2018 IEEE 1st 5G World Forum (5GWF'18)

Theme: 5G Vision

9-11 July 2018, Santa Clara, CA, USA

Organized by IEEE 5G Initiative and IEEE Santa Clara Chapter

Call for Papers and Proposals

The 2018 IEEE 1st 5G World Forum (5GWF'18) in Santa Clara, California, seeks contributions on how to nurture and cultivate 5G technologies and applications for the benefit of society.

5G systems should unveil a novel mobile network architecture that not only improves physical data rate, but also creates a new ecosystem allowing the deployment of novel services and applications. A key target is to build a novel network architecture that should support not only classical mobile broadband applications and services but also vertical industry (e.g. Intelligent Transport, Industrial IoTs, eHealth, etc.) and other 5G-based services.

This conference aims to bring experts from industry, academia and research to exchange their vision as well as their achieved advances towards 5G, and encourage innovative cross-domain studies, research, early deployment and large-scale pilot showcases that address the challenges of 5G.

Call for Technical Papers
Call for Special Session Proposals
Call for Workshop Proposals
Call for Tutorial Proposals
Call for Vertical Areas Proposals
Call for Topical Areas Proposals
Call for Industry Forum & Panel Sessions Proposals
Call for Doctoral Symposium Proposals
Call for Start-Ups
Call for Industry Demonstrations

Original, innovative and high quality papers are solicited in the following technical topics of interest, but are not limited to:

Technical Paper Submissions

Track 1: 5G Technologies: EDAS link

Track 2: 5G Application and Services: EDAS link

Track 3: 5G & IoT: EDAS link

Track 4: 5G Security and Privacy: EDAS link

Track 5: 5G Trials, Experimental Results and Deployment Scenarios: EDAS link

Track 6: 5G Hardware and Test / Measurements: EDAS link

Track 7: 5G Special Verticals: EDAS link

Track 8: 5G Special Topical: EDAS link

Proposals for sessions and events of general interest and relevance to 5G will be considered. These should address the Technical Community and/or provide educational or expository material or recognition of significant contributions to the advancement of 5G technologies.

Workshop and Special Session Proposal Submissions: EDAS link

Tutorial Proposal Submissions: EDAS link

Industry Forum Panel proposal submissions: EDAS link

Doctoral Symposium Paper Submissions: EDAS link

Start-ups: EDAS link

Suggestions for speakers, panels, demonstrations, and sessions aimed at: industry technologists, practitioners, managers, and operators; policy makers, public sector administrators, operators of public infrastructure and services; and others involved in the use of 5G; addressing the conference focus Verticals and Topical Areas identified below and in the full-length CFP.

5G Special Vertical Conference Propositions: EDAS link

5G Special Topical Area Conference Propositions: EDAS link

Details of each submission are enumerated as follows:

A. Technical Paper Submissions

Track 1:5G Technologies

○ 5G New Radio (NR) specification ○ Flexible and programmable RAN ○ Cloud-RAN, functional split ○ 5G Ultra large Cell technologies ○ 5G Small Cell Technologies ○ Network Slicing ○ Multi-service architectures ○ 5G wireless technologies ○ Cloud-based 5G mobile architectures ○ 5G Network Function Virtualization (NFV) ○ Software Defined Networking (SDN) for 5G ○ Spectrum utilization and sharing ○ Massive MIMO Communications ○ Dynamic Beamforming techniques ○ Free Space Optical	○ Multicast / Broadcast in 5G ○ Convergence of RAN and Core Network ○ Novel mobility management ○ Mobile Edge Computing (MEC) ○ Multi-Connectivity/RAT ○ Resource (network, relay, cloud-computing, etc.) management techniques in 5G Wireless ○ Device-to-Device Communications and networking ○ Cognitive spectrum access ○ X-haul transport network ○ Self-backhaul / integrated access networks ○ Energy efficient network design and protocols for 5G	○ QoE/QoS management over 5G ○ Dynamic QoS framework as an enabler for disruptive use cases and services ○ Network and protocol interoperability in 5G Wireless Networks ○ Heterogeneous cells and communications ○ Millimeter wave communications ○ Coordinated and small-scale cell communications ○ Machine learning and adaptive techniques for 5G ○ Ultra-reliability and low-latency in 5G

