

# Idle Screen 提供给应用的接口

## 接口定义:

```
//Push notification message max count on idle screen
#define MMI_IDLE_PUSH_MSG_MAX_COUNT 30

//The app entry parameter
typedef void *IDLE_APP_PARA_T;

//App entry function ptr
typedef void (*IDLE_APP_ENTRY_FUNC_T)(IDLE_APP_PARA_T param1, IDLE_APP_PARA_T
param2);

//Push notification message type
typedef enum
{
    MMI_IDLE_PUSH_MSG_SMS = 0,
    MMI_IDLE_PUSH_MSG_MISSED_CALL,
    MMI_IDLE_PUSH_MSG_ONGOING_CALL,
    MMI_IDLE_PUSH_MSG_SNOOZED_ALARM,
    MMI_IDLE_PUSH_MSG_SNOOZED_CALENDER,
    MMI_IDLE_PUSH_MSG_VOICE_MAIL,
    MMI_IDLE_PUSH_MSG_MAIL,
    MMI_IDLE_PUSH_MSG_OPERATOR_SETTING,
    MMI_IDLE_PUSH_MSG_WNS,

    MMI_IDLE_PUSH_MSG_TYPE_MAX
}MMI_IDLE_PUSH_MSG_TYPE_E;

/*! @enum GUIITEM_DATA_TYPE_E
@brief Item数据类型，通过这些类型定义数据信息的UNION
*/
typedef enum
{
    MMI_IDLE_ICON_DATA_NONE, /*!< none */
    MMI_IDLE_ICON_DATA_IMAGE_ID, /*!< 图片资源ID */
    MMI_IDLE_ICON_DATA_ANIM_DATA, /*!< 图片详细数据数据 */
    MMI_IDLE_ICON_DATA_ANIM_PATH, /*!< 图片路径 */
    MMI_IDLE_ICON_DATA_MAX,
}MMI_IDLE_ICON_DATA_TYPE_E;
```

```

/*! @union GUIITEM_DATA_U
@brief 数据联合体
*/
typedef union
{
    MMI_IMAGE_ID_T          image_id;          /*!< 图片资源ID */
    GUIANIM_DATA_INFO_T*    anim_data_ptr;      /*!< 图片数据, 在set item
content时传入, 不拷贝数据 */
    GUIANIM_FILE_INFO_T*    anim_path_ptr;      /*!< 图片路径, 在set item
content时传入, 不拷贝数据 */
}MMI_IDLE_ICON_DATA_U;

//Push notification message info
typedef struct idle_push_msg_info_tag
{
    MMI_IDLE_PUSH_MSG_TYPE_E e_push_msg_type;
    MMI_IDLE_ICON_DATA_TYPE_E icon_data_type;
    MMI_IDLE_ICON_DATA_U icon_data;
    char appname[MMIIDLE_APP_NAME_MAX_LEN];    //这个个字段只是给 WNS用的,
其他应用忽略
    uint8 sender_num[MMIIDLE_PHONENUM_MAX_LEN + 1]; //发信人号码, 主叫号码等
    uint8 recv_num[MMIIDLE_PHONENUM_MAX_LEN + 1]; //收信人号码, 被叫号码, 考
虑到多卡情况。
    wchar title[MMIIDLE_LIST_MAX_STRLEN + 1];
    wchar contents[MMIIDLE_LIST_MAX_STRLEN + 1];
    IDLE_APP_ENTRY_FUNC_T app_entry_func_ptr; //用户定义Idle界面通过通知进入应
用的接口。
    IDLE_APP_ENTRY_FUNC_T app_left_focus_action_func_ptr; //用户自定义Idle界面通
知列表Left focus action。默认删除通知。
    IDLE_APP_ENTRY_FUNC_T app_right_focus_action_func_ptr; //用户自定义Idle界面通
知列表Right focus action。

} IDLE_PUSH_MSG_INFO_T;

/*****
// Description: 提供给应用的接口, 保存IDLE界面显示的通知信息
// Global resource dependence :
// Author: grant.peng
// Note: 更新通知也是用此接口, Idle内部根据相关信息自己判断是增加新的消息还是

