

Project: IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)

Submission Title: [IG JRE Call for Contributions]

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Abstract: [This Call for Contributions solicits input documentation toward the development the amendment of the clause 20. SUN FSK PHY in IEEE Std 802.15.4™-2015]

Purpose: [Inform potential contributors about work in IG. The contributions will be heard in the upcoming IG JRE Teleconference. The scope of proposals is strictly limited to the amendments of the clause 20. SUN FSK PHY in IEEE Std 802.15.4™-2015. If you are planning to contribute, you are asked to submit a notification of intent to IG JRE chair, Takashi Kuramochi(kuramochi722@dsn.lapis-semi.com) by 29 April 2020.]

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Call for Contributions for IG JRE(Japanese Rate Extension)

Scope of proposals

- Amendments of the clause 20. SUN FSK PHY in IEEE Std 802.15.4™-2015
- The higher data rate extension of the clause 20. SUN FSK PHY in IEEE Std 802.15.4™-2015
- Frequency bands of operation: Initial objectives support for 920-928MHz Japanese frequency region. Proposals may include additional regions.
- Proposals shall consider the following criteria when considering the region:
 - Channel plan
 - TX power
 - Rx Sensitivity
 - modulation details(Filtering/Modulation index/Data rates)
 - RF requirements
 - Compliance with local regulatory requirements

Call for Contributions

IEEE802.15 Japanese Rate Extension Interest Group (IG JRE) is putting out a call for contributions in the area of FSK based Japanese Rate Extension for Smart Utility Networks. Of particular interest are contributions discussing any of the following (or similar) topics:

- Should meet Scope of proposals on slide 3
- Japan or regional use case of SUN FSK rate extension

Example: Obvious extensions for Japan

Frequency band (MHz)	Parameter	Operating mode					
		#1	#2	#3	#4	#5	#6
920-928 MHz	Data rate (kb/s)	50	100	200	400	600	800
	Modulation	2-FSK	2-FSK	2-FSK	4-FSK	2-FSK	4-FSK
	Modulation index	1.0	1.0	1.0	0.33	0.4	0.33
	Channel spacing (kHz)	200	400	600	600	1000	1000
	Standard	802.15.4-2015				Proposed	

Next steps

- Hear proposals at up-coming IG JRE teleconferences 2020.
- Develop PAR/CSD draft based on the proposals

How to Participate ...

- The IEEE802.15 meeting schedule can be found at http://grouper.ieee.org/groups/802/15/pub/Meeting_Plan.html
- Document templates (MsWord and PowerPoint) and instructions for obtaining document numbers are located at <http://grouper.ieee.org/groups/802/15/pub/Download.html>
- IG JRE reflector is (stds-802-15-jre@listserv.ieee.org)
- Documents should be uploaded to <https://mentor.ieee.org/802.15>, to the “IG JRE” interest group by 29 April 2020, AOE (Anywhere On Earth).
- For help with obtaining document numbers, document formatting, document uploading and contribution scheduling, please contract the 802.15 IG JRE chair, Takashi Kuramochi, at kuramochi722@dsn.lapis-semi.com
- The draft objectives of the group (IG JRE) is available at SC WNG session in January 2020: <https://mentor.ieee.org/802.15/documents>