

# Functional Description

high security remote access

## Budget Manager for NCP Secure Enterprise Client and NCP Secure Entry Client



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This document contains the Budget Manager's functional description and shows you how to make settings according to your monthly connection payments.

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## Functional Description of the Budget Manager for NCP Secure Clients



The budget manager is a function of Secure Enterprise Client 9.1 and of Secure Entry Client 9.1.



The budget manager serves for voluntary monitoring and can be used to assess a monthly connection amount or limits, maintained on a voluntary basis or administrator-specified volume or time budgets.



*The budget manager supports you with the estimation and voluntary personal monitoring of your monthly connection payments. Additionally, the budget manager can help you with the maintenance of a voluntarily initiated or administrator specified volume or time budget. However, observe that the budget manager neither prevents an exceeding of this kind of budget nor the origination of associated costs.*



*The budget manager only contains connections that are established via the NCP Dialer. If the dial-up takes place via other external tools (e.g. RAS Dialer, iPass), no connection data are gathered. The data gathered by the budget manager are not always complete and therefore do not correspond to the creation of a bill of charges, cost comparisons or other volume or price calculations.*

## Budget Manager Functions

The budget manager is a component of the Secure Client “Call Control Manager” and serves predominantly for voluntary monitoring. It measures and monitors the data volume estimation during a certain time span or the time run out online within this time span (e.g. within a month), to the extent that the connection has been built via a media type supported by the NCP Dialer\*. If no parameter locks are created by the administrator in the client software, the user can set the budget limits himself.\*\*

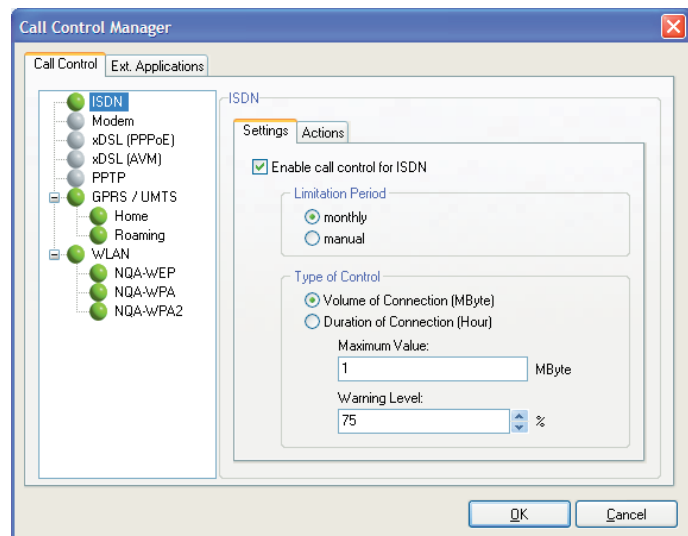
*\* The Secure Client, with its own dialer, supports the following connection media: ISDN, Modem, xDSL (PPPoE), xDSL (AVM-PPP over Capi), GPRS / 3G, WLAN, PPTP*

*\*\* Should a limit be exceeded and a connection establishment is no longer possible, the user must contact his administrator, to the extent that parameter blocks are set. The parameter blocks must be unmade; only thereafter can the user conduct a new configuration, to the extent that the Enterprise Client is used, a new phonebook is obtained from the management system.*

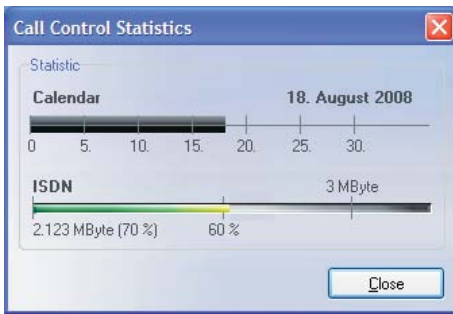
## Budget Limitation according to Volume or Time online

The corresponding settings, whether data volume or time online that should be measured during a month or other determined time period, can be done via the monitor menu “Configuration / Call Control Manager”.

