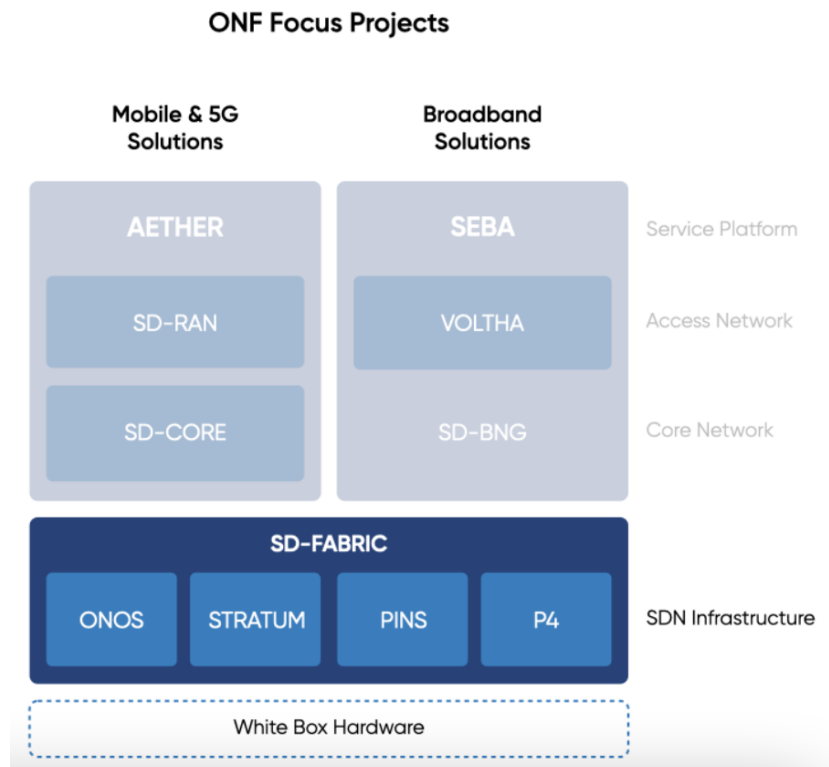
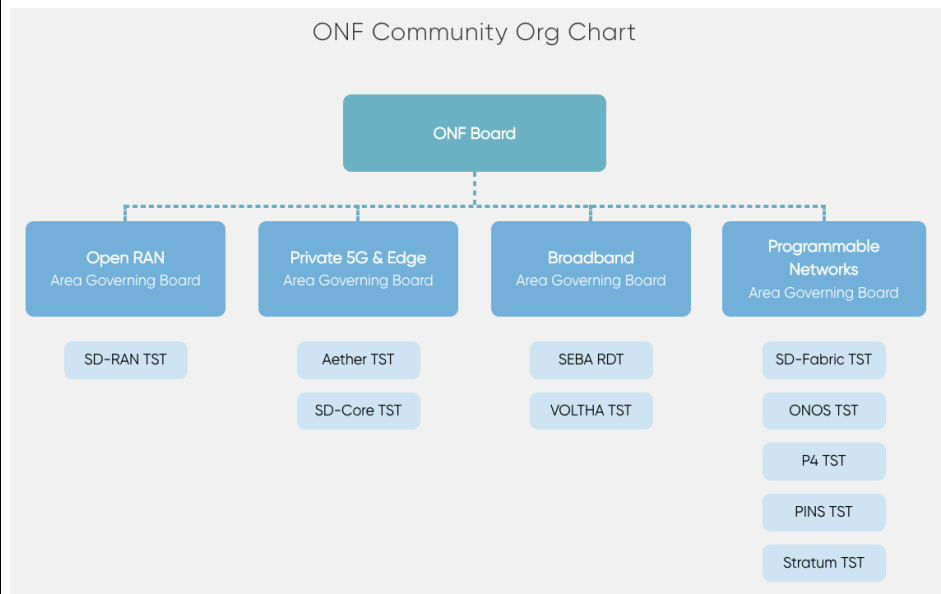