Track 2: 5G Applications and Services

o Smart Cities, Smart Public Places o Smart Home, and 5G-based Building Automation o Smart Agriculture and Water Management o Cyber-physical systems, Context Awareness, Situation Awareness, Ambient Intelligence o Collaborative Applications and Systems o Service Experiences and Analysis	o Consumer Electronics, Assisted Living, Rural Services and Production o 5G Wireless Networks for body sensors o Crowd-sensing, human centric sensing o Big data and 5G Data Analytics o Internet Applications Naming and Identifiers o Social-aware 5G networks o Industry of the future, e.g., Industry 4.0	o Semantic Technologies, Collective Intelligence o Cognitive and Reasoning about Things and Smart Objects o Mobile Cloud Computing (MCC) and 5G o Horizontal application development for 5G o Design principles and best practices for 5G application development o Open Communities, Open API, Open Source o Testbeds
Vertical Oriented Applications o Healthcare, e-Health, Assisted Living o Building Management and Operation Automation o Environmental Monitoring	o Aerospace and Defense o Smart Grid, Energy Management o Utilities Management and Operation o Consumer Electronics, Assisted Living, Rural Services o Mining, Oil & Gas, Digital Oilfield, Electronic Oilfield	o Logistics, Entertainment o Large Event Management o Industrial Service Creation and Management o Financial Services o Health of Machinery o Highway, Rail Systems

o Connected Car, Automotive Intelligent Transport	o Agriculture, Industrial IoT, Manufacturing, Hospitality, Retailing	o Industry of the Future, e.g., Industry 4.0 o Media & Entertainment

Track 3: 5G and IoT

o Architecture of IoT in 5G networks o Software defined solutions for IoT o Energy efficiency and energy harvesting in IoT o Cooperative and smart sensing techniques o Channel characteristics and modeling with dense and sparsely populated sensors o Terminal intelligence and light weight sensors	o Data collection, processing, aggregation, and communication o Efficient resource allocation schemes, QoS, and QoE in IoT o Co-existence and device inter-operability of sensors with 5G networks o Integrated D2D communication techniques for 5G networks o Self-organization and self-healing of IoT networks o Data processing and anomaly detection for IoT networks o Cross-layer design and optimization in IoT	o Relay, multi-hop, and cooperative communication in IoT o Ubiquitous communication, routing protocols, and network selection in IoT o Machine-type communications in 5G systems o Emerging IoT applications in 5G networks o Security issues and solutions for IoT in 5G networks o Sensor deployment, placement, control and management issues o Experimental results, prototypes and testbeds using sensors for 5G technologies

Track 4: 5G Security and Privacy

o 5G Privacy and Security Concerns o Identification and Authentication Issues o Intrusion Detection in 5G o Cryptography, Key Management, Authentication and Authorization for 5G	o Cross-layer Attacks in 5G o Security with QoS Optimization in 5G o Privacy based Channel Access in 5G	o 5G Forensic Science o Big Data and Information Integrity in 5G o Communication Security in 5G o Security Standards in 5G o Open Communities, Open API, Open Source o Testbeds

Track 5: 5G Experimental Results and Deployment Scenarios

5G Experimental Scenarios o Closing the Gap between Research and Implementation o Experimental prototypes, Test-Bed and Field Trial Experiences o Multi-Objective 5G System Modeling and Analysis—Performance, Energy, Reliability, Robustness	o 5G Interconnections Analysis—QoS, Scalability, Performance, Interference o Real case deployment scenarios and results o 5G deployment at Government and ISPs o 5G deployment on agriculture, retails, smart cities, etc.	o 5G Interconnections among ISPs Analysis—QoS, Scalability, Performance, Interference management o Gap Analysis for real deployments o 5G and Future Internet architectures o Standardization and Regulation

Track 6: 5G Hardware and Test / Measurements

o Massive MIMO, MU-MIMO, Multi-RAT system architectures o Reconfigurable and switching wireless network topologies o RF beamforming, digital beamforming and hybrid beamforming architectures o Beam steering and phased arrays o Antenna system architectures o 5G Radio designs o RFIC and CMOS technologies and architectures for 5G o RF, PA, PLL, Source, phase shifting, ADC/DAC/Modem blocks	o Full-Duplex and STAR architectures and evaluation methods o RF blockers and interference cancelers o Test and measurement over entire 5G ecosystem. o Multi-standard coverage and measurement approaches o Antennas and Massive MIMO OTA tests o Array timing and synchronization	o Channel measurements and modeling o Radio measurements at microwave and mm-waves o Signal characterization o 5G device/component level testing; o mmWave Material, transistor and nonlinear device measurements

