

### Executive Summary:

Approved Documents:

- 1) Terms of Reference as a baseline document was unanimously approved,
- 2) Operational Model document as a baseline was unanimously approved
- 3) Both documents could be refined taking into account feed-backs and suggestions by members

Future Topics:

- 1) GIO should identify areas of interest to focus on and produce significant and visible outcomes, It is Important to achieve inputs from vertical customers with real problems. GIO should invite end users and experts to participate in the meetings.
- 2) Manufacturing is a very interesting area to investigate
- 3) eHealth emergencies as a subset of the broader eHealth topic and Telemedicine could be a good area to start
- 4) Autonomous Networking, as a key evolution of ICT Digital Infrastructure is another relevant topic for GIO, even more interesting if related to Verticals (Manufacturing, E-health, Energy...)

### 1. Opening

Mr. Boswarthick (meeting moderator) welcomed the participants to the GIO virtual meeting. Mr. Romero introduced the meeting, co-hosted by ETSI and displayed the agenda about the main topics. William Xu also provided an opening speech, welcomed all the GIO participants to join this virtual meeting, primarily exploring the 2 fundamental documents of GIO, the GIO Term of Reference and Operational Model documents; at same time he mentioned that Huawei will continue to sponsor GIO, and also welcomed other sponsors to join

### 2. Agenda

The agenda was approved as presented.

### 3. Presentation of the Terms of Reference and Operational Document

Terms of Reference (ToR):



GIO Terms of  
Reference Document

35 Operations Document:



GIO Operational  
Model Document

40 Martin Creaner introduced the draft GIO terms of reference (ToR), which was developed by a team of people, considering preliminary feed-backs and suggestions of members. It is a simple, open baseline document that can be reviewed and enhanced according to new needs and opportunities.

45 The term 'Table of Representatives' will be used to describe the governing board/steering committee of the GIO. There was then a number of discussion topics raised as follows:

- 50 • There was a brief discussion as to whether GIO only addresses industry issues or whether it also addresses wider societal issue such as environmental impact etc. General agreement that while GIO scope focuses on industry concerns, every one of the participating organizations also have an interest in broader societal issues, and so societal outcomes should be viewed as a positive outcome of GIO, rather than being part of the scope.
- 55 • Identifying what differentiates GIO was raised as being important, with a particular focus on the operational outputs. There was some discussion regarding being clear about the value and benefits that GIO expects to deliver to participants.
- 60 • It was commented that the GIO discussions should always aim to be open, diverse and that in time GIO would establish rules & norms for governing these things. Rules would also be established regarding which topics would be planned to be discussed at GIO meetings. GIO should be an open environment, which means the topics, participants, and rules should be open, and the common organizational procedures, like registration rules, and topics selection principles, should be gradually developed. GIO should fully respect the opinions of the participating organizations and experts, respect the work content and deliverables of the participating organizations and experts. Collaboration of
- 65 actions among all participants was raised as being important.

- Open membership for all industry organizations should be prioritized to encourage participation.
- 70 • Specific deliverables of GIO are not explicitly mentioned in the ToR or Operational Model document, but publications such as white papers are expected to form part of GIO outputs.
- Information exchange and education of & between GIO participants will be important, and while this is mentioned briefly in the ToR document, perhaps this needs to be further emphasized.
- 75 • It was suggested that each industry organization should take an informal target of recommending GIO to one or two other industry organizations with a view to encouraging them to get involved in GIO.
- A question was raised as to whether all GIO activities and outcomes, like notes, minutes etc., were open to the public, and it was confirmed that they are actually open to the public.
- 80 • It was suggested that GIO aim to find a 'starting point' for joint work, where everyone can agree that they share a common goal and value, and agree that digital transformation can bring value to all GIO participants. For example this might be the challenge of Industry & ICT Digital Transformation.
- 85 • It was commented that describing GIO as an 'environment' for cooperation rather than a 'platform' for cooperation was a good choice.
- A question was raised about how GIO will increase its influence and who/what GIO will aim to influence in the future.
- Document approvals were discussed. Mr. Mellor suggested an approach to approvals, whereby lack of dissent indicates consensus.
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David moved to approve the Terms of Reference as a baseline document which can be updated over time. The Terms of Reference were approved unanimously. (APPROVED)

95 David moved to approve the Operational Model document as a baseline which can be updated over time. The Operational Model document was approved unanimously. (APPROVED)

100 Martin Creaner volunteered himself as editor of the updated version of the documents, considering further suggestions from Members, to be delivered before next Table of Representatives meeting. (ACTION)  
Martin will also propose the process to upgrade these documents with the same timeline. (ACTION)

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#### 4. Open Discussion on Topics

An open discussion was facilitated to discuss potential technical topics.

