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| CHENG YOU |
| Remote Procedure Call |
| HTTP Protocol Guide |
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| **6/24/2011** |

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# Background

# Workflow

# Security

# Request

|  |  |
| --- | --- |
| CODE | DESCRIPTION |
| 01 | Request to log in |
| 02 | Request to log out |
| 03 | Execute remote producer |
|  |  |

## Log In

|  |  |  |
| --- | --- | --- |
| FIELD | LENGTH | DESCRIPTION |
| MODE | 1 | [80/90]. The request is invoked in production or development mode.  80 – Production  90 – Development |
| ACTION | 1 | [01]. Log in request |
| VERSION | 1 | [10]. The client version. 10 = 1.0, 11 = 1.1, …  Server can use version to verify whether accepts client request or not. If rejects, usually, it is because client version is too old. |
| [IDENTITY] | \* | [account/password]. The log in account and password. For example, TEST/123 means account = TEST, password = 123. |
|  |  |  |

## Log Out

|  |  |  |
| --- | --- | --- |
| FIELD | LENGTH | DESCRIPTION |
| MODE | 1 | [80/90]. The request is invoked in production or development mode.  80 – Production  90 – Development |
| ACTION | 1 | [02]. Log out request |
| [TOKEN] | \* | The token returns by server if it accepts log in action |
|  |  |  |

## Data Stream

|  |  |  |
| --- | --- | --- |
| FIELD | LENGTH | DESCRIPTION |
| MODE | 1 | [80/90]. The request is invoked in production or development mode.  80 – Production  90 – Development |
| ACTION | 1 | [80]. Execute request |
| LENGTH | 2 | The token length |
| [TOKEN] | \* | The token returns by server if it accepts log in action |
| {DATA} | \* | The request data stream |
|  |  |  |

# Response

|  |  |
| --- | --- |
| CODE | DESCRIPTION |
| 01 | User logged In |
| 02 | Can’t logged In |
| 03 | Logged out |
| 04 | Invalid request |
| 05 | Not logged in |
| 06 | No access right |
| 11 | Executed successfully, Return data and maybe new token |
| 12 | Fail execute and return exception message |
| 13 | Internal Server Error |

## Logged In

|  |  |  |
| --- | --- | --- |
| FIELD | LENGTH | DESCRIPTION |
| MODE | 1 | [80/90]. The request is invoked in production or development mode.  80 – Production  90 – Development |
| ACTION | 1 | [01]. User logged in |
| VERSION | 1 | [10]. The server version. 10 = 1.0, 11 = 1.1, …  Server API version. |
| [TOKEN] | \* | Server assigned token to this client. Token is not permanent to a user, it may change when log in again |
|  |  |  |

## Can Not Logged In

## 

|  |  |  |
| --- | --- | --- |
| FIELD | LENGTH | DESCRIPTION |
| MODE | 1 | [80/90]. The request is invoked in production or development mode.  80 – Production  90 – Development |
| ACTION | 1 | [02]. User logged in |
| [MESSAGE] | \* | The reason why server rejects user log in |
|  |  |  |

## Logged Out

|  |  |  |
| --- | --- | --- |
| FIELD | LENGTH | DESCRIPTION |
| MODE | 1 | [80/90]. The request is invoked in production or development mode.  80 – Production  90 – Development |
| ACTION | 1 | [03]. Response to user log out request. |
|  |  |  |

## Invalid Request

|  |  |  |
| --- | --- | --- |
| FIELD | LENGTH | DESCRIPTION |
| MODE | 1 | [80/90]. The request is invoked in production or development mode.  80 – Production  90 – Development |
| CODE | 1 | [04]. The request is unknown to server, server don’t know how to handle it. |
|  |  |  |

## Not Logged In

|  |  |  |
| --- | --- | --- |
| FIELD | LENGTH | DESCRIPTION |
| MODE | 1 | [80/90]. The request is invoked in production or development mode.  80 – Production  90 – Development |
| CODE | 1 | [05]. The request is unknown to server, server don’t know how to handle it. |
|  |  |  |

## Execute OK and Return New Token and Data

|  |  |  |
| --- | --- | --- |
| FIELD | LENGTH | DESCRIPTION |
| MODE | 1 | [80/90]. The request is invoked in production or development mode.  80 – Production  90 – Development |
| CODE | 1 | [11]. The request is unknown to server, server don’t know how to handle it. |
| LENGTH | 1 | The length of new token. If it is 0, no new token is returned |
| [TOKEN] | \* |  |
| {DATA} | \* | Returned data. If |

## Fail Execute Exception

|  |  |  |
| --- | --- | --- |
| FIELD | LENGTH | DESCRIPTION |
| MODE | 1 | [80/90]. The request is invoked in production or development mode.  80 – Production  90 – Development |
| CODE | 1 | [05]. The request is unknown to server, server don’t know how to handle it. |
| {ERROR} | \* |  |