Track 7: 5G Special Verticals

o Tactile Internet o Smart factories and Industry 4.0 o Automotive, Intelligent Transport	o Industrial 5G Service Creation and Management Aspects o Smart Grid, Energy Management o 5G-based Supply Chains & Logistics	o 5G Wireless Networks for the Industrial Internet of Things o E-Health and mobile health over 5G networks

Track 8: 5G Special Topicals

Policy & Regulation ○ Policy and Regulations ○ 5G Spectrum ○ Best Practices, Standards, and Open Source ○ Technical enforcement of legal 5G regulations, service level agreements, mutual legal assistance requests, etc..	o Privacy and security in 5G Internet of Things: data sharing, threats, liability, audit and compliance concerns for cloud-supported 5G, fog and edge computing	**5G Standardization** ○ ITU-T IMT2020 Spectrum standardisation ○ IEEE 5G standardization ○ 3GPP 5G standardization ○ ITU-T 5G standardization

The 1st IEEE 5G World Forum (IEEE 5GWF'18) solicits technical paper submissions.

- **Full papers** describing original research. Suggested size is four pages; papers up to six pages will be accepted. Extended versions of selected papers may be considered for publication in alternative IEEE publications.

Papers will be fully peer reviewed. If the paper is accepted and presented, it will be included in the conference proceedings and be submitted to the Xplore Digital Library. IEEE takes the protection of intellectual property very seriously. All submissions will be screened for plagiarism using Cross Check. By submitting your work you agree to allow IEEE to screen your work for plagiarism: http://www.crossref.org/crosscheck/index.html

How to submit

All papers must be submitted in PDF and US letter format. Submitted papers must conform to the IEEE formatting guidelines as specified in these templates (Word Template, LaTeX package). All papers must be submitted electronically: http://www.ieee-wf-5g.org/

Important Dates for Paper Submissions

Technical paper submission: ~~**November 30, 2017**~~ **28 February 2018**
Acceptance Notification: ~~**January 15, 2018**~~ **30 April 2018**
Camera-ready submission: ~~**February 28, 2018**~~ **15 May 2018**
Papers must be submitted electronically - see above for EDAS links for each track

Contacts for Technical Papers

Adlen Ksentini adlen.ksentini@eurecom.fr , Eurecom, France
Athul Prasad athul.prasad@nokia-bell-labs.com , NOKIA Bell Labs, Finland

B. Special Sessions Proposal Submissions

IEEE 5GWF'18 will be hosting a series of special sessions. Special sessions feature topics relevant to the 5G community on the latest research, engineering, standards and business issues They provide a sample of the state-of-the-art research in both academia and industry in special, novel, challenging, and emerging topics. Special sessions typically include a mix of regular and invited presentations including regular papers, invited papers, as well as invited presentations and panels to facilitate highly interactive sessions. Special-session proposals should be submitted by the prospective organizer(s) who will commit to promoting and handling the review process of their special session as Chairs or Co-Chairs of the event. Proposals should include the following information (maximum five pages):

- Special session title
- Length of the special session (half/full day)
- Name(s) of special session organizer(s)
- Email of main contact person
- A brief biography (no more than 200 words per person) of special session organizer(s)
- Brief description of the special session including abstract, scope, outline, importance, and timeliness
- Planned format of the special session including projected number of referred papers and hot topic sessions
- Potential participants including program committee members and invited speakers
- Related topics
- Prior history on past editions of the special session, if any, including the number of submitted and accepted papers, the number of attendees, etc.
- A draft of the call for papers

Accepted events must follow IEEE academic best practices regarding peer reviews and paper publication. Papers submitted to special sessions will have to be evaluated and peer-reviewed along the very same criteria of the regular sessions. Accepted and presented papers will be added to IEEE Xplore and the conference proceedings.

