Chairman’s Letter

Dear members and industry colleagues,

2021 was a year in which both the broadband industry and the Broadband Forum dealt successfully with continuing challenges. In the industry, as record amounts of data continue to traverse the network, the broadband ecosystem has proven not just robust, but ready to differentiate and to increase its value to a multitude of diverse subscribers and partners. At the Broadband Forum, we continue to adapt to global health conditions, meeting virtually over the same networks we help define while still driving a tremendous volume of work in open standards to assure the continued success of our broadband industry.

Never has the important open standards work the Broadband Forum (BBF) represents been more in focus for safeguarding the economic and communication needs of residential, business, IoT, and public services stakeholders. Our open standards drive the right quality of experience for the subscriber, extending from endpoint devices in the home or business all the way to the cloud or data center, while ensuring that service providers realize the value stemming from proven use cases and the operating efficiencies resulting from further broadband investments.

The vital contributions and value that the Broadband Forum represents to the industry is epitomized by the sheer scale of new work published by an ever-increasing number of contributor and evaluating companies. Our range of members span companies large and small, and represent innovating vendors, eco-system partners and service providers. The BBF really does grow from strength-to-strength and ended 2021 with our highest number of members in over a decade!

Despite having to meet virtually throughout 2021, we still delivered and published a significant body of work across all our work areas and our Open Broadband projects. Identifying specific highlighted work is always a challenge when all our work has significant impact to the industry, but here is some of the new areas of work delivered or initiated by the forum in the past year:

- The first deliverables from the SDN and NFV Work Area on the topics of Automated Intelligent Management (TR-436) and Metro Compute Networking (TR-466).
- The launch and expansion of our first self-testing tools and programs (BBF.069 and BBF.369) to enable faster and cost-effective industry recognized certification.
- WWC Marketing Council was launched, delivering webinars, industry events, PR and blogs.
- A new Open Broadband and opensource project (OB-SWWC) to fulfill the benefits of 5G delivered over fixed line services. OB-SWWC will create a reference implementation of BBF’s Wireless-Wireline Convergence solution for 5G-capable Residential Gateways (5G-RG).
- PHY-ix NPIF on heterogeneous Home Distribution Networks encompassing Wi-Fi for broadband wireless technology, Ethernet/MoCA/G.hn for broadband wireline and Wi-Fi/Zigbee/Z-wave for IoT narrowband.
- Common YANG (TR-454) enabling the management of physical nodes with Yang interfaces to maintain and expose network map and equipment inventory information.
- BASe, our industry education events initiative, recognized a record year in sponsorship and the number of virtual and physical events held throughout the year. Highlights of our BASe events program included our first successful 3 day “Virtual Broadband Summit”, a record number of webinars and a return to ‘in-person’ industry events.

In addition, we ran a considerable number of BASe Knowledge webinars and seminars including updates from our WWC and SDN/NFV work areas as well as our USP, 5G Transport, and PEAT project streams. We also continued to virtualize Work Area demonstrations including our successful CloudIO and OB-BAA demo and our new WT-474 Subscriber Session Steering work.

In the testing and certification arena, the Broadband Forum launched the industry’s first Wi-Fi Performance Program, BBF.398 Grade Wi-Fi, rising to the challenge to meet the needs of communications service providers to deliver the highest quality Wi-Fi services critical to successful broadband deployments, with the first devices already added to the Broadband Forum’s product registry.

2022 will be an exciting year for the BBF with multiple brand-new work projects in progress and ever-increasing number of operators and vendors contributing to our work. In addition, I know I speak on behalf of all our members when I say that we are looking forward to a return to face-to-face meetings, conditions permitting, in the second half of the year.

Therefore, on behalf of the Board and staff, I would like to express our gratitude for your impressive support. It is through our members that we ensure the open standards and Open Broadband work we do remains crucial to the evolving broadband services of the future.

