# 机构仿真引擎和Web管理服务器通信文档

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# 启动时获取Web参数

场景：引擎启动发引擎的参数配置

发送方：Web服务器

消息内容：  
{  
    **"key"**:**"engineNormalConf"**,  
    **"msgseq"**:**"1"**,  
    **"origmsgseq"**:**""**,  
    **"value"**:{  
        **"sysConfig"**:{  
            **"sz\_link\_enable"**:**"1"**,  
            **"sh\_link\_enable"**:**"1"**,  
            **"run\_mode"**:**"3"**,  
            **"high\_pfm"**:**"1"**,  
            **"enable\_check\_assets"**:**"0"**,  
            **"match\_mode"**:**"11"**,  
            **"quotation\_mode"**:**"0"**,  
            **"part\_match\_num"**:**"2"**  
        }  
}

# 启动时获取Web参数

场景：引擎启动发通道对应的Rule，因为消息内容很大，所以分页发送，引擎端需对分页进行计数，当计数达到总数时，按收到的全部配置启动。

服务器发送配置时可以按通道链路参数和策略一起下发。

发送方：Web服务器

消息内容：

Case 1：  
{  
    **"key"**:**"getEngineLinkParam"**,  
    **"msgseq"**:**"1"**,  
    **"origmsgseq"**:**""**,  
    **"value"**:{  
        **"cur\_page"**:**1**,  
        **"total\_pages"**:**5**,  
        **"page\_size"**:**1**,  
        **"shConn"**:[  
            {  
                **"linkid"**:**"2dd4972428574b028c6a3eaba22f68c7"**,  
                **"serverip"**:**"192.168.56.88"**,  
                **"serverport"**:**"666"**,  
                **"database"**:**"6666"**,  
                **"uid"**:**"rrr77"**,  
                **"pwd"**:**"dddd"**,  
                **"settleGroup"**:**""**  
            }  
        ],  
        **"szConn"**:[],  
        **"strategy"**:[  
            {  
                **"engineId"**:**"201811091443351"**,  
                **"linkId"**:**"8ba595799c2b491e8ab1280f7c44b4b1"**,  
                **"seatNumber"**:**""**,  
                **"linkName"**:**"cj\_sz8019"**,  
                **"linkFlag"**:**"0"**,  
                **"validation"**:**"0"**,  
                **"method"**:**"11"**,  
                **"dealNumber"**:**"null"**  
            }  
        ]  
    }  
}

Case 2：

{  
    **"key"**:**"getEngineLinkParam"**,  
    **"msgseq"**:**"1"**,  
    **"origmsgseq"**:**""**,  
    **"value"**:{  
        **"cur\_page"**:**1**,  
        **"total\_pages"**:**5**,  
        **"page\_size"**:**1**,  
        **"shConn"**:[],  
        **"szConn"**:[  
            {  
                **"linkid"**:**"8ba595799c2b491e8ab1280f7c44b4b1"**,  
                **"targetCompId"**:**"192.168.60.76\_8019"**,  
                **"socketAcceptPort"**:**"8019"**,  
                **"senderCompId"**:**"tgw\_8019"**,  
                **"settleGroup"**:**""**  
            }  
        ],  
        **"strategy"**:[  
            {  
                **"engineId"**:**"201811091443351"**,  
                **"linkId"**:**"8ba595799c2b491e8ab1280f7c44b4b1"**,  
                **"seatNumber"**:**""**,  
                **"linkName"**:**"cj\_sz8019"**,  
                **"linkFlag"**:**"0"**,  
                **"validation"**:**"0"**,  
                **"method"**:**"11"**,  
                **"dealNumber"**:**"null"**  
            }  
        ]  
    }  
}

# 设置通道对应规则时也实时下发

场景：Web服务端设置通道对应的规则

发送方：Web服务器

消息内容：

如果cur\_page为0，客户端清理该linkId下的rules缓存。在发完0之后服务端等待1秒，再发送后续内容。

{  
    **"key"**:**"changeLinkRules"**,  
    **"msgseq"**:**"2"**,  
    **"value"**:[  
        {  
            **"engineId"**:**"201807181559531"**,  
            **"linkid"**:**"1"**,  
            **"linkFlag"**:**"1"**,  
            **"cur\_page"**:**0**,  
            **"total\_pages"**:**5**,  
            **"page\_size"**:**20**,  
            **"rules"**:[  
  
            ]  
        }  
    ]  
}

{  
    **"key"**:**"changeLinkRules"**,  
    **"msgseq"**:**"2"**,  
    **"value"**:[  
        {  
            **"engineId"**:**"201807181559531"**,  
            **"linkid"**:**"1"**,  
            **"linkFlag"**:**"1"**,  
            **"cur\_page"**:**1**,  
            **"total\_pages"**:**5**,  
            **"page\_size"**:**20**,  
            **"rules"**:[  
                {  
                    **"ruleid"**:**"1"**,  
                    **"timestamp"**:**1578646788**  
                },  
                {  
                    **"ruleid"**:**"2"**,  
                    **"timestamp"**:**1578646788**  
                }  
            ]  
        }  
    ]  
}

