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| 1 | 組 織 名 称 ( 略 称 )                  | O-RAN Alliance(O-RAN)<br>https://www.o-ran.org/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |        |      |            |             |      |  |
| 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( ) |      |            |             |      |  |
|   | 対象技術分野                           | ②通信技術(加入者系、宅内系関連)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   | 対象サービス |      | ⑨複数サービスに該当 |             |      |  |
|   | 技 術 M A P                        | 活動エリア                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ⑤モバイル系領域を中心に活動を実施 |        | 活動領域 |            | ②NW領域の活動を実施 |      |  |
| 3 | 目 的                              | 5G時代の通信サービスに必要なネットワークのインテリジェント化を図ること。<br>機器開発のベースとなるオープンインターフェース使用を策定すること。<br>ハードウェアとソフトウェアの参照モデルを策定すること。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |        |      |            |             |      |  |
| 4 | 組 織 構 成                          | Management structure<br>・Board of Directors:<br>15 operators<br>5 Founding Members(AT&T, China Mobile, Deutsche Telekom, NTT DOCOMO, Orange)<br>10 Elected Member(Bharti Airtel, DISH Network, KDDI, Rakuten Mobile, Reliance Jio, Singtel, Telefonica, TIM, Verizon, Vodafone)<br>・Executive Committee(EC):<br>5 Founding Members(AT&T, China Mobile, Deutsche Telekom, NTT DOCOMO, Orange) + 2 Elected Members<br>・Technical Steering Committee(TSC):<br>議長(Stanford Univ.、China Mobile) + Technical Work Groupの議長<br><br>O-RAN Technical Work Groups:<br>・WG1: Use Cases and Overall Architecture Work Group<br>・WG2: The Non-real-time RAN Intelligent Controller and A1 Interface Workgroup<br>・WG3: The Near-real-time RIC and E2 Interface Work Group<br>・WG4: The Open Fronthaul Interfaces Work Group<br>・WG5: The Open F1/W1/E1/X2/Xn Interface Work Group<br>・WG6: The Cloudification and Orchestration Work Group<br>・WG7: The White-box Hardware Work Group<br>・WG8: Stack Reference Design Work Group<br>・WG9: Open X-haul Transport Work Group<br>・WG10: OAM Work Group<br>・WG11: Security Work Group<br>O-RAN Focus Groups and Research Groups:<br>・SDFG: Standard Development Focus Group<br>・OSFG: Open Source Focus Group<br>・TIFG: Testing and Integration Focus Group<br>・nGRG: next Generation Research Group |                   |        |      |            |             |      |  |
| 5 | 参 加 資 格<br>会 費                   | Members: \$50,000 (mobile operators and strong advocates of the O-RAN Alliance goals and objectives)<br>Contributors: \$25,000<br>SME Contributors: \$10,000(従業員500人未満または年売上\$50 million未満)<br>Startup Contributors: \$5,000(従業員50人未満)<br>Academic Contributors: \$1,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |        |      |            |             |      |  |
| 6 | 主 要 メ ン バ<br>(2022年9月現在)<br>(注1) | Operator Members: 31社(AT&T, China Mobile, Deutscher Telekom, NTT docomo, Orange, Bharti Airtel, Bell, BT, China Telecom, China Unicom, Chunghwa Telecom, DISH Network, KDDI, LG U+, 1&1 AG, Rakuten Mobile, Reliance Jio, Singtel, SK Telecom, Softbank, Telefonica, Telstra, Telus, T. T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |        |      |            |             |      |  |

