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| Server\_frame  Version ● Proposed |
| |  |  |  | | --- | --- | --- | |  | Date/Time Generated: | 2016/9/19 10:04:49 | | Author: | wuht |   EA Repository : E:\wuht\EA\_Projects\ServerFrame\ServerFrame.EAP |
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Table of Contents

1 Class Model 4

1.1 Class Model diagram 4

1.2 Business 4

1.2.1 Business diagram 5

1.2.2 server\_manager 8

1.2.3 session\_id\_creator 9

1.2.4 enum\_server\_type 10

1.2.5 代理 10

1.2.5.1 session\_connection 11

1.2.5.2 session\_connection\_manager 14

1.2.6 任务线程池 16

1.2.6.1 任务线程池 diagram 16

1.2.6.2 thread\_obj 17

1.2.6.3 thread\_pool 20

1.2.6.4 task\_obj 22

1.2.7 堆栈打印 23

1.2.7.1 exception\_catch 24

1.2.7.2 signal\_catch\_attr 25

1.2.8 网络连接空闲检测 27

1.2.8.1 session\_idle\_checker 28

1.2.9 微信路由 30

1.2.9.1 微信路由 diagram 30

1.2.9.2 conf\_data\_handler 32

1.2.9.3 lua\_operator 33

1.2.9.4 lua\_task 34

1.2.9.5 router 37

1.2.9.6 router\_comm\_data\_handler 38

1.2.9.7 router\_data\_data\_handler 39

1.2.9.8 router\_info 40

1.2.9.9 router\_manager 43

1.2.9.10 ue\_data\_handler 44

1.3 Server 45

1.3.1 Server diagram 45

1.3.2 common\_server 46

1.3.3 common\_session 48

1.3.4 data\_buffer 51

1.3.5 data\_handler 52

# Class Model

Package in package 'Model'

Class Model

Version Phase 1.0 Proposed

created on 2016/8/3. Last modified 2016/8/3

## Class Model diagram

类 diagram in package 'Class Model'

Class Model

Version 1.0

Administrator created on 2016/8/3. Last modified 2016/8/3



1. Class Model

## Business

Package in package 'Class Model'

Business

Version 1.0 Phase 1.0 提议的

Administrator created on 2016/8/3. Last modified 2016/8/3

### Business diagram

类 diagram in package 'Business'

Business

Version 1.0

Administrator created on 2016/8/4. Last modified 2016/8/30



1. Business

### server\_manager

OWLSingleton «singleton» in package 'Business'

服务管理

server\_manager

Version 1.0 Phase 1.0

wuht created on 2016/8/3. Last modified 2016/8/16

| ATTRIBUTE m\_map\_server |
| --- |
| m\_map\_server : map\_server\_t Private  保存所有服务，map<EnumServerType, common\_server\*>  [ Is static False. Containment is Not Specified. ] |

| OPERATION add\_server |
| --- |
| add\_server (type : enum\_server\_type , server : common\_server \* ) : int Public  增加指定类型的服务  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION del\_server |
| --- |
| del\_server (type : enum\_server\_type ) : int Public  删除指定类型的服务  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION get\_server |
| --- |
| get\_server (type : enum\_server\_type ) : common\_server \* Public 常量  获取指定类型的服务对象  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

### session\_id\_creator

类 in package 'Business'

浼氳瘽ID鐢熸垚鍣?

session\_id\_creator

Version 1.0 Phase 1.0 提议的

Administrator created on 2016/8/4. Last modified 2016/8/8

| OPERATION create\_session\_id |
| --- |
| create\_session\_id () : session\_connection::SessionID Public  [ Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

### enum\_server\_type

枚举 «ENUM» in package 'Business'

enum\_server\_type

Version 1.0 Phase 1.0 Implemented

wuht created on 2016/8/3. Last modified 2016/8/16

| ATTRIBUTE EST\_UNKNOWN |
| --- |
| EST\_UNKNOWN : int Private = 0  [ Is static False. Containment is Not Specified. ] |

| ATTRIBUTE EST\_APP |
| --- |
| EST\_APP : int Private  [ Is static False. Containment is Not Specified. ] |

| ATTRIBUTE EST\_SCANNER |
| --- |
| EST\_SCANNER : int Private  [ Is static False. Containment is Not Specified. ] |