# 设置Rule时实时下发

场景：Web服务端增、删、改Rule

发送方：Web服务器

**"ruleFlag"** 连接标识：0 深圳，1上海

**"repeat"** 重复次数，整数

消息内容：

{  
    **"msgseq"**:**"17"**,  
    **"key"**:**"matchRule"**,  
    **"value"**:{  
        **"rules"**:[  
            {  
                **"ruleid"**:**"38"**,  
                **"ruleFlag"**:**"1"**,  
                **"judge\_cond"**:[  
                    {  
                        **"field"**:**"stock"**,  
                        **"value"**:**"51[0-9]\*"**,  
                        **"comp\_type"**:**"regex"**  
                    },  
                    {  
                        **"field"**:**"owflag"**,  
                        **"value"**:**"LPT"**,  
                        **"comp\_type"**:**"string"**  
                    },  
                    {  
                        **"field"**:**"price"**,  
                        **"value"**:**""**,  
                        **"comp\_type"**:**"int\_range"**,  
                        **"low"**:**100**,  
                        **"high"**:**800**  
                    },  
                    {  
                        **"field"**:**"qty"**,  
                        **"value"**:**""**,  
                        **"comp\_type"**:**"int\_range"**,  
                        **"low"**:**100**,  
                        **"high"**:**800**  
                    }  
                ],  
                **"timestamp"**:**1536992985**,  
                **"check"**:**""**,  
                **"confirm"**:{  
  
                },  
                **"match"**:[  
  
                ],  
                **"settlement"**:[  
                    {  
                        **"filename"**:**"SJSMX1"**,  
                        **"file\_content"**:[  
                            {  
                                **"sett\_cond"**:[  
                                    {  
                                        **"field"**:**"side"**,  
                                        **"value"**:**"B"**,  
                                        **"comp\_type"**:**"string"**  
                                    },  
                                    {  
                                        **"field"**:**"cloid"**,  
                                        **"value"**:**".\*"**,  
                                        **"comp\_type"**:**"regex"**  
                                    },  
                                    {  
                                        **"field"**:**"qty"**,  
                                        **"value"**:**""**,  
                                        **"comp\_type"**:**"int\_range"**,  
                                        **"low"**:**100**,  
                                        **"high"**:**800**  
                                    }  
                                ],  
                                **"lines"**:[  
                                    {  
                                        **"MXJSZH"**:**"@acc"**,  
                                        **"MXBFZH"**:**"@acc"**,  
                                        **"MXSJLX"**:**"1"**,  
                                        **"MXYWLB"**:**"2"**,  
                                        **"MXCJSL"**:**"@qty"**,  
                                        **"MXQSSL"**:**"@qty"**  
                                    },  
                                    {  
                                        **"MXJSZH"**:**"@acc"**,  
                                        **"MXBFZH"**:**"@acc"**,  
                                        **"MXSJLX"**:**"1"**,  
                                        **"MXYWLB"**:**"2"**,  
                                        **"MXCJSL"**:**"@qty"**,  
                                        **"MXQSSL"**:**"@qty"**  
                                    }  
                                ]  
                            },  
                            {  
                                **"sett\_cond"**:[  
                                    {  
                                        **"field"**:**"side"**,  
                                        **"value"**:**"B"**,  
                                        **"comp\_type"**:**"string"**  
                                    },  
                                    {  
                                        **"field"**:**"cloid"**,  
                                        **"value"**:**".\*"**,  
                                        **"comp\_type"**:**"regex"**  
                                    },  
                                    {  
                                        **"field"**:**"qty"**,  
                                        **"value"**:**""**,  
                                        **"comp\_type"**:**"int\_range"**,  
                                        **"low"**:**100**,  
                                        **"high"**:**800**  
                                    }  
                                ],  
                                **"lines"**:[  
                                    {  
                                        **"MXJSZH"**:**"@acc"**,  
                                        **"MXBFZH"**:**"@acc"**,  
                                        **"MXSJLX"**:**"1"**,  
                                        **"MXYWLB"**:**"2"**,  
                                        **"MXCJSL"**:**"@qty"**,  
                                        **"MXQSSL"**:**"@qty"**  
                                    },  
                                    {  
                                        **"MXJSZH"**:**"@acc"**,  
                                        **"MXBFZH"**:**"@acc"**,  
                                        **"MXSJLX"**:**"1"**,  
                                        **"MXYWLB"**:**"2"**,  
                                        **"MXCJSL"**:**"@qty"**,  
                                        **"MXQSSL"**:**"@qty"**  
                                    }  
                                ]  
                            }  
                        ]  
                    },  
                    {  
                        **"filename"**:**"gh"**,  
                        **"lines"**:[  
                            {  
                                **"Gddm"**:**"@acc"**,  
                                **"Gdxm"**:**"@acc"**,  
                                **"cjjg"**:**"@price"**,  
                                **"cjje"**:**"@price \* @qty"**  
                            },  
                            {  
                                **"Gddm"**:**"@acc"**,  
                                **"Gdxm"**:**"@acc"**,  
                                **"cjjg"**:**"@price"**,  
                                **"cjje"**:**"@price \* @qty"**  
                            }  
                        ]  
                    }  
                ]  
            },  
            {  
                **"ruleid"**:**"39"**,  
                **"ruleFlag"**:**"0"**,  
                **"judge\_cond"**:{  
                    **"38"**:**"38 OrderQty订单数量"**,  
                    **"ApplID"**:**"010"**,  
                    **"MsgType"**:**"D"**  
                },  
                **"timestamp"**:**1536992985**,  
                **"check"**:**""**,  
                **"confirm"**:{  
                    **"@11"**:**"@11"**,  
                    **"@48"**:**"@48"**  
                },  
                **"match"**:[  
                    {  
                        **"repeat"**:**3**,  
                        **"content"**:{  
                            **"@11"**:**"@11"**,  
                            **"@48"**:**"@48"**  
                        }  
                    },  
                    {  
                        **"repeat"**:**1**,  
                        **"content"**:{  
                            **"@11"**:**"@11"**,  
                            **"@48"**:**"@48"**  
                        }  
                    }  
                ],  
                **"settlement"**:**""**  
            }  
        ]  
    }  
}