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|    |                                | Mobile, US Cellular, Verizon, Vodafone, KT, mobifone, stc)<br>うち日本企業: NTT docomo、KDDI、Rakuten Mobile、SoftBank<br><br>会員数: 296<br>うち日系企業数: 14 (NTT docomo、KDDI、Rakuten Mobile、SoftBank、アンリツ、富士通、日立、京セラ、NEC、ルネサス、住友電工、東芝、YRP、YRP研究開発推進協会)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 7  | 他 団 体 ・ 組 織<br>と の 関 係         | Linux Foundationと連携してRANソフトウェア開発を支援するO-RAN Software Communityを運営 ( <a href="https://o-ran-sc.org/">https://o-ran-sc.org/</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 8  | T T C 活 動<br>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> ⑭3GPP<br/> ⑬移動通信網マネジメント </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 9  | 活 動 状 況                        | Events<br>• O-RAN ALLIANCE Industry Summit (on-line), June 2022<br>• O-RAN ALLIANCE Industry Briefing, March 1, 2022<br><br>Press Releases<br>August 26, 2022<br>• O-RAN ALLIANCE Announces Speakers at the Open RAN Summit @ Fyuz and Changes in its Leadership<br>July 14, 2022<br>• O-RAN ALLIANCE Announces 52 New Specifications, 6th Release of Open Software for the RAN “F”, and First O-RAN Certificates<br>June 30, 2022<br>• O-RAN Announces Certification and Badging Program, Next Generation Research Group, Open RAN Summit, and Results of Spring 2022 PlugFest<br>June 9, 2022<br>• O-RAN ALLIANCE Announces its June 2022 Industry Summit, Progress of its Global PlugFest Spring 2022 and a New Set of O-RAN Demos<br>April 6, 2022<br>• O-RAN ALLIANCE Announces its Release 002, New Specifications and 2022 Global PlugFests<br>February 14, 2022<br>• O-RAN ALLIANCE Announces New Demonstrations of O-RAN Technology and Details of its Industry Briefing at MWC Barcelona<br>January 25, 2022<br>• The O-RAN ALLIANCE Announces the 5th Release of Its Open Source Software and an Industry Briefing at MWC Barcelona<br>December 15, 2021<br>• O-RAN Global PlugFest 2021 Demonstrates Stronger Ecosystem and Maturing Solutions<br>October 22, 2021<br>• O-RAN ALLIANCE Announces New Specifications, 3rd Global Plugfest and New Demonstrations of O-RAN Technology<br>September 13, 2021<br>• O-RAN ALLIANCE Remains Fully Committed to its Mission Towards Open and Intelligent RAN<br>August 16, 2021<br>• O-RAN ALLIANCE Broadens Its Industry Collaboration with ETSI, Announces its 3rd Whitepaper, and 4th Release of Open Software |
| 10 | 設 立 時 期                        | 2018年2月                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 11 | 本 部 所 在 地                      | Buschkauler Weg 27, 53347 Alfter/Germany                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 12 | 関 連 標 準 化 技 術                  | これまでに発行されたO-RANの仕様<br>WG1: Use Cases and Overall Architecture Workgroup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|  | <ul style="list-style-type: none"> <li>• O-RAN Architecture-Description 6.0<br/>O-RAN.WG1.O-RAN-Architecture-Description-v06.00 March 2022</li> <li>• O-RAN Information Model and Data Models 1.0<br/>O-RAN.WG1.Information Model and Data Models-v01.00 February 2021</li> <li>• O-RAN Massive MIMO Use Cases Technical Report 1.0<br/>O-RAN.WG1.mMIMO-Use-Cases-TR-v01.00 July 2022</li> <li>• O-RAN Operations and Maintenance Architecture 4.0<br/>O-RAN.WG1.OAM-Architecture-v04.00 February 2021</li> <li>• O-RAN Operations and Maintenance Interface 4.0<br/>O-RAN.WG1.O1-Interface.0-v04.00 February 2021</li> <li>• O-RAN Slicing Architecture 7.0<br/>O-RAN.WG1.Slicing-Architecture-v07.00 July 2022</li> <li>• O-RAN Study on O-RAN Slicing 2.0<br/>O-RAN.WG1.Study-on-O-RAN-Slicing-v02.00 