

Islesboro Municipal Broadband

Contractor Briefing

June 1, 2017 at ICC

100% Successful Installs

- Over 675 Signed Up
- *Readiness* is the Subscriber's Responsibility
- Island Contractors = *Readiness* Army
- Documents & Handouts
 - This Slide Deck
 - Current Signup List & Known Issues
 - *Getting Ready* Document w/Conduit Specs
 - At Town Office & Online

Who Does What?

- WaveGuide
 - Construction Phase Installs & Scheduling
 - Resolve Service Drop Design Issues
 - Available to Subscribers to Bid On Conduit Work
- Town Office
 - Tina's Master List of Who is Signed Up (Tina is the Expert)
 - Is It a Data Issue or an Issue On the Ground?
 - Subscriber Agreements, Payments,...
 - List of Contractors Briefed
 - Starting Point for Escalation Process to Asses/Resolve Issues
 - Documents
- Sewall – Construction Oversight
 - Readiness Verification and Issues Resolution
- Island Contractors
 - Army to Help Prepare & Verify Subscriber Readiness
 - Conduit Work & Other Premise Preparations

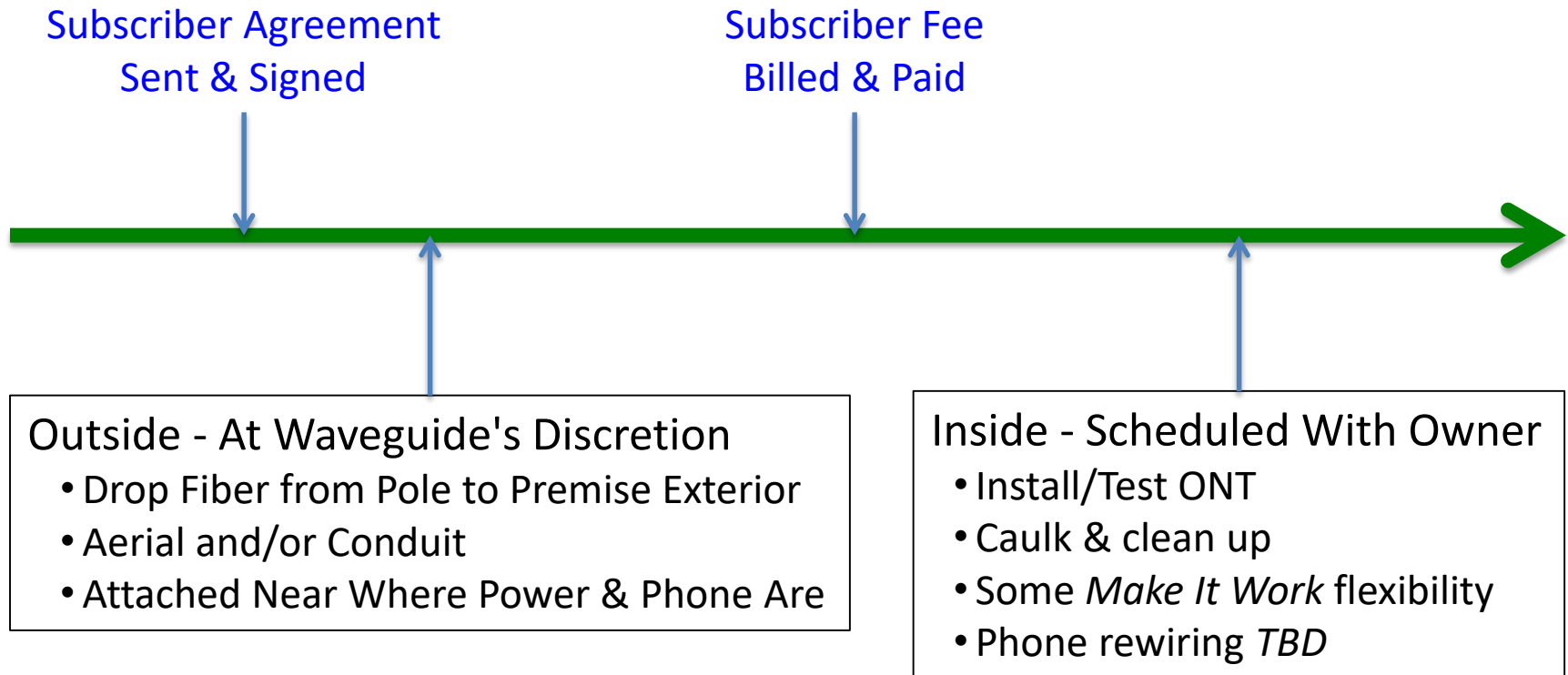
Contractors

- Close to the Subscriber & Know the Properties
- Are Any Conduits Good to Go?
- Will the Typical ONT Installation Work?
- Status, Exceptions & Issues to Tina!
 - IMB@townofislesboro.com
 - Property Info, Diagrams, Notes, Issues,...

Construction Phase Installation Policy

- Be Ready When Waveguide Is
 - Two Tries Max & Then You Will Pay for Install
- Town Pays to Install One Subscriber per Property
 - Working Fiber + *Optical Network Terminal* (ONT)
 - Additional Drops - Subscriber Pays Time & Materials
 - Estimates from Town Office & Prepaid - Subscriber Fee is per ONT
 - No Other Interior Wiring, Configuration, Digging,...
- Signed Subscriber/Owner's Agreement
 - Property Access, Fee Schedule, Who Does What,...
- GWI Optional Phone Plan
 - Residential & Business Plans, Multiple Lines but One Bill / ONT

