Edge Box Node-Red Workflow

1.Start node-red with all installed nodes with the command:

*node /usr/lib/node\_modules/node-red/red &*

2.Start Http server to read data

Server file in /usr/bin/NodeManagementWrapper/nodejs\_test/

*cd /usr/bin/NodeManagementWrapper/nodejs\_test/*

*node httpserver.js*

3.The test workflow is in (eg: final\_test)

/home/root/.node-red/lib/flows/

4.Self defined nodes files are put in

*/usr/lib/node\_modules/*

*eg:* *node-red-http\_client , node-red-query\_client ,* *sync-request*

*In this workflow ,we use the “sync-request” module.*

*Notes :*

*1. If the Node-Red’s port is used ，follow this step and restart Node-red*

*command check*

*ps -ef*

*kill -9 “pid**”(eg:node-red)*

*2. Meet errors like this: http\_client issue : socket hang up*

*The reason maybe like this : json string input error (eg: in http\_client: opcuaServerCfg; in query\_client : json:{"NodeID": {"deviceAddr": NodeID.deviceAddr,"nodeAddr": NodeID.nodeAddr[0]}})*

*Solution:TBD*

*3. The workflow function meet this problem :"TypeError: Cannot create property '\_msgid' on string '{ 1 : 24.41, 0 : 90.98 }'"*

*Solution:TBD*

*4. To send data to MindSphere，we use hard code in this flow*

*Reference:*

1. [*https://nodered.org/docs/*](https://nodered.org/docs/)
2. [*https://support.industry.siemens.com/tf/ww/en/posts/how-to-start-node-red/*](https://support.industry.siemens.com/tf/ww/en/posts/how-to-start-node-red/)
3. [*https://www.npmjs.com/package/sync-request*](https://www.npmjs.com/package/sync-request)