April 2020</li> <li>• O-RAN Use Cases Analysis Report 8.0<br/>O-RAN.WG1.Use-Cases-Analysis-Report-v08.00 July 2022</li> <li>• O-RAN Use Cases Detailed Specification 8.0<br/>O-RAN.WG1.Use-Cases-Detailed-Specification-v08.00 July 2022</li> </ul> <p>WG2: Non-real-time RAN Intelligent Controller and A1 Interface Workgroup</p> <ul style="list-style-type: none"> <li>• O-RAN R1 Use Cases and Requirements 1.0<br/>O-RAN.WG2.R1 Use Cases and Requirements.v01.00 July 2022</li> <li>• O-RAN A1 interface: Application Protocol 3.02<br/>O-RAN.WG2.A1AP-v03.02 July 2022</li> <li>• O-RAN A1 interface: General Aspects and Principles 2.03<br/>O-RAN.WG2.A1GAP-v02.03 October 2021</li> <li>• O-RAN A1 interface: Test Specification 2.0<br/>O-RAN.WG2.A1TS-v02.00 July 2022</li> <li>• O-RAN A1 interface: Transport Protocol 1.01<br/>O-RAN.WG2.A1TP-v01.01 June 2021</li> <li>• O-RAN A1 interface: Type Definitions 3.0<br/>O-RAN.WG2.A1TD-v03.00 July 2022</li> <li>• O-RAN AI/ML workflow description and requirements 1.03<br/>O-RAN.WG2.AIML-v01.03 October 2021</li> <li>• O-RAN Non-RT RIC &amp; A1 Interface: Use Cases and Requirements 6.0<br/>O-RAN.WG2.Use-Case-Requirements-v06.00 July 2022</li> <li>• O-RAN Non-RT RIC Architecture 2.0<br/>O-RAN.WG2.Non-RT-RIC-ARCH-TS-v02.00 July 2022</li> <li>• O-RAN Non-RT RIC: Functional Architecture 1.01<br/>O-RAN.WG2.Non-RT-RIC-ARCH-TR-v01.01 June 2021</li> <li>• O-RAN R1 interface: General Aspects and Principles 2.0<br/>O-RAN.WG2.R1GAP-v02.00 July 2022</li> <li>• O-RAN Transport Protocols for R1 Services 1.0<br/>O-RAN.WG2.R1TP-v01.00 July 2022</li> </ul> <p>WG3: Near-real-time RIC and E2 Interface Workgroup</p> <ul style="list-style-type: none"> <li>• O-RAN E2 Interface Test Specification 1.0<br/>O-RAN.WG3.E2TS-v01.00 July 2022</li> <li>• O-RAN Near-Real-time RAN Intelligent Controller Architecture &amp; E2 General Aspects and Principles 2.02<br/>O-RAN.WG3.E2GAP-v02.02 July 2022</li> <li>• O-RAN Near-Real-time RAN Intelligent Controller E2 Service Model (E2 SM) 2.01<br/>O-RAN.WG3.E2SM-v02.01 March 2022</li> <li>• O-RAN Near-Real-time RAN Intelligent Controller E2 Service Model (E2 SM) KPM 2.02<br/>O-RAN.WG3.E2SM-KPM-v02.02 July 2022</li> <li>• O-RAN Near-Real-time RAN Intelligent Controller E2 Service Model (E2</li> </ul> |
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|  |  | <p>SM), RAN Function Network Interface (NI) 1.0<br/> ORAN-WG3.E2SM-NI-v01.00 February 2020</p> <ul style="list-style-type: none"> <li>• O-RAN Near-Real-time RAN Intelligent Controller E2 Service Model (E2 SM), RAN Control 1.02<br/> O-RAN.WG3.E2SM-RC-v01.02 July 2022</li> <li>• O-RAN Near-Real-time RAN Intelligent Controller, E2 Application Protocol (E2AP) 2.02<br/> O-RAN.WG3.E2AP-v02.02 July 2022</li> <li>• O-RAN Near-RT RAN Intelligent Controller Near-RT RIC Architecture 2.01<br/> O-RAN.WG3.RICARCH-v02.01 March 2022</li> <li>• O-RAN Use Cases and Requirements 1.0<br/> O-RAN.WG3.UCR-v01.00 October 2021</li> </ul> <p>WG4: Open Fronthaul Interfaces Workgroup</p> <ul style="list-style-type: none"> <li>• O-RAN Control, User and Synchronization Plane Specification 9.0<br/> O-RAN.WG4.CUS.0-v09.00 July 2022</li> <li>• O-RAN Control, User and Synchronization Plane Specification 8.01<br/> O-RAN.WG4.CUS.0-v08.01 May 2022</li> <li>• O-RAN Control, User and Synchronization Plane Specification 7.02<br/> O-RAN.WG4.CUS.0-v07.02 May 2022</li> <li>• O-RAN Fronthaul