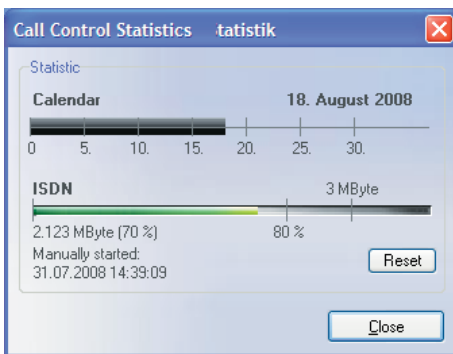
For all connection media supported by the NCP Dialer, each type of calculation can be determined separately, whether the (monthly) connection volume or the time of connection were measured. So for example, a maximum connection time per month for ISDN or WLAN and a maximum connection volume per month for GPRS / 3G can be specified.



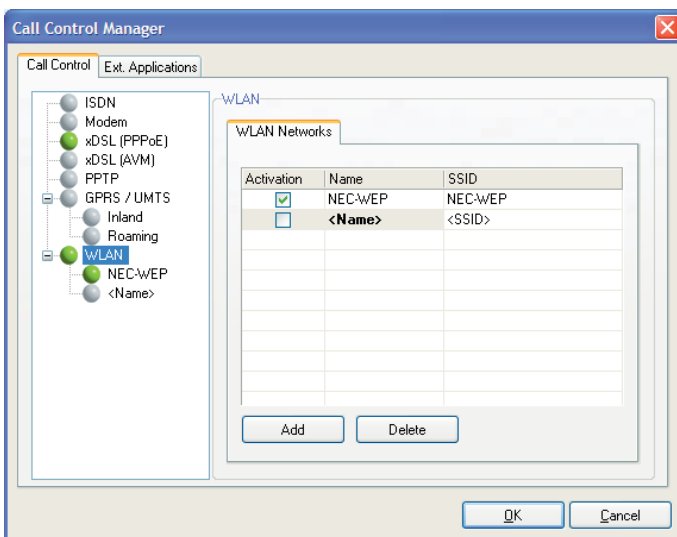
*Connection control can be activated for each connection medium (which then contains green marking); likewise time period and type of monitoring, according to volume or duration, whereby a maximum value can be given for each. (Illustration above)*



Statistics are opened via the monitor menu “Connection / Connection Control Statistics”. It displays in the above illustration for the 18th of August that 70% of the budget (3 MB) are used, which would correspond somewhat to the monthly trend. The warning level has been set at 60%, so that upon reaching this value, the budget level is colored yellow.



The statistic in the upper illustration shows that the connection control does not occur monthly, but rather has been started manually on the 9th of August by pressing on the reset button. Within a week, 70% of the budget has been used. The set warning level at 80% has not yet been reached.



In the WLAN overview, the WLAN network can be added. Additionally, the SSID is entered and a (desired) name. In the above illustration, the call control manager has been activated for “NEC-WEP” only.

## Monthly Log

If a monthly budget is available (set under Connection Control / Monitoring / Settings”), monitoring is carried out from the first of the month to the end of the month, even if monthly monitoring is activated when the month has started already. The Secure Client notes the connection data since the first of the month, independently of whether connection control is activated or not.

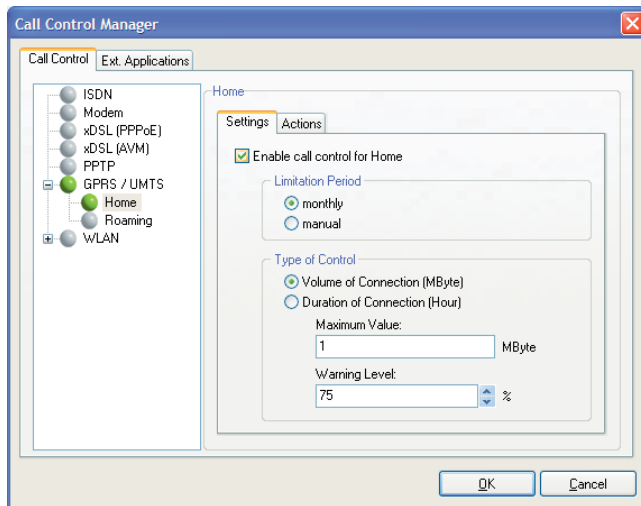
With a commensurate budget, or one designed for the user, statistics show that, in the course of a month the bar for the budget grows parallel to the calendar display, i.e. the monthly budget setting is sufficient. (See illustration left)

