



## MUTEX SERVICE

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## INTRODUCTION

This documentation details the specific set of commands for mutex devices. These, along with *common commands* conform the complete set of commands available for mutex devices. Sometimes, certain *common commands* can be overwritten within a specific service, because they change their behavior. In the case of **Mutex Service**, following commands are overwritten:

- [XPEAK\\_COMMAND\\_GET\\_CAPABILITIES](#)

All commands described here meet the *xpeak* specification [General Message Format](#)

## COMMANDS

 **XPEAK\_COMMAND\_CANCEL\_CLAIM** (0x7060164)

**Version:** 0706

**Description:**

This operation cancels a previous claim request.

 **Parameters:**

- **String Name**  
Specifies the name of the mutex.
- **String Owner**  
Specifies the owner of the mutex.

 **Result:**

See Common Results

 **XPEAK\_COMMAND\_CLAIM** (0x7060043)**Version:** 0706**Description:**

This operation claims a mutex.

 **Parameters:**

- **String Name**  
Specifies the name of the mutex.
- **String Owner**  
Specifies the owner of the mutex.
- **int Timeout**  
The service will try to claim the mutex during this time (in milliseconds). If this value is less than zero, the service will try it until the command [XPEAK\\_COMMAND\\_CANCEL\\_CLAIM](#) is executed or until the mutex is claimed, sending the corresponding event. If this time is equals zero, it will not generate any event.

 **Result:**

- **int Owner**  
The owner that has claimed the mutex.
- **int Result**  
Appart from the common values, this command could return as result:

Result	Description
XPEAK_RESULT_CLAIMED (0x7060163)	The mutex is already claimed by another owner.

 **Events:****XPEAK\_RESULT\_CLAIMED** (0x7060163) Since 0706

If the Result is equals to [XPEAK\\_RESULT\\_CLAIMED](#) (0x7060163) and the Timeout parameter is different than 0, the service will throw this event once the mutex is claimed by the specified Owner.

- **String Name**  
Name of the mutex claimed.
- **String Owner**  
New owner of the mutex.

 **XPEAK\_COMMAND\_GET\_CAPABILITIES** (0x7060017)

**Version:** 0706

**Description:**

Returns the device capabilities. Depending on them, the application behavior should be different and should be adapted to the peripheral characteristics.

 **Result:**

See Common Results