

# NB-IoT协议简介

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# NB-IoT协议查询方法

下载地址：

<http://www.3gpp.org/specifications/79-specification-numbering>  
<http://www.3gpp.org/ftp/>

RAN approved REL-13 NB\_IOT CRs (RAN#72):

TSG Tdoc	WG Tdoc	spec	vers.	CR	rev	title
<a href="#">RP-161067</a>	R1-165396	36.201	13.1.0	0014	1	Introduction of NB-IoT
<a href="#">RP-161067</a>	R1-165971	36.211	13.1.0	0224	8	Introduction of NB-IoT
<a href="#">RP-161067</a>	R1-166045	36.212	13.1.0	0192	3	Introduction of Rel-13 feature of NB-IoT in 36.212
<a href="#">RP-161067</a>	R1-165972	36.213	13.1.1	0656	1	Introduction of NB-IoT
<a href="#">RP-161067</a>	R1-165973	36.214	13.1.0	0033	2	Introduction of NB-IoT
<a href="#">RP-161081</a>	R2-164415	36.300	13.3.0	0880	3	Introduction of NB-IoT
<a href="#">RP-161081</a>	R2-164567	36.300	13.3.0	0882	-	Introduction Control Plane CloT EPS Optimization
<a href="#">RP-161081</a>	R2-164568	36.300	13.3.0	0883	-	Introduction of the UE context resume function
<a href="#">RP-161081</a>	R2-164409	36.302	13.1.0	0076	1	Introduction of NB-IoT in 36.302
<a href="#">RP-161195</a>	-	36.304	13.1.0	0311	2	Introduction of NB-IoT in 36.304 including correction of Paging UE_ID for NB-IOT
<a href="#">RP-161081</a>	R2-164513	36.306	13.1.0	1328	2	Introduction of NB-IoT UE capabilities
<a href="#">RP-161081</a>	R2-164521	36.321	13.1.0	0883	4	Introduction of NB-IoT in 36.321
<a href="#">RP-161081</a>	R2-164511	36.322	13.1.0	0121	2	Introduction of NB-IoT
<a href="#">RP-161091</a>	-	36.323	13.1.0	0171	4	Introduction of NB-IoT functionality to PDCP protocol
<a href="#">RP-161211</a>	-	36.331	13.1.0	2231	7	Introduction of NB-IoT in 36.331
<a href="#">RP-161042</a>	R3-160904	36.401	13.1.0	0078	5	Introduction of the UE context resume function
<a href="#">RP-161042</a>	R3-161543	36.413	13.2.0	1383	11	Introduction of the UE Context Resume function

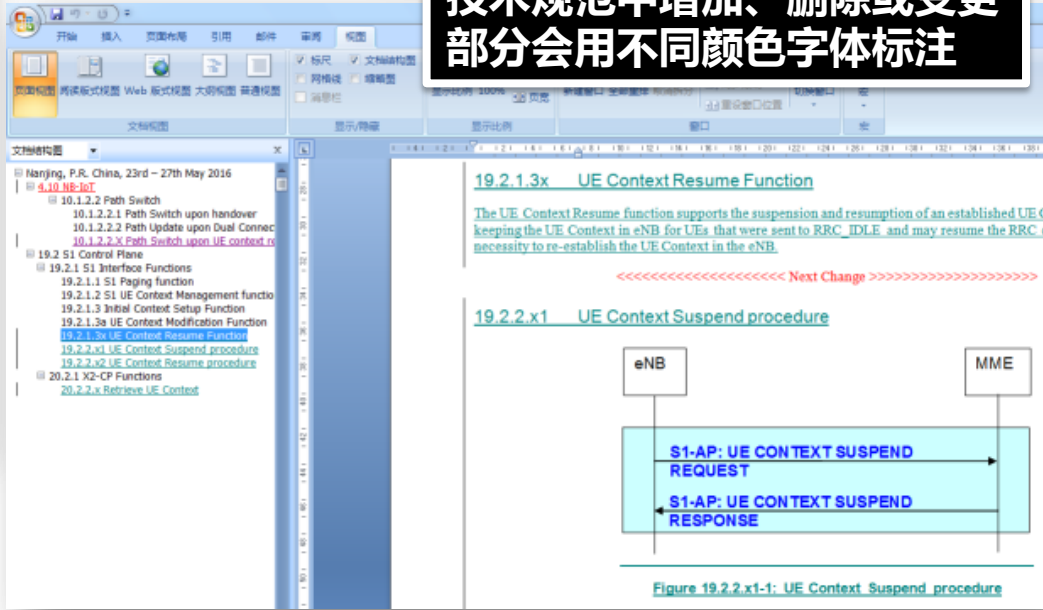
## Project Co-ordination Group (PCG)

TSG RAN	TSG SA	TSG CT
Radio Access Network	Service & Systems Aspects	Core Network & Terminals
RAN WG1 Radio Layer 1 spec	SA WG1 Services	CT WG1 MM/CC/SM (lu)
RAN WG2 Radio Layer 2 spec Radio Layer 3 RR spec	SA WG2 Architecture	CT WG3 Interworking with external networks
RAN WG3 lub spec, lur spec, lu spec UTRAN O&M requirements	SA WG3 Security	CT WG4 MAP/GTP/BCH/SS
RAN WG4 Radio Performance Protocol aspects	SA WG4 Codec	CT WG6 Smart Card Application Aspects
RAN WG5 Mobile Terminal Conformance Testing	SA WG5 Telecom Management	
RAN WG6 Legacy RAN radio and protocol	SA WG6 Mission-critical applications	

## 3GPP组织结构



技术规范中增加、删除或变更部分会用不同颜色字体标注



文档  
提案

技术  
规范

# NB-IoT课程与协议对应表

内容类型	课件名称	主要涉及的3GPP协议	内容占比
基础特性	《NB-IoT特性概述》	45820 ( 7.3节 ) 、 RP-151621	5%
物理层协议	《NB-IoT物理层原理》、 《NB-IoT物理层过程》	36211 ( 第10章 ) 、 36212 ( 第6章 ) 、 36213 ( 第16章 ) 、 36331 ( 6.7节 )	50%
高层协议	《NB-IoT高层协议》、 《NB-IoT信道映射》	36300、 36321、 36322、 36323	5%
网络架构与关键过程	《NB-IoT网络架构与信令流程》、 《NB-IoT空闲态过程》	23682、 23401、 36300、 36306、 36.331 ( 6.7节 ) 、 36413、 36423	35%
规划原理	《NB-IoT规划原理》	45820 ( 7.3节 )	5%

- ◆TR 45820 : Cellular system support for ultra-low complexity and low throughput Internet of Things (CIoT)
- ◆TR 23682 : Architecture enhancements to facilitate communications with packet data networks and applications
- ◆RP-151621 : New Work Item NarrowBand IOT (NB-IOT)