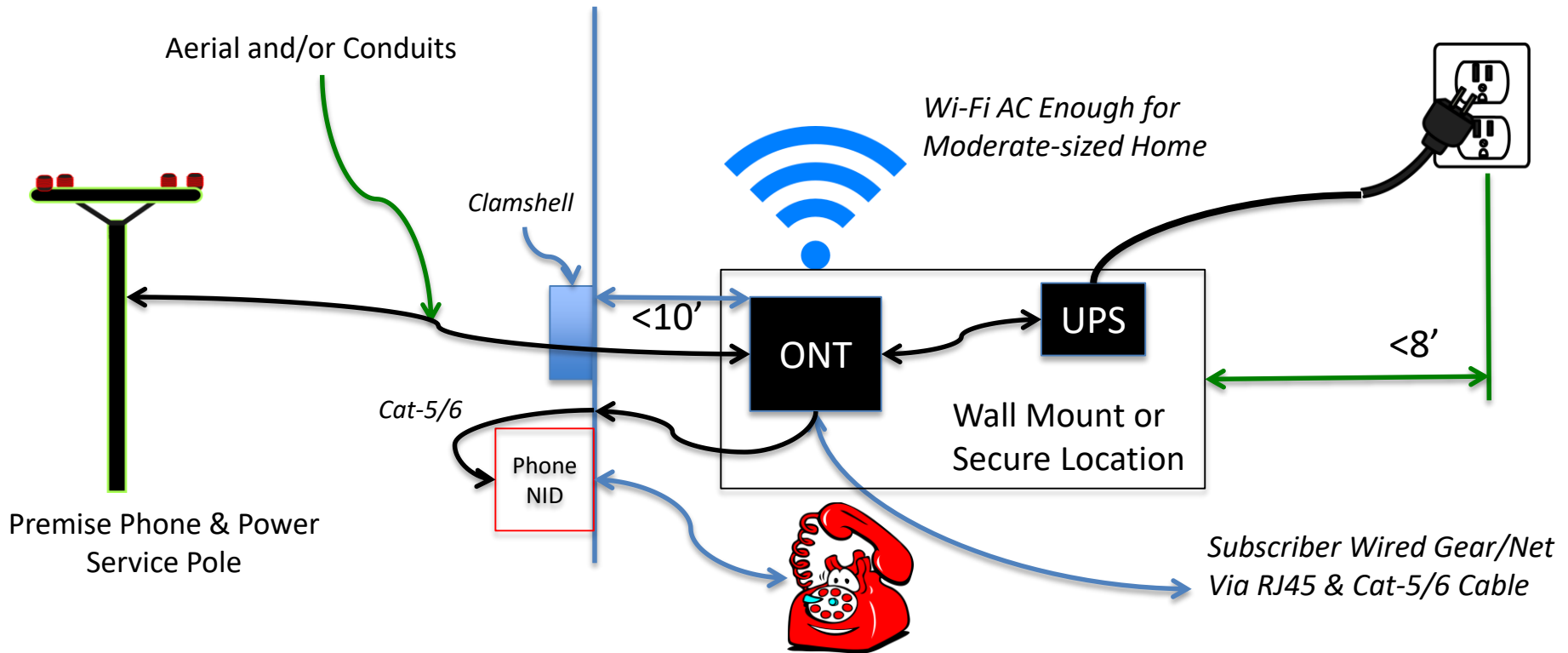
Simple Installation Timeline



ONT Considerations

	ONT w/ Wi-Fi	Weatherproof ONT no Wi-Fi
Which Do I Need?	One-Box Solution Typical Home Wi-Fi	Premises With Existing Ethernet, Wi-Fis, etc.
Description	Black Plastic Box (11x8x2)	Weatherproof Clamshell
Location	Interior Living Space < 10'+/- From Fiber Drop Clamshell on Exterior Nearby Phone NID	Exterior, Stub Post, Basement, Utility Closet, Interior Fiber Ends in Clamshell Nearby Phone Wiring/NID
Mounting	Secure Location or Wall Mount (24"x24" plywood ideal)	Secure Wall Mount (24"x24" plywood ideal)
Features	Wi-Fi 802.11AC 4x1g Ethernet/RJ45 2xPhone Lines/RJ11	2x1g Ethernet/RJ45 2xPhone Lines/RJ11
Uninterruptable Power Supply (UPS)	Interior Living Space Secured adjacent to ONT 110v Receptacle <8'+/-	Secure, Interior, Weatherproof Wall Mount Near ONT but no More than 50'+/- (16-guage) 110v Receptacle <8'+/-

