

0x00000000	Good	The operation completed successfully
0x40000000	Uncertain	The operation completed however its outputs may not be usable
0x80000000	Bad	The operation failed
0x80010000	BadUnexpectedError	An unexpected error occurred
0x80020000	BadInternalError	An internal error occurred as a result of a programming or configuration error
0x80030000	BadOutOfMemory	Not enough memory to complete the operation
0x80040000	BadResourceUnavailable	An operating system resource is not available
0x80050000	BadCommunicationError	A low level communication error occurred
0x80060000	BadEncodingError	Encoding halted because of invalid data in the objects being serialized
0x80070000	BadDecodingError	Decoding halted because of invalid data in the stream
0x80080000	BadEncodingLimitsExceeded	The message encoding/decoding limits imposed by the stack have been exceeded
0x80B80000	BadRequestTooLarge	The request message size exceeds limits set by the server
0x80B90000	BadResponseTooLarge	The response message size exceeds limits set by the client
0x80090000	BadUnknownResponse	An unrecognized response was received from the server
0x800A0000	BadTimeout	The operation timed out
0x800B0000	BadServiceUnsupported	The server does not support the requested service
0x800C0000	BadShutdown	The operation was cancelled because the application is shutting down
0x800D0000	BadServerNotConnected	The operation could not complete because the client is not connected to the server
0x800E0000	BadServerHalted	The server has stopped and cannot process any requests
0x800F0000	BadNothingToDo	There was nothing to do because the client passed a list of operations with no elements
0x80100000	BadTooManyOperations	The request could not be processed because it specified too many operations
0x80DB0000	BadTooManyMonitoredItems	The request could not be processed because there are too many monitored items in the subscription
0x80110000	BadDataTypeIdUnknown	The extension object cannot be (de)serialized because the data type id is not recognized
0x80120000	BadCertificateInvalid	The certificate provided as a parameter is not valid
0x80130000	BadSecurityChecksFailed	An error occurred verifying security
0x80140000	BadCertificateTimeInvalid	The Certificate has expired or is not yet valid
0x80150000	BadCertificateIssuerTimeInvalid	An Issuer Certificate has expired or is not yet valid
0x80160000	BadCertificateHostNameInvalid	The HostName used to connect to a Server does not match a HostName in the Certificate
0x80170000	BadCertificateUriInvalid	The URI specified in the ApplicationDescription does not match the URI in the Certificate
0x80180000	BadCertificateUseNotAllowed	The Certificate may not be used for the requested operation
0x80190000	BadCertificateIssuerUseNotAllowed	The Issuer Certificate may not be used for the requested operation

0x801A0000	BadCertificateUntrusted	The Certificate is not trusted
0x801B0000	BadCertificateRevocationUnknown	It was not possible to determine if the Certificate has been revoked
0x801C0000	BadCertificateIssuerRevocationUnknown	It was not possible to determine if the Issuer Certificate has been revoked
0x801D0000	BadCertificateRevoked	The certificate has been revoked
0x801E0000	BadCertificateIssuerRevoked	The issuer certificate has been revoked
0x810D0000	BadCertificateChainIncomplete	The certificate chain is incomplete
0x801F0000	BadUserAccessDenied	User does not have permission to perform the requested operation
0x80200000	BadIdentityTokenInvalid	The user identity token is not valid
0x80210000	BadIdentityTokenRejected	The user identity token is valid but the server has rejected it
0x80220000	BadSecureChannelIdInvalid	The specified secure channel is no longer valid
0x80230000	BadInvalidTimestamp	The timestamp is outside the range allowed by the server
0x80240000	BadNonceInvalid	The nonce does appear to be not a random value or it is not the correct length
0x80250000	BadSessionIdInvalid	The session id is not valid
0x80260000	BadSessionClosed	The session was closed by the client
0x80270000	BadSessionNotActivated	The session cannot be used because ActivateSession has not been called
0x80280000	BadSubscriptionIdInvalid	The subscription id is not valid
0x802A0000	BadRequestHeaderInvalid	The header for the request is missing or invalid
0x802B0000	BadTimestampsToReturnInvalid	The timestamps to return parameter is invalid