Important dates for Special Session proposal submissions

Proposal submissions: ~~**December 15, 2017**~~ **15 March 2018**
Acceptance notification: ~~**January 30, 2018**~~ **30 April 2018**
Final manuscript: ~~**March 20, 2018**~~ **20 June 2018**

Submission Guidelines
Please provide all the information requested above when preparing your special session proposal before electronically submitting it in PDF format to **EDAS link**.

Contact for Special Sessions
Alireza Ghasempour, alireza_ghasempour@yahoo.com

C. Workshop Proposal Submissions

IEEE 5GWF'18 will be hosting a series of workshops. Workshops feature topics relevant to the 5G community on the latest research, engineering, standards and business issues. These events typically include a mix of regular and invited presentations including regular papers, invited papers, as well as invited presentations and panels to facilitate highly interactive workshops and special sessions.

How to submit
Each proposal must include the following and should be maximum five pages:

- Workshop title
- Length of the workshop (half/full day)
- Names, main contact, and a short bio (200 words) of the workshop organizers
- Brief description of the workshop including abstract, scope and timeliness.
- Planned format of the workshop including projected number of referred papers, hot topic sessions, keynotes, and panel discussions.
- Potential participants including program committee members and invited speakers.
- Brief description of publicity plan
- Prior history the workshop (if any)
- Draft call for papers
- Any other relevant information

Accepted events must follow IEEE academic best practices regarding peer reviews and paper publication. Accepted and presented papers will be added to IEEE Xplore and the conference proceedings. Workshop and special session proposal must be clearly marked as such and submitted electronically: **EDAS link**

Important dates for Workshops proposal submissions
Proposal submissions: ~~**December 15, 2017**~~ **15 March 2018**
Acceptance notification: ~~**January 30, 2018**~~ **30 April 2018**
Final manuscript: ~~**March 20, 2018**~~ **20 June 2018**

Contact for Workshops
Bala Krishna Maddali m.bala.krishna@ieee.org and Imran Shafique Ansari ansarimran@ieee.org

D. Tutorial Proposal Submissions

IEEE WF-5G 2018 solicits proposals for Half-day Tutorials that complement the regular program with clear and focused coverage in new and emerging topics within the scope of conference. Tutorials are an opportunity for researchers, developers, and practitioners from academia and industry to learn about the state-of-the-art research. Proposals should concisely describe the motivation, the content, and the structure of the tutorial.

Tutorial Proposal Format
Tutorial proposals (4 pages maximum) in PDF format (Column: Single, Font: Times Roman, Size: 11 pt) should be submitted by the prospective Tutorial Speaker(s). Tutorial proposal submission must include the following:

- Title of Tutorial
- Name, Affiliation and E-mail of Tutorial Speaker
- Abstract (200 words)
- Description of the Tutorial Proposal
    - Objectives and motivation
    - Novelty, highlighting the technical innovations presented in this tutorial
    - Tutorial content, indicating the topics that the tutorial will cover in detail
    - Tentative timeline schedule
- Tutorial Length: 1.5 hours
- Intended audience
- Prior history of the tutorial presentations and number of past attendees, if applicable
- Short biography (half page) of Tutorial Speaker

How to submit

Tutorials should complement the regular program with new and emerging topics of interest. Tutorial Proposals must be in single PDF file not exceeding Four Pages and submitted electronically to IEEE WF-5G 2018 Tutorial Track using the EDAS Link.

Important dates for Tutorial proposal submissions

Proposal submissions: ~~**December 15, 2017**~~ **15 March 2018**
Acceptance notification: ~~**January 30, 2018**~~ **30 April 2018**
Final manuscript: ~~**March 20, 2018**~~ **20 June 2018**

Contact for Tutorials:
Bala Krishna Maddali, GGS Indraprastha University, India. E-Mail: m.bala.krishna@ieee.org
Dr. Amruthur Narasimhan, anarasimhan@ieee.org
Alireza Ghasempour, Univ. of Applied Science and Technology, E-Mail: alireza_ghasempour@yahoo.com

E. 5G Focus - Vertical Areas Propositions

Proposals in the Vertical and Topical Areas should address: suggestions for speakers, panel discussions, roundtables, presentation sessions on focus topics, demonstrations of novel or important technologies, and events with other formats that may be effective for furthering the involvement and participation of the attendees.

