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Provisional Application for Patent Cover Sheet					
This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c)					
Inventor(s)					
Inventor 1					<input type="button" value="Remove"/>
Given Name	Middle Name	Family Name	City	State	Country j
Anil		AGIWAL	Suwon-si		KR
Inventor 2					<input type="button" value="Remove"/>
Given Name	Middle Name	Family Name	City	State	Country j
Youngbin		CHANG	Anyang-si		KR
All Inventors Must Be Listed – Additional Inventor Information blocks may be generated within this form by selecting the Add button.					<input type="button" value="Add"/>
Title of Invention	SYSTEM AND METHOD OF SIGNALING SYSTEM INFORMATION				
Attorney Docket Number (if applicable)	0203-1831				
Correspondence Address					
Direct all correspondence to (select one):					
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Customer Number	68103				

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.	
<input checked="" type="radio"/> No.	
<input type="radio"/> Yes, the invention was made by an agency of the United States Government. The U.S. Government agency name is:	
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Entity Status

Applicant asserts small entity status under 37 CFR 1.27 or applicant certifies micro entity status under 37 CFR 1.29

- Applicant asserts small entity status under 37 CFR 1.27
- Applicant certifies micro entity status under 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.
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Signature

Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/Maeng-Ho SHIN/			Date (YYYY-MM-DD)	2016-02-29
First Name	Maeng-Ho	Last Name	Shin	Registration Number (If appropriate)	53859

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**SYSTEM AND METHOD OF SIGNALING SYSTEM
INFORMATION**

INVENTION TITLE: System & Method of Signaling System Information

DESCRIPTION OF THE INVENTION

1. Describe the disadvantages of the prior art without mentioning your invention (Including any related publicly available documentation, such as journal articles or patents).

In the recent years several broadband wireless technologies have been developed to meet the growing number of broadband subscribers and to provide more and better applications and services. The second generation wireless communication system has been developed to provide voice services while ensuring the mobility of users. Third generation wireless communication system supports not only the voice service but also data service. In recent years, the fourth wireless communication system has been developed to provide high-speed data service. However, currently, the fourth generation wireless communication system suffers from lack of resources to meet the growing demand for high speed data services. So fifth generation wireless communication system is being developed to meet the growing demand for high speed data services, support ultra-reliability and low latency applications and support massive machine type communication.

In the fourth generation wireless communication system, enhanced node B (eNB) or base station in cell broadcast system information. System information is structured into master information block (MIB) and a set of system information blocks (SIBs). MIB consists of System Frame Number (SFN), Downlink System bandwidth and Physical Hybrid ARQ Feedback Indicator Channel (PHICH) configuration. MIB is transmitted every 40ms. It is repeated every 10ms wherein the first transmission occurs in subframe #0 when SFN mod 4 equals zero. MIB is transmitted on physical broadcast channel. System Information Block Type 1 carries cell indemnity, tracking area code, cell barring information, value tag (common for all scheduling units), and scheduling information of other SIBs. SIB 1 is transmitted every 80ms in subframe #5 when SFN mod 8 equals zero. SIB 1 is repeated in subframe#5 when SFN mod 2 equals zero. SIB 1 is transmitted on Physical downlink shared channel. Other SIBs (SIB 2 to SIB 19) are transmitted in System Information (SI) message wherein scheduling info of these SIBs are indicated in SIB 1. SIBs having same periodicity can be transmitted in one SI message. SI message is broadcasted on Physical downlink shared channel. Various SIBs, their usage and typical size is indicated in Table 1 below.

Table 1 System Information in 4G System

SIB Type	Content	SIB Size
SIB 1	Cell ID, value tag & Scheduling info	~500bits
SIB 2	AC-Barring, RACH Info	2216 bits (Max)
SIB 3	Common Cell reselection info & intra frequency cell reselection parameters	~100bits
SIB 4	Intra frequency neighbor cell info	~750bits
SIB 5	Inter frequency cell reselection information	~1000bits
SIB 6	UTRA cell reselection information	~1000bits
SIB 7	GERAN cell reselection information	~1000bits
SIB 8	CDMA 2000 cell reselection information	2216 bits (Max)
SIB 9	Home eNB Info	~56bits

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