0x802C0000	BadRequestCancelledByClient	The request was cancelled by the client
0x80E50000	BadTooManyArguments	Too many arguments were provided
0x002D0000	GoodSubscriptionTransferred	The subscription was transferred to another session
0x002E0000	GoodCompletesAsynchronously	The processing will complete asynchronously
0x002F0000	GoodOverload	Sampling has slowed down due to resource limitations
0x00300000	GoodClamped	The value written was accepted but was clamped
0x80310000	BadNoCommunication	Communication with the data source is defined, but not established, and there is no last known value available
0x80320000	BadWaitingForInitialData	Waiting for the server to obtain values from the underlying data source
0x80330000	BadNodeIdInvalid	The syntax of the node id is not valid
0x80340000	BadNodeIdUnknown	The node id refers to a node that does not exist in the server address space
0x80350000	BadAttributeIdInvalid	The attribute is not supported for the specified Node
0x80360000	BadIndexRangeInvalid	The syntax of the index range parameter is invalid
0x80370000	BadIndexRangeNoData	No data exists within the range of indexes specified
0x80380000	BadDataEncodingInvalid	The data encoding is invalid
0x80390000	BadDataEncodingUnsupported	The server does not support the requested data encoding for the node
0x803A0000	BadNotReadable	The access level does not allow reading or subscribing to the Node

0x803B0000	BadNotWritable	The access level does not allow writing to the Node
0x803C0000	BadOutOfRange	The value was out of range
0x803D0000	BadNotSupported	The requested operation is not supported
0x803E0000	BadNotFound	A requested item was not found or a search operation ended without success
0x803F0000	BadObjectDeleted	The object cannot be used because it has been deleted
0x80400000	BadNotImplemented	Requested operation is not implemented
0x80410000	BadMonitoringModelInvalid	The monitoring mode is invalid
0x80420000	BadMonitoredItemIdInvalid	The monitoring item id does not refer to a valid monitored item
0x80430000	BadMonitoredItemFilterInvalid	The monitored item filter parameter is not valid
0x80440000	BadMonitoredItemFilterUnsupported	The server does not support the requested monitored item filter
0x80450000	BadFilterNotAllowed	A monitoring filter cannot be used in combination with the attribute specified
0x80460000	BadStructureMissing	A mandatory structured parameter was missing or null
0x80470000	BadEventFilterInvalid	The event filter is not valid
0x80480000	BadContentFilterInvalid	The content filter is not valid
0x80C10000	BadFilterOperatorInvalid	An unrecognized operator was provided in a filter
0x80C20000	BadFilterOperatorUnsupported	A valid operator was provided, but the server does not provide support for this filter operator
0x80C30000	BadFilterOperandCountMismatch	The number of operands provided for the filter operator was less than expected for the operand provided
0x80490000	BadFilterOperandInvalid	The operand used in a content filter is not valid
0x80C40000	BadFilterElementInvalid	The referenced element is not a valid element in the content filter
0x80C50000	BadFilterLiteralInvalid	The referenced literal is not a valid value
0x804A0000	BadContinuationPointInvalid	The continuation point provided is no longer valid
0x804B0000	BadNoContinuationPoints	The operation could not be processed because all continuation points have been allocated
0x804C0000	BadReferenceTypeIdInvalid	The operation could not be processed because all continuation points have been allocated
0x804D0000	BadBrowseDirectionInvalid	The browse direction is not valid
0x804E0000	BadNodeNotInView	The node is not part of the view
0x804F0000	BadServerUriInvalid	The ServerUri is not a valid URI
0x80500000	BadServerNameMissing	No ServerName was specified
0x80510000	BadDiscoveryUrlMissing	No DiscoveryUrl was specified
0x80520000	BadSemaphoreFileMissing	The semaphore file specified by the client is not valid
0x80530000	BadRequestTypeInvalid	The security token request type is not valid
0x80540000	BadSecurityModeRejected	The security mode does not meet the requirements set by the Server
0x80550000	BadSecurityPolicyRejected	The security policy does not meet the requirements set by the Server
0x80560000	BadTooManySessions	The server has reached its maximum number of sessions