Conformance Test Specification 5.0<br/> O-RAN.WG4.CONF.0-v05.00 July 2022</li> <li>• O-RAN Fronthaul Cooperative Transport Interface Transport Control Plane Specification 2.0<br/> O-RAN.WG4.CTI-TCP.0-v02.00 June 2021</li> <li>• O-RAN Fronthaul Cooperative Transport Interface Transport Management Plane Specification 2.0<br/> O-RAN.WG4.CTI-TMP.0-v02.00 June 2021</li> <li>• O-RAN Fronthaul Cooperative Transport Interface Transport Management Plane Specification - YANG Models 2.0<br/> O-RAN.WG4.CTI-TMP-YANG.0-v02.00 June 2021</li> <li>• O-RAN Fronthaul Interoperability Test Specification (IOT) 7.0<br/> O-RAN.WG4.IOT.0-v07.00 July 2022</li> <li>• O-RAN Management Plane Specification 9.0<br/> O-RAN.WG4.MP.0-v09.00 July 2022</li> <li>• O-RAN Management Plane Specification 7.01<br/> O-RAN.WG4.MP.0-v07.01 April 2022</li> <li>• O-RAN Management Plane Specification - YANG Models 9.0<br/> O-RAN.WG4.MP-YANGs-v09.00 July 2022</li> <li>• O-RAN Management Plane Specification - YANG Models 7.01<br/> O-RAN.WG4.MP-YANGs-v07.01 March 2022</li> </ul> <p>WG5: Open F1/W1/E1/X2/Xn Interface Workgroup</p> <ul style="list-style-type: none"> <li>• O-RAN Interoperability Test Specification (IOT) 4.0<br/> O-RAN.WG5.IOT.0-v04.00 July 2022</li> <li>• O-RAN NR C-plane profile 7.0<br/> O-RAN.WG5.C.1-v07.00 July 2022</li> <li>• O-RAN NR U-plane profile 5.0<br/> O-RAN.WG5.U.0-v05.00 March 2022</li> <li>• O-RAN O1 Interface specification for O-CU-UP and O-CU-CP 3.0<br/> O-RAN.WG5.O-CU-O1.0-v03.00 July 2022</li> <li>• O-RAN O1 Interface specification for O-DU 4.0<br/> O-RAN.WG5.O-DU-O1.0-v04.00 July 2022</li> <li>• O-RAN O1 Interface specification for O-DU - Configuration Tables 4.0<br/> O-RAN.WG5.O-DU-O1.0-v04.00-AnnexD July 2022</li> <li>• O-RAN O1 Interface specification for O-DU - YANG Models 4.0<br/> O-RAN.WG5.O-DU-O1.0-v04.00-YANGs July 2022</li> <li>• O-RAN Transport specification 1.0<br/> O-RAN.WG5.Transport.0-v01.00 April 2020</li> </ul> |
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|  |  | <ul style="list-style-type: none"> <li>• O1 Interface specification for O-CU-UP and O-CU-CP - YANG Models 3.0<br/>O-RAN.WG5.O-CU-O1.0-v03.00-YANGs July 2022</li> </ul> <p>WG6: Cloudification and Orchestration Workgroup</p> <ul style="list-style-type: none"> <li>• O-RAN Acceleration Abstraction Layer AAL Profile - MUMIMO Precoder/BeamFormer Calculation 1.0<br/>O-RAN.WG6.AAL-MUMIMO-BF-Calc-Profile-v01.00 July 2022</li> <li>• O-RAN Acceleration Abstraction Layer Common API 1.0<br/>O-RAN.WG6.AAL-Common-API-v01.00 July 2022</li> <li>• O-RAN Acceleration Abstraction Layer FEC Profiles 2.0<br/>O-RAN.WG6.AAL-FEC.0-v02.00 July 2022</li> <li>• O-RAN Acceleration Abstraction Layer General Aspects and Principles 3.0<br/>O-RAN.WG6.AAL-GAnP.0-v03.00 July 2022</li> <li>• O-RAN Acceleration Abstraction Layer High-PHY Profiles 2.0<br/>O-RAN.WG6.AAL-HI_PHY.0-v02.00 July 2022</li> <li>• O-RAN Cloud Architecture and Deployment Scenarios for O-RAN Virtualized RAN 3.0<br/>O-RAN.WG6.CADS-v03.00 July 2022</li> <li>• O-RAN Cloud Platform Reference Designs 2.0<br/>O-RAN.WG6.CLOUD-REF-v02.00 February 2021</li> <li>• O-RAN Cloudification and Orchestration Use Cases and Requirements for O-RAN Virtualized RAN 4.0<br/>O-RAN.WG6.ORCH-USE-CASES-v04.00 July 2022</li> <li>• O-RAN O-Cloud Notification API Specification for Event Consumers 2.01<br/>O-RAN.WG6.O-Cloud Notification API-v02.01 July 2022</li> <li>• O-RAN