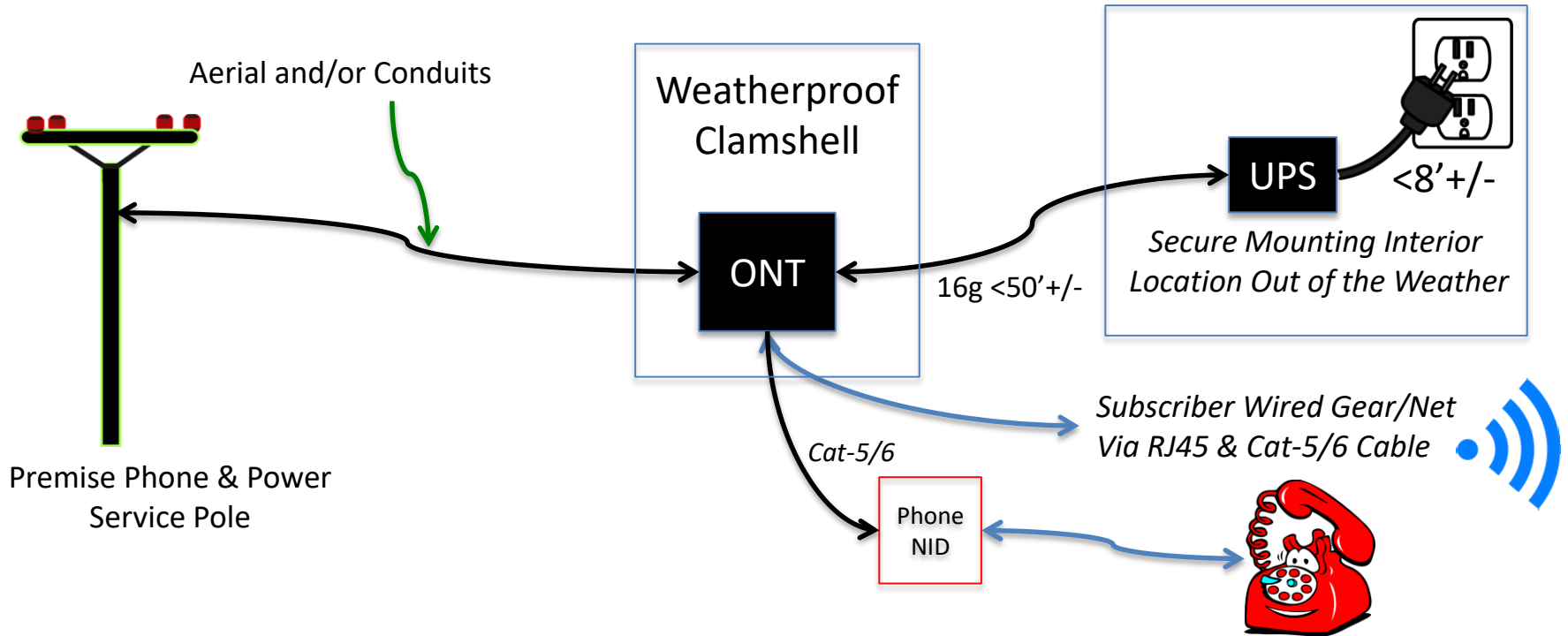
Living Space ONT Schematic w/ Wi-Fi



Living Space ONT Notes:

- Exceptions i.e., Wall Penetration $>10'$ from Interior Location -> Email Tina re Details
- Ideal secure mounting is 24"x24"x1/2" plywood, but wallboard OK.

Weatherproof ONT - No Wi-Fi



Weatherproof ONT Notes...

- Stub Pedestal, Premise Wall, Utility Closet, Basement, Living Space, ...
 - Ideal secure mounting is 24"x24"x1/2" plywood
- UPS must be inside out of the weather & secured as close as possible to ONT
- Network Wiring From ONT In is Subscriber Responsibility
- Email Tina re Issues/Exceptions