```

更新已有消息。如WNS根据appname进行判断，短信和未接来电根据主叫人号码判断。

```

/*****
PUBLIC BOOLEAN MMIIDLE_AppendPushMsg(IDLE_PUSH_MSG_INFO *push_msg_info_ptr);

/*****
// Description : 提供给应用的接口，清除Idle Screen消息的接口
// Global resource dependence :
// Author: grant.peng
// Note:
/*****
PUBLIC void MMIIDLE_RemovePushMsg(
                MMI_IDLE_PUSH_MSG_TYPE_E e_push_msg_type,
                uint8 *appname,
                uint8 *sender_num);

```

## Sample Code:

```

#ifdef IDLETEST_SUPPORT
/*****
**/
//      Description : to enter sms window
//      Global resource dependence :
//      Author:louis.wei
//      Note:
/*****
**/
PUBLIC void *MMISMS_Entry(
                                void *param1,      //IN:
                                void *param2      //IN:
                                )
{
    MMIAPISMS_OpenMainMenuWin();
}

/*****
**/
//      Description : clear pns notification
//      Global resource dependence : none
//      Author:grant.peng
//      Note:

```

```

/*****
**/
LOCAL void MMISMS_ClearNotification(void *param1, void *param2)
{
    int ret = 0;
    SCI_TRACE_LOW("MMIWNS_ClearNotification(): enter.");

    if(PNULL != param1 && PNULL != param1)
    {
        char *sender_no = (char *)param1;

        MMIIDLE_RemovePushMsg(MMI_IDLE_PUSH_MSG_SMS, PNULL, sender_no);

    }
}

```

```

/*****
**/
//    Description : clear pns notification
//    Global resource dependence : none
//    Author:grant.peng
//    Note:
/*****
**/
LOCAL void MMIWNS_ClearNotification(void *param1, void *param2)
{
    char *appname = (char *)param1;
    SCI_TRACE_LOW("MMIWNS_ClearNotification(): enter.");

    if(PNULL != appname)
    {
        SCI_TRACE_LOW("MMIWNS_AppEntry(): wnsIdentifier(%s).", appname);

        MMIIDLE_RemovePushMsg(MMI_IDLE_PUSH_MSG_WNS, appname, PNULL);

    }
}

```

```

PUBLIC void MMIIdle_AddTestData(void)
{
    {
        IDLE_PUSH_MSG_INFO_T push_msg_info = {0};

        wchar tmp_title[] = L"13320009898";
    }
}

```

```

        uint16 title_len = MIN(MMIAPICOM_Wstrlen(tmp_title),
MMI_IDLE_LIST_MAX_STRLEN);
        wchar tmp_content[] = L"Missed Call.";
        uint16 content_len = MIN(MMIAPICOM_Wstrlen(tmp_content),
MMI_IDLE_LIST_MAX_STRLEN);
        uint8 sender_num[] = "13320009898";
        uint16 sender_num_len = MIN(strlen(sender_num), MMI_IDLE_LIST_MAX_STRLEN);

        push_msg_info.e_push_msg_type = MMI_IDLE_PUSH_MSG_MISSED_CALL;
        push_msg_info.app_entry_func_ptr = MMISMS_Entry;
        push_msg_info.app_left_focus_action_func_ptr = PNULL;
        push_msg_info.app_right_focus_action_func_ptr = MMISMS_Entry;
        MMIAPICOM_Wstrncpy(push_msg_info.title, tmp_title, title_len);
        MMIAPICOM_Wstrncpy(push_msg_info.contents, tmp_content, content_len);
        strncpy(push_msg_info.sender_num, sender_num, sender_num_len);

        MMI_IDLE_AppendPushMsg(&push_msg_info);
    }

    {
        IDLE_PUSH_MSG_INFO_T push_msg_info = {0};

        wchar tmp_title[] = L"13120529591";
        uint16 title_len = MIN(MMIAPICOM_Wstrlen(tmp_title),
MMI_IDLE_LIST_MAX_STRLEN);
        wchar tmp_content[] = L"Missed Call.";
        uint16 content_len = MIN(MMIAPICOM_Wstrlen(tmp_content),
MMI_IDLE_LIST_MAX_STRLEN);
        uint8 sender_num[] = "13120529591";
        uint16 sender_num_len = MIN(strlen(sender_num), MMI_IDLE_LIST_MAX_STRLEN);

        push_msg_info.e_push_msg_type = MMI_IDLE_PUSH_MSG_MISSED_CALL;
        push_msg_info.app_entry_func_ptr = MMISMS_Entry;
        push_msg_info.app_left_focus_action_func_ptr = PNULL;
        push_msg_info.app_right_focus_action_func_ptr = PNULL;
        MMIAPICOM_Wstrncpy(push_msg_info.title, tmp_title, title_len);
        MMIAPICOM_Wstrncpy(push_msg_info.contents, tmp_content, content_len);
        strncpy(push_msg_info.sender_num, sender_num, sender_num_len);

        MMI_IDLE_AppendPushMsg(&push_msg_info);
    }

    {

