**TR069客户端向ACS服务器的状态上报**

/\* 网关升级状态码 \*/

typedef enum

{

ZIGBEE\_GATEWAY\_UPGRADE\_SUCCESS = 0, /\* 升级网关成功 (包括网关和模块，或者只有网关，或者只有模块) \*/

ZIGBEE\_GATEWAY\_UPGRADE\_FAILED1 = 1, /\* 升级网关失败 \*/

ZIGBEE\_GATEWAY\_UPGRADE\_FAILED2 = 2, /\* 升级模块失败 \*/

ZIGBEE\_GATEWAY\_UPGRADE\_SAME\_VER = 3, /\* 模块版本相同不升级 \*/

ZIGBEE\_GATEWAY\_UPGRADE\_DOWNLOAD\_OK = 4, /\* 版本文件下载成功 \*/

ZIGBEE\_GATEWAY\_UPGRADE\_DOWNLOAD\_FAILED = 5, /\* 版本文件下载失败 \*/

ZIGBEE\_GATEWAY\_UPGRADE\_10\_PERCENT = 6, /\* 模块升级完成10% \*/

ZIGBEE\_GATEWAY\_UPGRADE\_20\_PERCENT = 7, /\* 模块升级完成20% \*/

ZIGBEE\_GATEWAY\_UPGRADE\_30\_PERCENT = 8, /\* 模块升级完成30% \*/

ZIGBEE\_GATEWAY\_UPGRADE\_40\_PERCENT = 9, /\* 模块升级完成40% \*/

ZIGBEE\_GATEWAY\_UPGRADE\_50\_PERCENT = 10, /\* 模块升级完成50% \*/

ZIGBEE\_GATEWAY\_UPGRADE\_60\_PERCENT = 11, /\* 模块升级完成60% \*/

ZIGBEE\_GATEWAY\_UPGRADE\_70\_PERCENT = 12, /\* 模块升级完成70% \*/

ZIGBEE\_GATEWAY\_UPGRADE\_80\_PERCENT = 13, /\* 模块升级完成80% \*/

ZIGBEE\_GATEWAY\_UPGRADE\_90\_PERCENT = 14, /\* 模块升级完成90% \*/

ZIGBEE\_GATEWAY\_UPGRADE\_STATUS\_BUTT = 32

}zigbee\_gateway\_upgrade\_reply\_code\_t;

网关升级状态码会在inform报文中携带，这些信息会由ZigbeeSNInfo的值来反映。

ZigbeeSNInfo的格式为“状态码|软件版本号”，比如0|1.0.1.21，表示网关升级到1.0.1.21成功；10|1.0.1.21，表示网关升级到1.0.1.21正在进行中，并且模块升级完成了50%

其中，ZIGBEE\_GATEWAY\_UPGRADE\_SUCCESS到ZIGBEE\_GATEWAY\_UPGRADE\_SAME\_VER之间的状态是设备重启之后才上报的；

ZIGBEE\_GATEWAY\_UPGRADE\_DOWNLOAD\_OK到ZIGBEE\_GATEWAY\_UPGRADE\_90\_PERCENT这期间的状态在上报时设备不会重启。

/\* zigbee设备(主控器)升级状态码 \*/

typedef enum

{

ZIGBEE\_DEV\_UPGRADE\_SUCCESS = 0, /\* 升级zigbee设备成功 \*/

ZIGBEE\_DEV\_UPGRADE\_FAILED = 1, /\* 升级zigbee设备失败 \*/

ZIGBEE\_DEV\_UPGRADE\_SAME\_VER = 2, /\* zigbee设备版本相同不升级 \*/

ZIGBEE\_DEV\_UPGRADE\_DOWNLOAD\_OK = 3, /\* 版本文件下载成功 \*/

ZIGBEE\_DEV\_UPGRADE\_DOWNLOAD\_FAILED = 4, /\* 版本文件下载失败 \*/

ZIGBEE\_DEV\_UPGRADE\_10\_PERCENT = 5, /\* 设备升级完成10% \*/

ZIGBEE\_DEV\_UPGRADE\_20\_PERCENT = 6, /\* 设备升级完成20% \*/

ZIGBEE\_DEV\_UPGRADE\_30\_PERCENT = 7, /\* 设备升级完成30% \*/

ZIGBEE\_DEV\_UPGRADE\_40\_PERCENT = 8, /\* 设备升级完成40% \*/

ZIGBEE\_DEV\_UPGRADE\_50\_PERCENT = 9, /\* 设备升级完成50% \*/

ZIGBEE\_DEV\_UPGRADE\_60\_PERCENT = 10, /\* 设备升级完成60% \*/

ZIGBEE\_DEV\_UPGRADE\_70\_PERCENT = 11, /\* 设备升级完成70% \*/

ZIGBEE\_DEV\_UPGRADE\_80\_PERCENT = 12, /\* 设备升级完成80% \*/

ZIGBEE\_DEV\_UPGRADE\_90\_PERCENT = 13, /\* 设备升级完成90% \*/

ZIGBEE\_DEV\_UPGRADE\_STATUS\_BUTT = 32

}zigbee\_dev\_upgrade\_reply\_code\_t;

zigbee设备升级状态码也会在inform报文中携带，这些信息会由ZigbeeSNInfo的值来反映。

ZigbeeSNInfo的格式为“状态码1|软件版本号1|MAC地址1,状态码2|软件版本号2|MAC地址2”，多个设备则用逗号隔开。

比如0|MYUNV00.17|00:11:22:33:44:55:66:77，表示主控器升级到MYUNV00.17成功；9|MYUNV00.17|00:11:22:33:44:55:66:77，表示主控器升级到MYUNV00.17正在进行中，并且升级完成了50%