### 代理

Package in package 'Business'

代理

Version 1.0 Phase 1.0 提议的

Administrator created on 2016/8/4. Last modified 2016/8/4

#### session\_connection

类 in package '代理'

会话联接

session\_connection

Version 1.0 Phase 1.0

wuht created on 2016/8/4. Last modified 2016/8/12

| ATTRIBUTE m\_list\_cache |
| --- |
| m\_list\_cache : list\_cache\_t Private  [ Is static False. Containment is 未指定的. ] |

| ATTRIBUTE m\_pair |
| --- |
| m\_pair : session\_pair\_t Private  [ Is static False. Containment is 未指定的. ] |

| ATTRIBUTE m\_session\_id |
| --- |
| m\_session\_id : session\_id\_t Private  [ Is static False. Containment is 未指定的. ] |

| OPERATION close\_session |
| --- |
| close\_session (session : common\_session\* ) : Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION destroy |
| --- |
| destroy () : Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION find\_session |
| --- |
| find\_session (session : common\_session\* ) : bool Public  [ Is static False. Is abstract False. Is return array False. Is query True . Is synchronized False ] |

| OPERATION get\_other |
| --- |
| get\_other (session : common\_session\* ) : common\_session\* Public  [ Is static False. Is abstract False. Is return array False. Is query True . Is synchronized False ] |

| OPERATION get\_sessionss\_id |
| --- |
| get\_sessionss\_id () : session\_id\_t Public  [ Is static False. Is abstract False. Is return array False. Is query True . Is synchronized False ] |

| OPERATION get\_sesson\_pair |
| --- |
| get\_sesson\_pair () : session\_pair\_t Public  [ Is static False. Is abstract False. Is return array False. Is query True . Is synchronized False ] |

| OPERATION push\_cache |
| --- |
| push\_cache (data : data\_buffer\* , src : common\_session\* ) : bool Private  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION send\_cache |
| --- |
| send\_cache () : bool Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION send\_data |
| --- |
| send\_data (data : data\_buffer\* , src : common\_session\* ) : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION session\_connection |
| --- |
| session\_connection (first : common\_session\* , second : common\_session\* , id : session\_id\_t ) : Public  Properties:  initializer = m\_pair(first, second),m\_session\_id(id)  bodyLocation = classDec  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION ~session\_connection |
| --- |
| ~session\_connection () : Public  Properties:  bodyLocation = classDec  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION set\_session |
| --- |
| set\_session (session : common\_session\* ) : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION set\_session\_id |
| --- |
| set\_session\_id (id : session\_id\_t ) : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

#### session\_connection\_manager

类 in package '代理'

会话联接管理器

session\_connection\_manager

Version 1.0 Phase 1.0

wuht created on 2016/8/4. Last modified 2016/8/13

| ATTRIBUTE m\_map\_sc |
| --- |
| m\_map\_sc : map\_session\_connection\_t Private  [ Is static False. Containment is 未指定的. ] |

| OPERATION add\_session\_connection |
| --- |
| add\_session\_connection (sc : session\_connection\* ) : bool Public  添加会话联接  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION delete\_session\_connection |
| --- |
| delete\_session\_connection (id : session\_connection::SessionID ) : bool Public  删除会话联接  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION find\_session\_connection |
| --- |
| find\_session\_connection (id : session\_connection::SessionID ) : session\_connection\* Public  查找会话联接  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION find\_session\_connection |
| --- |
| find\_session\_connection (session : common\_session\* ) : session\_connection\* Public  查找会话联接  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION get\_instance |
| --- |
| get\_instance () : session\_connection\_manager& Public  获取单件  [ Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION release\_instance |
| --- |
| release\_instance () : void Public  释放单件  [ Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

### 任务线程池

Package in package 'Business'

任务线程池

Version 1.0 Phase 1.0 提议的

Administrator created on 2016/8/15. Last modified 2016/9/19

#### 任务线程池 diagram

类 diagram in package '任务线程池'