Yours Sincerely,

John Blackford
Chairman of the Board
In the 2021 Annual Report

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2021 Published Work

MR-452.4  OED Uses in Lab Evaluation & Network Design
TR-411  Definition of Interfaces between CloudCO Functional Modules
TR-398 Issue 2:  Wi-Fi In-Premises Performance Testing
TR-280  Corrigendum 1: ITU-T PON in the Context of TR-178
TR-412  CloudCO Test Cases
TR-436  Access & Home Network O&M Automation/Intelligence
MR-419  Five Key Questions on the Fiber to the Extension Point (FTTep)
MR-452.2  Use of DeltaQ to manage customer SLA
TR-454  YANG Modules for Access Network Map & Equipment Inventory
TR-380  Issue 2: G.fast Performance Test Plan
TR-383  Amendment 4: Common YANG Modules for Access Networks
TP-337  Issue 3: Corrigendum 1: G.fast Certification Test Plan
TR-398  Issue 2 Corrigendum 1: Wi-Fi Residential & SOHO Performance Testing

TR-459.3  Multi-Service Disaggregated BNG with CUPS: IPTV Multicast function
TR-466  Metro Compute Networking: Use Cases and High-Level Requirements
TR 459.2  Multi-Service Disaggregated BNG with CUPS: Integrated Carrier Grade NAT function.
TR-352 Issue 2 COR 1:  Multi-wavelength PON Inter-Channel-Termination Protocol (ICTP) Specification
TR-471 Issue 2:  Maximum IP-Layer Capacity Metric, Related Metrics, and Measurements
OB-BAA  Release 4.11
OB-UDPST  Release 7.3.0
OB-USP  Agent Release Eagle
OD-490  BBF 398 Grade Wi-Fi Program Guidelines
Forum Organization

Board of Directors

- BBF Staff
  - Service Provider Action Council
  - Software Advisory Group
- Executive Advisory Council
  - Marketing Committee
  - Marketing Councils

- Certifications & Performance Testing
- Open Broadband Projects
- Steering Committee
  - Technical Committee
- BASe Events
Leadership Groups

Broadband Innovation Group
The Broadband Innovation Group was formed as the incubator for new projects such as the developments in 5G. As envisaged in the Broadband 20/20 vision document, the Innovation Track began work on Broadband Assured IP Services. The Forum has long recognized the need for performance-assured services that are secure, standardized, on-demand and user-initiated and is leveraging several new technologies (SDN, NFV, Gfast, NG-PON2, etc.), its IP expertise and experience with more than 1 billion TR-069 installations. The Broadband Innovation Group also works with various member groups to host “Birds of a Feather” events held at most quarterly meetings.

Christelle Bouchat, Nokia and Mauro Tilocca, Telecom Italia—Co-Chairs

Executive Advisory Council
Introduced in 2017, the Executive Advisory Council was established to provide an executive C-level and forward-thinking lens through which the Forum can keep an insight on industry trends to shape our future. The genesis of the Council is the profound changes in the industry - a paradigm shift both in terms of technology and methodology. The questions regarding the impact on business value and what sort of deliverables are required is the main conversation of the BBF’s Executive Advisory Council.

Craig Thomas, BBF—Chair

Service Provider Action Council
The SPAC (Service Provider Action Council) is a key influential standing committee keeping the Forum connected to user requirements - the key financial realities of the market. Open exclusively to the service provider membership, it offers continuous direction on requirements to ensure that strategic work has the service provider engagement needed to achieve timely standards development.

Mauro Tilocca, Telecom Italia—Chair

Software Advisory Group
The SAG (Software Advisory Group) comprises contributing Forum member companies and provides a center of software expertise acting as a “think tank” within the Forum. It advises on engagement with external SDOs and open source organizations on the processes and modeling tools needed to enable the Forum to work as an agile software-focused organization, the challenges of IPR, and balancing the Forum’s role on the definition of requirements and service attributes with the implementation of code and prototyping.

William Lupton, BBF—Chair

Steering Committee
The Steering Committee’s primary goal is to execute the Forum’s strategy via the Work Areas of the Technical Committee. It is the main conduit for the leadership to monitor work in progress across the Forum. The Steering Committee influences the technical work and acts as a clearinghouse for new projects. It also oversees the formation of project streams (groups of related projects) and the appointment of Work Area Directors. Implementation of procedures and use of tools and the technical content of Broadband Forum meetings also fall to the Steering Committee, as well as coordination of the important items in the Forum’s Liaison Program with almost every industry standards body and open source organization.

Lincoln Lavoie, UNH-IOL—Technical Committee and Steering Committee Chair
Open Broadband

Broadband Forum’s Open Broadband initiative brings open source and open standards together, paving the way to dramatically change our industry and bring the full promise of broadband to fruition.

The future of broadband will be the result of the marriage between the flexibility, innovation, and speed of “open software” and with the discipline, efficiencies, and global scale made possible by “open standards”.