上面这些状态上报时设备都不会重启。

**MYE进程向TR069的升级状态上报**

/\* 下面的枚举是MYE进程向TR069发送的notify报文中的type字段值 \*/

typedef enum

{

CWMP\_NOTIFY\_MODULE\_UPGRADE\_SUCC = 0, /\* 模块升级成功通知消息 \*/

CWMP\_NOTIFY\_MODULE\_UPGRADE\_FAILED = 1, /\* 模块升级失败通知消息 \*/

CWMP\_NOTIFY\_MODULE\_SAME\_VER = 2, /\* 模块版本相同不升级通知消息 \*/

CWMP\_NOTIFY\_MODULE\_UPGRADE\_10\_PERCENT = 3, /\* 模块升级完成10% \*/

CWMP\_NOTIFY\_MODULE\_UPGRADE\_20\_PERCENT = 4, /\* 模块升级完成20% \*/

CWMP\_NOTIFY\_MODULE\_UPGRADE\_30\_PERCENT = 5, /\* 模块升级完成30% \*/

CWMP\_NOTIFY\_MODULE\_UPGRADE\_40\_PERCENT = 6, /\* 模块升级完成40% \*/

CWMP\_NOTIFY\_MODULE\_UPGRADE\_50\_PERCENT = 7, /\* 模块升级完成50% \*/

CWMP\_NOTIFY\_MODULE\_UPGRADE\_60\_PERCENT = 8, /\* 模块升级完成60% \*/

CWMP\_NOTIFY\_MODULE\_UPGRADE\_70\_PERCENT = 9, /\* 模块升级完成70% \*/

CWMP\_NOTIFY\_MODULE\_UPGRADE\_80\_PERCENT = 10, /\* 模块升级完成80% \*/

CWMP\_NOTIFY\_MODULE\_UPGRADE\_90\_PERCENT = 11, /\* 模块升级完成90% \*/

CWMP\_NOTIFY\_DEVICE\_UPGRADE\_SUCC = 12, /\* zigbee设备升级成功通知消息 \*/

CWMP\_NOTIFY\_DEVICE\_UPGRADE\_FAILED = 13, /\* zigbee设备升级失败通知消息 \*/

CWMP\_NOTIFY\_DEVICE\_SAME\_VER = 14, /\* zigbee设备版本相同不升级通知消息 \*/

CWMP\_NOTIFY\_DEVICE\_UPGRADE\_10\_PERCENT = 15, /\* zigbee设备升级完成10% \*/

CWMP\_NOTIFY\_DEVICE\_UPGRADE\_20\_PERCENT = 16, /\* zigbee设备升级完成20% \*/

CWMP\_NOTIFY\_DEVICE\_UPGRADE\_30\_PERCENT = 17, /\* zigbee设备升级完成30% \*/

CWMP\_NOTIFY\_DEVICE\_UPGRADE\_40\_PERCENT = 18, /\* zigbee设备升级完成40% \*/

CWMP\_NOTIFY\_DEVICE\_UPGRADE\_50\_PERCENT = 19, /\* zigbee设备升级完成50% \*/

CWMP\_NOTIFY\_DEVICE\_UPGRADE\_60\_PERCENT = 20, /\* zigbee设备升级完成60% \*/

CWMP\_NOTIFY\_DEVICE\_UPGRADE\_70\_PERCENT = 21, /\* zigbee设备升级完成70% \*/

CWMP\_NOTIFY\_DEVICE\_UPGRADE\_80\_PERCENT = 22, /\* zigbee设备升级完成80% \*/

CWMP\_NOTIFY\_DEVICE\_UPGRADE\_90\_PERCENT = 23, /\* zigbee设备升级完成90% \*/

CWMP\_NOTIFY\_BUTT = 128

} cwmp\_notify\_type\_t;

举例：

{

“cmd\_url” “/tr069client/async”,

“type” 0,

“cmd\_name” “notyfy”,

“value” “0503000000000027”

}

表示模块升级成功。

{

“cmd\_url” “/tr069client/async”,

“type” 8,

“cmd\_name” “notyfy”,

“value” “0503000000000027”

}

表示模块升级完成60%

{

“cmd\_url” “/tr069client/async”,

“type” 23,

“cmd\_name” “notyfy”,

“value” “0503000000000027”

}

表示主控器升级完成90%