Typical Exterior



Typical Exterior - Clamshell



No Wi-Fi ONT Lives in Clamshell



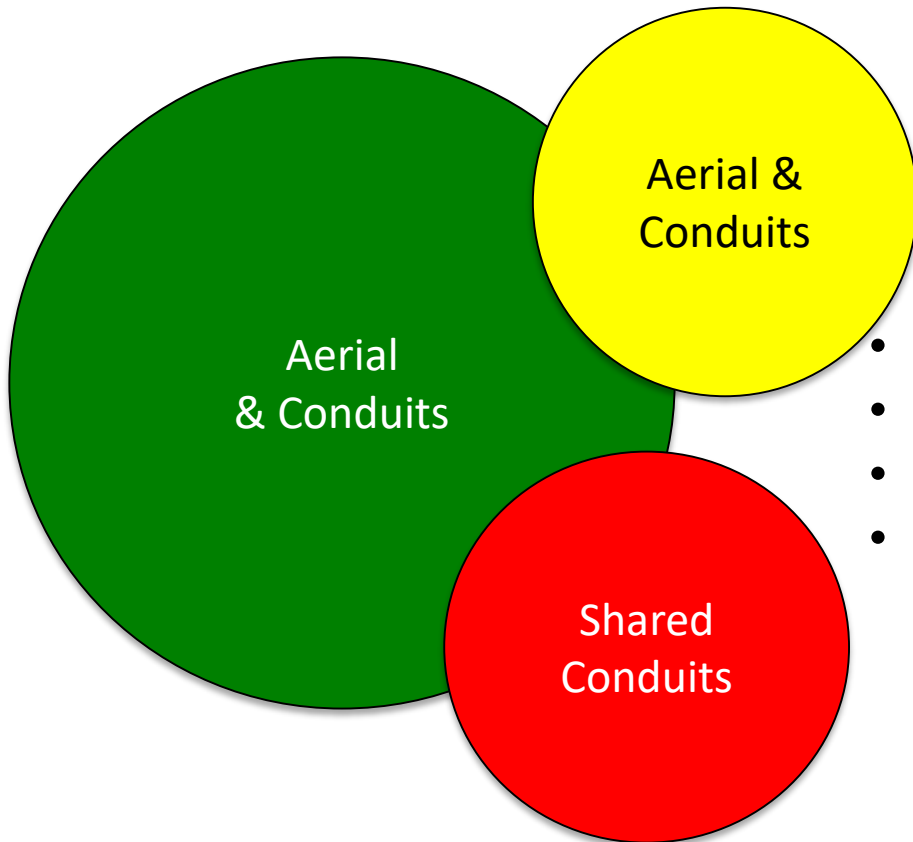
UPS Must Be Out of the Weather and Near 110v



Living Space ONT with Wi-Fi



Installation List & Known Issues



- **Tina's Signup List = Truth**
- Green = 537- Good to Go
- Yellow = 91- Questions
- Red = 48 - Need Waveguide Review or Design For Readiness

Current Issue Areas - Reds

Not a complete list... Check Website

Hold off on Conduit Work Until Resolved

- Shipyard Pt
- Hermits Pt from Dunn in
- Aldrich Rd
- Smith's Landing
- Gooseberry Pt
- Sprague's Cove
- Beach-Bayshore-Lee

Conduits Specs *Pole to Premise*

- Co-Exist in Existing Conduits OK If...
 - 1”+/- dia. open with pull line
 - No Fairpoint pedestals are in the run
- New Conduits are Needed If...
 - A Fairpoint pedestal is somewhere in the run
 - There is no open conduit or aerial
- IMB Conduit Spec Document



New Conduit Summary

- Call DigSafe!
- Begin at Premise's Power/Phone Service Pole
 - New/Existing Communications Pole Riser (Standoff?)
- 2" Sched 40 or Sched 80
 - Capped, Marked, Pull Line, Diagram/Mapped
 - Break into Runs of 500ft +/-
 - Channell #SPH920C1B1L00 or equiv. pedestals
- End at Premise...
 - On Exterior Wall, Stub Post, Basement, Utility Closet,
 - Ideally Near 11v Power, Phone NID & Ethernet Wiring

Channell Pedestal



Easy to find in Winter
May or may not have gear in it

Channell #SPH920C1B1L00 or equiv. pedestals

Premise Is Ready If...

- Subscriber/Owner Agreement Signed & Fees Paid
- Wi-Fi ONT or Weatherproof No Wi-Fi ONT?
- All Conduits are Ready
- Mounting Location for ONT & Power Supply is Ready
 - Secure Mounting Possible in Interior Space, Utility Closet/Basement,...
 - Near Phone NID Interface box
 - 110v Receptacle Nearby per Spec

100% Successful Installations

- Contractors = Readiness Army
 - Close to the Subscribers and Know the Properties
 - Take Note of Any Issues...
- Email IMB@townofislesboro.com
 - Share Notes & Diagrams
 - Address, Owner, Lot-Number,...
 - ONT Type & Location
 - Aerial and/or Conduits (Map, Documentation...)
 - Issues Needing Help from IMB, Waveguide or Sewall
 - Tina Shares All Notes with Waveguide & Sewall
- Documents on Town Website & At Office

Questions