任务线程池

Version 1.0

Administrator created on 2016/8/15. Last modified 2016/8/15



1. 任务线程池

#### thread\_obj

类 in package '任务线程池'

线程对象

thread\_obj

Version 1.0 Phase 1.0

wuht created on 2016/8/15. Last modified 2016/8/16

| ATTRIBUTE m\_b\_exit |
| --- |
| m\_b\_exit : bool Private  线程退出标识  [ Is static False. Containment is Not Specified. ] |

| ATTRIBUTE m\_condition\_get |
| --- |
| m\_condition\_get : boost::condition\_variable\_any Private  [ Is static False. Containment is Not Specified. ] |

| ATTRIBUTE m\_max\_task\_count |
| --- |
| m\_max\_task\_count : unsigned int Private  最大任务数  [ Is static False. Containment is Not Specified. ] |

| ATTRIBUTE m\_mutex |
| --- |
| m\_mutex : boost::mutex Private  用于锁任务队列  [ Is static False. Containment is Not Specified. ] |

| ATTRIBUTE m\_queue\_task |
| --- |
| m\_queue\_task : thread\_obj::queue\_task\_t Private  [ Is static False. Containment is Not Specified. ] |

| ATTRIBUTE m\_thread |
| --- |
| m\_thread : boost::shared\_ptr<boost::thread> Private  [ Is static False. Containment is Not Specified. ] |

| OPERATION get\_task |
| --- |
| get\_task () : task\_obj\* Private  从队列中获取任务  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION get\_task\_count |
| --- |
| get\_task\_count () : unsigned int Public  获取当前任务数  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION is\_empty |
| --- |
| is\_empty () : bool Private  任务队列是否已空  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION is\_full |
| --- |
| is\_full () : bool Private  任务队列是否已满  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION join |
| --- |
| join () : void Public  等待线程体退出并回收资源  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION push\_task |
| --- |
| push\_task (task : task\_obj ) : bool Public  推送任务  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION start |
| --- |
| start () : void Public  启动线程  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION start\_work |
| --- |
| start\_work () : void Private  线程绑定的启动函数  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION stop |
| --- |
| stop () : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

#### thread\_pool

OWLSingleton «singleton» in package '任务线程池'

任务线程池

thread\_pool

Version 1.0 Phase 1.0

wuht created on 2016/8/15. Last modified 2016/8/16

| ATTRIBUTE m\_pool\_size |
| --- |
| m\_pool\_size : unsigned int Private  线程池大小  [ Is static False. Containment is 通过值. ] |

| ATTRIBUTE m\_vect\_thread |
| --- |
| m\_vect\_thread : vect\_thread\_t Private  线程链表  [ Is static False. Containment is Not Specified. ] |

| OPERATION add\_task |
| --- |
| add\_task () : bool Public  添加任务到线程池中  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION compare\_task\_num |
| --- |
| compare\_task\_num (first : thread\_obj\* , second : thread\_obj\* ) : bool Private  比较线程的任务数，是否是first < second  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION get\_pool\_size |
| --- |
| get\_pool\_size () : unsigned int Public  线程池大小  Properties:  attribute\_name = m\_pool\_size  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION get\_spare\_thread |
| --- |
| get\_spare\_thread () : thread\_obj\* Private  获取相对空闲的线程对象  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION set\_pool\_size |
| --- |
| set\_pool\_size (newVal : unsigned int ) : void Public  线程池大小  Properties:  attribute\_name = m\_pool\_size  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION start\_threads |
| --- |
| start\_threads () : bool Public  启动指定数量的线程  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION stop\_threads |
| --- |
| stop\_threads () : void Public  停止所有线程  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

#### task\_obj

接口 in package '任务线程池'

任务对象

task\_obj

Version 1.0 Phase 1.0

wuht created on 2016/8/17. Last modified 2016/8/19

| OPERATION start |
| --- |
| start () : int Public  启动任务  [ Is static False. Is abstract True. Is return array False. Is query False. Is synchronized False ] |

### 堆栈打印

Package in package 'Business'

