



Operation Manual

Configuring Signal Parameters

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The document is intended for Way4 system administrators.

The following notation can be used in the document:

- Field labels in screen forms are shown in *italics*.
- Key combinations are shown in angular brackets, for example, <Ctrl>+<F3>.
- Names of screen form buttons and tabs are shown in square brackets, for example, [Approve].
- Sequences for selecting user menu items or context menu items are shown using arrows as follows: "Issuing → Contracts Input & Update".
- Sequences for selecting system menu items are shown using arrows as follows: Database => Change password.
- Variables that differ for each local instance, such as directory and file names, as well as file paths are shown in angular brackets, as in <OWS_HOME>.

Warnings and information are marked as follows:



Warnings about potentially hazardous situations or actions.



Messages with information about important features, additional options, or the best use of certain system functions.

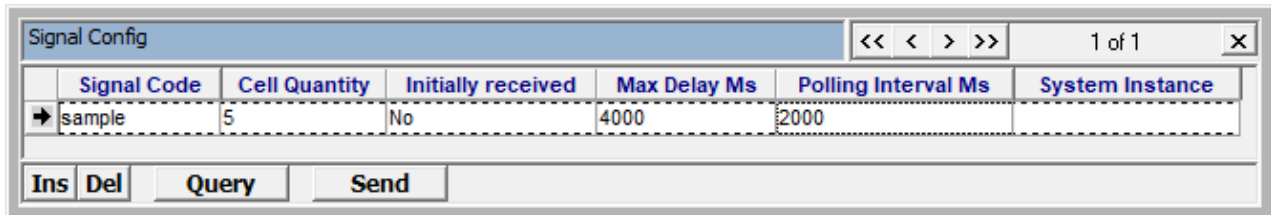
1 Overview

In high load systems, frequent reading of mutable data may lead to Cache Buffer Chain contention. To minimize contention, a signaling mechanism is used in which the required data is re-read only after a signal that it has changed.

The signal data structure is optimized for sending signals infrequently, but very frequent checking for signal receiving. Each session polls signals from a cell with a certain number. When a signal is sent, it is written to all cells.

2 Signal parameters

Signal parameters are set in the "Signal Config" form (menu item "OpenWay → Full → DB Administrator Utilities → System Utilities → Signalling → Signal Config").



Signal Code	Cell Quantity	Initially received	Max Delay Ms	Polling Interval Ms	System Instance
sample	5	No	4000	2000	

Buttons: Ins, Del, Query, Send

Configuring signal parameters

The form's fields:

- *Signal Code* – signal code.
- *CellQuantity* – cell quantity.
- *Initiallyreceived* – consider the signal received during the first check (even if it was not sent):
 - "Yes"
 - "No"
- *MaxDelayMs* – maximum delay for receiving a signal after sending and first reading it, in milliseconds (random value from 0 to *MaxDelayMs*). That is, if a signal is sent that will be simultaneously actively checked by multiple sessions, it will be received by each session at a different time.
- *PollingIntervalMs* – minimum actual interval in milliseconds, after which a signal is read.
- *SystemInstance* – name of the node for which signal parameters are set. If no value is specified, signal parameters are effective for all nodes.

The [Send] button is used for sending a signal.

Signals can be viewed in the "Signal Payload" form (menu item "OpenWay → Full → DB Administrator Utilities → System Utilities → Signalling → Signal Payload").

Signal Payload				<< < > >>	1 of 17	X
	Signal Code	Cell Number	Payload Timestamp	Sending Instance		
➔	sy_conf_expire	0	23/12/19 17:32:44.584	cs_191221023220@db		
	sy_conf_expire	1	23/12/19 17:32:44.584	cs_191221023220@db		
	sy_conf_expire	2	23/12/19 17:32:44.584	cs_191221023220@db		
	sy_conf_expire	3	23/12/19 17:32:44.584	cs_191221023220@db		
	sy_conf_expire	4	23/12/19 17:32:44.584	cs_191221023220@db		
	sy_conf_expire	5	23/12/19 17:32:44.584	cs_191221023220@db		
	sy_conf_expire	6	23/12/19 17:32:44.584	cs_191221023220@db		
	sy_conf_expire	7	23/12/19 17:32:44.584	cs_191221023220@db		
	sy_conf_expire	8	23/12/19 17:32:44.584	cs_191221023220@db		
	sy_conf_expire	9	23/12/19 17:32:44.584	cs_191221023220@db		
	sy_conf_expire	10	23/12/19 17:32:44.584	cs_191221023220@db		
	sy_conf_expire	11	23/12/19 17:32:44.584	cs_191221023220@db		
	sy_conf_expire	12	23/12/19 17:32:44.584	cs_191221023220@db		
	sy_conf_expire	13	23/12/19 17:32:44.584	cs_191221023220@db		
	sy_conf_expire	14	23/12/19 17:32:44.584	cs_191221023220@db		
	sy_conf_expire	15	23/12/19 17:32:44.584	cs_191221023220@db		
	sy_conf_expire	16	23/12/19 17:32:44.584	cs_191221023220@db		

Ins Del
 Query
 Send

Viewing a signal

The [Send] button is used for sending a signal.

The following signal codes are supported:

- clear the configuration data cache – "sy_conf_expire".
- change service activity– "sw_api.route_changed".
- change the bank date. If the value of the global parameter USE_TIME_ZONE is "N", the signal code "all_f_i_changed" is used, otherwise – "f_i_changed_N", where N is the identifier of the financial institution.