

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 March session. The IEEE 802.15 March Session will be held during the week of 15-20 March 2020 at HILTON ATLANTA in ATLANTA, GEORGIA, USA. 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 9 March 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	#XX	#XX	#XX	#XX
920-928 MHz	Data rate (kb/s)	50	100	200	400	400	600	600	800
	Modulation	2-FSK	2-FSK	2-FSK	4-FSK	2-FSK	2-FSK	4-FSK	4-FSK
	Modulation index	1.0	1.0	1.0	0.33	0.5	0.4	0.5	0.33
	Channel spacing (kHz)	200	400	600	600	200 * N 1 ≤ N ≤ 5	200 * N 1 ≤ N ≤ 5	200 * N 1 ≤ N ≤ 5	200 * N 1 ≤ N ≤ 5
	Standard	802.15.4-2015				Proposed			

Note: N is integer number

Next steps

- Hear proposals at March IG JRE F2F meeting 2020(March 17-19)
- 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
- The next meeting of IG JRE is March 15-20, 2020, Hilton Atlanta, Atlanta Georgia, USA, 802 Plenary Session. The IG JRE interest group will meet on Tuesday through Thursday.
- 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)
- Notification of intent for contributions to IG JRE chair, Takashi Kuramochi, at kuramochi722@dsn.lapis-semi.com by 9 March 2020, AOE (Anywhere On Earth).
- Documents should be uploaded to <https://mentor.ieee.org/802.15>, to the "IG JRE" interest group by Friday, 13 March 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>