Delivering excellent point solutions will always be critical. However, in a broadband ecosystem undergoing radical change of technology and approaches, focusing on individual elements alone is likely to be a limiting strategy. This is why the Forum is taking an approach to the drivers and technologies that feed broadband transformation to serve the industry and our members. By bringing the best ideas of open source together with the interoperability and standards required for mass market solutions, the Forum is bringing true innovation and scale to the industry.

Open Broadband projects within the forum continue to thrive since their inception in 2017. The following are currently active Open Broadband projects:

Open Broadband—Broadband Access Abstraction (OB-BAA)
Enabling standardized, automated and accelerated deployment of new cloud-based access infrastructure and services. Link here for more information.

Open Broadband Multi Access Point (OB-MAP)
Ensuring that the software of open-source innovators like prpl Foundation, and their mesh software projects will be scalable to large service providers deployments via carrier grade manageability. Link here for more information.

Open Broadband—UDP Speed Test (OB-UDPST)
Enabling an open source implementation tool to perform IP Layer Capacity metrics and measurement for gigabit broadband connectivity. Link here for more information.

Open Broadband—User Services Platform Agent (OB-USP-Agent)
Creating a reference implementation of the User Services Platform (USP) specification from an “agent” perspective. Link here for more information.

Open Broadband—WWC Reference Implementation for 5G-RG (OB-5WWC)
Open Broadband Labs

Open Broadband Labs offer a common hardware and software platform for an open laboratory to promote the development of network transformation and cloud evolution leveraging open source software. Each Open Broadband Lab is a collaborative industry resource that encompasses proprietary, “open” source and standard implementations coming together to represent service provider existing and planned deployments. The initial intention for the scope of the Open Broadband Labs is:

- A rich set of test resources to be used for staging, functional, performance, interoperability, testing and continuous integration of broadband NFV/SDN, CloudCO, cloud-based services and applications, management, and orchestration
- Provides the industry and BBF members with defined interfaces and reference test environment for how their products and solutions can fit into the NFV/SDN cloud-based architecture
- The Forum’s motivation stems from requirements related to BBF projects and is not a constraint for third parties
- The BBF’s role is to select labs based on regional requirements, available funding
- Broadband Forum does not fund each Open Broadband Lab – but helps facilitate funding (Hosting Labs are independent of the BBF and independently funded)
- OB-Labs provide services according to fair, reasonable, and nondiscriminatory terms
- Make services available to the entire industry (without limitation), platforms may vary

The combination of Broadband Forum’s Open Broadband, Open Broadband Labs, and Open Standards initiatives are providing an industry sandbox to accelerate multi-vendor innovation and incubation in areas like 5G, CloudCO, network slicing, and wire- less-wireline convergence.

These areas define a number of operator use cases and act as a blueprint for tests to be performed in the labs. Together, these initiatives are accelerating network transformation and migration to a cloud-based broadband infrastructure for carriers globally and bringing the promise of SDN and NFV to fruition.

The future of broadband will be the result of the marriage between the flexibility, innovation, and speed of an “open software” with the discipline, efficiencies, and global scale made possible by “open standards”. The Open Broadband initiative brings together the best ideas of an open source with the interoperability and standards required for mass market solutions, thereby accelerating true innovation and scale in the industry. Key to this strategy has been the creation of an array of Open Broadband Labs around the world to enable open source collaboration and ensure interoperability. In 2019, the number of recognized Open Broadband Labs expanded to include a second lab in Asia, as well as in Europe (2), and North America. More information on the Open Broadband Labs can be found here.
Interop and Certification

Since its inception the Forum has had an objective to establish interoperability in the broadband marketplace. Today, the Broadband Forum Interoperability and Certification program encompasses end-to-end broadband testing requirements including fiber, DSL, MPLS and home networking related interoperability and conformance testing.

The BBF Testing and Certification programs include:

1. Developing common test requirements
2. Establishing a test suite which normally includes functional and performance tests
3. Hosting test events also known as plugfests, which can include private members only multivendor plugfests, conformance testing, public interoperability demonstrations and/or certification

Certification Program Impact

- Creates confidence and minimizes risks
- Establishes a trusted industry standard for implementation and high customer satisfaction
- Leverages vast experience and expertise
- Avoids extensive provider testing before purchase
- Significantly reduces costs and accelerates time to revenue for all stakeholders
- Provides a starting point for service provider integration and fosters a diverse marketplace across silicon and products
BASe Series

Broadband Forum is the industry’s most respected organization for accelerating broadband innovation and deployment, and its fast-growing Broadband Acceleration Seminar (BASe) series provides key insights into the state of broadband innovation, technology, standards, and ecosystems.