- Tactile Internet - Meryem Simsek, University of Berkeley simsek@icsi.berkeley.edu
- Automotive, Intelligent Transport - Javier Gozalvez j.gozalvez@umh.es
- 5G for the Industrial Internet of Things - Periklis Chatzimisios peris@it.teithe.gr, Thomas Magedanz, thomas.magedanz@fokus.fraunhofer.de
- E-Health and mobile health over 5G networks - Christoph Thuemmler, C.Thuemmler@napier.ac.uk
- Media & Entertainment - Athul Prasad, athul.prasad@nokia-bell-labs.com, Belkacem Mouhouche, B.Mouhouche@samsung.com, David Gomez Barquero, dagobar@iteam.upv.es
- 5G Applications, Ravikiran Annaswamy, ravikiran.a@ieee.org
- Smart factories and Industry 4.0
- Industrial 5G Service Creation and Management Aspects
- Smart Grid, Energy Management
- 5G-based Supply Chains & Logistics

Important dates for 5G Focus Vertical Area proposal submissions

Proposal submissions: ~~**December 15, 2017**~~ **15 March 2018**
Acceptance notification: ~~**January 30, 2018**~~ **30 April 2018**
Final manuscript: ~~**March 20, 2018**~~ **20 June 2018**

Proposals must be submitted electronically: **EDAS link**

F. 5G Focus - Topical Areas Propositions

- 5G Security and Privacy – Rajendra Hegadi, rajendrahegadi@iiitdwd.ac.in
- Open API, Unbundled, Open Source, and Testbeds - Upkar Dhaliwal, upkard@gmail.com
- Policy and Regulations – Eileen Healy, ehealy@healy-co.com
- 5G Standardization
- 5G Spectrum
- Best Practices, Standards, and Open Source

Important dates for 5G Focus Topical Area proposal submissions

Proposal submissions: ~~**December 15, 2017**~~ **15 March 2018**
Acceptance notification: ~~**January 30, 2018**~~ **30 April 2018**
Final manuscript: ~~**March 20, 2018**~~ **20 June 2018**

Proposals must be submitted electronically: **EDAS link**

Contacts for 5G Focus Vertical & Topical Areas
5G Focus: Vertical Areas Propositions – see email address per topic above
5G Focus: Topical Areas Propositions – see email address per topic above

G. Industry Forum & Panel Sessions proposal submissions

IEEE 5GWF'18 will be hosting Industry Forum & Panel Sessions. Panel presentation materials will not be published in the conference proceedings but will be available on the conference web site. Industrial Forum Panel proposal should contain an

abstract, scope, intended audience, objectives, prior history, an outline, the biographical sketch of presenters, and any other information that may assist in making decisions.

Important dates for Industry Forum and Panel Sessions proposal submissions
Proposal submissions: ~~**December 15, 2017**~~ **15 March 2018**
Acceptance notification: ~~**January 30, 2018**~~ **30 April 2018**
Final manuscript: ~~**March 20, 2018**~~ **20 June 2018**

Proposals must be submitted electronically: **EDAS link**

Contacts for Industry Forum & Panel Sessions:
Abir Chermiti, abir.chermiti.tn@ieee.org
Ajay Rajkumar, ajay.rajkumar@nokia.com
Anand Prasad, anand@bq.jp.nec.com

H. Doctoral Symposium Paper Submissions

The goal of the IEEE 5GWF'18 Doctoral Symposium is to provide a supportive setting in which PhD students can present and receive feedback on their work. Students at different stages in their research will be able to articulate and discuss their problem statement, goals, methods, and results. The symposium also aims to provide students with useful guidance on various aspects of their research from established researchers and the other student attendees. Finally, the symposium seeks to motivate students in the development of their scientific curiosity and facilitate their networking within the research community. The PhD symposium also aims to facilitate networking among researcher in the 5G community and help students establish contacts for entering the job market. PhD Symposium attendance is open to all IEEE 5GWF'18 registrants.

