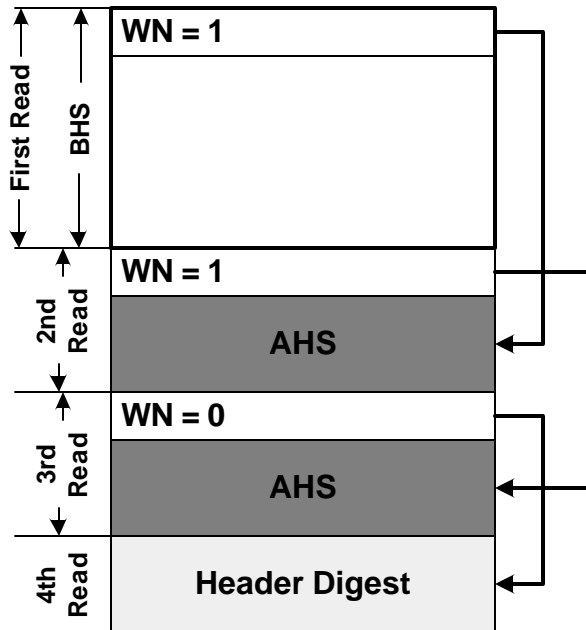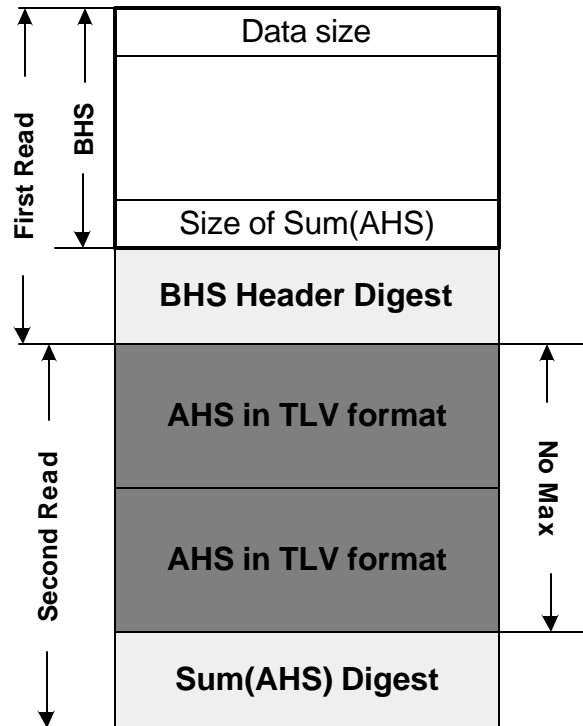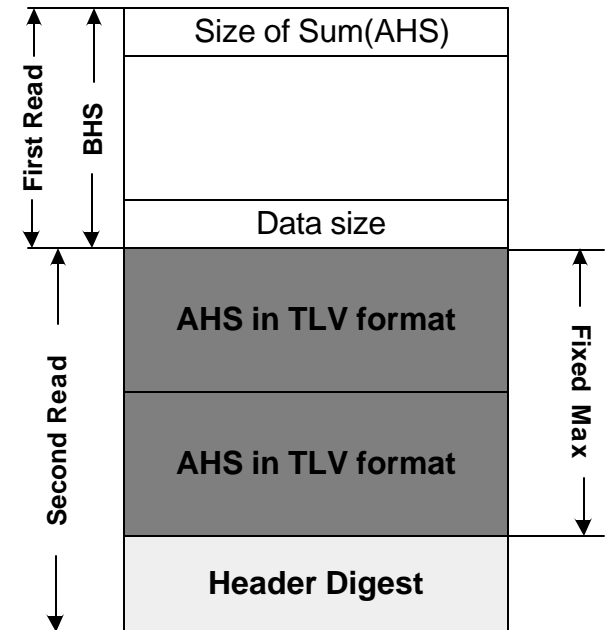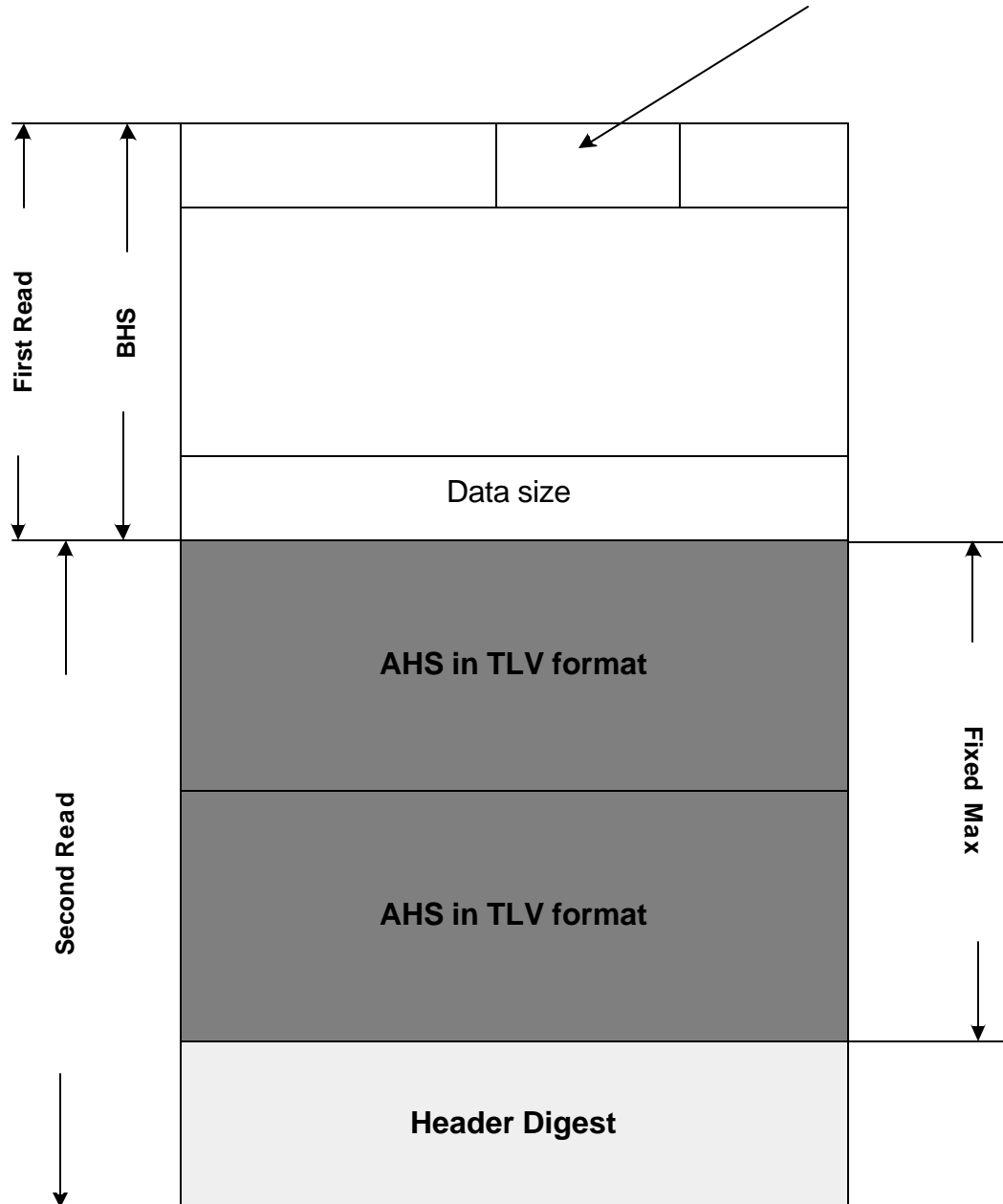| Current (0.5) | Reinhold | Russell |

Major advantages over current draft:

1. Entire length of all AHS and Digests known after 1st read.

2. AHS use TLV format which allows the length of AHS segment to be determined without understanding TYPE field. Allows for future AHS to be addeded without impacting legacy devices. Also allows vendor/organizational unique AHS to be added

3. Simpler conceptual mode.

4. Reinhold model provides a digest in a known place - avoids possible block on TCP read from a bad length field

5. Russell model limits total size of AHS to 1020 bytes - pre allocated buffer can be used.

Russell

Use byte 2 for Size of Sum(AHS)
- units of 4 bytes (max of 1020 bytes possible) in AHS
- keeps BHS at 48 bytes

First Read

BHS

Data size

AHS in TLV format

AHS in TLV format

Second Read

Fixed Max

Header Digest

Reinhold

First Read → **BHS**	Size of Sum(AHS)
	Data size
	BHS Header Digest
Second Read	**AHS in TLV format**
	AHS in TLV format
	Sum(AHS) Digest

No Max