GPP version 3.1.xx release notes

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1. Support for new controller type: IC2001/4001

On controller screen, Type field, six types of the IC2001/4001 controller are supported:

• IC2001 Access

• IC2001 Parking

• IC2001 Li

• IC4001 Access

• IC4001 Parking

• IC4001 Li

2. Support for new controller type: IC550

On controller screen, Type field,two types of the IC550 controller are supported:

• IC550 Access

• IC550 Parking

3. SPLIT mode - Support for ServiceCom module (SC)

The new module requires the "SC" module on the dongle. When this module exist, and when the INI is set with ServiceCom = 1 , the application works in a special mode where the communication layer is separated from the GUI layer. This separation mode is also known as the "SPLIT" mode

General Description

In the SPLIT mode there are 2 layers:

a. GPP GUI layer (GuardPointPro.exe - windows application

b. Communication layer (secComService - windows service)

Commands:

The GPP application prepares the commands (e.g., the commands to add new cardholders) and then the secComService sends them and update the relevant controller(s) accordingly.

Polling:

The secComService reads the events from the controllers and passes them to the GPP application.

Advantages:

The two main advantages of SPLIT mode are:

1. Ability to handle many more controller networks. In the standard, none-split the limit was 270 nets, and with SPLIT it is 700. In addition, the SPLIT allows adding more communication servers and thus enables a single system to have 1000s of controller networks without compromising on performance.

2. System durability: the GUI layer is not affected by communication problems. There is no downgrade of the GPP application user experience even when most or all controllers have communication problems.

These and other advantages make the SPLIT mode a critical module for large scale installation

How to install:

a.   Make sure that the Split module exist on the dongle (the letters "SC")

b.   On the INI file set: ServiceCom = 1

c.   Verify that the dongle has SQL and that the application works with SQL db

d.   Restart GPP.

e.   On GPP go to Tools > Options > Server. Press Shift+F12 to show the buttons "ReInstall Split" "UnInstall Split".

Press ReInstall to start the installation process

After few seconds GPP should be auto restarted as a normal part of the process

4. Support for VideoPlus

Support for VideoPlus module (V+). For detailed info on this module see:

5. Support for 8 Digits PIN Code

The standard PIN code is limited to 4 digits. Support for 8 Digits code is now available with a special controller firmware . If this feature is needed for a project please contact Sensor for further details.

6. Allow more than 99 Lift Program & Lift Auth Gro

The max. possible total number of "lift programs" or "lift authorization groups" was increased from 99 to 2 Note that some old controller firmware version did not support Lift Program > 99. The IC firmware support this only since 2012 and later.

7. Added Language - Norwegian

New supported language - Norwegian.

8. Cancelled / Lost / Stolen (card) can trigger a Global Reflex

The specific events of Cancelled / Lost / Stolen card can trigger a Global Reflex. Until this version it was poss ble to specify other denied reasons (access groups, time not ok, inhibited cardholder, etc.) but not with these mentioned 3 reason

9. Support storage of fingerprint on Suprema devices for Mifare readers

In previous versions, when using Suprema Bio readers with Mifare Smart cards, fingerprint templates are stored on the Mifare Smart cards.

Now, it is possible to choose where storing the fingerprint templates: on the device itself or on the Mifare Smart cards.

If the user wishes to store the templates on the device, the INI option BioStoreTemplateToCard should be se to zero.

When 'BioStoreTemplateToCard' is set to 1, the message "All Fingerprints will be stored in smartcard only" appears in the "Fingerprint" tab instead of the regular selection boxe:

10. XML API Authentication

One of the integration methods with the GPP application is to send XML commands via Spread (XML-API) or via the database (DB-API). In this version we added authentication method that would force the "integratio client" to send a unique password with each XML command. The password is good for X minutes (15 by default) then it needs to be renewed. This prevents a potential hacker from r -using a previously used command. Clients/Distributors that are interested in this new method, please contact our tech support for more details.

11. Time & Attendance repor - total hours per department

The standard Time & Attendance report now gives the report ordered by department, with a calculation of to tal hours per each department.

This option is not available in the TA+ modul

12. Windows 8.1 compatibilit

This version supports Windows 8.1.

13. Support for 'Denied' event from Suprema

It is now possible to have the information when not authorized people are trying to access by using the Bic readers.

When unknown finger is presented, the 'Denied Access' event is displayed in the GPP log with the "Unrecognized finger" informatio

If an unknown card is presented, the message will be "Unrecognized card".

If the card is known but not the finger, the "Wrong Finger" information will be displaye

After presenting an empty Smart card, the event is "Smart Card is empty'

If the Smart card has an unknown finger, the event will be "Finger does not match with the Smart Card one".

When a finger is presented without a card, the message is "Finger is passed without a card".

This requires compatible firmware on both controller & Suprema reader. Please contact u

14. Special input types supported by integration tool

In some of the new controllers there are special input type:

- battery low (BAT)

- Power Supply Failure (PSF)

- box Micro Switch open (MS)

These types are now support by the various integration tools

ModbusTCP, OPC, Wizcon.

