

Requirements for VEN Responses to DR Signals (EiEvent)

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Below are some high level requirements for the response that a VEN can give to a VTN on receipt of a DR signal. Within the context of this document a DR signal is assumed to be an interaction between a VTN and a VEN in which an EiEvent object is exchanged i.e. sent from the VTN to the VEN.

Below are requirements only and do not address the mechanisms the various responses may be achieved. It may be that some of the responses may be satisfied by reliable transport level mechanisms while others may require a higher level application level mechanism.

No Response

It may be that no response is required from the VEN. A concrete use case that illustrates this is when a common price is broadcast out to all VEN's.

Confirmation of Receipt of DR Signal by VEN

It may be required that the VTN receive acknowledgement from the VEN that it has received the DR signal. This acknowledgement may also include requirements for non-repudiation in order to satisfy contractual agreements.

Opt In/Out Confirmation by VEN

It may be required that the VEN not only confirm that it has received the DR signal, but also indicate whether the VEN will process and react to the DR signal. This is an indication of the so called opt in or opt out state of the VEN.

Confirmation of VEN Behavior

It may be required that the VEN not only indicate whether it has opted in to the DR event, but also send some indication of how it will respond. Examples might include some indication of how the load profile of the VEN may be modified as a result of receiving the DR signal.