O2 General Aspects and Principles 1.02<br/>O-RAN.WG6.O2-GAnP-v01.02 March 2022</li> <li>• O-RAN O2dms Interface Specification: Kubernetes Native API Profile for Containerized NFs 1.0<br/>O-RAN.WG6.O2DMS-INTERFACE-K8S-PROFILE-v01.00 July 2022</li> <li>• O-RAN O2dms Interface Specification: Profile based on ETSI NFV Protocol and Data Models 1.0<br/>O-RAN.WG6.O2DMS-INTERFACE-ETSI-NFV-PROFILE-v01.00 July 2022</li> <li>• O-RAN O2ims Interface Specification 2.0<br/>O-RAN.WG6.O2IMS-INTERFACE-v02.00 July 2022</li> </ul> <p>WG7: White-box Hardware Workgroup</p> <ul style="list-style-type: none"> <li>• O-RAN Deployment Scenarios and Base Station Classes 3.0<br/>O-RAN.WG7.DSC.0-v03.00 October 2021</li> <li>• O-RAN Hardware Reference Design Specification for Fronthaul Gateway 2.0<br/>O-RAN.WG7.FHGW-HRD.0-v02.00 October 2021</li> <li>• O-RAN Hardware Reference Design Specification for Indoor Pico Cell with Fronthaul Split Option 6 2.0<br/>O-RAN.WG7.IPC-HRD-Opt6-v02.00 October 2021</li> <li>• O-RAN Hardware Reference Design Specification for Indoor Picocell (FR1) with Split Architecture Option 7-2 3.0<br/>O-RAN.WG7.IPC-HRD-Opt7-2.0-v03.00 October 2021</li> <li>• O-RAN Hardware Reference Design Specification for Indoor Picocell (FR1) with Split Architecture Option 8 3.0<br/>O-RAN.WG7.IPC-HRD-Opt8.0-v03.00 October 2021</li> <li>• O-RAN Hardware Reference Design Specification for Outdoor Macro Cell with Split Architecture Option 7.2 1.0<br/>O-RAN.WG7.OMAC-HRD-v01.00 July 2022</li> <li>• O-RAN Hardware Reference Design Specification for Outdoor Micro Cell with Split Architecture Option 7.2 2.0<br/>O-RAN.WG7.OMC-HRD-Opt7-2-v02.00 October 2021</li> </ul> |
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|  | <ul style="list-style-type: none"> <li>• O-RAN Indoor Picocell Hardware Architecture and Requirement (FR1 Only) Specification 1.0<br/>O-RAN.WG7.IPC-HAR.0-v01.00 April 2020</li> <li>• O-RAN Outdoor Macrocell Hardware Architecture and Requirements (FR1) Specification 1.0<br/>O-RAN.WG7.OMAC-HAR.0-v01.00 June 2021</li> <li>• O-RAN Outdoor Micro Cell Hardware Architecture and Requirements (FR1) Specification 1.0<br/>O-RAN.WG7.OMC-HAR.0-v01.00 June 2021</li> </ul> <p>WG8: Stack Reference Design Workgroup</p> <ul style="list-style-type: none"> <li>• O-RAN Base Station O-DU and O-CU Software Architecture and APIs 6.0<br/>O-RAN.WG8.AAD-v06.00 July 2022</li> <li>• O-RAN Stack Interoperability Test Specification 4.0<br/>O-RAN.WG8-IOT-v04.00 July 2022</li> </ul> <p>WG9: Open X-haul Transport Workgroup</p> <ul style="list-style-type: none"> <li>• O-RAN Management interfaces for Transport Network Elements 4.0<br/>O-RAN.WG9.XTRP-MGT.0-v04.0 July 2022</li> <li>• O-RAN Synchronization Architecture and Solution Specification 2.0<br/>O-RAN.WG9.XTRP-SYN.0-v02.00 March 2022</li> <li>• O-RAN WDM-based Fronthaul Networks 2.0<br/>O-RAN.WG9.WDM-v02.00 March 2022</li> <li>• O-RAN Xhaul Packet Switched Architectures and Solutions 3.0<br/>O-RAN.WG9.XPSAAS-v03.00 July 2022</li> <li>• O-RAN Xhaul Transport Requirements 1.0<br/>O-RAN.WG9.XTRP-REQ-v01.00 February 2021</li> <li>• O-RAN Xhaul Transport Testing 1.01<br/>O-RAN.WG9.XTRP-TST-v01.01 October 2021</li> </ul> <p>WG10: OAM for O-RAN</p> <ul style="list-style-type: none"> <li>• O-RAN Information Model and Data Models Specification 3.0<br/>O-RAN.WG10.Information Model and Data Models.0-v03.00 July 2022</li> <li>• O-RAN Operations