

AcquiSuite exchange with BMO, request for configuration manifest.

Packet capture with wireshark: Capture / Options:

- Capture in promiscuous mode
- Capture Filter: "net 192.168.10.223"

Note: blue=request, red=reply.

```
-----
POST /upload.php HTTP/1.0
Host: www.buildingmanageronline.com:80
Connection: close
Content-Length: 911
Content-Type: multipart/form-data; boundary=MIME_BOUNDARY_MIME_BOUNDARY_MIME_BOUNDARY
Pragma: no-cache
Authorization: Basic MDAxRUM2MDAwMjc3b3N3b3Jk
User-Agent: Mozilla/4.0 (compatible; senddata.c 1.85; Linux; serial 001EC6000273)
```

```
--MIME_BOUNDARY_MIME_BOUNDARY_MIME_BOUNDARY
Content-Disposition: form-data; name="SERIALNUMBER"
```

```
001EC6000273
--MIME_BOUNDARY_MIME_BOUNDARY_MIME_BOUNDARY
Content-Disposition: form-data; name="PASSWORD"
```

```
password
--MIME_BOUNDARY_MIME_BOUNDARY_MIME_BOUNDARY
Content-Disposition: form-data; name="LOOPNAME"
```

```
001EC6000273
--MIME_BOUNDARY_MIME_BOUNDARY_MIME_BOUNDARY
Content-Disposition: form-data; name="ACQUISUITEVERSION"
```

```
v02.09.0115
--MIME_BOUNDARY_MIME_BOUNDARY_MIME_BOUNDARY
Content-Disposition: form-data; name="USRVERSION"
```

```
(unknown)
--MIME_BOUNDARY_MIME_BOUNDARY_MIME_BOUNDARY
Content-Disposition: form-data; name="ROOTVERSION"
```

```
(unknown)
--MIME_BOUNDARY_MIME_BOUNDARY_MIME_BOUNDARY
Content-Disposition: form-data; name="KERNELVERSION"
```

```
(unknown)
--MIME_BOUNDARY_MIME_BOUNDARY_MIME_BOUNDARY
Content-Disposition: form-data; name="MODE"
```

```
CONFIGFILEMANIFEST
--MIME_BOUNDARY_MIME_BOUNDARY_MIME_BOUNDARY--
HTTP/1.1 200 OK
Date: Thu, 23 Apr 2009 16:36:12 GMT
Server: Apache/1.3.29 (Unix) PHP/4.3.5
X-Powered-By: PHP/4.3.5
Connection: close
Content-Type: text/html
```

```
CONFIGFILE,loggerconfig.ini,ce27061c82d880fb2276888202f46e93,2009-04-23 16:35:42
CONFIGFILE,modbus/mb-250.ini,bc7f42c4395a63ec732d1d0d8477d0a9,2008-06-10 22:40:22
SUCCESS
```

AcquiSuite exchange with BMO, request to download (BMO-->AcquiSuite) the loggerconfig.ini file.

Packet capture with wireshark: Capture / Options:

- Capture in promiscuous mode
- Capture Filter: "net 192.168.10.223"

Note: blue=request, red=reply.

GET /upload.php?

MODE=CONFIGFILEDOWNLOAD&SERIALNUMBER=001EC6000273&PASSWORD=password&MODBUSIP=127.0.0.1&MODBUSPORT=502&MODBUSDEVICE=0&MODBUSDEVICECLASS=0 HTTP/1.0

User-Agent: Wget/1.8.2

Host: www.buildingmanageronline.com

Accept: */*

Connection: Keep-Alive

Authorization: Basic MDAxRUM2MDAwMjczOnBhc3N3b3Jk

HTTP/1.1 200 OK

Date: Thu, 23 Apr 2009 16:36:12 GMT

Server: Apache/1.3.29 (Unix) PHP/4.3.5

X-Powered-By: PHP/4.3.5

Connection: close

Content-Type: application/octet-stream

ALLOWREMOTECFG=YES

BOOTPROTO=dhcp

BROADCAST=192.168.40.255

CONSOLEALARM=YES

DIALINENABLED=NO

DIALINLOCALIP=192.168.238.1

DIALINREMOTEIP=192.168.238.2

DIALOUTCHKLINE=NO

DIALOUTENABLED=NO

DIALOUTPASSWORD=

DIALOUTPHONE=

DIALOUTSTAYCONNECTED=NO

DIALOUTUSERNAME=

DNS1=70.99.203.62

DNS2=

DOMAINNAME=acquisuite.com

GATEWAY=192.168.40.1

HOSTNAME=acquisuite.acquisuite.com

HTTPPROXY=

HTTPPROXYPORT=

IPADDR=192.168.40.50

LOGPERIOD=15

LOOPADDR="127.0.0.1"

