Physical Layer Transmission

1. Mission Statement:

The Physical Layer Transmission Work Area provides test plans, technical documentation, and marketing papers to enable multi-vendor interoperability in deployments for both access and in-premises networks.

Work Area Directors:

Herman Verbueken, Nokia

Evan Sun, Huawei

2. Business Impact:

The focus of the PHYtx WA is to develop technical recommendations which will help service providers deploy equipment that will give a better quality of experience for their end users.

Standardized interoperability and certification, create a trusted base of equipment and services providing operators with an accelerated time to market, avoiding large investments in time and customizations. Interoperability provides invaluable intelligence as feedback to both developers and implementers of new products and services.

3. Scope:

- Definition of test plans for access network physical layer transmission technologies (such as VDSL2 and Gfast) and Reverse Power Feeding technologies
- Definition of test plans for in-premises network physical layer transmission technologies such as power line communications
- Creation of best practice or use cases documentation for advanced features, such as Fiber extensions, cable models.

3.1. Active Project Streams

Project Stream	Description	PS Leaders
PHYtx - Projects	Projects that are handled on Work Area level.	Herman Verbueken , Nokia

3.2. Physical Layer Transmission Work Area Email Lists

- phytx@broadband-forum.org: PHYtx meeting notification, agendas, discussion, etc.
- Join or Leave BBF Groups and Email Lists
- Go to your JIRA profile page to see all of your current BBF group memberships.

3.3. PHYtx Calls, Minutes, Agendas

- PHYtx - Calendar
- PHYtx - Meeting Reports
- All Broadband Forum Teleconference Meetings

3.4. See also:

- PHYtx - Projects

3.4.1. Active Projects

WT /MD /SD#	Projects	Abstract	Related Contributions	Editors

WT-500	MoCA Access Performance Test Plan	MoCA Access™ technology can be used to deliver gigabit and multi-gigabit services to the end-user in the scope of Fiber Extension (FTTep). It has been defined as one of the the available technologies in TR-419. MoCA has been defined by the Multimedia over Coax Alliance (https://mocalliance.org). MoCA Acces supports broadband data transmission in the access environment - including large apartment and office buildings (the MDU environment). The focus of this performance test plan is on the Physical layer and Traffic testing similar to how TR-380 and TR-476 are defined. This performance test plan will include test setup information, equipment configuration requirements, test procedures, and performance requirements. Traffic tests should show the throughput and delay for various packet sizes and mixes for the various use cases	WT-500	Helge Tiainen
WT-301i2a3	Architecture and Requirements for Fiber to the Distribution Point	TR-301defines the Distribution Point Unit (DPU), for use within the access network. All aspects of the introduction of the DPU into the network are considered and requirements are specified for the DPU and all affected nodes in the access network along with the RPF functionality. Amendment 3 adds requirements for bulk data collection (using IPFIX) using the data model as defined in Broadband Forum.	WT-301	Herman Verbueken

3.4.2. Completed or Inactive Project Streams

- These can be found on the PHYtx - Archived Project Streams and Projects page