- 110 • Mr. Linehan suggested to start with a bottom-up approach whereby verticals feed into the overarching horizontal topics where there is commonality or overlap.
- Mr. Willetts mentioned that TM Forum has already worked extensively on Smart Cities. He also mentioned that eHealth is a very broad topic and can be difficult to progress due to different national regulations on health. Professor Aguiar agreed with this regulation problem in eHealth.
- 115 • Mr. Creaner suggested that transportation should be generalized to Smart Cities.
- Mr. Licciardi suggested looking at eHealth emergencies as a subset of the broader eHealth topic. Regulation in the healthcare industry could be a potential impediment. The actual COVID 19 emergency can be a real case study to highlight the role of ICT and understand which solutions we need to support Hospitals, Food and materials provisioning, Education and Job continuity.
- 120 • Mr. Willetts also suggested that Telco industry might prove to be a good focus for GIO.
- Mr. Boswarthick agreed that the ICT industry is where the GIO can have an advantage of expertise and relevance and we should consider the digitization and transformation of the ICT vertical/horizontal to be able to better serve the other industries
- 125 • Mr. Mellor commented that GIO should attempt to drive regulation based on trials conducted within GIO.
- Mr. Ouyang mentioned that digitization of the manufacturing sector should be a focus and more generally digitization of all vertical industries. He also mentioned that GIO might be able to develop a clear definition of digital manufacturing and develop a real-life, whole lifecycle use case within a dedicated branch of manufacturing to work on. It will be important to gain input from real vertical customers with real problems. GIO should invite end users or experts to participate in some meetings to help prioritize the requirements and pain points of vertical's end users and generate a list of quantitative deliverables.
- 130 • Mr. Linehan questioned if GIO's scope should also incorporate non-technical focuses such as business strategy, market relevance, funding sources, etc. A list of research topics was suggested.
- 135 • Mr. Romero mentioned that GIO needs a clear focus with a clear outcome and manufacturing might prove to be a good area to focus on. We should consider trying to engage GIO with one or more healthcare industry organizations.
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- 145 • Mr. Willetts agreed that healthcare is an area where GIO could have great impact, would need to focus on a specific area, epidemic containment would clearly be timely, and plays to relevant capabilities of the telecoms industry.
- Dr. Che proposed three potential vertical areas and one horizontal topic of focus for GIO being - Manufacturing, eHealth, Transportation and Autonomous Digital Infrastructure.
- 150 • A number of participants mentioned that Autonomous Networking might prove to be an important topic for GIO, and how this might be extended to Digital Infrastructure and Digital Manufacturing. (ACTION)
- Professor Tafazolli suggested that eHealth would be a good focus for GIO and that Telemedicine could be a good area to start on, and then move to more regulation/policy changes demanding areas in Health. William Xu agreed that 155 eHealth is an important area and potentially a good one for GIO to focus on, multiple new technology can be adopted by eHealth, for example 5G, Big Data, telemedicine, etc.
- Mr. Fisher mentioned that data format and architecture to allow inter-vertical cooperation might be a useful topic to pursue.
- 160 • Mr. Jonathan suggested that although it is ok to have a preferred list of verticals, should also consider welcoming any industry vertical that shows an interest in joining GIO.
- Mr Xuemin Wang mentioned that while vertical industries are interesting we might also consider looking at specific enabling technologies such as AI, Cloud 165 Computing and some basic ICT technologies.
- Mr. Mellor suggested to define a matrix of vertical topics mapped to organizations, weighted by their level of interest. IIC would put big interest in Manufacturing, Transportation, health and Retail. Stephen to submit a draft of such a matrix. (ACTION)
- 170 • Mr. Willetts suggested that a sub group be formed to discuss opportunities in eHealth. IIC, 5GIC, 5GSA all agreed that it would be interesting to participate. Mr. Willetts to organize this meeting. (ACTION)
- Professor Tafazolli suggested if decided to have a meeting at 5GIC, could invite 175 people from Government on NHS (National Health Service) requirements and plans.

