



Spa-Software Communication Protocol

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Issue 0.7
– 30. Januar 2018 –

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Printed in Germany

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1. Introduction

1.1. Telegram Composition

<Parameter name>: <Parameter value>; <next parameter>; ... <last parameter>; ASCII NULL

The first parameter is always the command!

1.2. Initialisation (CMD: 0)

Request from Leo to SW

Name	Value Range	Description	Server	Spa Software
CMD	0	Customer Identification	–	–

Example:

CMD: 0;

Reply from SW to Leo with full configuration information

Name	Value Range	Description	Server	Spa Software
CMD	0	Initialisation	–	–
SOLARIUMID	1		Fixed value	Fixed value
NAME	ASCII Characters	Name of the first product, will be shown on screen	Configurable	Interprets
MINTIME		Minimum product time in seconds	Configurable	Interprets
MAXTIME		Maximum product time in seconds	Configurable	Interprets
STEPTIME		Product time can be increased in steps of seconds	Configurable	Interprets
MINPRICE		Minimum product price in eurocents	Configurable	Interprets
STEPPRICE		Product price will be increased, eurocents	Configurable	Interprets
PRETIME		Wait time before the relay is ON (product time)	Configurable	Interprets
AFTERTIME		Occupied time after the product time.	Configurable	Interprets
SHOPPINGCART	0, 1	0 = customer's CREDIT must be sufficient 1 = customer can pay later, gets info screen	Configurable	Interprets
SOLARIUMID	2		Fixed value	Fixed value
NAME	ASCII Characters	Name of the second product, will be shown on screen "null" = no second product, not shown on screen	Configurable	Interprets
MINTIME		Minimum product time in seconds	Configurable	Interprets
MAXTIME		Maximum product time in seconds	Configurable	Interprets

STEPTIME		Product time can be increased in steps of seconds	Configurable	Interprets
MINPRICE		Minimum product price in eurocents	Configurable	Interprets
STEPPRICE		Product price will be increased, eurocents	Configurable	Interprets
PRETIME		Wait time before the relay is ON (product time)	Configurable	Interprets
AFTERTIME		Occupied time after the product time.	Configurable	Interprets
SHOPPINGCART	0, 1	0 = customer's CREDIT must be sufficient 1 = customer can pay later, gets info screen	Configurable	Interprets

All of these are repeated in case 2 solariums are controlled.

Example:

CMD:0; SOLARIUMID:1;NAME:Massage 2 G;MINTIME:900; MAXTIME:900; STEPTIME: 900; MINPRICE: 200;
 STEPPRICE: 0; PRETIME: 120; AFTER TIME: 120; SHOPPINGCART:0; SOLARIUMID:2; NAME:null;MINTIME:900;
 MAXTIME:900; STEPTIME: 900; MINPRICE: 200; STEPPRICE: 0; PRETIME: 120; AFTER TIME: 120;
 SHOPPINGCART:0;
 The NAME of the second product (SOLARIUMID:2) is "null", so this will not be shown on screen.

1.3. Customer Identification (CMD: 1)

From LEO to SW

Name	Value Range	Description	Server	Spa Software
CMD	1	Customer Identification	–	–
ID	8 hex ASCII chars	RFID Tag ID	–	–
SOLARIUMID	1	For future use	Fixed value	Ignored

Example:

CMD: 1; ID: 38B1AE80; SOLARIUMID: 1

Reply from SW to LEO

Name	Value Range	Description	Server	Spa Software
CMD	1	Customer Identification	–	–
STATUS	OK, ERROR	OK = Software shows NAME and CREDIT on the display and offers the customer to select ERROR = Leo shows an info screen to inform the customer to go to the help desk	–	–
NAME	ASCII Characters	Name of the customer, will be shown on screen	–	–
CREDIT		Remaining customer's credit	Yes	Display
SOLARIUMID	1	For future use	Fixed value	Ignored

SHOWPRICE	0, 1	0 = Customer has all-inclusive tariff, SHOPPINGCART is ignored. CREDIT is not checked against calculated price. 1 = SHOPPINGCART decides if customer needs enough CREDIT (SHOPPINGCART:0;) or can pay later (SHOPPINGCART:1;).		
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Example:

CMD: 1; STATUS: OK; NAME: Denis Baz; CREDIT: 4800; SOLARIUMID: 1; SHOWPRICE: 1;

The customer Denis Baz has a credit of 48.00 EUR.

The customer can select a product of more than 48.00 EUR.

1.4. Customer Confirmation (CMD: 2)

The customer needs to confirm his selection with his RFID card.

From LEO to SW

Name	Value Range	Description	Server	Spa Software
CMD	2	Customer Confirmation	–	–
ID	8 hex ASCII chars	RFID Tag ID	–	–
SOLARIUMID	1, 2	ID of the product the customer has selected	–	
TIME		The product time the customer has selected	–	
CREDIT		The price of this currently selected product in eurocents	–	

Example:

CMD: 2; ID: 38B1AE80; SOLARIUMID: 2; TIME: 300; CREDIT:200

Reply from SW to LEO

Name	Value Range	Description	Server	Spa Software
CMD	2	Customer Identification	–	–
STATUS	OK, ERROR	OK = Continue checkout ERROR = Stop immediately and show info	–	–

Example:

CMD: 2; STATUS: OK