

## NFC Patents Data for Standards & Applications 4Q 2011

NFC Patents Data for Standards & Applications 4Q 2011 is a product of TechIPm, LLC (www.techipm.com) based on NFC patents research for US market leaders.

To find the key IPR holders for NFC patents, a keyword search of the USPTO patent data base has been performed as of Oct. 31, 2011. The Key IPR holders are American Express, Apple, AT&T, Bank of America, Broadcom, First Data, Innovision Research & Technology, IBM, Inside Contactless, LG, MasterCard, Microsoft, Motorola, NEC, Nokia, Sony (including Sony Ericsson), NTT DoCoMo, NXP, Oberthur Technologies, Qualcomm, Renesas Technology, RIM, Samsung, Sprint, and STMicroelectronics.

The identified NFC patents are classified by industry standard for NFC technology (under development by the NFC Forum) and major NFC applications. The NFC Forum standard specifications included in the analysis are Activity, Digital, Protocol, LLCP (Logical Link Control Protocol), NDEF (Data Exchange Format), RF/Analog, RTD (Record Type Definition), and Tag Operation. The major NFC applications included in the analysis are NFC device and system (e.g. security), mobile payments, mobile business applications, entertainment, mobile health, and social networking applications.

### Deliverable

MS excel file for LTE patents (assignee, patent number, standard specification, application)

### Sample

Assignee	Patent Num.	Tech. Class	Application
Apple			M-Busines: Business Transactions
Nokia		RF/Analog (including HW for Digital Protocol)	Device: Circuit Module
NXP		Activity	Device: SW
Samsung		LLCP (Logical Link Control Protocol)	
Sony		NDEF (Data Exchange Format)	
Sony Ericsson			System: User Interaction
Visa			M-Busines: Business Transactions

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