

## IBSA::ReadStatValidation

When an acquisition has ended, calling this method will return the data validation rate for each group during the measurement.

```
[C++,IDL]
HRESULT ReadStatValidation(
    /*[in]*/ int Group,
    /*[out, retval]*/ float* pVal);

[Visual Basic 6]
Function ReadStatValidation(
    Group As Long
) As Single
```

### Parameters

*Group*

[in] Specifies the group.

*pVal*

[out, retval] A pointer to a float that contains the validation rate in percent for the group.

### Remarks

The validation rate describes how many bursts that are validated during a measurement. It is calculated as a statistical average over the full measurement period. If the validation fluctuates, or changes from the beginning to the end of the measurement, this will affect the validation rate. E.g. a validation rate of 10 % means, that 90 % of the burst signals received is invalidated and therefore discarded from the data.

The reason for a low validation rate can be many. To get the highest possible validation rate it is often necessary to optimize the BSA Processor settings to the nature of the incoming signal. Here the System Monitor is a valuable tool for observing the signals and see how the settings affect the validation.

## IBSA::ReadStatSphericalValidation

When an acquisition has ended, calling this method will return the spherical validation rate for the PDA measurement. This is only available if the processor is set to run a PDA measurement, and will fail when called after a LDA measurement.

```
[C++,IDL]
HRESULT ReadStatSphericalValidation(
    /*[out, retval]*/ float* pVal);

[Visual Basic 6]
Function ReadStatSphericalValidation(
) As Single
```

### Parameters

*pVal*

[out, retval] A pointer to a float that contains the spherical validation rate in percent for the PDA measurement.

### Remarks

The spherical validation rate describes how many particles that are validated during a PDA measurement. It is calculated as a statistical average over the full measurement period. If the validation fluctuates, or changes from the beginning to the end of the measurement, this will affect the spherical validation rate. E.g. a spherical validation rate of 10 % means, that 90 % of the particle signals received is invalidated and therefore discarded from the diameter data.

The spherical validation is dependent on a correct alignment of the PDA transmitter and receiver optics. During the alignment process the Phase plot available in BSA Flow Software can be used.

The **SetOpticsValidationBand** method can be used to adjust the validation band in the BSA Processor.