and Maintenance Architecture 7.0<br/>O-RAN.WG10.OAM-Architecture-v07.00 July 2022</li> <li>• O-RAN Operations and Maintenance Interface Specification 7.0<br/>O-RAN.WG10.O1-Interface.0-v07.00 July 2022</li> <li>• O-RAN End-to-End System Testing Framework Specification 1.0<br/>O-RAN.TIFG.E2ETSTFWK.0-v01.00 October 2020</li> <li>• O-RAN Certification and Badging Processes and Procedures 4.0<br/>O-RAN.TIFG.Cert-Badge.0-v04.00 July 2022</li> <li>• O-RAN Criteria and Guidelines of Open Testing and Integration Centre 3.0<br/>O-RAN.TIFG.CGofOTIC.0-v03.00 October 2021</li> <li>• O-RAN End-to-end Test Specification 3.0<br/>O-RAN.TIFG.E2E-Test.0-v03.00 July 2022</li> </ul> <p>WG11: Security Work Group</p> <ul style="list-style-type: none"> <li>• O-RAN Security Protocols Specifications 3.0<br/>O-RAN.SFG.Security-Protocols-Specifications-v03.00 March 2022</li> <li>• O-RAN Security Requirements Specification 3.0<br/>O-RAN.SFG.O-RAN-Security-Requirements-Specifications-v03.00 July 2022</li> <li>• O-RAN Security Test Specifications 2.0<br/>O-RAN.SFG.Security-Test-Specifications-v02.00 July 2022</li> <li>• O-RAN Security Threat Modeling and Remediation Analysis 3.0<br/>O-RAN.SFG.O-RAN-Threat-Model-v03.00 July 2022</li> <li>• O-RAN Study on Security for Near Real Time RIC and xApps 1.0<br/>O-RAN.SFG.Security-Near-RT-RIC-xApps-v01.00 July 2022</li> <li>• O-RAN Study on Security for Non-RT-RIC 1.0<br/>O-RAN.SFG.Non-RT-RIC-Security-TR-v01.00 July 2022</li> </ul> |
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|    |                                                       | ・ O-RAN Study on Security for O-CLOUD 1.0<br>O-RAN.SFG.O-CLOUD-Security-TR-v01.00 July 2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |              |
| 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:<br>O-RAN ALLIANCE INTELLECTUAL PROPERTY RIGHT POLICY<br>< <a href="https://assets.website-files.com/60b1962ffda0a42f779c765b/62bcc668e32ac93d1cc5ad8a_O-RAN%20ALLIANCE%20IPR%20Policy_2022-07-01.pdf">https://assets.website-files.com/60b1962ffda0a42f779c765b/62bcc668e32ac93d1cc5ad8a_O-RAN%20ALLIANCE%20IPR%20Policy_2022-07-01.pdf</a> ><br><br>Bylaws:<br>O-RAN Alliance e.V. Constitution<br>< <a href="https://assets.website-files.com/60b1962ffda0a42f779c765b/60d337104e1a555f3239d552_O-RAN%2Be.V.%2B%2BConstitution%2B27-06-2018%2BExhibit%2BA%2Bv01%2BEN%2Bclean.pdf">https://assets.website-files.com/60b1962ffda0a42f779c765b/60d337104e1a555f3239d552_O-RAN%2Be.V.%2B%2BConstitution%2B27-06-2018%2BExhibit%2BA%2Bv01%2BEN%2Bclean.pdf</a> > |      |              |
| 14 | 備 考<br>( 普 及 状 況 な ど )                                | 認証バッジカタログ: 2件<br>< <a href="https://www.o-ran.org/testing-integration#learn-otic">https://www.o-ran.org/testing-integration#learn-otic</a> >                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |              |
| 15 | 更 新 履 歴                                               | 2019年6月19日                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 初版作成 |              |
|    |                                                       | 2021年7月28日                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 更新   | 担当: 堀田(三菱電機) |
|    |                                                       | 2022年9月5日                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 〃    | 〃            |

(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。