# 引擎获取MatchRule的内容

场景：引擎需要刷新MatchRule的内容

发送方：引擎

消息内容：

{  
    **"msgseq"**:**3**,  
    **"key"**:**"getMatchRuleContent"**,  
    **"engineId"**:**"201807181559531"**,  
    **"timestamp"**:**1587678432**,  
    **"value"**:{  
        **"sh\_rules"**:[  
            **"1"**,  
            **"2"**  
        ],  
        **"sz\_rules"**:[  
            **"1"**,  
            **"2"**  
        ]  
    }  
}

回复消息

发送方：Web服务器

消息内容：

参考“设置Rule时实时下发”

# 设置清算费率时实时下发

场景：Web服务端增、删、改费率

发送方：Web服务器

消息内容：

{  
    **"msgseq"**:**"17"**,  
    **"key"**:**"feeDict"**,  
    **"value"**:{  
        **"fees"**:[  
            {  
                **"dict\_key"**:**"cast"**,  
                **"dict\_value"**:**1**,  
                **"timestamp"**:**1536992985**  
            },  
            {  
                **"dict\_key"**:**"cast2"**,  
                **"dict\_value"**:**1**,  
                **"timestamp"**:**1536992985**  
            }  
        ]  
    }  
}

# 引擎获取清算费率的内容

场景：引擎需要刷新清算费率的内容

发送方：引擎

消息内容：

{  
    **"msgseq"**:**3**,  
    **"key"**:**"getFeeDict"**,  
    **"engineId"**:**"201807181559531"**,  
    **"timestamp"**:**1587678432**,  
    **"value"**:{  
        **"fees"**:[  
            **"cast"**,  
            **"cast2"**  
        ]  
    }  
}

回复消息

发送方：Web服务器

消息内容：

参考“设置清算费率时实时下发”

# 服务端请求查看根据规则产生的清算文件

场景：Web服务端查询

发送方：Web服务器

消息内容：

{  
    **"msgseq"**:**"4"**,  
    **"key"**:**"settleAccountsRule"**,  
    **"value"**:[  
        {  
            **"engineId"**:**"201811051414401"**,  
            **"fileServerAddress"**:**"**[**http://10.202.82.88:8081/FileServer//sys/fileCenter/matchFileUpload**](http://10.202.82.88:8081/FileServer/sys/fileCenter/matchFileUpload)**"**,  
            **"linkId"**:**"682ac154601948f881a8aae58eae596e"**  
        }  
    ]  
}

回复消息

发送方：Web服务器

消息内容：

{  
    **"msgseq"**:**"num\_s"**,  
    **"origmsgseq"**:**"num\_c"**,  
    **"key"**:**"settleAccountsRule"**,  
    **"engineId"**:**"2a3cf158860c6384ed6ffeed18ffec55"**,  
    **"value"**:{  
        **"status"**:**"0"**  
    }  
}

# 引擎上传规则清算文件成功后发送文件ID给服务端

场景：引擎上传规则清算文件后发文件服务器的结果给管理端

发送方：引擎

消息内容：

{  
    **"msgseq"**:**"num\_c"**,  
    **"key"**:**"settleFileUploadRule"**,  
    **"value"**:{  
        **"engineId"**:**"2a3cf158860c6384ed6ffeed18ffec55"**,  
        **"status"**:**"0"**,  
        **"upContent"**:**""**  
    }  
}