## 5. Building GIO Online Community Collaboration and Efficiency

180 Dr. Che presented a roadmap for the technical operational considerations such as a Domain Name Service, email, website, virtual meetings and collaboration platforms. The email service is now ready and the [operation\\_team@gio.zone](mailto:operation_team@gio.zone) as a common mailbox.

The website and file server is expected to be ready over the coming months for common storage of documents at [www.gio.zone](http://www.gio.zone).

## 6. Future Meetings

185 We are not in a position right now to organize a physical face to face meeting, so will  
continue online meetings until the Coronavirus situation is under control. Suggestions  
were made to possibly consider future meetings at either Hannover Messe event in late-  
April or TM Forum DTW event in Copenhagen mid-June 2020. GIO operation team is  
190 looking forward to getting more suggestions from industry leaders of Table of  
Representatives of GIO, to have our next GIO f2f meeting.

If the current Coronavirus Emergency delays the next GIO F2F meeting, GIO operation  
team should propose and make feasible alternative Virtual Solutions to progress GIO  
such as Conference Calls, webinars, etc..

195 Next virtual meetings should address the arguments that were suggested by GIO  
industry leaders today.

The meeting adjourned at 12.08pm CET.

200 **Meeting Documentation:** As soon as the [www.gio.zone](http://www.gio.zone) is available this meeting minutes  
will be on the web link <https://www.gio.zone/docs>, all GIO sharing information  
materials and outcome documents will be stored on [www.gio.zone](http://www.gio.zone) as the files storage  
hub. Members are encouraged to set up the linkage with the GIO files storage hub, just  
like IIC does. <https://www.omg.org/cgi-bin/apps/doclist.pl> (Select “gio” under the  
subgroups and select ‘search’).

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### ACTION LIST:

No.	Action items	Advocates	convener	Time
1	The reviewed version of the Terms of Reference and Operational Documents	All	Martin Creaner	Before 6 <sup>th</sup> Meeting of GIO
2	Process proposal to update ToR and Operations documents	All	Martin Creaner	Before 6 <sup>th</sup> Meeting of GIO
3	Creation of a sub-group to discuss opportunities in eHealth.	TM Forum, IIC, 5GIC, 5GSA, ...	Nik Willetts	2020.6.30

4	Autonomous Networking Infrastructure evaluation to be an important topic for GIO exploring how it might be extended to I Digital Manufacturing	ETSI, TM Forum, 5GSA, ...	Luigi Licciardi	2020.6.30
5	Definition of a matrix of Vertical areas mapped on organizations interest to contribute	IIC, TM Forum, ...	Stephen Mellor	2020.6.30

## ATTENDANCE

210 GIO Table of Representatives and Moderator:

Organizations	Roundtable Leaders	Title	02/24Concall
3GPP	Adrian Scrase	Head of the Mobile Competence Centre	Present
5GAA	Christoph Voigt	Board Chair	
	Markus Dillinger	COO	Apologies
5G-ACIA	Andreas Mueller	Chairman	Apologies
5GSA	Luigi Licciardi	Chairman	Present
All & AIIA	Duo Liu	Chair of the Board Committee of All, Secretary General of AIIA	Apologies
CCSA	Zemin Yang	Vice Chairman of the Council and Secretary-General	Present
China Info 100	Yu Xu	Member of the Executive Committee	
	Yan Zhu	Member of the Executive Committee	Present
ECC	Haibin Yu	Chairman	Apologies
ERTICO-ITS Europe	Francois Fischer	Innovation and Dev Program Manager	Present
ETSI	Luis Jorge Romero	Director General	Present
GSMA	Ian Pannell	Chief Engineer	Present
IIC	Richard Mark Soley	Executive Director	Present
	Stephen Mellor	CTO	Present
ITS	Yan Xu	Board of Directors	Present
JTC 1/SC42	Wael William Diab	Chairman	Apologies
Linux Foundation	Jim Zemlin	Chairman	
	Arpit Joshipura	General Manager of Networking & Edge/IOT	Apologies

