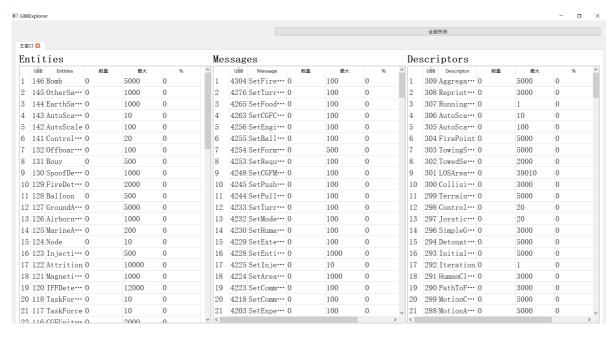
GBBExplorer记录阅读文档

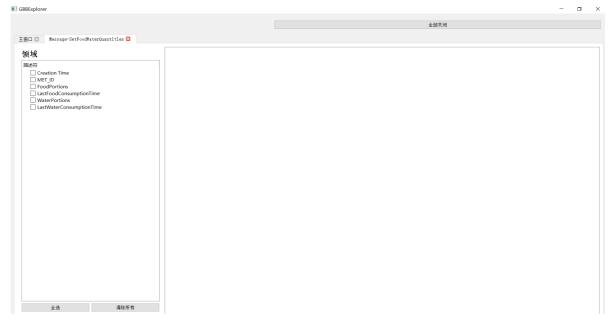
Widget类, 主要是绘制界面的类, 界面展示如下:



detail类, 实体跳转界面的具体展示



detailmessage类, 消息跳转界面展示



在Widget.h中定义的函数和槽函数如下,实现在Widget.cpp里

具体的一些声明和注释如下

```
1
   private:
2
       void initForm(); //初始化主窗口
3
4
   private slots:
5
6
       void on_tableViewdoubleClicked(const QModelIndex &index); //双击主页
   tableview上的名称跳转显示详情
7
      void on_removetabbtn(int index); //删除标签
       void on_pushButton_8_clicked(); //详情页全选子项目按钮的实现
8
9
       void on_pushButton_7_clicked();//清除按钮功能实现
       void on_treeWidget_2_clicked(QTreeWidgetItem *item);//treeWidget_2选中/不
10
   选中触发事件,模拟GBBexplorer中选择与取消
       void on_treeWidget_clicked(QTreeWidgetItem *item);//treewidget选中进行全部
11
   的行显示
```

StaticData类, 主要是初始化静态数据

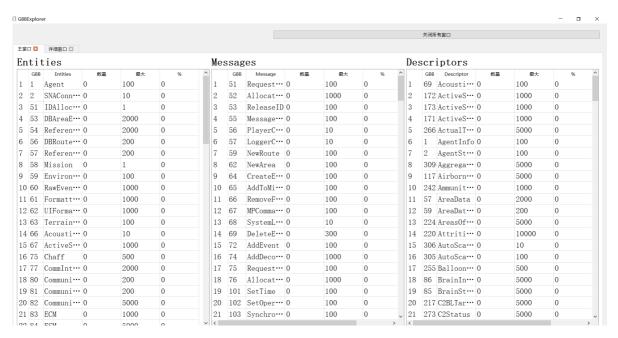
主要参照实现了CHSim-TKE_GBBExplorer\Infra\GBBExplorer\GBBExplorer文件夹中staticData.cs和entity.cs等定义的结构,从SerializedBuffer中获取静态数据

```
void InitStructures();  // Create the Structures Static List
void InitDescriptors();  // Create the Descriptors Static List
void InitEntities();  // Create the Entities Static List
void InitMessages();  // Create the Messages Static List
int SetStringFromPtr(char* CurrentIntPtr, std::string &StringName);
```

main函数中

```
//用于日志记录和链接初始化GBB平台
LoggerUtil::Init();
if (theConfigManager.Load("UI"))
{
theConfigManager.SetApplicationArgs(argc, argv);
if (theProcessHelper->startNotificationEngine() == SUCCESS
&&theProcessHelper->waitForBlackboardToStart() == SUCCESS
&&theMonitorManager.Init())
```

已进行静态页面的展示

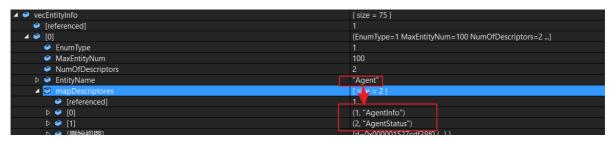


在widget.cpp里对获得的数组vecinfo进行迭代展示代码如下,以entity为例

```
//初始化实例
 1
 2
            StaticData staticdata;
 3
 4
            staticdata.InitStructures();
 5
            //读取静态实体数据显示
 6
 7
            staticdata.InitEntities();
 8
            for (int i = 0; i < staticdata.vecEntityInfo.size(); i++)</pre>
 9
            {
10
                QString EnumType =
    QString::number(staticdata.vecEntityInfo[i].EnumType);
11
                QString EntityName =
    QString::fromStdString(staticdata.vecEntityInfo[i].EntityName);
12
                QString MaxEntityNum =
    QString::number(staticdata.vecEntityInfo[i].MaxEntityNum);
                model->setItem(i, 0, new QStandardItem(EnumType));
13
14
                model->setItem(i, 1, new QStandardItem(EntityName));
                model->setItem(i, 2, new QStandardItem("0"));
15
16
                model->setItem(i, 3, new QStandardItem(MaxEntityNum));
17
                //double rate = 0;
                model->setItem(i, 4, new QStandardItem("0"));
18
19
            }
```

各个数据关联情况

• Entity点击详情,以agent为例:



