

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局

(43) 国际公布日
2012 年 9 月 27 日 (27.09.2012)



(10) 国际公布号
WO 2012/126423 A3

- (51) 国际专利分类号:
H04L 29/06 (2006.01)
- (21) 国际申请号: PCT/CN2012/075533
- (22) 国际申请日: 2012 年 5 月 15 日 (15.05.2012)
- (25) 申请语言: 中文
- (26) 公布语言: 中文
- (71) 申请人 (对除美国外的所有指定国): 华为技术有限公司 (HUAWEI TECHNOLOGIES CO., LTD.) [CN/CN]; 中国广东省深圳市龙岗区坂田华为总部办公楼, Guangdong 518129 (CN).
- (72) 发明人: 及
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- (81) 指定国 (除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU,

CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW。

- (84) 指定国 (除另有指明, 要求每一种可提供的地区保护): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), 欧亚 (AM, AZ, BY, KG, KZ, RU, TJ, TM), 欧洲 (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)。

本国际公布:

- 包括国际检索报告(条约第 21 条(3))。
- 在修改权利要求的期限届满之前进行, 在收到该修改后将重新公布(细则 48.2(h))。
- 根据申请人的请求, 在条约第 21 条(2)(a)所规定的期限届满之前进行。

[见续页]

(54) Title: METHOD AND DEVICE FOR CONTROLLING SERVICE TRANSMISSION

(54) 发明名称: 控制业务传输的方法和装置

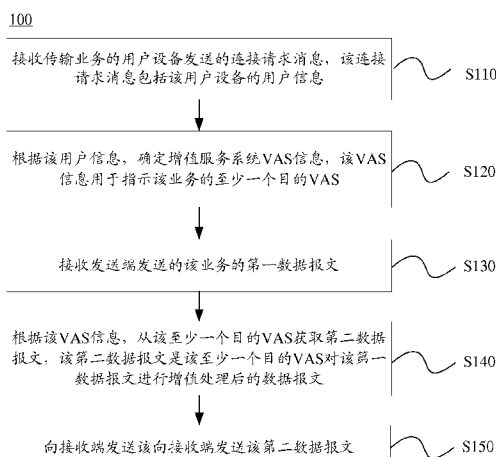


图 1 / Fig. 1

S110 RECEIVE A CONNECTION REQUEST MESSAGE SENT BY USER EQUIPMENT TRANSMITTING SERVICES, WITH THE CONNECTION REQUEST MESSAGE INCLUDING USER INFORMATION ABOUT THE USER EQUIPMENT
S120 ACCORDING TO THE USER INFORMATION, DETERMINE INFORMATION ABOUT A VALUE ADDED SYSTEM (VAS), WITH THE VAS INFORMATION BEING USED FOR INDICATING AT LEAST ONE DESTINATION VAS OF THE SERVICE
S130 RECEIVE A FIRST DATA MESSAGE OF THE SERVICE SENT BY THE SENDING END
S140 ACCORDING TO THE VAS INFORMATION, ACQUIRE A SECOND DATA MESSAGE FROM THE AT LEAST ONE DESTINATION VAS, WITH THE SECOND DATA MESSAGE BEING A DATA MESSAGE OBTAINED AFTER THE AT LEAST ONE DESTINATION VAS PERFORMS VALUE ADDED PROCESSING ON THE FIRST DATA MESSAGE
S150 SEND THE SECOND DATA MESSAGE TO THE RECEIVING END

(57) Abstract: A method and device for controlling service transmission, which can realize service forwarding based on dynamic user information and flexibly perform service orchestration on the value added services subscribed to by the user. The method includes: receiving a connection request message sent by user equipment transmitting services, with the connection request message including user information about the user equipment; according to the user information, determining information about a value added system (VAS), with the VAS information being used for indicating at least one destination VAS of the service; receiving a first data message of the service sent by a sending end; according to the VAS information, acquiring a second data message from the at least one destination VAS, with the second data message being a data message obtained after the at least one destination VAS performs value added processing on the first data message; and sending the second data message to a receiving end. By way of making the VAS return the data message to the gateway device after performing value added processing on the same, the gateway device can perform service orchestration flexibly according to the dynamic information about the user.

according to the dynamic information about the user.

