

SDK Script sms-control.are

For further information on how to configure see [SMS Control](#).

[sms-control.are](#)

```

/* DESC: This script will execute commands received by SMS.
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 */

INTERVAL          = 10;                /* only run every 10
seconds                                     */
MAXMSG            = 5;                /* process max. 5 msgs
*/
MAXAGE            = 300;              /* message mustn't be
older than 5 mins                            */
MAXLINES          = 32;              /* max. number of lines in msg (incl.
header) */
AUTH              = 1;                /* perform
authentication                               */
ADMPWD            = "";              /* password used for
authentication                               */
IGNORECASE        = 1;                /* ignore upper-/lower-
case                                          */
SENDERS           = mkarray( /* "+123456789" */); /* allowed senders
*/

/* check if we should perform authentication */
if (argc == 2 && argv[1] == "noauth") {
    AUTH = 0;
}

/* retrieve password */
if (AUTH) {
    if (strlen(ADMPWD) == 0) {
        /* use configured admin password */
        ADMPWD = nb_config_get("admin.password");
        if (strlen(ADMPWD) > 0) {
            nb_syslog("using admin password for authentication");
        } else {
            /* not there -> use a default password instead */
            nb_syslog("using default password for authentication");
            ADMPWD = "admin01";
        }
    }
}

```

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    if (IGNORECASE) ADMPWD = tolower(ADMPWD);
}

/* parse message */
string parse (string msg)
{
    /* read by line */
    lnr = 0;
    ishdr = 1;
    tlnr = 0;
    allowed = (length(SENDERS) == 0) ? 1 : 0;

    lp = msg;
    for (lnr = 0; lnr < MAXLINES && strlen(lp) > 0; lnr++) {
        pos = strchr(lp, "\n");
        if (is_void(pos)) pos = strlen(lp);

        line = left(lp, pos);
        lp = substr(lp, pos + 1);

        if (strlen(line) == 0) {
            /* saw header separator */
            ishdr = 0;
            continue;
        }
        if (ishdr) {
            /* saw header line */
            if (left(line, 5) == "Sent:") {
                /* check age of message */
                sentdate = trim(substr(line, 5));
                sent = strtptime(sentdate, "%Y-%m-%d %H:%M:%S");

                if (!is_void(sent)) {
                    /* got a valid sent date */
                    now = localtime(time());
                    age = mktime(now) - mktime(sent);
                    nb_syslog("message has been sent %ds ago", age);
                    if (age > MAXAGE) {
                        nb_syslog("rejecting too old message");
                        return "";
                    }
                } else {
                    nb_syslog("time check has been omitted");
                }
            } else if (left(line, 5) == "From:") {
                from = substr(line, 6);
                if (length(SENDERS) > 0) {

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        for (s = 0; s < length(SENDERS); s++) {
            sender = SENDERS[s];
            if (left(from, strlen(sender)) == sender) {
                allowed = 1;
                break;
            }
        }
    }
    if (allowed == 0) {
        nb_syslog("rejecting message from unknown sender
%s", from);
        return "";
    } else {
        nb_syslog("sender %s can pass", from);
    }
} else {
    /* saw text line */
    if (IGNORECASE) line = tolower(line);

    if (AUTH && tlnr == 0) {
        /* first line of message must contain the password */
        if (left(line, strlen(ADMPWD)) != ADMPWD) {
            nb_syslog("authentication failed");
            return "";
        } else {
            nb_syslog("authentication succeeded");
        }
    } else if ((AUTH && tlnr == 1) || (!AUTH && tlnr == 0)) {
        /* this line must contain the command */
        if (left(line, 6) == "reboot") {
            return "reboot";
        } else if (left(line, 7) == "connect") {
            return "connect";
        } else if (left(line, 10) == "disconnect") {
            return "disconnect";
        } else if (left(line, 6) == "status") {
            return "status";
        } else if (left(line, 6) == "output") {
            return left(line, 13);
        }
    } else {
        break;
    }
    tlnr++;
}
}
}