## Smaller Budgets for Mobile Computing

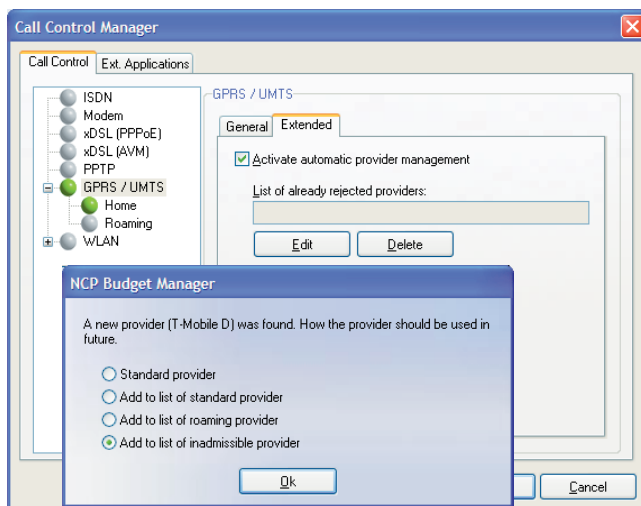
If a limited budget is available for a limited time period, for example for the time of a hotel stay, the starting time point can be set manually. Additionally, the statistic is opened via the monitor menu “Connection” and pressed for the selected type of connection of the reset button. Thereby, the starting time point is determined from which the specified budget is posted. (Pressing the reset button again starts the connection control again with the same specification and deletes the previous connection records.)

## Call Control Management for individual WLAN Profiles

For each WLAN profile that has been configured on the monitor menu “Configuration”, a separate call control manager can be set. Additionally, the SSID is transferred from the prevailing WLAN profile in the call control management for the WLAN network. The call control management can be activated individually via the “Settings” or for several in the overview under “WLAN”.

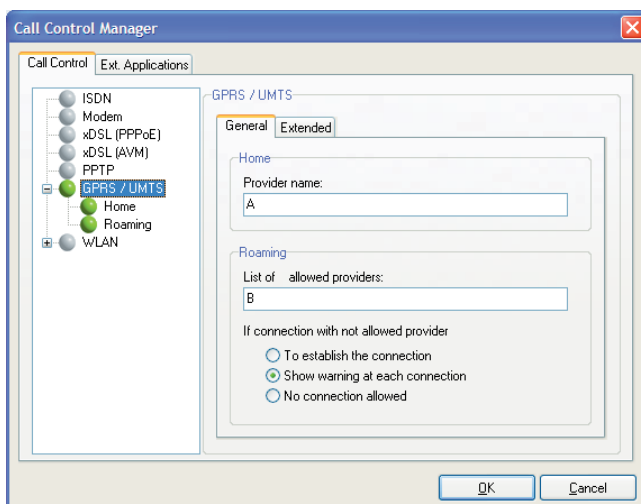


The activation of connection control takes place separately for inland and for roaming. (Illustration above)



If the automatic provider management has been activated (illustration above), a previously unknown network operator can be classified via the above security inquiry for wider use.

The lists of permissible network operators (illustration below) can be edited in the display field. The providers are separated by comma or semicolon, respectively.



## Avoid costly Roaming

For the media type GPRS / 3G, the connection control is activated separately for inland (home) and roaming connections. (See illustration left)

Unnecessary roaming with GPRS / 3G connections, e.g. in border areas, can largely be excluded through targeted security inquiries. In this way, lists of permissible inland network operations and permissible roaming network operators can be created that permit the selection of the most favourable and the exclusion of undesirable providers from the beginning on in a convenient way.

## Automatic Provider Management

If automatic provider management is activated, the user for each new provider not yet known to the system is asked in which new provider's list this provider should be recorded. In the list of inland network operators, of the roaming network operators or denied impermissible network operators. The list of network operators to be denied can be handled under "Upgrading" at any time, for example in order to delete a provider and to record it in another list.

