Terms of Reference of the SDG TFS
as approved by the Director-General on 16 January 2024

1 Scope

SDG TFS defines a framework for the development of a cloud native network controller for high-capacity networks aiming to support future networks beyond 5G. Based on a cloud-native, micro-services architecture, the TeraFlowSDN provides a network automation framework that allows to control and manage multiple underlying network equipment, such as routers, switches, microwave or optical networks. It provides a toolbox for different ETSI groups to experiment with novel network features for flow aggregation, management (service layer), network equipment integration (infrastructure layer), AI/ML-based security, and forensic evidence for multi-tenancy.

TeraFlowSDN aims for interoperability with the code developed by OSG Open Source MANO, SDG OpenSlice and SDG OpenCAPIF, to enable end-to-end experimentation, testing and PoCs for complex telco use cases. SDG TFS will also liaise with 3rd party open source projects and seek for collaboration and code reuse.

SDG TFS focuses on TeraFlowSDN software development tasks. Standardization work, if identified by SDG TFS, will be taken by its members to the appropriate SDO under the appropriate IPR regime.

SDG TFS will liaise with relevant ETSI and external standardization groups and will aim to provide prompt and regular feedback to those groups which will contribute to accelerate standardization cycles and improve the quality of the standards in scope.

2 Operation

SDG TFS will operate according to Clause 7 of the ETSI Technical Working Procedures with the following precisions:

Annual Participation Fee (ETSI TWP Clause 7.4.4)
SDG TFS Members are not required to pay a participation fee. SDG TFS Participants shall pay to ETSI an annual participation fee. Participation fee for the first year is based on the date the SDG TFS Agreement is signed. Participation fees are waived in the case of SMEs, Universities, Public Research Bodies and Users and Trade Associations. The participation fee may be modified by a decision of the Director-General. The current participation fee is detailed in the ETSI Portal.

Individual Contributions (ETSI TWP Clause 7.4.6)
Individual persons may contribute to the Software or related documentation subject to having signed the SDG Individual Contributor Agreement. Such individuals may also be invited by the SDG Chair to attend meetings of the group.

Decision-making in the Software development activity (ETSI TWP Clause 7.7.8)
Decision-making related to Software development and Software release activities shall be described in the SDG TFS Detailed Working Procedures to be approved at the first SDG Meeting.

SDG Budget (ETSI TWP Clause 7.8)
At the time of creation of the group, no annual budget or costs are anticipated for SDG TFS Members and Participants, beyond the participation fees paid by SDG TFS Participants.

Structure of an SDG (ETSI TWP Clause 7.9)
The SDG TFS internal organization will be described in the SDG TFS Detailed Working Procedures to be approved at the first SDG Meeting.

Access to SDG working documents (ETSI TWP Clause 7.12)
The SDG TFS plenary contributions are available to Members and Participants in the ETSI Portal The software and documentation produced by SDG TFS are publicly available in the ETSI Labs.

3   Collaboration with other Bodies

SDG TFS may set up appropriate communication channels with the following groups:

ETSI GROUPS	
ISG ENI	Industry Specification Group - Experiential Networked Intelligence
ISG F5G	Industry Specification Group – 5th Generation Fixed Network
ISG MEC	Industry Specification Group - Multi-access Edge Computing
ISG mWT	Industry Specification Group - millimetre Wave Transmission
ISG NFV	Industry Specification Group – Network Function Virtualisation
ISG PDL	Industry Specification Group – Permissioned Distributed Ledgers
ISG QKD	Industry Specification Group – Quantum Key Distribution
ISG ZSM	Industry Specification Group - Zero touch network & Service Management
OSG OSM	Open Source Group – Open Source MANO
SDG OCF	Software Development Group – OpenCAPIF
SDG OSL	Software Development Group – OpenSlice
TC SAI	Technical Committee - Securing Artificial Intelligence

and others as identified during the progression of the work.

EXTERNAL GROUPS	
EU Funded Research Projects	ACROSS, AI-NET, ALLEGRO, FLEX-SCALE, Hexa-X-II, Int5Gent, OCTAPUS, SEASON
IETF	The Internet Engineering Task Force
ONF	Open Networking Forum
ONOS	Open Network Operating System
LF ODL	Linux Foundation Open Day Light
LF ONAP	Linux Foundation Open Networking Automation Platform
LF CAMARA	Linux Foundation CAMARA
LFE Sylva	Linux Foundation Europe Sylva
TIP	Telecom Infrastructure Project

and others as identified during the progression of the work.

4   Licenses

4.1 Contributor's License Agreement

Code contributed to SDG TFS is done under terms compliant with the Apache 2.0 license. A Corporate Contributor's License Agreement (CCLA) is included in the SDG TFS Agreement. An Individual Contributor's License Agreement (ICLA) is included in the Individual Contributor Agreement.

4.2 Outbound License

Code published by SDG TFS is made available under the Apache 2.0 license. Contributors retain copyright on their individual contribution. Software is distributed under an ETSI Copyright with acknowledgement of contributors' rights on their contributions.

4.3 Documentation Copyright

Project documentation, when not covered by the outbound license, is published under the Creative Commons Attribution 4.0 International license (https://creativecommons.org/licenses/by/4.0/).

4.4 Licensing-in policy

SDG TFS Detailed Working Procedures will define which open source licenses are accepted when Contributors wish to reuse pre-existing open source components.

4.5 Trademark

TeraFlowSDN can only be registered as a trademark by ETSI. The trademark TeraFlowSDN may only be used to identify and distribute the version of TeraFlowSDN edited and maintained by ETSI.