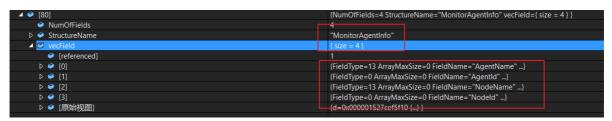
mapdescriptors是对应的2个根节点:



再去vecdescriptors中找到对应name的structure

4 	{EnumType=1 MaxMessageNum=100 DescriptorName="AgentInfo"}
EnumType	
MaxMessageNum	100
▶ ● DescriptorName	"AgentInfo"
▶ StructureName	"MonitorAgentInfo"
[6]	{Enum lype=2 MaxMessageNum=100 DescriptorName="AgentStatus"}

根据 monitoragebtinfo 在vecstruct中找子节点



• message详情,以requestnewid为例:

根据消息名称,在M_MessageInfo结构中找到descriptoname,再和上面一样去vecdescriptors中找到 对应name的structure,做多重展示

注意,Creation time是手动添加的,逻辑在MessageView.cs中,MET_ID是根据m_blsDescAsMessage添加的

```
1个引用
private void InitStructFields()
{

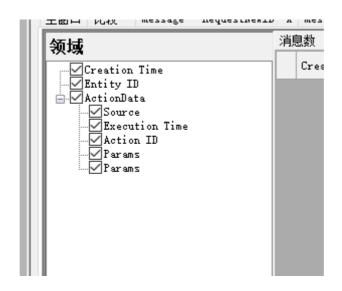
// Insert Creating TimeColumn
m_lstAllFields.Add(new Field("Creation Time", "", FieldType.Time, m_cGeneralFunction.TimeDisplayState));
m_ctlFieldsTree.Nodes.Add("Creation Time");

// Insert "DescAsMessageColumn
if (m_cCurrentMessage.IsDescAsMessage)
{

m_lstAllFields.Add(new Field("MET_ID", "", FieldType.MET_IL, 0));
m_ctlFieldsTree.Nodes.Add("MET_ID");
}

private void InitStructFields()

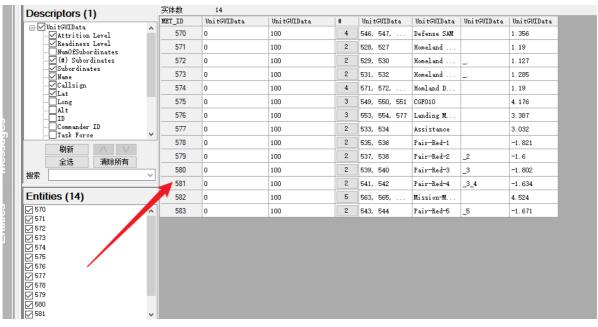
// Insert Creating TimeColumn
shows m_cGeneralFunction.TimeDisplayState));
shows m_ctlFieldsTree.Nodes.Add("MET_ID");
}
```



动态数据获取,在DynamicData类里

bool GetEntitiesIDs(enum_t eEntityType);每个周期,获取实体的METID bool GetEntityCount(enum_t eEntityType);每个周期,动态获取实体数量用于获取entity里的详情,如下图





bool GetEntityDynamicData(id_t idEntity);用于根据METID获取对应id的动态数据

bool GetEntityDynamicData(id_t idEntity, void* pDesNumbersVoid);这个pDesnumber不清楚是做什么的,应该传什么参呢

调用情况:

dynamicdata.cs中:

```
if (CurrentDataTable.Rows[ElementIndex].Tag != null) // If this is ORANGE row (deleted entity)
{
    continue;
}

// Send to GBBMonitorManager.dll -
    // 1.List of Entities need to read
    // 2.List of descriptors number to read
    // and get pointer from to the Data
    try
{

DataBufferPtr = ImportFunction.GetEntityData(EntityID[ElementIndex], m_pDescriptorsIntPtr);
}

catch
{
    // Write to error to log
    string ErrorString = "";
    for (int i = 0; i < Descriptores.Count; ++i)
    {
        ErrorString += Descriptores[i].m_sName + ",";
}</pre>
```

补充源码里的cpp定义

gbbmonitorwrapper.cpp里的定义

bool GetEntityEnumType(long pEntityMet_ID); 获取enumtype

已经在DynamicData类里实现

```
public:
    QVector<int> EntitiesId;
public:
    DynamicData();
    int GetEntityCount(int eEntityType);//每个周期, 动态获取某个实体数量
    void GetEntitiesIDs(int eEntityType);//每个周期, 获取实体的所有metid
    int GetEntityEnumType(long pEntityMet_ID);//每个周期, 根据metid获取属于哪个实体enum
    ~DynamicData();
};
```

GetEntityDynamicData的结构?

```
查找在果 1
② | 性 | 性 | 次 | ※
□ 查找全部 "GetEntityDynamicData",子文件夹,查找结果 1,"chsia","*
□ D:\CRSia—TRE_GEBEsplorer\Infra\GEBEnitorWanager\GEBUnitorWanager, h(148): | bool GetEntityDynamicData(id_t idEntity) |
□ D:\CRSia—TRE_GEBEsplorer\Infra\GEBUnitorWanager\GEBUnitorWanager, h(190): |
□ D:\CRSia—TRE_GEBEsplorer\Infra\GEBUnitorWanager\GEBUnitorWanager, h(208): | * GetEntityDynamicData(id_t idEntity, void* pDesNumbersVoid): |
□ D:\CRSia—TRE_GEBEsplorer\Infra\GEBUnitorWanager\GEBUnitorWanager, h(208): | * GetEntitissID and GetEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEntityDynamicData(nEnti
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