堆栈打印

Version 1.0 Phase 1.0 提议的

Administrator created on 2016/8/5. Last modified 2016/8/5

#### exception\_catch

OWLSingleton «singleton» in package '堆栈打印'

exception\_catch

Version 1.0 Phase 1.0

Administrator created on 2016/8/5. Last modified 2016/8/8

| OPERATION regist |
| --- |
| regist (regSigAttr : VectSignalAttr ) : bool Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

#### signal\_catch\_attr

类 in package '堆栈打印'

signal\_catch\_attr

Version 1.0 Phase 1.0

Administrator created on 2016/8/5. Last modified 2016/8/8

| ATTRIBUTE m\_bExit |
| --- |
| m\_bExit : bool Private  是否检测到信号发生就退出整个程序  [ Is static False. Containment is Not Specified. ] |

| ATTRIBUTE m\_signal |
| --- |
| m\_signal : unsigned int Private  信号  [ Is static False. Containment is Not Specified. ] |

| OPERATION Get\_signal |
| --- |
| Get\_signal () : unsigned int Public  Properties:  attribute\_name = m\_signal  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION IsExit |
| --- |
| IsExit () : bool Public  Properties:  attribute\_name = m\_bExit  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION Set\_signal |
| --- |
| Set\_signal (newVal : unsigned int ) : void Public  Properties:  attribute\_name = m\_signal  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION SetExit |
| --- |
| SetExit (newVal : bool ) : void Public  Properties:  attribute\_name = m\_bExit  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

### 网络连接空闲检测

Package in package 'Business'

网络连接空闲检测

Version 1.0 Phase 1.0 提议的

Administrator created on 2016/8/30. Last modified 2016/8/30

#### session\_idle\_checker

OWLSingleton «singleton» in package '网络连接空闲检测'

网络连接空闲检测器

session\_idle\_checker

Version 1.0 Phase 1.0

wuht created on 2016/8/30. Last modified 2016/8/30

| ATTRIBUTE m\_map\_session\_state |
| --- |
| m\_map\_session\_state : map\_session\_state\_t Private  [ Is static False. Containment is Not Specified. ] |

| ATTRIBUTE m\_mutex |
| --- |
| m\_mutex : boost:mutex Private  锁  [ Is static False. Containment is Not Specified. ] |

| OPERATION add\_to\_check |
| --- |
| add\_to\_check (session : common\_session\_ptr ) : bool Public  添加会话到检测器  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION delete\_session |
| --- |
| delete\_session (session : common\_session\_ptr ) : bool Public  从检测器中去除指定会话  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION set\_session\_state |
| --- |
| set\_session\_state (session : common\_session\_ptr , state : em\_session\_state ) : int Public  设置会话当前状态  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION start |
| --- |
| start (time\_interval : unsigned int ) : bool Public  启动检测  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION stop |
| --- |
| stop () : int Public  停止检测  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

### 微信路由

Package in package 'Business'

微信路由

Version Phase 1.0 Proposed

created on 2016/8/4. Last modified 2016/8/4

#### 微信路由 diagram

类 diagram in package '微信路由'

微信路由

Version 1.0

wuht created on 2016/8/4. Last modified 2016/8/17



1. 微信路由

#### conf\_data\_handler

类 «implementationClass» in package '微信路由'

conf\_data\_handler

Version 1.0 Phase 1.0

Administrator created on 2016/8/4. Last modified 2016/8/8

Extends data\_handler

#### lua\_operator

类 «object» in package '微信路由'

lua操作

lua\_operator

Version 1.0 Phase 1.0

Administrator created on 2016/8/15. Last modified 2016/8/16

| ATTRIBUTE m\_initialized |
| --- |
| m\_initialized : bool Private  是否已经初始化  [ Is static False. Containment is 通过值. ] |

| ATTRIBUTE m\_lua\_state |
| --- |
| m\_lua\_state : lua\_State\* Private  [ Is static False. Containment is Not Specified. ] |

| OPERATION call |
| --- |
| call (func\_name : string& , params : vector<string>& , returns : vector<string>& , error\_msg : string& ) : bool Public  调用lua脚本  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION init |
| --- |
| init (str\_lua\_file : string & ) : int Public  初始化  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION is\_initialized |
| --- |
| is\_initialized () : bool Public  Properties:  attribute\_name = m\_initialized  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