How to Submit

Paper on PhD research project (max. 2-4 pages) formatted as noted above. A letter of recommendation from the supervisor attached to the proposal submission. Full contact information including affiliation, address, e-mail and phone. Papers must be submitted electronically: **EDAS link**

Important dates for Doctoral Symposium paper submissions
Proposal submissions: ~~**December 15, 2017**~~ **15 March 2018**
Acceptance notification: ~~**January 30, 2018**~~ **30 April 2018**
Final manuscript: ~~**March 20, 2018**~~ **20 June 2018**

Contact for Doctoral Symposium
Meryem Simsek, University of Berkeley, simsek@icsi.berkeley.edu

I. Start-ups

This initiative is meant to actively promote the engagement of start-ups and new businesses in pioneering innovation in 5G. The 5G challenges are pretty much known by now such as latency and reliability, something of a holy grail. Shaving latency down to 1ms for a host of applications from virtual reality games to tele-medicine will be another one of the toughest challenges of 5G. Start-ups are invited to showcase their innovation in this track.
EDAS link

Contact:

Sudhir Dixit sudhir.dixit@gmail.com
Douglas Coates douglas.f.coates@ieee.org
Jay Merja jaymerja@ieee.org

J. Industry Demonstrations

The Industry Demonstrations are aimed at the researchers from academia and industry, practicing engineers, and technical managers who need to understand both technical and practical aspects of new and emerging topics within the scope of communications, networking, industrial practices/standards and so on. Industry Demonstrations should also emphasize training for current topics and demonstrate some practical works of interest to the industry targeting near-term implementations and development in those areas. Industry Demonstrations will be scheduled from Monday 9 July to Wednesday 11 July 2018.

A 6-foot tabletop will be allotted to the industry demonstrator with the fee of $2000. The fee can be waived in few cases based on conference organizers' decision. Each tabletop is equipped with a power supply. Any furniture or additional equipment is subject to additional fees. Placement of the tabletop is determined by conference organizers.

Industry Demonstrations Proposal Format
Each proposal (maximum 3 pages) must include:

1. Title of the demonstration
2. Length of the demonstration (Half-day or Full-day)
3. Names, Institutions, addresses, and a short biography (up to 200 words) of the organizers

4. Motivation, background, objective, description of the technical issues that the demonstration will address (1-page max), and timeliness
5. If appropriate, a description of past versions of the demonstration including the number of demonstration, the number of attendees, etc.
6. Public adequacy

Industry Demonstrations Proposal Submission
Proposals should be emailed to Industry Demonstrations Chair, Alireza Ghasempour at alireza_ghasempour@yahoo.com. Please use this template and attach a pdf file to your email and use "Industry Demonstrations Proposal for IEEE 5G-WF 2018" as the title of the email.

General Paper Sunmission Guidelines

Full papers submissions for Technical Paper, Workshop, and Special Session should be written in English with a maximum paper length of SIX (6) printed pages (10 point font) including figures, tables, without incurring additional page charges (maximum of ONE additional page iwth overlength page ccharge if paper is accepted).

When preparing your manuscript, please pay also attention to the following:

- If your paper has been prepared using Microsoft Word or LaTeX, please ensure that you have used the most current version which will help reduce pdf conversion issues such as embedded fonts, bookmarks, etc.
- No page numbers and no headers/footers
- Use non-zero PDF top and bottom margins (typically at least 0.5 inches/12.7 mm) to help indicate if there are any page numbers

Papers Format

Standard IEEE conference templates for Microsoft Word and LaTeX formats can be found here:
http://www.ieee.org/conferences_events/conferences/publishing/templates.html

Papers to be submitted using EDAS System.

Papers are reviewed on the basis that they do not contain plagiarized material and have not been submitted to any other conference at the same time (double submission). These matters are taken very seriously, and the IEEE 5G Initiative will take action against any author who has engaged in either practice.

IEEE Web Page on Plagiarism:
http://www.ieee.org/web/publications/rights/Plagiarism_Guidelines_Intro.html

IEEE Web Page on Double Submission:
http://www.ieee.org/web/publications/rights/Multi_Sub_Guidelines_Intro.html

Please note: To be published in the IEEE 5G World Forum 2018 Conference Proceedings and to be eligible for publication in IEEE Xplore®, an author of an accepted paper is required to register for the conference and the paper must be presented by an author of that paper at the conference unless the TPC Chair grants permission for a substitute presenter arranged in advance the event and who is qualified both to present and answer questions. Non-refundable registration fees must be paid prior to uploading the final IEEE formatted, publication-ready version of the paper. Accepted and presented papers will be published in the IEEE 5G World Forum 2018 Conference Proceedings and submitted to IEEE XPlore® as well as other Abstracting and Indexing (A&I) databases.

CALL FOR PAPERS AND PROPOSALS
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