Networld 2020	Rui Luis Aguiar	Chairman of the Steering Committee	Present
OPRC	Jonathan Hopkinson	Lead Business Diplomat	Present
TM Forum	Nik Willetts	President & CEO	Present
The Open Group	Steve Nunn	President & CEO	Apologies
The Open Group, AEA	Chris Forde	Vice President President	Apologies
SAC/TC124	Jin Song Ouyang	Vice Principal Committee	Present
UK 5GIC	Rahim Tafazolli	President	Present
Huawei (founder)	William Xu	Executive Director of Board	Present
ETSI (moderator)	David Boswarthick	Director New Technologies	Present

Guest and GIO operation team members sitting in:

<b>Organizations</b>	<b>Guests &amp; Operation Team Members</b>	<b>Title</b>	<b>02/24Concall</b>
Huawei	Evan Xiao	Head of Dept. Standardization & Industry Development	Apologize
Huawei	Xuemin Wang	Head of Dept. European Standardization & Industry Development	Present
IIC	Michael Linehan	Operations Manager	Present
Huawei	Martin Creaner	Senior Advisor of Digital Transformation	Present
Huawei	Haiping Che	Chief Digital Transformation Officer	Present
Huawei	Irene Fang	Senior manager of Industry Strategy & Policy	Present
Huawei	Yaling Zhou	Senior manager of industrial internet industry development	Present



**APPENDIX:**

## 1. Key points from Jin Song Ouyang (SAC TC124)

- 1). Responsibilities for GIO: GIO's philosophy of "openness, respect, and collaboration" is important,
- 220 Open: GIO should be an open platform. The topics, participants, and rules should be open, and the common organizational procedures, registration rules, and topic selection principles should be developed.
- Respect: GIO will fully respect the opinions of the participating organizations and experts, respect the work content and deliverables of the organizations and experts, and use the platform to promotion.
- 225 Collaboration: Based on the opinions of all participants, GIO should promote the collaboration of objectives and actions of all parties, and work together to promote digital transformation.
- 2). Digital transformation of manufacturing industry: the common interest, especially the connotations, descriptions, definitions, and boundaries of basic and common concepts and terms, should coordinate understanding, reach consensus, and publish them in GIO deliverables, to leverage the advantages of each participants and form a synergy, for example, what is digital transformation, and what is digitalization of the manufacturing industry.
- 230 3). ICT applications in vertical industries: should stick to the problem orientation and understand the requirements from the end users of the industries. GIO should invite end users or experts to participate in the meeting, sort out the requirements and pain points of vertical industry end users, and generate a quantitative requirement deliverables. Coordinating all participants of GIO, help end users solve practical problems, and form typical cases and models for digital transformation of vertical industries covering the entire lifecycle. For example, in the healthcare industry, the effectiveness, security, and reliability are emphasized.
- 235 Countries and international organizations have formulated regulations. Therefore, should collaborate with end users and industry organizations to better understand and comply with the regulations in the healthcare industry.

## 2. Key points from Zemin Yang (CCSA)

- 240 ■ All the participants of GIO are different organizations, we are similar in some points, but also have some difference in terms of visions and functions of each organization
- The value of GIO, from CCSA's point of view, to collaboration and talk with all the participants globally
- One of the biggest business for CCSA is industry & ICT digital transformation. In China, we do lots of practices and explores, and is still facing lots of challenges, this is a totally different business we used to do. Most of the GIO participants share and think the similar issue and viewpoints, which will benefit us to think how to do the new business.
- 245 ■ GIO Should find a good start point, which at least most of participants can have the common interest, and finds the common value from the start point. CCSA think industry & ICT digital transformation can be a good start pint for the GIO, can bring value to all GIO participants.
- For CCSA, The industry & ICT digital transformation as start point, can give us enough value, exchange the practice, challenge, and solutions between GIO participants.

## 250 3. Key points from other industry leaders: .....