0x80570000	BadUserSignatureInvalid	The user token signature is missing or invalid

0x80580000	BadApplicationSignatureInvalid	The signature generated with the client certificate is missing or invalid
0x80590000	BadNoValidCertificates	The client did not provide at least one software certificate that is valid and meets the profile requirements for the server
0x80C60000	BadIdentityChangeNotSupported	The Server does not support changing the user identity assigned to the session
0x805A0000	BadRequestCancelledByRequest	The request was cancelled by the client with the Cancel service
0x805B0000	BadParentNodeIdInvalid	The parent node id does not refer to a valid node
0x805C0000	BadReferenceNotAllowed	The reference could not be created because it violates constraints imposed by the data model
0x805D0000	BadNodeIdRejected	The requested node id was reject because it was either invalid or server does not allow node ids to be specified by the client
0x805E0000	BadNodeIdExists	The requested node id is already used by another node
0x805F0000	BadNodeClassInvalid	The node class is not valid
0x80600000	BadBrowseNameInvalid	The browse name is invalid
0x80610000	BadBrowseNameDuplicated	The browse name is not unique among nodes that share the same relationship with the parent
0x80620000	BadNodeAttributesInvalid	The node attributes are not valid for the node class
0x80630000	BadTypeDefinitionInvalid	The type definition node id does not reference an appropriate type node
0x80640000	BadSourceNodeIdInvalid	The source node id does not reference a valid node
0x80650000	BadTargetNodeIdInvalid	The target node id does not reference a valid node
0x80660000	BadDuplicateReferenceNotAllowed	The reference type between the nodes is already defined
0x80670000	BadInvalidSelfReference	The server does not allow this type of self reference on this node
0x80680000	BadReferenceLocalOnly	The reference type is not valid for a reference to a remote server
0x80690000	BadNoDeleteRights	The server will not allow the node to be deleted
0x40BC0000	UncertainReferenceNotDeleted	The server was not able to delete all target references
0x806A0000	BadServerIndexInvalid	The server index is not valid
0x806B0000	BadViewIdUnknown	The view id does not refer to a valid view node
0x80C90000	BadViewTimestampInvalid	The view timestamp is not available or not supported
0x80CA0000	BadViewParameterMismatch	The view parameters are not consistent with each other
0x80CB0000	BadViewVersionInvalid	The view version is not available or not supported
0x40C00000	UncertainNotAllNodesAvailable	The list of references may not be complete because the underlying system is not available
0x00BA0000	GoodResultsMayBeIncomplete	The server should have followed a reference to a node in a remote server but did not. The result set may be incomplete
0x80C80000	BadNotTypeDefinition	The provided Nodeid was not a type definition nodeid
0x406C0000	UncertainReferenceOutOfServer	One of the references to follow in the relative path references to a node in the address space in another server

0x806D0000	BadTooManyMatches	The requested operation has too many matches to return
0x806E0000	BadQueryTooComplex	The requested operation requires too many resources in the server
0x806F0000	BadNoMatch	The requested operation has no match to return
0x80700000	BadMaxAgeInvalid	The max age parameter is invalid
0x80E60000	BadSecurityModelInsufficient	The operation is not permitted over the current secure channel
0x80710000	BadHistoryOperationInvalid	The history details parameter is not valid
0x80720000	BadHistoryOperationUnsupported	The server does not support the requested operation
0x80BD0000	BadInvalidTimestampArgument	The defined timestamp to return was invalid
0x80730000	BadWriteNotSupported	The server not does support writing the combination of value, status and timestamps provided
0x80740000	BadTypeMismatch	The value supplied for the attribute is not of the same type as the attribute's value
0x80750000	BadMethodInvalid	The method id does not refer to a method for the specified object
0x80760000	BadArgumentsMissing	The client did not specify all of the input arguments for the method
0x80770000	BadTooManySubscriptions	The server has reached its maximum number of subscriptions
0x80780000	BadTooManyPublishRequests	The server has reached the maximum number of queued publish requests
0x80790000	BadNoSubscription	There is no subscription available for this session