(57) 摘要:

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一种控制业务传输的方法和设备，能够实现基于用户动态信息的业务转发，灵活地对用户订购的增值服务进行业务编排。该方法包括：接收传输业务的用户设备发送的连接请求消息，该连接请求消息包括该用户设备的用户信息；根据该用户信息，确定增值服务系统 VAS 信息，该 VAS 信息用于指示该业务的至少一个目的 VAS；接收发送端发送的该业务的第一数据报文；根据该 VAS 信息，从该至少一个目的 VAS 获取第二数据报文，该第二数据报文是该至少一个目的 VAS 对该第一数据报文进行增值处理后的数据报文；向接收端发送该第二数据报文。通过使 VAS 在对数据报文进行增值处理后返回给网关设备，能够使网关设备根据用户的动态信息灵活地进行业务编排。

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2012/075533

A. CLASSIFICATION OF SUBJECT MATTER

H04L 29/06 (2006.01) i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC: H04L,H04Q,H04W

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CNPAT, CNKI, WPI, EPODOC: value w added w service, VAS, value w added w system, value w added, gateway

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN 101754089 A (ZTE CORP.) 23 Jun. 2010 (23.06.2010) the description, pages 3 to 6, figures 1 to 5	1-34
A	US 2008/0317238 A1 (CAI, Yigang et al.) 25 Dec. 2008 (25.12.2008) the whole document	1-34

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 04 Jan. 2013 (04.01.2013)	Date of mailing of the international search report 07 Feb. 2013 (07.02.2013)
Name and mailing address of the ISA State Intellectual Property Office of the P. R. China No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing 100088, China Facsimile No. (86-10) 62019451	Authorized officer WANG, Yixuan Telephone No. (86-10) 62413504

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CN2012/075533

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 101754089 A	23.06.2010	None	
US 2008/0317238 A1	25.12.2008	CN 101330547 A	24.12.2008

国际检索报告

国际申请号

PCT/CN2012/075533

A. 主题的分类

H04L29/06 (2006.01)i

按照国际专利分类(IPC)或者同时按照国家分类和 IPC 两种分类

B. 检索领域

检索的最低限度文献(标明分类系统和分类号)

IPC: H04L,H04Q,H04W

包含在检索领域中的除最低限度文献以外的检索文献

在国际检索时查阅的电子数据库(数据库的名称, 和使用的检索词(如使用))

CNPAT,CNKI,WPI,EPODOC: 增值服务、增值业务、VAS、增值、网关、value w added w system、value w added、gateway

C. 相关文件

类 型*	引用文件, 必要时, 指明相关段落	相关的权利要求
X	CN101754089A (中兴通讯股份有限公司) 23.6 月 2010 (23.06.2010) 说明书第 3-6 页、图 1-5	1-34
A	US2008/0317238A1 (CAI, Yigang 等) 25.12 月 2008 (25.12.2008) 全文	1-34



其余文件在 C 栏的续页中列出。



见同族专利附件。

* 引用文件的具体类型:

“A” 认为不特别相关的表示了现有技术一般状态的文件

“E” 在国际申请日的当天或之后公布的在先申请或专利

“L” 可能对优先权要求构成怀疑的文件, 或为确定另一篇引用文件的公布日而引用的或者因其他特殊理由而引用的文件(如具体说明的)

“O” 涉及口头公开、使用、展览或其他方式公开的文件

“P” 公布日先于国际申请日但迟于所要求的优先权日的文件

“T” 在申请日或优先权日之后公布, 与申请不相抵触, 但为了理解发明之理论或原理的在后文件

“X” 特别相关的文件, 单独考虑该文件, 认定要求保护的发明不是新颖的或不具有创造性

“Y” 特别相关的文件, 当该文件与另一篇或者多篇该类文件结合并且这种结合对于本领域技术人员为显而易见时, 要求保护的发明不具有创造性

“&” 同族专利的文件

国际检索实际完成的日期

04.1 月 2013 (04.01.2013)

国际检索报告邮寄日期

07.2 月 2013 (07.02.2013)

ISA/CN 的名称和邮寄地址:

中华人民共和国国家知识产权局

中国北京市海淀区蓟门桥西土城路 6 号 100088

传真号: (86-10)62019451

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国际检索报告
关于同族专利的信息

国际申请号
PCT/CN2012/075533

检索报告中引用的 专利文件	公布日期	同族专利	公布日期
CN101754089A	23.06.2010	无	
US2008/0317238A1	25.12.2008	CN101330547A	24.12.2008