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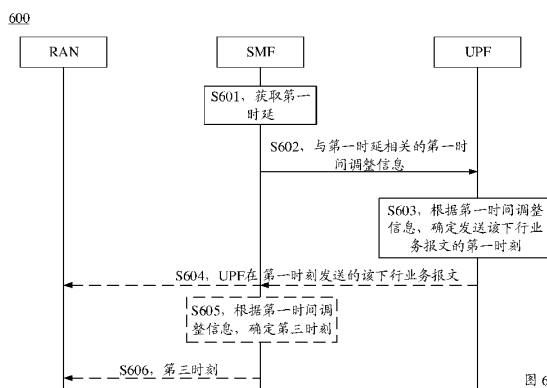
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(54) Title: DOWNLINK TRANSMISSION METHOD AND COMMUNICATION APPARATUS

(54) 发明名称: 下行传输的方法和通信装置



S601 Acquire a first delay
S602 First time adjustment information related to the first delay
S603 According to the first time adjustment information, determine a first moment for sending a downlink service message
S604 The downlink service message sent by the UPF at the first moment
S605 Determine a third moment according to the first time adjustment information
S606 Third moment

图 6

(57) Abstract: The present application provides a downlink transmission method and a communication apparatus. The method comprises: a session management network element acquiring a time length, that is, a first delay, between the desired time of arrival of a downlink service message at an access network element and the expected time of arrival of the downlink service message at the access network element, wherein the desired time of arrival of the downlink service message at the access network element is located in a first scheduling window, and the next scheduling window adjacent to the first scheduling window is a downlink scheduling window;

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PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL,
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and then, the session management network element sending, to a user plane network element or an application network element, time adjustment information related to the first delay, wherein the time adjustment information is used for the user plane network element to determine a first moment for sending the downlink service message or for an application server to determine a second moment for sending the downlink service message, and the time of arrival of the downlink service message, sent by the user plane network element at the first moment or by the application server at the second moment, at the access network element is located in the first scheduling window. The solution can reduce a scheduling delay at an access network element side.

(57) 摘要: 本申请提供了一种下行传输的方法和通信装置, 由会话管理网元获取期望下行业务报文到达接入网网元的时刻与下行业务报文预计到达接入网网元的时刻之间的时间长度, 即, 第一时延, 期望下行业务报文到达接入网网元的时刻位于第一调度窗口内, 第一调度窗口相邻的下一个调度窗口为下行调度窗口, 然后, 会话管理网元向用户面网元或者应用网元发送与第一时延相关的时间调整信息, 时间调整信息用于用户面网元确定发送下行业务报文第一时刻或者应用服务器确定发送下行业务报文的第二时刻, 用户面网元在第一时刻或者应用服务器在第二时刻发送的下行业务报文到达接入网网元的时刻位于第一调度窗口内。该方案能够减小接入网网元侧的调度时延。