GOSHEN MLP HIGH SPEED INTERNET GLOSSARY

CAT6 = Category 6 ethernet wiring connecting ONT to Router. CAT6 supports network connections up to 10 Gbps within a premise, providing the ability for future network speed enhancements beyond 1 Gbps.

Cold Drop = An Exterior Service Drop that is installed without interior installation or Internet service.

Customer Connect = connection from the distribution network at the "curb" through the inside installation of the premise. This Includes exterior service drops and interior installation.

Demarcation Point = The point where the town-owned and maintained network meets the customer's wiring and devices. For a Cold Drop, this is the Network Interface Device (NID). Once interior installation has been completed, the demarcation point is the Optical Network Terminal (ONT).

Distribution Network = fiber from the hub past every premise in town.

Exterior Service Drop = fiber optic cable from the distribution network at the "curb" to the outside of the premise. In most cases, a service drop will consist of a single fiber cable connected at one end to a Multiport Service Terminal (MST) located along the aerial distribution fiber and connected at the other end to a Network Interface Device (NID), normally attached to the outside wall of the premise.

Gbps = gigabits per second. A measure of the amount of data that can be transferred through a network connection in one second. 1 Gbps is approximately 40 times faster than the fastest satellite Internet available in Goshen, 100 times faster than 4G wireless, 300 -500 times faster than the Verizon DSL connections some Goshen residents have, and 20,000 times faster than a typical dial-up connection.

Goshen MLP Network = fiber optic network and hub connecting premises to the Internet in conjunction with Westfield Gas and Electric's Whip City Fiber service.

Hub = Central telecommunications shelter which brings together all of the town's fiber optic cables and houses electronics to connect them back to the Internet.

Interior Installation = fiber from the outside to the inside of the premise, interior wiring, installation and configuration equipment inside customer's premise. This includes an optical jumper cable that connects the NID to an Optical Network Terminal (ONT) device, normally located in the basement of the premise. The ONT will typically be connected to a router located on the first floor of the premise. The router will be supplied either by the Internet Service Provider (ISP)—Westfield Gas and Electric's Whip City Fiber (WCF) service—or the customer. Goshen MLP recommends use of the router provided by the ISP, since this will enable the ISP to remotely troubleshoot the service and to resolve most service issues without a costly visit to the home.

MST = Multiport Service Terminal. Device at the "curb" that allows drop fibers to be plugged into the distribution network.

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Network Extension = an extension of the distribution network onto private property. This is required if poles on private property are more than 170 feet apart. It involves spanning the poles with a stranded steel support cable and brackets, attaching network distribution fiber cables to the support cable, and terminating it with a Multiport Service Terminal (MST) on a pole near the premise(s).

NID = Network Interface Device. Device on exterior of premise that connects exterior drop fiber to an optical jumper.

Optical Jumper = fiber connecting the NID to the ONT.

ONT = Optical Network Terminal. Optical/electronic device inside premise that translates between the optical (light) connection on the fiber network and the electronic network connection needed by computers.

Router = electronic device inside premise that allows multiple wired ("Ethernet") and wireless ("WiFi") computers and devices to be connected to the network.

Standard Drop = drop cable from an MST on the distribution network to a NID on a premise along the recommended path designed by Goshen MLP.