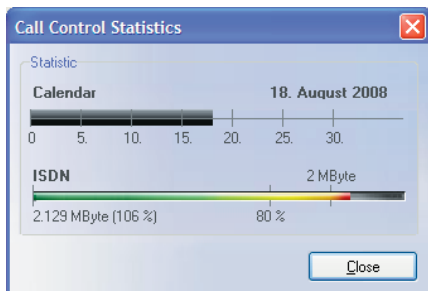
If automatic provider management is not used, a provider the system does not yet recognize is handled as an impermissible network operator and connection establishment is made via this provider according to the options for impermissible network operator specified under the settings "General."

## Inland Network Operator and Roaming Network Operator

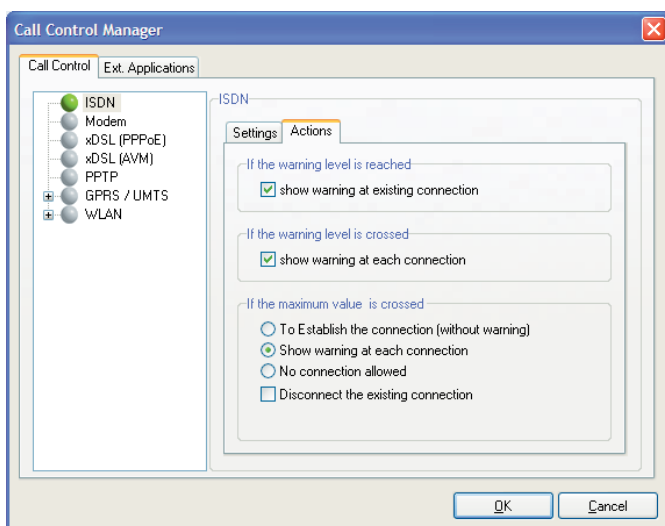
Like the connection control, which is activated separately for inland connections and roaming connections, separated lists for permissible inland network operator and roaming operators are conducted. Via these lists that are conducted in the settings "General" (illustration left), the provider selection is automated. Each provider, that the user has entered via the automated network operator administration or manually in one of the lists under "inland" or "roaming", is used for connection establishment as soon as the system recognizes it.

Yet unknown providers are handled according to the setting for impermissible network operators. (Illustration left)

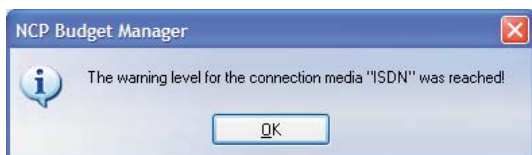




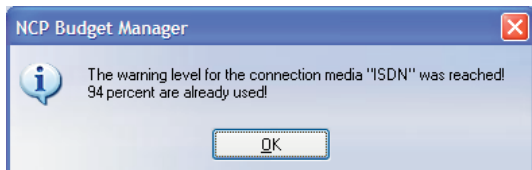
The statistic in the above illustration shows that the user has already exceeded his monthly budget. The warning level has been set at 80% of the budget, so that a warning must be displayed after exceeding this limit.



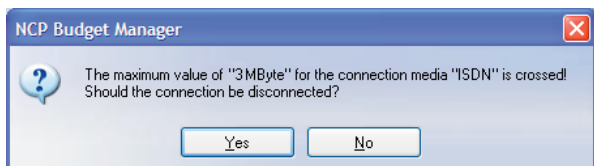
After setting the action for ISDN (illustration above), the following warning appears:



... after exceeding the warning level with the existing connection;



... after exceeding the warning level upon establishing each connection;



... after exceeding the maximum value upon establishing each connection.