15. Get logs since X hours - new option on main screen lo

A new right-click option on real-time log of the main screen, allows to bring back to view the previous events from the last X hours.

Note: this feature requires EventsFromDB = 1 on the INI file. (See next chapter).

16. Events from database

In previous versions the real-time events on the main screen log were received directly from the communication layer. Starting from this version the process is done in 2 steps: first inserted in the database and only then the GPP GUI layer brings them to the log view.

Notes:

1. The described behavior is true only when the INI entry EventsFromDB = 1.

2. The GUI layer requests the events from the database every X seconds, therefore the user might feel some delay between the occurrence of the actual event (e.g., card pass) and its appearance on the main screen. The value of X (Frequency of Reading events from DB) is dynamic and depends on the total number of controllers in the system. Here are the default values:

Total Controllers	Frequency of Reading events from DB
0-24 *(INI entry: TimerShowLogCtlNumLow)*	5 seconds *(INI entry: TimerShowLogEveryLow)*
25-199 *(INI entry: TimerShowLogCtlNumMid)*	15 seconds *(INI entry: TimerShowLogEveryMid)*
200 or more	30 seconds *(INI entry: TimerShowLogEveryHigh)*

2. The frequency values in the above table are relevant at times there are no mouse movements on the server or workstation machine. Right after the mouse is moved, the frequency rate automatically changes to 1 second, and stays with this value for a duration of 30 seconds. Then, when the mouse rests it goes back the frequency rates described at the table.

Relevant INI entry: ShowLogMouseMoveAccelerator = 1 (default)

3. On large scale systems, 200 controllers and more, after 10 minutes (600 seconds) of no mouse movement the main screen log goes into "sleep" mode in which no events are displayed. The next mouse movement results in exit from the sleep mode.

Relevant INI entries:

EventsFromDBSleepAfter = 600 (defaul

EventsFromDBSleepAfterCtlNum = 200 (defaul

Note: The Sleep option applies only on GPP Server and not on workstatior

17. Bio integratior - Added support for BioEntryW

Added support for the Suprema Bio Entry W reader.

18. Bio integratior - Added support for Transaction cod

Upon access, Suprema Bio Lite Net readers are able to send Transaction codes, like with regular keypad. T
send a Transaction code to GPP, type the code and place the finger of a valid cardholde

This requires compatible firmware on both controller & Suprema reader. Please contact u

19. Free Card On Expiratior

In all GPP versions, when a cardholder is allocated with an expiration date (i.e., the option "To Date" is set on a
cardholder screen) then he/she are being auto invalidated by GPP within 30 minutes from the selected time &
date arrive.

Starting from this version, if the INI entry FreeCardOnExpiratic

is set to 1, the expiration process will also remove the card

This new option was added in order to free the memory space in the relevant controller:
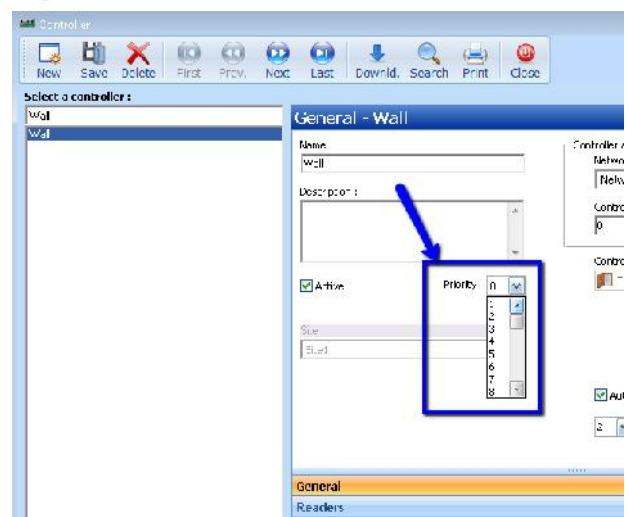
20. Controller Priority

The "Controller Priority" is a new feature added on GPP version 3.0

It allows to pre-define in what order the controllers are going to receive the commands - in cases when a spe-
cific command or a set of commands should be sent to more than one controller. This feature is helpful on sys-
tem with a large number of controllers. For instance when creating a new cardholder that should be sent to

many controllers but the user would like to make sure that the
main entrance controllers will be updated before the others.
How to use:

1. On the INI set sendCtlWithPriority = 1 and restart GPP serv-
er.

2. On the controller screen set the required priority.

The application will update the controllers according to their set priority

Higher value means higher priority (e.g., 2 will be updated before 1). The max. allowed value is 99 and the min. value (and also the default) is 0.

21. New fields on Controller Network screen

Note: The following fields appear only when the Split mode is used.

21.1 Do Polling

Enables turning on/off the event polling separately for each individual network.

21.2 Do Send Command

Enables turning on/off the commands download (e.g., sending cardholders) separately for each individual network.

