

DDE synchronization of Clarity CDS with other programs

DDE (Dynamic Data Exchange) is a technique the Windows system uses for transferring data between individual applications running under Windows. By means of DDE, another application may follow the status of the Clarity station and control a cooperating device accordingly. The Clarity station behaves like a *DDE Server*. Other programs can be connected to the Clarity station through the following variables:

Service Name: "Clarity"

Topic Name: "Status"

Item Names: "Channels", "Channel1" through "Channel4".

The item "Channels" assumes values from 0 to 4 depending on the number of open Instruments.

The items "ChannelX" (with X = 1 – 4) indicate the status of individual instruments as follows:

Value	Instrument status	Detailed status
-2	Instrument is not installed	Instrument is not installed
-1	Instrument is closed	Instrument is closed
0	Disabled	No configured detector
	Offline	Offline instrument
	Error	Error in communication with hardware
1	Waiting (Idle)	Waiting remaining idle time
	Sending Method	Sending method to hardware (for Active sequence and Single Analysis)
	Running (Stopping)	Acquisition running (stop sequence after current acquisition)
	Waiting	Waiting for hardware to be ready to receive method
	Waiting	Waiting for hardware to be ready to run
	Waiting	Hardware not ready to receive method
	Waiting	Hardware not ready to run
2	Waiting	Waiting for injection
	Waiting	Waiting for external start
	Ready	Ready to start run
	Ready	Ready for injection
	Sending Method	Sending method to hardware (for Passive sequence)
3	Running	Acquisition running
	Running (Stopping)	Acquisition running (stop sequence after current acquisition)
	Running (Pausing)	Acquisition running (pause sequence after current acquisition)
	Running (Finishing)	Waiting for remaining data from hardware

4	No method sent	Ready to send method or start sequence
5	Paused	Sequence paused
6	Control	Performing remaining time program (Acquisition finished)