

# KBSW210707 Win32-

forbidden\_area,

---

- - 
    -
  - 
  - 
  -
- 

- - Visual Studio 2010 SP1
  - Slamware Windows SDK:[Slamware Windows SDK](#)
  - RoboStudio():[Robostudio installer](#)
  - Sample Code:

 Visual Studio  
Visual Studio 2010SP1.Net FrameworkSP1

- - Slamware SDP mini
    - Slamware Slamware
    - Apollo/Ares/Athena
- 

Win32-

---

1. **samplesforbidden\_area StartUp project**
  -  解决方案'samples' (15 个项目)
  - >  artifacts\_demo
  - >  composite\_map\_demo
  - >  configure\_network\_demo
  - >  **forbidden\_area**
  - >  get\_laser\_scan
  - >  get\_power\_status
  - >  get\_sensor\_value
  - >  go\_home\_to\_charge
  - >  move\_to\_spot
  - >  recover\_localization
  - >  robot\_health
  - >  rotation\_action\_demo
  - >  speed\_regulation
2. **forbidden\_area, Slamware SDK includelib**

配置(C): 活动(Debug) 平台(P): 活动(Win32) 配置管理器(O)...

> 通用属性  
 > 配置属性  
 > 常规  
 > 调试  
 > VC++ 目录  
 > C/C++  
 > 链接器  
 > 清单工具  
 > XML 文档生成器  
 > 浏览信息  
 > 生成事件  
 > 自定义生成步骤  
 > 代码分析

常规

可执行文件目录 \$(VCInstallDir)bin;\$(WindowsSdkDir)bin;NETFX 4.0 Tools;\$(WindowsSdkDir)bin;\$(VSInstallDir)Common-7-Tools\bin;\$(FrameworkSDKDir)bin;\$(VCInstallDir)bin;\$(VCInstallDir)bin\amd64  
 包含目录 C:\Users\zixuan.yuan\Desktop\demo (update) \slamware\_sdk\_windows\_vs10-2.8.2-rtm\include;\$(VCInstallDir)include;\$(WindowsSdkDir)include;\$(FrameworkSDKDir)include  
 引用目录 \$(VCInstallDir)atlmfc\lib;\$(VCInstallDir)lib  
 库目录 C:\Users\zixuan.yuan\Desktop\demo (update) \slamware\_sdk\_windows\_vs10-2.8.2-rtm\lib;\$(VCInstallDir)atlmfc\lib;\$(WindowsSdkDir)lib;\$(FrameworkSDKDir)lib  
 源目录 \$(VCInstallDir)atlmfc\src\mfcm;\$(VCInstallDir)atlmfc\src\mfcm;\$(VCInstallDir)atlmfc\src\at;\$(VCInstallDir)atlmfc\src\mfcm;\$(VCInstallDir)atlmfc\src\mfcm;\$(VCInstallDir)atlmfc\src\mfcm  
 排除目录 \$(VCInstallDir)include;\$(VCInstallDir)atlmfc\include;\$(WindowsSdkDir)include;\$(FrameworkSDKDir)include

**可执行文件目录**  
 生成 VC++ 项目期间，搜索可执行文件时使用的路径。与环境变量 PATH 相对应。

确定 取消 应用(A)

### 3. forbidden\_area, Debuggingcommand Arguments 192.168.11.1 forbidden\_area <IP address>

配置(C): 活动(Debug) 平台(P): 活动(Win32) 配置管理器(O)...

> 通用属性  
 > 配置属性  
 > 常规  
 > 调试  
 > VC++ 目录  
 > C/C++  
 > 链接器  
 > 清单工具  
 > XML 文档生成器  
 > 浏览信息  
 > 生成事件  
 > 自定义生成步骤  
 > 代码分析