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    nb_syslog("no command detected");

    return "";
}

int setdio (string cmd)
{
    newstate = substr(cmd, 9, 3);
    port = substr(cmd, 7, 1);

    if (port != "1" && port != "2") {
        nb_syslog("invalid DIO port %s\n", port);
        return -1;
    }
    if (newstate == "on") {
        st = 1;
    } else if (newstate == "off") {
        st = 0;
    } else {
        nb_syslog("invalid new DIO state %s\n", newstate);
        return -1;
    }

    rc = nb_dio_set(sprintf("out%s", port), st);
    if (rc) {
        nb_syslog("Unable to set state %s for DIO output port %s\n",
newstate, port);
        return -1;
    } else {
        nb_syslog("Setting state %s for DIO output port %s\n",
newstate, port);
        return 0;
    }
}

/* check if we got stressed */
LASTFILE = "/tmp/sms-control.last";
last = 0;

fp = fopen(LASTFILE, "r");
if (fp) {
    /* we have been run at least one time */
    str = fread(fp, 32);
    if (str) last = (int) str;
    fclose(fp);
}

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now = mktime(localtime(time()));
elapsed = now - last;
if (elapsed > 0 && elapsed < INTERVAL) {
    nb_syslog("we have ben run %d seconds ago. skipping.", elapsed);
    exit(0);
}

/* record timestamp */
fp = fopen(LASTFILE, "w+");
if (fp) {
    str = sprintf("%d", now);
    fwrite(fp, str);
    fclose(fp);
}

/* read inbox */
msgs = nb_sms_list();
nr_msgs = length(msgs);

if (nr_msgs == 0) {
    nb_syslog("there are no messages in your inbox");
    exit(0);
}

nb_syslog("you have %d message(s) in your inbox", nr_msgs);

/* track states */
reboot = 0;
connecting = 0;
disconnecting = 0;

/* only process latest messages */
start = nr_msgs - MAXMSG;
if (start < 0) start = 0;

for (i=start; i<nr_msgs; i++) {
    msg = nb_sms_retrieve(msgs[i]);
    if (!msg) continue;

    nb_syslog("processing message %d of %d (ID %s)",
        i, nr_msgs, msgs[i]);

    cmd = parse(msg);
    if (cmd == "reboot") {
        nb_syslog("reboot command received");
    }
}

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    reboot = 1;
} else if (cmd == "connect") {
    nb_syslog("connect command received");
    if (connecting) {
        nb_syslog("already connecting");
    } else {
        /* enable first wanlink */
        nb_config_set("wanlink.0.mode=1");
        connecting = 1;
    }
} else if (cmd == "disconnect") {
    nb_syslog("disconnect command received");
    if (disconnecting) {
        nb_syslog("already disconnecting");
    } else {
        /* disable first wanlink */
        nb_config_set("wanlink.0.mode=0");
        disconnecting = 1;
    }
} else if (cmd == "status") {
    nb_syslog("status command received");
    rcpt = nb_sms_header(msgs[i], "From");
    if (rcpt) {
        id = nb_sms_send(rcpt, nb_status_summary());
        if (!id) {
            nb_syslog("unable to send status message to %s", rcpt);
        } else {
            nb_syslog("successfully queued status message to %s (ID
%s)", rcpt, id);
        }
    }
} else if (left(cmd,6) == "output") {
    nb_syslog("dio out command received");
    setdio(cmd);
} else {
    nb_syslog("ignoring invalid message");
}

/* delete message */
ret = nb_sms_delete(msgs[i]);
if (ret == 0) nb_syslog("deleted message %s", msgs[i]);
}

if (reboot == 1) {
    /* trigger reboot */
    nb_syslog("rebooting system");
    nb_reboot();
}

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```
}  
exit(0);
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