Held in conjunction with major industry conferences, each BASe event draws hundreds of key influencers from global broadband service providers, suppliers, analysts, and government officials who appreciate our uncompromising educational focus and our member’s leading-edge perspectives.

BASe series is driven around 3 major tracks: The Connected Home, Access Technologies and Network and Service Delivery. Including areas of focus of the Forum — 5G, Connected Home, Cloud, and Access | Next — and provides sponsors with unparalleled access to broadband industry innovators and leaders. BASe events have become renowned throughout the industry as truly unique thought leadership events created by tech innovators for tech leaders.

2021 was a record year for The Broadband Forum both in the number of sponsors and also total number of events. In 2021 with the continued uncertainty of the global travel we integrated the flexibility of a virtual events platform to support the BASe initiative. We successfully ran 18 virtual sessions from webinars and virtual conference sessions. Including our 3-day virtual Ultra-fast Broadband (UFBB) vBASe conference and our first ever virtual Broadband Summit. In addition, we welcomed back a return to ‘in-person’ industry events.

Meeting the challenge of remote events vBASe (virtual BASe) attracted an even wider participation audience to all our industry leading events with an average attendance of over 400 registration per event representing regularly over 50 countries. This has set the stage for continued success in 2022 with a balance of vBASe and traditional BASe ‘in-person’ events.

In total 17 companies took advantage of sponsorship opportunities to reach a global industry audience.
Technology Councils

The charter of each technology council is to foster the global market development of its representative technology through educational and awareness initiatives.

Each council, the Gfast Council, the NG-PON2 Council, and the Connected Home Council, was formed to centralize and disseminate the expertise and experience of each respective market in order to facilitate the rapid deployment of each technology. Each council meets regularly and develops a roadmap for educating the market on their respective technology and providing deployment updates. Typical vehicles are formal published Market Updates, technology White Papers, webinars, wall charts and surveys. In addition, the technology councils are very active as content engines in developing content for BAESe events and moderating BAESe panels. Lastly, as the technology councils are monitoring market trends and conducting surveys, they provide use case ideas back into the working areas and interoperability/certification programs to stimulate market expansion and ecosystem development.

Examples of Market Updates created by technology councils include:
Recognizing Member Contributions

The BBF recognizes the outstanding contributions of those who have shaped the growth of Broadband, worldwide.

Distinguished Fellow Award

The Distinguished Fellow title is bestowed by the Broadband Forum to exceptional individuals who have over time provided a major influence on the direction and success of broadband development.

2021 Recipients:
› John Blackford, CommScope

Leadership Awards

The Leadership award is given to outgoing, commendable working group chairs or Board members. These individuals, who have dedicated their time and leadership ability to establishing our success, have gone above and beyond the call of duty within The Broadband Forum and we thank them for their service.

2021 Recipients:
› Barbara Stark, AT&T
› David Allan, Ericsson
› George Dobrowski

Circle of Excellence

The Broadband Forum recognizes the exceptional contributions of its members through the "Circle of Excellence" award, which is awarded at our annual meetings.

2021 Recipients:
› Greg Mirsky, Ericsson
› Richard Holme, CommScope
› Rosaria Persico, TIM
› Peter Thompson, PNSol

Outstanding Contributors

Once a year, at the annual meeting, the Outstanding Contributor awards are given to individuals who, during the previous year, went above and beyond the call of duty within the Forum work areas.

2021 Recipients:
› Al Morton, AT&T
› Antonio Marchetta, Net Reply
› Fabio Giudici, Outsyst
› Ludwig Pauwels, Nokia
› Nagaraj Turaiyur, Juniper
› Thales Fragoso, Axiros
› Venkatesh Padebettu, Juniper

Visit broadband-forum.org/contributors for information on BBF member recognition
2021 recognized an increase in membership and participation. Below is a list of member companies organized alphabetically by membership level. Please note that Open Broadband initiative projects include a wide variety of non-member companies and industry organizations not listed.