```

```

        IDLE_PUSH_MSG_INFO_T push_msg_info = {0};

        wchar tmp_title[] = L"13120529591";
        uint16 title_len = MIN(MMIAPICOM_Wstrlen(tmp_title),
MMIIDLE_LIST_MAX_STRLEN);
        wchar tmp_content[] = L"Hello, Grant, good job:~";
        uint16 content_len = MIN(MMIAPICOM_Wstrlen(tmp_content),
MMIIDLE_LIST_MAX_STRLEN);
        uint8 sender_num[] = "13120529591";
        uint16 sender_num_len = MIN(strlen(sender_num), MMIIDLE_LIST_MAX_STRLEN);

        push_msg_info.e_push_msg_type = MMI_IDLE_PUSH_MSG_SMS;
        push_msg_info.app_entry_func_ptr = MMISMS_Entry;
        push_msg_info.app_left_focus_action_func_ptr = MMISMS_ClearNotification;
        push_msg_info.app_right_focus_action_func_ptr = MMISMS_Entry;
        MMIAPICOM_Wstrncpy(push_msg_info.title, tmp_title, title_len);
        MMIAPICOM_Wstrncpy(push_msg_info.contents, tmp_content, content_len);
        strncpy(push_msg_info.sender_num, sender_num, sender_num_len);

        MMIIDLE_AppendPushMsg(&push_msg_info);
    }

    {
        IDLE_PUSH_MSG_INFO_T push_msg_info = {0};

        wchar tmp_title[] = L"FaceBook";
        uint16 title_len = MIN(MMIAPICOM_Wstrlen(tmp_title),
MMIIDLE_LIST_MAX_STRLEN);
        wchar tmp_content[] = L"Hello, Grant, good job:~";
        uint16 content_len = MIN(MMIAPICOM_Wstrlen(tmp_content),
MMIIDLE_LIST_MAX_STRLEN);
        uint8 appname[] = "facebook";
        uint16 appname_len = MIN(strlen(appname), MMIIDLE_LIST_MAX_STRLEN);

        push_msg_info.e_push_msg_type = MMI_IDLE_PUSH_MSG_WNS;
        push_msg_info.app_entry_func_ptr = MMISMS_Entry;
        push_msg_info.app_left_focus_action_func_ptr = MMIWNS_ClearNotification;
        push_msg_info.app_right_focus_action_func_ptr = MMISMS_Entry;
        MMIAPICOM_Wstrncpy(push_msg_info.title, tmp_title, title_len);
        MMIAPICOM_Wstrncpy(push_msg_info.contents, tmp_content, content_len);
        strncpy(push_msg_info.appname, appname, appname_len);

        MMIIDLE_AppendPushMsg(&push_msg_info);
    }

```

```

{
    IDLE_PUSH_MSG_INFO_T push_msg_info = {0};

    wchar tmp_title[] = L"Sprd Tool";
    uint16 title_len = MIN(MMIAPICOM_Wstrlen(tmp_title),
MMIIDLE_LIST_MAX_STRLEN);
    wchar tmp_content[] = L"spreadtrum520";
    uint16 content_len = MIN(MMIAPICOM_Wstrlen(tmp_content),
MMIIDLE_LIST_MAX_STRLEN);
    uint8 appname[] = "love sprd";
    uint16 appname_len = MIN(strlen(appname), MMIIDLE_LIST_MAX_STRLEN);

    push_msg_info.e_push_msg_type = MMI_IDLE_PUSH_MSG_WNS;
    push_msg_info.app_entry_func_ptr = MMISMS_Entry;
    push_msg_info.app_left_focus_action_func_ptr = MMIWNS_ClearNotification;
    push_msg_info.app_right_focus_action_func_ptr = MMISMS_Entry;
    MMIAPICOM_Wstrncpy(push_msg_info.title, tmp_title, title_len);
    MMIAPICOM_Wstrncpy(push_msg_info.contents, tmp_content, content_len);
    strncpy(push_msg_info.appname, appname, appname_len);

    MMIIDLE_AppendPushMsg(&push_msg_info);
}

return;

}
#endif

```