#### lua\_task

类 «implementationClass» in package '微信路由'

lua任务

lua\_task

Version 1.0 Phase 1.0

wuht created on 2016/8/15. Last modified 2016/8/16

Extends task\_obj

| ATTRIBUTE m\_error |
| --- |
| m\_error : string Private  错误信息  [ Is static False. Containment is Not Specified. ] |

| ATTRIBUTE m\_func\_call\_back |
| --- |
| m\_func\_call\_back : func\_lua\_operate\_t Private  任务回调（在任务执行完成后，调用）  [ Is static False. Containment is 通过值. ] |

| ATTRIBUTE m\_func\_name |
| --- |
| m\_func\_name : string Private  lua函数名  [ Is static False. Containment is Not Specified. ] |

| ATTRIBUTE m\_params |
| --- |
| m\_params : task\_params\_t Private  传入参数  [ Is static False. Containment is Not Specified. ] |

| ATTRIBUTE m\_returns |
| --- |
| m\_returns : task\_returns\_t Private  返回值  [ Is static False. Containment is Not Specified. ] |

| OPERATION get\_error |
| --- |
| get\_error () : string Public  错误信息  Properties:  attribute\_name = m\_error  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION get\_func\_name |
| --- |
| get\_func\_name () : string Public  lua函数名  Properties:  attribute\_name = m\_func\_name  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION get\_params |
| --- |
| get\_params () : task\_params\_t Public  传入参数  Properties:  attribute\_name = m\_params  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION get\_returns |
| --- |
| get\_returns () : task\_returns\_t Public  返回值  Properties:  attribute\_name = m\_returns  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION set\_call\_back |
| --- |
| set\_call\_back (newVal : func\_lua\_operate\_t ) : void Public  任务回调（在任务执行完成后，调用）  Properties:  attribute\_name = m\_func\_call\_back  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION set\_error |
| --- |
| set\_error (newVal : string ) : void Public  错误信息  Properties:  attribute\_name = m\_error  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION set\_func\_name |
| --- |
| set\_func\_name (newVal : string ) : void Public  lua函数名  Properties:  attribute\_name = m\_func\_name  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION set\_params |
| --- |
| set\_params (newVal : task\_params\_t ) : void Public  传入参数  Properties:  attribute\_name = m\_params  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION set\_returns |
| --- |
| set\_returns (newVal : task\_returns\_t ) : void Public  返回值  Properties:  attribute\_name = m\_returns  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

#### router

类 «object» in package '微信路由'

router

Version 1.0 Phase 1.0

Administrator created on 2016/8/13. Last modified 2016/8/16

| ATTRIBUTE m\_info |
| --- |
| m\_info : router\_info Private  路由信息  [ Is static False. Containment is 通过引用. ] |

| OPERATION get\_info |
| --- |
| get\_info () : router\_info Public  路由信息  Properties:  attribute\_name = m\_info  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION set\_info |
| --- |
| set\_info (newVal : router\_info ) : void Public  路由信息  Properties:  attribute\_name = m\_info  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION update |
| --- |
| update () : void Public  更新数据到数据库  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

#### router\_comm\_data\_handler

类 «implementationClass» in package '微信路由'

router\_comm\_data\_handler

Version 1.0 Phase 1.0

Administrator created on 2016/8/4. Last modified 2016/8/8

Extends data\_handler

#### router\_data\_data\_handler

类 «implementationClass» in package '微信路由'

router\_data\_data\_handler

Version 1.0 Phase 1.0

Administrator created on 2016/8/5. Last modified 2016/8/8

Extends data\_handler

#### router\_info

类 «object» in package '微信路由'