**Principal Level**

- A1 Telekom Austria AG
- ADTRAN
- Advanced Digital Broadcast S.A.
- AEPONYX
- Airoha Technology (Suzhou) Limited (formerly ECONET)
- Airties
- Alethea Communications Technologies Pvt Ltd
- Allion Labs
- Alteo Labs, S.A.
- Aprecom Private Limited
- APS Networks GmbH
- ASSIA, Inc.
- AT&T
- AVM GmbH
- AVSystem
- Axiros
- Axon Networks
- Bell Canada
- Beiou Networks
- BiFrost Communications
- BISDN GmbH
- Broadcom Corporation
- CenturyLink
- Charter Communications
- China Mobile Research Institute
- China Telecom Global Limited
- China Unicom
- Chungwa Telecom Labs Ciena
- Cisco Systems
- cnlab
- CommScope
- Cyta
- DZS
- Deutsche Telekom AG
- D-Link
- Domos AS
- EANTC
- Ericsson
- Friendly Technologies IFTU F-Secure
- Futurewei Technologies Inc.
- Genesys Technical Systems
- Genex Technologies Co. Ltd.
- Go Pton
- Google Fiber
- H3C
- Heights Telecom Ltd
- Huawei Technologies Co. Ltd.
- Hybrid Access Technologies
- InCoax Networks AB
- Incognito Software Systems Inc.
- Intal
- Intero Group AB (Genexis BV)
- Interlink
- IO Intelligence
- ISPApp
- Juniper Networks
- Kalcom
- KCOMNEDIA Co. Ltd.
- KPN
- Lambda Networks AS
- LAN
- Liberty Global
- Maxlinear
- Mecosan Solutions
- Melanie Communications
- Microsoft (formerly MetaSwitch)
- MT2 SAS
- National Broadband Network
- National Information Solutions Cooperative (NISC)
- NEC
- Netplus.ch S.A.
- Netsia
- Nokia
- NTT Corporation
- Octoscope
- OpenVault
- Orange
- OutSys
- PBN INNOVATION (BEIJING) CO., LTD.
- PIC Advanced SA
- Plume
- POST Luxembourg
- Predictable Network Solutions Ltd
- Proximus
- QA Cafe
- Qualcomm Incorporated
- RAD Data Communications
- RadiSys Corporation
- Reply AG
- RTBrick Inc.
- Sagemcom Broadband
- SafTel
- Skype
- Smo Technology GmbH
- Spanish Instruments
- Sprint Communications GmbH
- Stacks
- Sterile Access Solutions BU
- Support Robotics Limited
- TalkTalk Group PLC
- Technifex, Inc.
- Technicolor
- Telecom Argentina
- Telecom Italia S.p.A
- Telefonica S.A
- Teledesic
- Teletels
- Telstra Corporation Ltd
- TELUS Communications, Inc.
- Telit Communications
- Telegrouping GmbH
- Ubilinx, Technology, Inc.
- UHN InterOperability Lab
- VCTI
- Vecima Networks Inc.
- Verizon
- Vavi Solutions
- VMware
- Vodafone Group Services
- Zoom Telephonics
- ZTE Corporation

**Auditing Level**

- Actiontec Electronics
- Arcadyan Technology Corp.
- Ask Computer Corp.
- Combrid Corporation
- Dirk Network
- Fibrehome Telecommunications Technologies Co., LTD.
- Furukawa Latam
- Gemtek Technology Co.
- General Mobile (TELPA TEKNOLOJI HIZ. A.S.)
- Genex Technologies Co. Ltd.
- Harmonic Inc.
- Hiton Technologies Inc.
- Human Networks, Inc.
- Icotera Sp. z o.o.
- MbraStar Technology Corp.
- Reply AG
- Sierra
- Sercomm
- Shenzhen Skyword Digital Technology Co., Ltd.
- Sumitomo Electric Industries
- TDC A/S
- Telkom Slovenije, d.d.
- Telaror Norge As (SY)
- Telkom SA Ltd
- TIP-Link
- Triductor Technology
- Waseda
- WSI Communications GmbH & Co KG
- Zyex Communications Corporation

**Associate & Observer Level**

- China Academy of Information and Communications Technology (CAICT)
- Comcast
- Continental Automated Buildings Association (CABA)
- ETRI
- Industry Development Augmentation Division
- Informa T & M (Broadband World Forum)
- Layer123
- Mocailliance (MoCA)
- National Exchange Carrier Association
- National Media and Infocommunications Authority
- NorthernGrid Innovations Inc.
- Ofcom
- Point Topic
- RDK
- Swisscom (Schweiz) AG
- TNO
- University of New South Wales
John Waddell & Co, Certified Public Accountants, conducted the audit of the 2021 Broadband Forum financial statements. The following tables provide an overview of the financial position and key financial metrics of the organization at the close of 2021.