LOOPNAME=001EC6000273

MAXUPLOADTRIES=3

MODBUSDEBUG=NO

MODBUSPARITY=0

MODBUSSEARCHACROMAG=NO

MODBUSPEED=0

MODBUSSTOPBIT=0

MODBUSTCPACCESS=2

MODBUSTIMEOUT=200000

MODEMCHATDEBUG=YES

MODEMSERIAL=

MODEMSETUPSTRING="AT"

MODEMSPEED="115200"

MODEMTYPE=MT5600SMI

MODEMVOLUME=YES

NETMASK=255.255.255.0

NETWORK=192.168.40.0

PASSWORD="password"
PPPDEBUG=YES
RDATESERVER=time.buildingmanageronline.com
SENDDATADEBUG=NO
SENDDATATRACE=NO
SERIALNUMBER=001EC6000273
SMTPENABLED=NO
SMTPFROMADDR=
SMTPSERVER=
SMTPTOADDR1=
SMTPTOADDR2=
SMTPTOADDR3=
SNMPTRAPENABLED=NO
SNMPTRAPHOST1=
SNMPTRAPHOST2=
SNMPTRAPHOST3=
TIMEPROTO=rdate
TIMEZONE="US/Pacific"
UPLOADELAY=-1
UPLOADHOUR=5
UPLOADONALARM=NO
UPLOADONBOOT=YES
UPLOADONFULL=NO
UPLOADURL=http://www.buildingmanageronline.com/upload.php

```

/* -----*/
/*      This function takes an acquisuite configuration ini file (in blob format)
      and converts it into an array of ini set file parameters.
*/
function BMO_BlobIniToArray($blob)
{
    $lines = explode("\n", $blob);      // convert blob into an array of line items
    foreach ($lines as $theline)        // loop through the lines
    {
        $parts = explode("=", $theline); // split each line into a parameter and value
        if (strlen($parts[0]) > 0) $result_array[$parts[0]]=$parts[1];
        // add the parameter and value to our result array.
        //(the parameter is used as the index.)
    }

    return $result_array;
}
/* -----*/
/*      This function takes an acquisuite configuration file (in array format)
      and converts it into a blob of ini set file parameters. (blob is stored in database)
*/
function BMO_ArrayToBlobIni($arrayIni)
{
    foreach ($arrayIni as $key => $value)
    {
        $result_blob = $result_blob . sprintf("%s=%s\n", $key, $value);
    }

    return $result_blob;
}
/* -----*/
/*      This function takes an acquisuite configuration ini file (in blob format)
      and converts it into an array of ini set file parameters.
*/
function BMO_BlobIniChecksum($blob)
{
    return md5($blob);
}
/* -----*/
/*      Some example code. This is an example of how to pull it all together.
*/
// first build the sql query string to retrieve the file from database.
$strQuery= "select * from tblAcquiSuite where SerialNumber='1234567890A' ";

$result = mysql_query($strQuery,$MYSQL); // note, you should handle errors here.

// if we get a result, then extract the table name from the results..
if ($result = mysql_fetch_array($result))
{
    // place all found recordset values into variables...
    $strAcquiSuiteLastIP = $result["LastIP"];
    $blobConfiguration = $result["configuration"];

    // convert logger config ini file into an array of point config values.
    $configArray = BMO_BlobIniToArray($blobConfiguration);

    $configArray["UPLOADONBOOT"] = "YES"; // modify a setting. Note, because we converted
    //the ini file to an array, all parameters can be
    // accessed with array syntax: array[parameter] = value

    $blobConfiguration = BMO_ArrayToBlobIni($configArray); // turn it back into a blob.

    $blobChecksum = BMO_BlobIniChecksum($blobConfiguration); // generate checksum
    $blobConfiguration = mysql_escape_string($blobConfiguration); // clean up sql reserved chars.

    putenv("TZ=UTC");
    $strDate = date("Y-m-d H:i:s"); // make a date stamp of now, in UTC time.

    $strQuery= sprintf("update tblAcquiSuite set configuration='%s', configurationchecksum='%s',
configurationchangetime='%s' where SerialNumber='1234567890A'", $blobConfiguration, $blobChecksum,
$strDate); // first build the sql string

    $result = mysql_query($strQuery,$MYSQL); // write the blob back to a database.
} // end if sql row was available.

```