路由相关的属性信息

router\_info

Version 1.0 Phase 1.0

Administrator created on 2016/8/13. Last modified 2016/8/16

| ATTRIBUTE m\_map\_property |
| --- |
| m\_map\_property : map\_property\_t Private  属性集合  [ Is static False. Containment is Not Specified. ] |

| ATTRIBUTE s\_bt\_type |
| --- |
| s\_bt\_type : string Public = "blue\_type"  [ Is static True. Containment is Not Specified. ] |

| ATTRIBUTE s\_conn\_time |
| --- |
| s\_conn\_time : string Public = "conn\_time"  [ Is static True. Containment is Not Specified. ] |

| ATTRIBUTE s\_create\_tm |
| --- |
| s\_create\_tm : string Public = "create\_tm"  [ Is static True. Containment is Not Specified. ] |

| ATTRIBUTE s\_holder |
| --- |
| s\_holder : string Public = "holder"  [ Is static True. Containment is Not Specified. ] |

| ATTRIBUTE s\_maintainer |
| --- |
| s\_maintainer : string Public = "maintainer"  [ Is static True. Containment is Not Specified. ] |

| ATTRIBUTE s\_mid |
| --- |
| s\_mid : string Public = "mid"  [ Is static True. Containment is Not Specified. ] |

| ATTRIBUTE s\_online\_num |
| --- |
| s\_online\_num : string Public = "online\_num"  [ Is static True. Containment is Not Specified. ] |

| ATTRIBUTE s\_place\_name |
| --- |
| s\_place\_name : string Public = "state"  [ Is static True. Containment is Not Specified. ] |

| ATTRIBUTE s\_rid |
| --- |
| s\_rid : string Public = "rid"  [ Is static True. Containment is Not Specified. ] |

| ATTRIBUTE s\_ssid |
| --- |
| s\_ssid : string Public = "ssid"  [ Is static True. Containment is Not Specified. ] |

| ATTRIBUTE s\_state |
| --- |
| s\_state : string Public = "state"  [ Is static True. Containment is Not Specified. ] |

| ATTRIBUTE s\_warning\_state |
| --- |
| s\_warning\_state : string Public = "warning\_state"  [ Is static True. Containment is Not Specified. ] |

| ATTRIBUTE s\_wifi\_type |
| --- |
| s\_wifi\_type : string Public = "wifi\_type"  [ Is static True. Containment is Not Specified. ] |

| OPERATION get |
| --- |
| get (key : string & , value : string & ) : bool Public  获取属性值  [ Is static False. Is abstract False. Is return array False. Is query True . Is synchronized False ] |

| OPERATION set |
| --- |
| set (key : string & , value : string & ) : bool Public  设置属性值  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

#### router\_manager

类 in package '微信路由'

路由对象管理器

router\_manager

Version 1.0 Phase 1.0

wuht created on 2016/8/15. Last modified 2016/8/16

| ATTRIBUTE m\_map\_router |
| --- |
| m\_map\_router : map\_router\_t Private  路由对象集合  [ Is static False. Containment is Not Specified. ] |

| OPERATION add\_router |
| --- |
| add\_router (rid : unsigned int , rt : router\* ) : bool Public  添加路由  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION del\_router |
| --- |
| del\_router (rid : unsigned int ) : bool Public  删除路由  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION find\_router |
| --- |
| find\_router (rid : unsigned int ) : router\* Public  查找路由  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

#### ue\_data\_handler

类 «implementationClass» in package '微信路由'

ue\_data\_handler

Version 1.0 Phase 1.0

Administrator created on 2016/8/4. Last modified 2016/8/8

Extends data\_handler

## Server

Package in package 'Class Model'

Server

Version 1.0 Phase 1.0 Proposed

created on 2016/8/3. Last modified 2016/8/3

### Server diagram

类 diagram in package 'Server'

Server

Version 1.0

Administrator created on 2016/8/3. Last modified 2016/8/4



1. Server

### common\_server

类 in package 'Server'

common\_server

Version 1.0 Phase 1.0 Proposed

created on 2016/8/3. Last modified 2016/8/12

| ATTRIBUTE m\_acceptor |
| --- |
| m\_acceptor : acceptor Private  网络连接接收器  [ Is static False. Containment is Not Specified. ] |

| ATTRIBUTE m\_io\_service |
| --- |
| m\_io\_service : io\_service & Private  boost IO服务  [ Is static False. Containment is 未指定的. ] |

| ATTRIBUTE m\_p\_data\_handler |
| --- |
| m\_p\_data\_handler : data\_handler Private  数据处理器  [ Is static False. Containment is 通过引用. ] |

| OPERATION get\_data\_handler |
| --- |
| get\_data\_handler () : data\_handler Public  数据处理器  Properties:  attribute\_name = m\_p\_data\_handler  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION handle\_accept |
| --- |
| handle\_accept (session : common\_session\* ) : int Private  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION set\_data\_handler |
| --- |
| set\_data\_handler (newVal : data\_handler ) : void Public  数据处理器  Properties:  attribute\_name = m\_p\_data\_handler  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION start |
| --- |
| start () : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION start\_accept |
| --- |
| start\_accept () : void Private  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

