space, power, or cable paths.

Other Requirements

- The foregoing list of requirements for premises readiness is not intended to be a complete list of premises readiness requirements. Other requirements may apply.
- Applicable Verizon tariffs and contracts apply. In the event of a conflict between this document and a Verizon tariff or contract, the Verizon tariff or contract will control and supersede this document.

DS1 Installation Premises Ready Considerations - Fiber Service Delivery

To help assure customer premises readiness, below is a list of some of the items to be considered in preparing the premises. Verizon may ask that the customer perform a site survey with Verizon prior to installation of Verizon cable and equipment. Please note that anything in this document that is identified as being the responsibility of the customer must be provided or performed by you the customer, at no cost to Verizon.

DS1 Service delivery may be via copper or fiber/electronic facilities at Verizon's discretion.
The items below are for fiber service delivery.



Environmental Factors

The customer must provide an environment suitable for Verizon's cable and equipment.

➤ Temperature and humidity:

Ambient Temperature (degrees Fahrenheit):	Short-term (4 hours or less)	35 - 100
	Recommended	65 - 80
% Relative Humidity:	Short-term (4 hours or less)	20 - 80
	Recommended	30 - 55

- Dust free environment.
- Adequate lighting.
- Space for a cabinet, rack, or wall mount based on the service(s) ordered. Specific requirements will be determined at the site survey.



Cable Path and Conduit

- The customer must provide a cable path.
- Verizon will utilize common building telecom riser shafts where available. The customer must perform any core drilling or other premises preparation work that is required.
- Verizon usually will install rigid plastic tubing in which Verizon will install Verizon's fiber optic cable. Verizon usually does not require intra-building metallic conduit for installation of its fiber optic cable.
- If the customer or the building owner/manager requires metallic conduit, the conduit must be provided by the customer.
- If metallic conduit is to be used, the required conduit specifications are 2" electrical conduit with pull rope or tape installed. Conduit routes must be designed with gradual bends (bend radius should be a minimum of 15 times the diameter of the cable to be placed) and a maximum of two 90° bends or 180° of total bends between pull boxes. The customer must provide to Verizon engineering drawings or as-built documentation if the route is extensive and/or complex.
- Verizon will place riser-rated cable that meets applicable fire and electrical code requirements. When a customer-provided cable path includes air plenum space, Verizon will install plenum-rated cable and additional charges to the customer and an extended installation interval will apply. (As an alternative, the customer may provide metallic conduit through the air plenum space for Verizon's use, which will avoid the need for installation of plenum-rated cable.)