**On-the-fly download of model parameters: expected behaviour**

Reception of **ACK\_PACKET**

Host awaiting ACK\_PACKET

Acknowledgement of **parameter set** packet

**ACK\_PACKET**

Reception of **parameter set** packet

**0x18 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3E 0x19 0x99 0x9A**

*ExtSetTargetPkt* sends actual **parameter set** packet

**EXT\_SETPARAM**

**ACK\_PACKET**

Host awaiting ACK\_PACKET

Reception of **ACK\_PACKET**

Acknowledgement of **EXT\_SETPARAM** packet

Reception of **EXT\_SETPARAM** packet

*ExtSetTargetPkt* sends   
**EXT\_SETPARAM (4)** packet, announcing the download of a parameter set of **0x18** bytes

User changes model parameter

**Target sends \_TERMINATE\_LOG\_EVENT packet: expected behaviour**

Scope trace at trigger point

**On-the-fly download of model parameters while target in the process of reacting to an event: expected behaviour**

**ACK\_PACKET**

**ACK\_PACKET**

Acknowledgement of **event data**

*Host receives* actual **event data**

Reception of **ACK\_PACKET**

Target awaiting ACK\_PACKET

**Event data** (**0x0 0x0 0x0 0x0**)

*ExtSetTargetPkt* sends actual **event data** packet (4 bytes)

Reception of **ACK\_PACKET**

Acknowledgement of **EXT\_TERMINATE\_LOG\_EVENT** packet

Target awaiting ACK\_PACKET

Host receives **EXT\_TERMINATE\_LOG\_EVENT** packet

**EXT\_TERMINATE\_LOG\_EVENT** (31 = **0x1F**, event data size **4**)

*ExtSetTargetPkt* sends   
**EXT\_TERMINATE\_LOG\_EVENT** packet, event data size **4** bytes

**EXT\_SETPARAM**

*ExtSetTargetPkt* sends   
**EXT\_SETPARAM (4)** packet, announcing the download of a parameter set of **0x18** bytes

User changes model parameter

Scope trace at trigger point

**0x18 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3E 0x19 0x99 0x9A**

**ACK\_PACKET**

Acknowledgement of **event data**

*Host receives* actual **event data**

Reception of **ACK\_PACKET**

Reception of **ACK\_PACKET**

**Event data** (**0x0 0x0 0x0 0x0**)

Host clear to send

Target clear to send

*ExtSetTargetPkt* sends actual **event data** packet (4 bytes)

Target awaiting ACK\_PACKET

Host awaiting ACK\_PACKET

Reception of **ACK\_PACKET**

**ACK\_PACKET**

**ACK\_PACKET**

Acknowledgement of intercepted **EXT\_TERMINATE\_LOG\_EVEN**

Target awaiting ACK\_PACKET

Acknowledgement of intercepted **parameter set** packet

Host awaiting ACK\_PACKET

Host awaiting ACK\_PACKET

Host clear to send

**EXT\_TERMINATE\_LOG\_EVENT** (31 = **0x1F**, event data size **4**)

Interception and storage of **EXT\_TERMINATE\_LOG\_EVEN**

Interception and storage of **parameter set** packet

*ExtSetTargetPkt* sends actual **parameter set** packet

*ExtSetTargetPkt* sends   
**EXT\_TERMINATE\_LOG\_EVENT** packet, event data size **4** bytes

Reception of **ACK\_PACKET**

Acknowledgement of intercepted **EXT\_SETPARAM** packet

Interception and storage of **EXT\_SETPARAM** packet

**ACK\_PACKET**

**On-the-fly download of model parameters while target in the process of reacting to an event: actual behaviour**

**EXT\_SETPARAM**

*ExtSetTargetPkt* sends   
**EXT\_SETPARAM (4)** packet, announcing the download of a parameter set of **0x18** bytes

User changes model parameter

Scope trace at trigger point

**0x18 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x1 0x0 0x0 0x0 0x0 0x3E 0x19 0x99 0x9A**

**ACK\_PACKET**

Acknowledgement of **event data**

*Host receives* actual **event data**

Reception of **ACK\_PACKET**

Reception of **ACK\_PACKET**

**Event data** (**0x0 0x0 0x0 0x0**)

Host clear to send

Target clear to send

*ExtSetTargetPkt* sends actual **event data** packet (4 bytes)

Target awaiting ACK\_PACKET

Host awaiting ACK\_PACKET

Reception of **ACK\_PACKET**

**ACK\_PACKET**

**ACK\_PACKET**

Acknowledgement of intercepted **EXT\_TERMINATE\_LOG\_EVEN**

Target awaiting ACK\_PACKET

Acknowledgement of intercepted **parameter set** packet

Host awaiting ACK\_PACKET

Host awaiting ACK\_PACKET

**EXT\_TERMINATE\_LOG\_EVENT** (31 = **0x1F**, event data size **4**)

Interception and storage of **EXT\_TERMINATE\_LOG\_EVEN**

Interception and storage of **parameter set** packet

*ExtSetTargetPkt* sends actual **parameter set** packet

*ExtSetTargetPkt* sends   
**EXT\_TERMINATE\_LOG\_EVENT** packet, event data size **4** bytes

Reception of **ACK\_PACKET**

Acknowledgement of intercepted **EXT\_SETPARAM** packet

Interception and storage of **EXT\_SETPARAM** packet

**ACK\_PACKET**