0x807A0000	BadSequenceNumberUnknown	The sequence number is unknown to the server
0x807B0000	BadMessageNotAvailable	The requested notification message is no longer available
0x807C0000	BadInsufficientClientProfile	The Client of the current Session does not support one or more Profiles that are necessary for the Subscription
0x80BF0000	BadStateNotActive	The sub-state machine is not currently active
0x807D0000	BadTcpServerTooBusy	The server cannot process the request because it is too busy
0x807E0000	BadTcpMessageTypeInvalid	The type of the message specified in the header invalid
0x807F0000	BadTcpSecureChannelUnknown	The SecureChannelId and/or TokenId are not currently in use
0x80800000	BadTcpMessageTooLarge	The size of the message specified in the header is too large
0x80810000	BadTcpNotEnoughResources	There are not enough resources to process the request
0x80820000	BadTcpInternalError	An internal error occurred
0x80830000	BadTcpEndpointUrlInvalid	The Server does not recognize the QueryString specified
0x80840000	BadRequestInterrupted	The request could not be sent because of a network interruption
0x80850000	BadRequestTimeout	Timeout occurred while processing the request
0x80860000	BadSecureChannelClosed	The secure channel has been closed
0x80870000	BadSecureChannelTokenUnknown	The token has expired or is not recognized
0x80880000	BadSequenceNumberInvalid	The sequence number is not valid
0x80BE0000	BadProtocolVersionUnsupported	The applications do not have compatible protocol versions

0x80890000	BadConfigurationError	There is a problem with the configuration that affects the usefulness of the value
0x808A0000	BadNotConnected	The variable should receive its value from another variable, but has never been configured to do so
0x808B0000	BadDeviceFailure	There has been a failure in the device/data source that generates the value that has affected the value
0x808C0000	BadSensorFailure	There has been a failure in the sensor from which the value is derived by the device/data source
0x808D0000	BadOutOfService	The source of the data is not operational
0x808E0000	BadDeadbandFilterInvalid	The deadband filter is not valid
0x408F0000	UncertainNoCommunicationLastUsableValue	Communication to the data source has failed. The variable value is the last value that had a good quality
0x40900000	UncertainLastUsableValue	Whatever was updating this value has stopped doing so
0x40910000	UncertainSubstituteValue	The value is an operational value that was manually overwritten
0x40920000	UncertainInitialValue	The value is an initial value for a variable that normally receives its value from another variable
0x40930000	UncertainSensorNotAccurate	The value is at one of the sensor limits
0x40940000	UncertainEngineeringUnitsExceeded	The value is outside of the range of values defined for this parameter
0x40950000	UncertainSubNormal	The value is derived from multiple sources and has less than the required number of Good sources
0x00960000	GoodLocalOverride	The value has been overridden
0x80970000	BadRefreshInProgress	This Condition refresh failed, a Condition refresh operation is already in progress
0x80980000	BadConditionAlreadyDisabled	This condition has already been disabled
0x80CC0000	BadConditionAlreadyEnabled	This condition has already been enabled
0x80990000	BadConditionDisabled	Property not available, this condition is disabled
0x809A0000	BadEventIdUnknown	The specified event id is not recognized
0x80BB0000	BadEventNotAcknowledgeable	The event cannot be acknowledged
0x80CD0000	BadDialogNotActive	The dialog condition is not active
0x80CE0000	BadDialogResponseInvalid	The response is not valid for the dialog
0x80CF0000	BadConditionBranchAlreadyAked	The condition branch has already been acknowledged
0x80D00000	BadConditionBranchAlreadyConfirmed	The condition branch has already been confirmed
0x80D10000	BadConditionAlreadyShelved	The condition has already been shelved
0x80D20000	BadConditionNotShelved	The condition is not currently shelved
0x80D30000	BadShelvingTimeOutOfRange	The shelving time not within an acceptable range
0x809B0000	BadNoData	No data exists for the requested time range or event filter
0x80D70000	BadBoundNotFound	No data found to provide upper or lower bound value
0x80D80000	BadBoundNotSupported	The server cannot retrieve a bound for the variable