|   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |              |      |           |                                 |      |
|---|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|------|-----------|---------------------------------|------|
| 1 | 組 織 名 称 ( 略 称 ) | Open Networking Foundation(ONF)<br><a href="https://www.opennetworking.org/">https://www.opennetworking.org/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |              |      |           |                                 |      |
| 2 | 分 類             | 活動目的                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ◎               | 仕様策定         | －    | 実装・検証     | オープン<br>ソース                     | 該当あり |
|   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | －               | 試験・認証        | －    | 普及・啓発     |                                 |      |
|   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | －               | そ の 他<br>( ) |      |           |                                 |      |
|   | 対象技術分野          | ①通信技術(コア、インフラ関連)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 | 対象サービス       |      | ⑧マネジメント関連 |                                 |      |
|   | 技 術 M A P       | 活動エリア                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ①固定系領域を中心に活動を実施 |              | 活動領域 |           | ③NW(ネットワーク)領域の活動を主に、MDL領域の活動も実施 |      |
| 3 | 目 的             | <p>ONFは、非営利のオペレータ主導のコンソーシアムであり、software-defined programmable networksの革新を促進する。<br/>エコシステムの構築、アドボカシー、研究、教育を通して、オープンネットワーキングの最先端を加速し、オープンソースソフトウェアを活用したオープンで非集約型ソリューションを作成する。</p> <div><p>ONF Journey</p><div><p><b>Phase 1 2011-2016</b></p><ul style="list-style-type: none"><li>ONF was spun out of Stanford and Berkeley Universities to pursue Software Defined Networking (SDN)</li><li>ONF community standardized the OpenFlow protocol to enable separation of the network control and dataplanes, thus enabling multi-vendor SDN implementations</li></ul></div><div><p><b>Phase 2 2017-2021</b></p><ul style="list-style-type: none"><li>Operators wanted to push the industry to move more quickly towards SDN</li><li>To speed progress and prove what was possible, operators and a few vendors partnered to fund for an ONF engineering team</li><li>ONF built leading platforms that were deployed by a few tier 1 operators</li></ul></div><div><p><b>Phase 3 2022+</b></p><ul style="list-style-type: none"><li>Now that ONF's platforms are proven and being deployed, ONF is focused on expanding adoption and building developer communities</li><li>The growing ONF community is bringing the power of open source to networking, broadening ONF's impact</li></ul></div></div> |                 |              |      |           |                                 |      |
| 4 | 組 織 構 成         | <p>・Board(理事会、7名)の配下に、4つの技術分野(Area)があり、プロジェクトは各Areaに分類されている。また、プロジェクトには活動を監督し簡的な決定をする Technical Steering Team (TST) が置かれている。<br/>・ONFでは以下のプロジェクトが活動している。</p> <p><u>Open RAN Area</u><br/>SD-RAN: new exemplar platform for 3GPP compliant software-defined RAN</p> <p><u>Private 5G &amp; Edge Area</u><br/>AETHER: first open source Enterprise 5G/LTE Edge-Cloud-as-a-Service platform (ECaaS)<br/>SD-CORE: 4G/5G disaggregated mobile core optimized for public cloud deployment</p> <p><u>Broadband Area</u><br/>SEBA: SDN-Enabled Broadband Access<br/>VOLTHA: Virtual OLT Hardware Abstraction</p> <p><u>Programmable Networks Area</u><br/>SD-FABRIC: developer-friendly, cloud-managed, full stack, programmable network fabric<br/>STRATUM: open source, silicon-independent switching operating system</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |              |      |           |                                 |      |

PINS: industry collaboration bringing SDN capabilities and P4 programmability  
 TRELLIS: open source L2/L3 leaf-spine switching fabric  
 NG-SDN: Next Generation SDN  
 P4: Programming Protocol-independent Packet Processors  
 CORD: complete integrated platform  
 XOS: integral component of CORD  
 ODTN: Open and Disaggregated Transport Network  
 ONOS: Open Networking Operating System  
 OTCC: Open Transport Configuration and Control  
 INFORMATION MODELING & TOOLING: evolving open information models and associated open source tooling software  
 MININET: widely used virtual test bed and development environment



