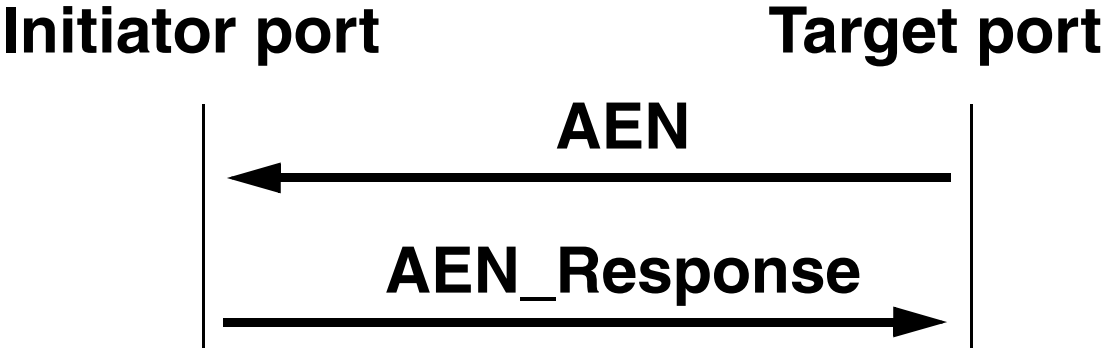


SAS Asynchronous Event Reporting

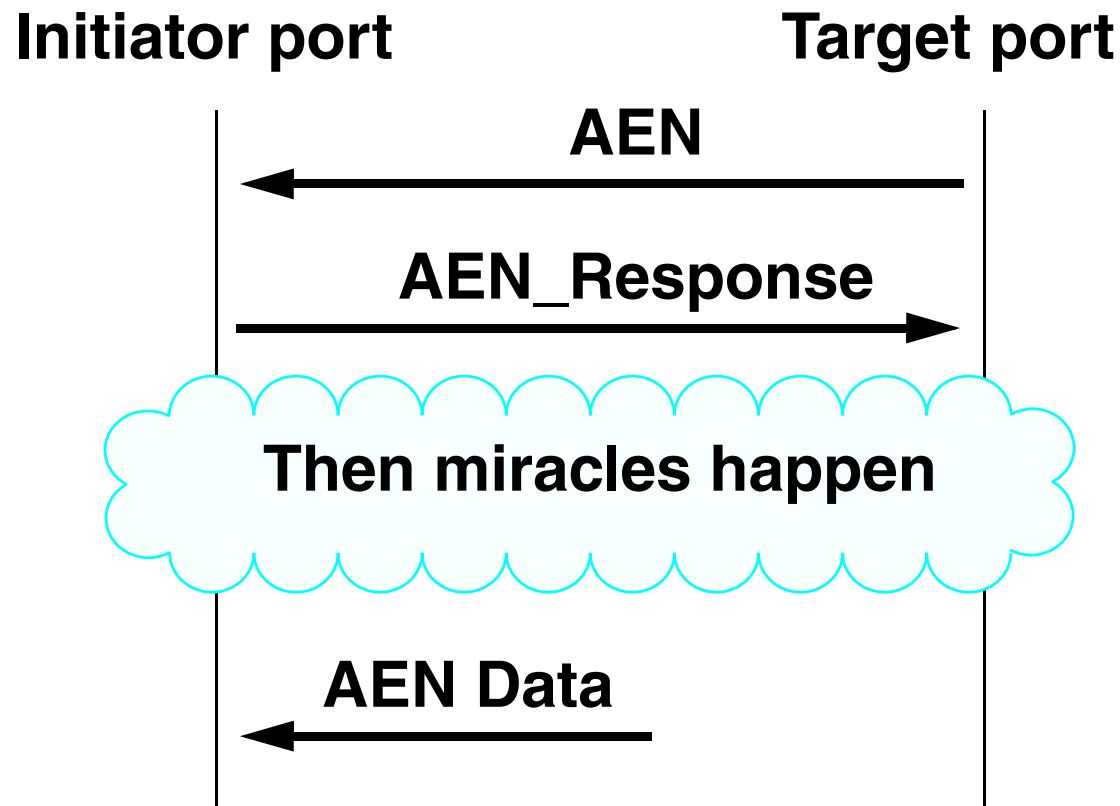
**02-175r0
Ralph O. Weber**

SAS AEN Picture from 02-158r0



SAS AEN Picture

the way it sounded to me



Miracle 1

- **The SAS protocol engine sends REPORT LUNS and REQUEST SENSE commands to obtain the AER sense data**

~~Miracle~~ Abomination 1

- The SAS protocol engine sends REPORT LUNS and REQUEST SENSE commands to obtain the AER sense data
- There is history for this ...
very very bad history
- This absolutely breaks the layering between protocols and application clients

Miracle 1 — Option A

- **If the desire is to transfer the AER data completely within the SAS protocol...**
- **Then, define SAS protocol commands to do the job**

Miracle 1 — Option B

- **If the desire is to transfer the AER data using SCSI commands...**
- **Then, define a Transport Attention that notifies the application client that AER data is available**

Miracle 2

- **REPORT LUNS and REQUEST SENSE stay in synchronization regarding which logical units have AER data to be retrieved**
- **This is a very big assumption**
- **It is far better to have only one command that both**
 - **Decides if AER data is there, &**
 - **Retrieves the AER data**

Miracle 2 — Proposed Solution

- **Add a descriptor format sense data descriptor to contain the LUN to which the sense data applies**
- **Add a well known LUN to which AER retrieval REQUEST SENSE commands are sent**
- **Only REQUEST SENSE needed to retrieve AER data**