21.3 Do clean buffer before writin

For controller networks connected via TCP, this field enables turning on/off the cleaning of the data bytes that exist on the TCP line prior to sending each polling command or other command. (This issue is a purely technical, please do not modify the value unless instructed by an authorized Sensor technician).

21.4 Ratio polling/comman

For each network GPP builds 2 queues of commands: polling requests (i.e., reading the events, and other commands (simply referred as "commands"), e.g., send cardholders.

These fields allows the user to set the ratio between "polling" and "commands'

For example, with a ratio of "polling = 5, command = 8" the comService will send to the relevant network 5 polling requests, and then 8 commands and so on. Of course if commands queue contains less than 8 commands it will send whatever it finds in the queue then go back to the polling right afte

21.5 Send Command Interval

The waiting delay (time interval) between 2 "commands", i.e., messages to controllers that are not polling or I/O status requests. Note that the polling interval for is set at the standard " Waiting Delay" field of this screer

21.6 Short Timeout

When sending any kind of command to a controller the comService first wait for the value set at this Short Timeout for the first 3 bytes of the answer. If no answer is received during that time the comService will stop waiting and would go to its next tasl

This was done in order to avoid the un-necessary long waits in case of controllers with bad or lost communication

21.7 Open Connection Timeout

Timeout to wait in TCP networks until getting the confirmation that the TCP socket is opened. If no answer is received until this timeout, the service gives up on that network and does waste time (in that attempt) to try to communicate with the controller(s) of that IP address.

22. New fields on Controller screen

22.1 Auto Refresh

In none-split installation the only way to turn on/off the auto non -stop I/O status commands (command 0B) was per system (in Tools>Options screen. Now this is possible on per controller basi

22.2 Num of poll command between 2 I/O commands

The polling process is consists of two types of requests: event request (command 81 & C1) and I/O status (command 0B). Using these fields the user can set the ratio. The setting define, per controller, how many p ing commands should be sent between each two I/O commands.

23. New action - start/stop recording video

Two new actions have been added in order to give to the user the possibility to start/stop recording video on a camera.

24. Update policy for this version

In this version (v3.00.0xx), the main GPP application requires a dongle with minimum version 2.04.0xx or higher.

In case there are no version details at all or if the version on the dongle is less than 2.04.0xx then GPP will give an error to the user and would close the application right afte

25. Night Shift for Flexible Shift in TA+ module

In the Daily Shift screen, a new "Total Flexible Shift" checkbox has been added, under the "Flexible Shift". When checked, the "Max Shift" field is displayed. This field Max Shift specifies the maximum working time the single shift. For example, if Max Shift is 4:00, Entry at 08: – 12: 00 and 13:00: - 14:00 (i.e. two or more shifts on the same day). This would be considered two separated shifts, first of 4h and second of 1 hour. Fo more details, see the doc. 10TE533.

26. Tool for automatically inserting Exception

New external utility allows to insert Exceptions in GPP, to comply with the law enforcement about the legal rest. Thus, if a cardholder leaves the company in the evening, his card can remain inactive for a certain period in order to respect the legal time of rest in some countries. Please contact us for more detail

27. Diagnostic screen - Download menu

In Diagnostic screen, the Download menu is disabled for users having this screen in read only, in their author zation leve

28. XML API – Schedule AG

2 new API have been added to add and delete Schedule AG.

29. LPR – New report

New custom report allows to search for unknown car license plates. Please contact us for more details.

30. Suprema Custom Format

In Reader screen, Finger_Print it is now possible to set the reader format to "Suprema Custom Format". This selection lets the user set freely the "total bits" and the "ID length bits". GPP then updates the Bio reader ac cordingly.

This option saves the need to use Suprema's app "BioStar" for these card format setting

31. Preventing GPP from sending the Bio reader card form:

In some cases users may need to set the card format of their Suprema Bio reader directly from Suprema's app "BioStar", and disable AM5 from modifying these definition:

this prevention is be achieved using the new INI option BioDisableReaderCon

Setting it to 1disables GPP from sending card format definition to bio reade

32. New DVR type: POLIXEL

A new DVR type, POLIXEL, was added to the standard Video module.

POLIXEL web site: www.polixel.in

33. New INI entries to control the main screen real-time log

Three new INI entries were added to control the main screen real-time log

upperLogGrantOnly

When set to 1, the upper log window will show only GRANT events.

Note: This entry is relevant when the INI entry 2Logs = 1, then the event log window is divided to two separate windows.

UpperLogFontSize

Control the font size of the upper log. The default size is 8.

LowerLogFontSize

Same for the lower log (the one that shows alarm messages only). The default size is 8.

34. Added feature to the Lift module

In addition to the existing Lift feature (=relay array per cardholder), it is now possible to add define up to 5 different lift programs to the same person, and define the times in which each of these program will be applied.

This way you can define, for example, that a cardholder is allowed on the lower floors always 24/7 but the upper floors are allowed only on normal working hours.

Note: This is supported from firmware version 10/05/2014 and later.