0x809D0000	BadDataLost	Data is missing due to collection started/stopped/lost
0x809E0000	BadDataUnavailable	Expected data is unavailable for the requested time range due to an un-mounted volume, an off-line archive or tape, or similar reason for temporary unavailability
0x809F0000	BadEntryExists	The data or event was not successfully inserted because a matching entry exists

0x80A00000	BadNoEntryExists	The data or event was not successfully updated because no matching entry exists
0x80A10000	BadTimestampNotSupported	The client requested history using a timestamp format the server does not support (i.e requested ServerTimestamp when server only supports SourceTimestamp).'),
0x00A20000	GoodEntryInserted	The data or event was successfully inserted into the historical database
0x00A30000	GoodEntryReplaced	The data or event field was successfully replaced in the historical database
0x40A40000	UncertainDataSubNormal	The value is derived from multiple values and has less than the required number of Good values
0x00A50000	GoodNoData	No data exists for the requested time range or event filter
0x00A60000	GoodMoreData	The data or event field was successfully replaced in the historical database
0x80D40000	BadAggregateListMismatch	The requested number of Aggregates does not match the requested number of NodeIds
0x80D50000	BadAggregateNotSupported	The requested Aggregate is not support by the server
0x80D60000	BadAggregateInvalidInputs	The aggregate value could not be derived due to invalid data inputs
0x80DA0000	BadAggregateConfigurationRejected	The aggregate configuration is not valid for specified node
0x00D90000	GoodDataIgnored	The request pecifies fields which are not valid for the EventType or cannot be saved by the historian
0x80E40000	BadRequestNotAllowed	The request was rejected by the server because it did not meet the criteria set by the server
0x00DC0000	GoodEdited	The value does not come from the real source and has been edited by the server
0x00DD0000	GoodPostActionFailed	There was an error in execution of these post-actions
0x40DE0000	UncertainDominantValueChanged	The related EngineeringUnit has been changed but the Variable Value is still provided based on the previous unit
0x00E00000	GoodDependentValueChanged	A dependent value has been changed but the change has not been applied to the device
0x80E10000	BadDominantValueChanged	The related EngineeringUnit has been changed but this change has not been applied to the device. The Variable Value is still dependent on the previous unit but its status is currently Bad
0x40E20000	UncertainDependentValueChanged	A dependent value has been changed but the change has not been applied to the device. The quality of the dominant variable is uncertain
0x80E30000	BadDependentValueChanged	A dependent value has been changed but the change has not been applied to the device. The quality of the dominant variable is Bad
0x00A70000	GoodCommunicationEvent	The communication layer has raised an event
0x00A80000	GoodShutdownEvent	The system is shutting down

0x00A90000	GoodCallAgain	The operation is not finished and needs to be called again
0x00AA0000	GoodNonCriticalTimeout	A non-critical timeout occurred
0x80AB0000	BadInvalidArgument	One or more arguments are invalid
0x80AC0000	BadConnectionRejected	Could not establish a network connection to remote server
0x80AD0000	BadDisconnect	The server has disconnected from the client
0x80AE0000	BadConnectionClosed	The network connection has been closed
0x80AF0000	BadInvalidState	The operation cannot be completed because the object is closed, uninitialized or in some other invalid state
0x80B00000	BadEndOfStream	Cannot move beyond end of the stream
0x80B10000	BadNoDataAvailable	No data is currently available for reading from a non-blocking stream
0x80B20000	BadWaitingForResponse	The asynchronous operation is waiting for a response
0x80B30000	BadOperationAbandoned	The asynchronous operation was abandoned by the caller
0x80B40000	BadExpectedStreamToBlock	The stream did not return all data requested (possibly because it is a non-blocking stream)
0x80B50000	BadWouldBlock	Non blocking behaviour is required and the operation would block
0x80B60000	BadSyntaxError	A value had an invalid syntax
0x80B70000	BadMaxConnectionsReached	The operation could not be finished because all available connections are in use