Statement of Financial Position
December 31, 2021
(With Comparative Totals for December 31, 2020)

<table>
<thead>
<tr>
<th>ASSETS</th>
<th>2021</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and cash equivalents</td>
<td>$1,400,980</td>
<td>$888,184</td>
</tr>
<tr>
<td>Investment in marketable securities</td>
<td>1,921,041</td>
<td>1,747,059</td>
</tr>
<tr>
<td>Accounts receivable</td>
<td>8,000</td>
<td>10,000</td>
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<tr>
<td>Prepaid expenses and deposits</td>
<td>85,933</td>
<td>98,430</td>
</tr>
<tr>
<td>Website, net of accumulated amortization of $15,453 and $8,871, respectively</td>
<td>4,292</td>
<td>10,874</td>
</tr>
<tr>
<td></td>
<td>$3,420,246</td>
<td>$2,754,547</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LIABILITIES AND NET ASSETS</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Liabilities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounts payable</td>
<td>$40,586</td>
<td>$174,064</td>
</tr>
<tr>
<td>Accrued liabilities</td>
<td>127,056</td>
<td>—</td>
</tr>
<tr>
<td>Deferred membership dues</td>
<td>821,168</td>
<td>707,750</td>
</tr>
<tr>
<td>Total Liabilities</td>
<td>988,810</td>
<td>881,814</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Net Assets</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>With donor restrictions</td>
<td>16,083</td>
<td>16,083</td>
</tr>
<tr>
<td>Without donor restrictions:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designated for reserves</td>
<td>1,000,000</td>
<td>1,000,000</td>
</tr>
<tr>
<td>Undesignated</td>
<td>1,415,353</td>
<td>856,650</td>
</tr>
<tr>
<td>Total Net Assets</td>
<td>2,431,353</td>
<td>1,856,650</td>
</tr>
</tbody>
</table>

|                             | $3,420,246 | $2,754,547 |
**Statement of Activities**
For the Year Ended December 31, 2021
(With Comparative Totals for December 31, 2020)

### Revenue

<table>
<thead>
<tr>
<th></th>
<th>WITHOUT DONOR RESTRICTIONS</th>
<th>WITH DONOR RESTRICTIONS</th>
<th>2021 TOTAL</th>
<th>2020 TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Membership dues</td>
<td>$ 1,537,700</td>
<td>$</td>
<td>$ 1,537,700</td>
<td>$ 1,381,150</td>
</tr>
<tr>
<td>Meeting fees</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>31,500</td>
</tr>
<tr>
<td>Sponsorship fees</td>
<td>225,250</td>
<td>—</td>
<td>225,250</td>
<td>258,250</td>
</tr>
<tr>
<td>Interest and investment income</td>
<td>172,608</td>
<td>—</td>
<td>172,608</td>
<td>190,220</td>
</tr>
<tr>
<td><strong>Total Revenue</strong></td>
<td><strong>1,935,558</strong></td>
<td></td>
<td><strong>1,935,558</strong></td>
<td><strong>1,861,120</strong></td>
</tr>
</tbody>
</table>

### Expenses

**Program services:**
- Meetings                       | 135,089                  | —                       | 135,089     | 214,143     |
- Member services, tools, and other | 208,261                 | —                       | 208,261     | 136,428     |
- Trade shows, marketing and PR   | 486,443                  | —                       | 486,443     | 496,325     |
| **Total program services**      | **829,793**              |                         | **829,793** | **846,896** |
- General and administrative     | 547,062                  | —                       | 547,062     | 453,053     |
| **Total Expenses**              | **1,376,855**            |                         | **1,376,855**| **1,299,949**|
| **Change in Net Assets**        | **558,703**              |                         | **558,703** | **561,171** |

### Net Assets

<table>
<thead>
<tr>
<th></th>
<th>2021 TOTAL</th>
<th>2020 TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beginning of Year</strong></td>
<td>1,856,650</td>
<td>1,311,562</td>
</tr>
<tr>
<td><strong>End of Year</strong></td>
<td>$ 2,415,353</td>
<td>$ 1,872,733</td>
</tr>
</tbody>
</table>
BBF Team

Managing Director | Ken Ko | kko@broadband-forum.org
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