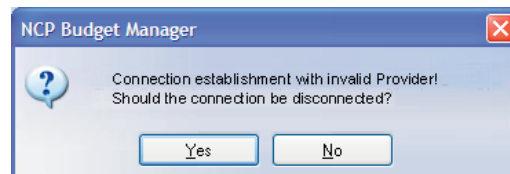
## Budget Statistics and automated Warnings

The user obtains an overview of his (monthly) budget in the statistics regarding connection control. The statistic shows, with the current date, how much of the maximum exhausted budget in hours or bytes already have been used since the first of the current month or since the start of monitoring. Here you also can see limits that can be set in order to trigger certain actions. (Illustration above left)

The actions are individually determined like the connection control for each medium (see illustration left). Therefore, a warning can be issued after a percent use of determined connection volume or the maximum connection time that makes one alert that the budget is soon exhausted. Or, after the budget is exhausted, no connection is permissible for this month.

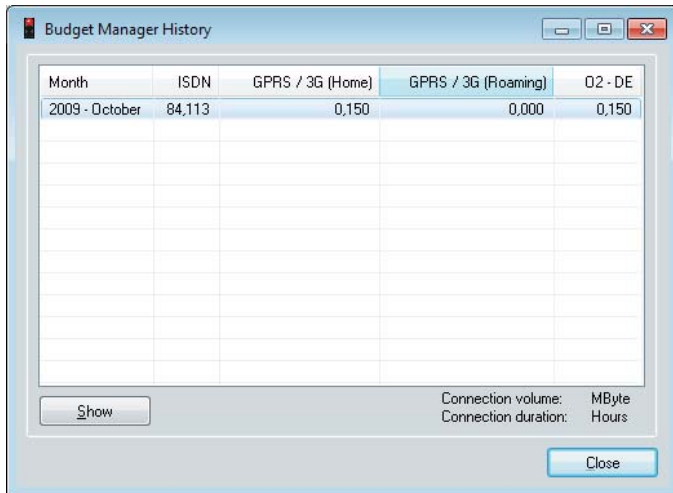
If the budget display in the statistic is clearly more rapid than the balance display for the calendar, the assigned budget is not sufficient. The budget display is coloured yellow after reaching the warning area, red after reaching the maximum value. (Illustration above left)

If establishment of the connection is no longer permissible after exceeding the maximum value, the corresponding report appears on the client monitor.



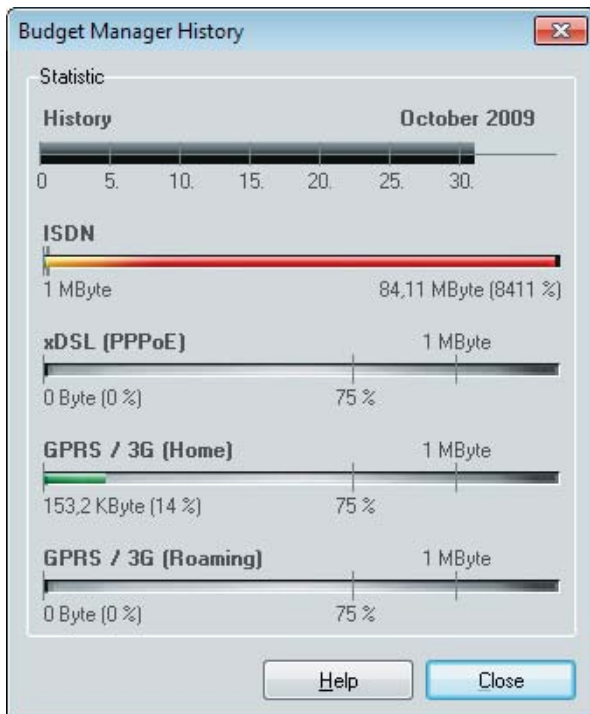
The above warning only appears if, under GPRS/3G has been configured for a connection with an impermissible network operator, a warning should be issued. See illustration below on the previous side.

## Budget Manager History



The history of the budget manager is opened under the connection menu of the monitor. It is displayed in two windows.

One line of the tabular overview (see illustration on the left) displays the amount of the data traffic within one month. It displays this information for a maximum of the previous twelve months and separated into different communication media (depending on the communication media it is displayed in hours or MBytes).



Clicking on “show” displays the graphical overview. It shows the data corresponding to the limits set in the logon options in the configuration menu for the respective communication medium.



**Note**

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