### common\_session

类 in package 'Server'

通信会话

common\_session

Version 1.0 Phase 1.0 Implemented

wuht created on 2016/8/3. Last modified 2016/8/12

| ATTRIBUTE m\_list\_send |
| --- |
| m\_list\_send : list\_buffer\_t Private  保存待发送的数据，保证每批数据独立发送  [ Is static False. Containment is Not Specified. ] |

| ATTRIBUTE m\_p\_data\_handler |
| --- |
| m\_p\_data\_handler : data\_handler Private  数据处理器  [ Is static False. Containment is 通过引用. ] |

| ATTRIBUTE m\_socket |
| --- |
| m\_socket : socket Private  会话套接字  [ Is static False. Containment is 通过值. ] |

| ATTRIBUTE m\_str\_remote\_ip |
| --- |
| m\_str\_remote\_ip : string Private  会话对应的对端IP  [ Is static False. Containment is 通过值. ] |

| OPERATION close |
| --- |
| close () : void Public  关闭会话  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION data\_write |
| --- |
| data\_write () : void Private  将待发送的数据写入网络缓存中  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION get\_data\_handler |
| --- |
| get\_data\_handler () : data\_handler\* Public  数据处理器  Properties:  attribute\_name = m\_p\_data\_handler  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION get\_remote\_ip |
| --- |
| get\_remote\_ip () : string Public  会话对应的对端IP  Properties:  attribute\_name = m\_str\_remote\_ip  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION get\_socket |
| --- |
| get\_socket () : socket Public  会话套接字  Properties:  attribute\_name = m\_socket  [ Stereotype is «property get». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION handle\_read |
| --- |
| handle\_read (error : error\_code , size : unsigned int ) : int Private  处理接收数据  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION handle\_write |
| --- |
| handle\_write (error : error\_code , size : unsigned int ) : int Private  处理发送的数据  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION send\_msg |
| --- |
| send\_msg (str\_data : string & ) : int Public  发送数据  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION set\_data\_handler |
| --- |
| set\_data\_handler (newVal : data\_handler\* ) : void Public  数据处理器  Properties:  attribute\_name = m\_p\_data\_handler  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION set\_remote\_ip |
| --- |
| set\_remote\_ip (newVal : string ) : void Public  会话对应的对端IP    Properties:  attribute\_name = m\_str\_remote\_ip  [ Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION start |
| --- |
| start () : void Public  启动会话  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

| OPERATION start\_receive |
| --- |
| start\_receive () : bool Private  启动接收  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False ] |

### data\_buffer

类 in package 'Server'

data\_buffer

Version 1.0 Phase 1.0

Administrator created on 2016/8/3. Last modified 2016/8/8

### data\_handler

接口 in package 'Server'

data\_handler

Version 1.0 Phase 1.0 Implemented

Administrator created on 2016/8/3. Last modified 2016/8/8

| OPERATION on\_received\_data |
| --- |
| on\_received\_data (session : common\_session \* , str\_data : string & ) : bool Public  响应接收数据  [ Is static False. Is abstract True. Is return array False. Is query False. Is synchronized False ] |

| OPERATION on\_session\_accept |
| --- |
| on\_session\_accept (new\_session : common\_session \* ) : bool Public  响应新会话连接  [ Is static False. Is abstract True. Is return array False. Is query False. Is synchronized False ] |

| OPERATION on\_session\_close |
| --- |
| on\_session\_close (session : common\_session\* , str\_remote\_ip : string & ) : int Public  响应会话关闭  [ Is static False. Is abstract True. Is return array False. Is query False. Is synchronized False ] |