|   |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | 参加資格費                        | 年会費:<br>Partner: 不明<br>Member: 不明<br>Collaborator: 不明(正式な会員ではない、メンバ数カウントから除外)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 6 | 主要メンバ<br>(2022年6月現在)<br>(注1) | <ul style="list-style-type: none"> <li>Members: 119社 (Boardを含む、内日系: 2社)<br/>NEC、NTTグループ</li> <li>Board: 12社 (内日系: 1社)<br/>Deutsche Telekom、Microsoft、AT&amp;T、NTT Communications、Turk Telekom、Google、Intel</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 7 | 他団体・組織との関係                   | broadband forum、Linux Foundation、Open Compute Project、O-RAN Allciance、Telecom Infra Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 8 | TTC活動との関連性<br>(注2)           | <div> TTCの専門委員会活動との関係(☑関係あり、□関係なし)<br/> 関係する場合の専門委員会名(右欄より選択)<br/> 理由: </div> <div> ⑩網管理<br/> ⑫Network Vision<br/> ⑰アクセス網 </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 9 | 活動状況                         | イベント開催 <ul style="list-style-type: none"> <li>2022/5 2022 P4 Workshop</li> <li>2022/5 ONF Open Broadband Meetup Berlin</li> <li>2022/3 ONF Webinar: Open Networking Hits a “Milestone Moment”</li> <li>2022/1 Aether v1.6/SD-Core v1.0 Techinar</li> <li>2022/1 VOLTHA v2.9 Techinar</li> <li>2021/12 2021 P4 Workshop Taiwan</li> <li>2021/12 4th P4 Workshop in Europe (EuroP4) 2021</li> <li>2021/11 OCP Global Summit 2021</li> <li>2021/10 Japan P4 User Group 2021</li> <li>2021/10 ONUG Fall 2021</li> <li>2021/10 Deutsche Telekom SD-RAN Trial</li> <li>2021/9 2021 Spotlight Private 5G for Industry 4.0</li> <li>2021/8 ACM SIGCOMM 2021</li> <li>2021/7 Stratum v21.06 Techinar</li> <li>2021/7 VOLTHA v2.8 Techinar</li> <li>2021/7 SD-Fabric Techinar</li> <li>2021/7 SD-Core Techinar</li> <li>2021/6 Open Air Interface Virtual Workshop – Summer 2021</li> </ul><br>プレスリリース <ul style="list-style-type: none"> <li>2022/6/1 ONF’s Aether Private 5G Open Source Platform Selected by Kajeet to Build an Enterprise Private 5G Network Offering</li> <li>2022/4/5 ONF Enters a New Era Focused on Growing Adoption and Community for its Leading Open Source Projects</li> <li>2022/2/22 ONF’s Leading Private 5G Connected Edge Platform Aether™ Now Released to Open Source</li> <li>2022/2/22 ONF’s SD-RAN™ Now Fully Released to Open Source</li> <li>2022/2/17 ONF, in Collaboration with Microsoft, Google and Intel, Brings SDN to SONiC™</li> <li>2021/12/1 Netsia Successfully Deploys its Broadband Suite with ONF’s SEBA Architecture to Türk Telekom to Meet Broadband Access for 1 Million Households</li> <li>2021/10/12 ONF and Deutsche Telekom Demonstrate Fully Disaggregated Open RAN with Open RIC Platform</li> <li>2021/9/27 ONF Announces Formation of Ananki, A New Company Delivering Commercial Private 5G Service Based on ONF Open Source</li> <li>2021/6/24 ONF Announces New Cloud-Native, Software Defined SD-Core Project Addressing 5G Mobile Core</li> <li>2021/6/24 ONF Announces New SD-Fabric™ Project, an Open Source,</li> </ul> |

|    |                                                       |                                                                                                                                                                                                                                                                        |      |                  |
|----|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
|    |                                                       | Full Stack Programmable Network Fabric for Hybrid Cloud, Edge Cloud, 5G and Industrial IoT                                                                                                                                                                             |      |                  |
| 10 | 設 立 時 期                                               | 2011 年 3 月                                                                                                                                                                                                                                                             |      |                  |
| 11 | 本 部 所 在 地                                             | Open Networking Foundation<br>1000 El Camino Real, Suite 100<br>Menlo Park, CA 94025, USA<br>Phone: +1 510 492 4070<br>E-mail: <a href="mailto:info@opennetworking.org">info@opennetworking.org</a>                                                                    |      |                  |
| 12 | 関 連 標 準 化 技 術                                         | 技術仕様、技術勧告、技術情報を公開している。<br><a href="https://www.opennetworking.org/software-defined-standards/overview/">https://www.opennetworking.org/software-defined-standards/overview/</a>                                                                                        |      |                  |
| 13 | 権 利 関 係<br>( I P R P o l i c y ,<br>B y l a w s な ど ) | IPR Policy, Bylaws, Articles of Incorporation<br><a href="https://www.opennetworking.org/organizational-documents/">https://www.opennetworking.org/organizational-documents/</a>                                                                                       |      |                  |
| 14 | 備 考<br>( 普 及 状 況 な ど )                                | ・規格に基づく製品の普及状況:<br>ONF認証済み製品<br><a href="https://opennetworking.org/marketplace/">https://opennetworking.org/marketplace/</a><br>OpenFlow®仕様認証の製品<br><a href="https://opennetworking.org/product-certification/">https://opennetworking.org/product-certification/</a> |      |                  |
| 15 | 更 新 履 歴                                               | 2011年                                                                                                                                                                                                                                                                  | 初版作成 |                  |
|    |                                                       | 2019年7月23日                                                                                                                                                                                                                                                             | 更新   | 担当変更: 鬼頭(KDDI)   |
|    |                                                       | 2022年6月22日                                                                                                                                                                                                                                                             | 更新   | 組織構成、メンバ数、活動状況ほか |

(2020年度版)

(注1) 日系企業とは親会社が日本企業かどうかで判断する。

(注2) 「TTC活動との関連性」とはTTCの専門委員会の活動と関連しているかを示す記載とし、理由には具体的な専門委員会名と関連している部分等を記載する。