要启动的调试器:  
 本地 Windows 调试器

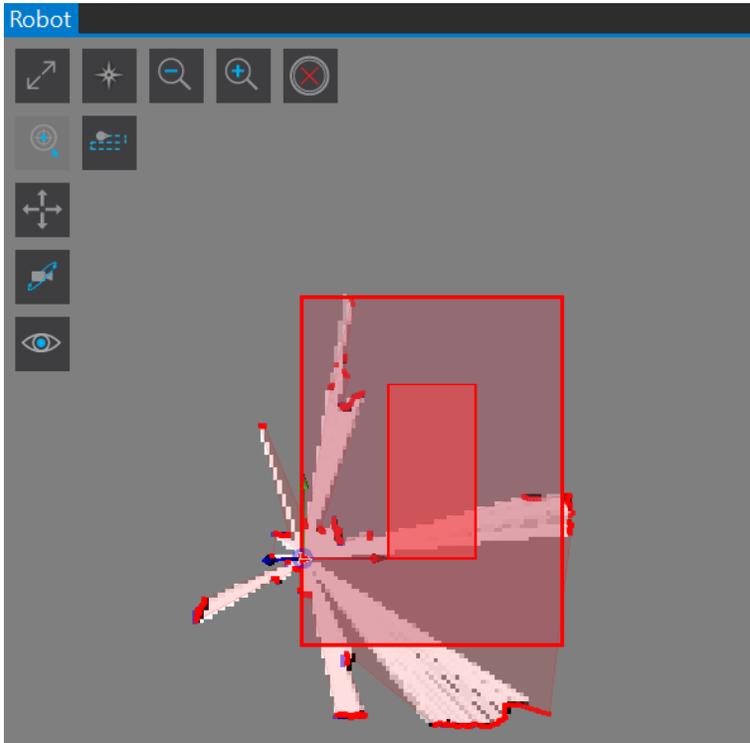
命令	\$(TargetPath)
命令参数	192.168.11.1
工作目录	\$(ProjectDir)
附加	否
调试器类型	自动
环境	
合并环境	是
SQL 调试	否

**命令**  
 要执行的调试命令。

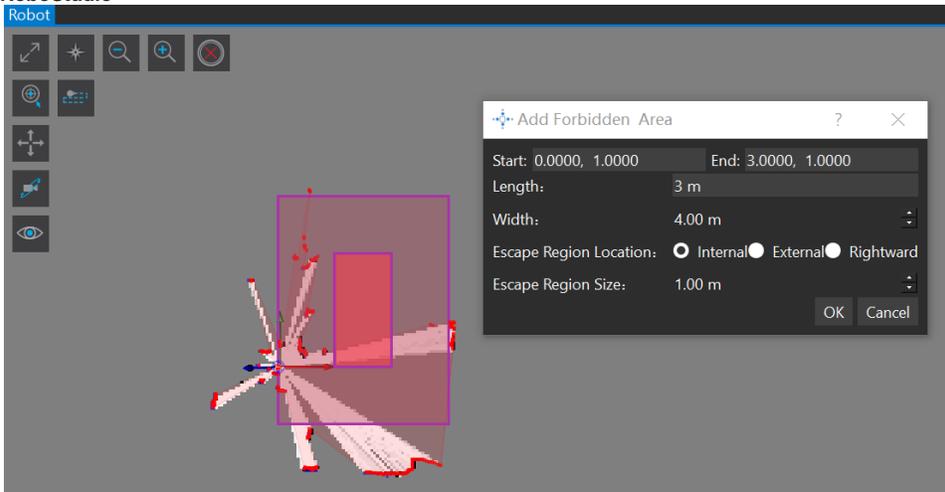
确定 取消 应用(A)

### 4. F5

## 5. robstudio10s



## 6. RoboStudio""



- 10s

```
SlamwareCorePlatform sdp = SlamwareCorePlatform::connect(ip_address, 1445);
std::cout <<"SDK Version: " << sdp.getSDKVersion() << std::endl;
std::cout <<"SDP Version: " << sdp.getSDPVersion() << std::endl;

/*add a forbidden area.          start point(0,1),          end point
(3,1),          width=2*2,          escape region size=1 */
rpos::core::ORectangleF area(rpos::core::Vector2f(0,1),rpos::core::Vector2f(3,1),2);

rpos::core::Metadata metadata;
std::string escapedistance="escape_distance";
```

```
std::string valueofescapedistance="1";
metadata.set(escapedistance,valueofescapedistance);

rpos::features::artifact_provider::RectangleArea rectanglearea;
rectanglearea.id=1;
rectanglearea.metadata=metadata;
rectanglearea.area=area;
rectanglearea.usage=ArtifactUsageForbiddenArea;

std::cout <<"Adding a forbidden area..."<< std::endl;
sdp.addRectangleArea(ArtifactUsageForbiddenArea,rectanglearea);

std::cout <<"Clearing all the forbidden area after 10s ..."<< std::endl;
boost::this_thread::sleep_for(boost::chrono::milliseconds(10000)); //sleep 10000ms
sdp.clearRectangleAreas(ArtifactUsageForbiddenArea);
```