AVEVA HISTORIAN 2020 R2

Namespace and User Specific

PrivateGroupTag
PK,FK1,J1 NameKey
PK,FK1,J1 UserKey
PK,FK2,J1,U1 wwDomainTagKey

PrivateNameSpace
PK,FK1,J1,U1 UserKey
PK,J1 NameKey
Type
Name
ConfigStor
U1 ParentKey

PublicNameSpace
PK,J1 NameKey
Type
Name
ConfigStor
U4
U1
U3 ParentKey
U2 OriginalName

PublicGroupTag
PK,FK1,J1 NameKey
PK,FK2,J1 wwDomainTagKey

UserDetail
PK,J1 UserKey
UserName
AccessLevel
uid
gid

Web Client Content

Comments
FK4 CommentsOwnerKey
CommentsKey
FK2 CommentsTypeKey
FK3 CommentsShareMode
FK1,U2 FQN
DateTime
DateTimeUtc
Content
CreationDateTime
CreationDateTimeUtc
ModifiedDateTime
ModifiedDateTimeUtc
LastSharedDateTime
LastSharedDateTimeUtc

CommentsType
PK,J1 CommentsTypeKey
CommentsTypeName

ShareMode
PK,J1 ShareModeKey
ShareModeName

ChartConfigurationStatistics
PK,FK2,J1 ChartConfigurationUserKey
PK,FK3,J1 ChartConfigurationKey
LastAccessDateTimeUtc

ChartConfiguration
PK,J1 ChartConfigurationKey
I2 ChartConfigurationName
ChartConfigurationUrl
ChartConfigurationType
FK1 ChartConfigurationOwnerKey
ChartConfigurationShareMode
LastSharedDateTimeUtc
CreationDateTimeUtc
TimePreset
TimeAggregate
ChartType
MobileShareMode
EmbedShareMode
LayoutInfo

ChartConfigurationKeyword
Keyword
FK1 ChartConfigurationKey

WideTableDictionary
PK,FK2,J1 UserKey
PK,FK1,J1,U1 TagName

TagGroup
PK,J1 GroupID
Description
CreatedDate
CreatedBy
Type

GroupTagList
PK,FK1,U1,J1 GroupID
PK,FK2,U2,J1 wwDomainTagKey
Triggerval

ServerList
PK,J1 ServerKey
ComputerName
Description

TagRef
PK,I2,J1 wwDomainTagKey
I1 wwTagKey
FK2,U1 ServerKey
FK1,U2 TagName
TagType

InTouch Node Details

InTouchSpecific
PK,FK2,J1 NodeKey
PK,FK1,J1,U1 TagName
OriginalName
U2 TypeInfo
InInSQL
Comment

InTouchNode
PK,J2 NodeKey
I1 MachineName
ApplicationName
Path
Description
I1 DuplicateChar
PrefixOrSuffix
AlwaysModifyName
ImportPlantTags
ImportSystemTags
ImportMemoryTags
ImportAllTags
FixedStorageRate
ImportRoute

TopicImportInfo
PK,FK1,J1 NodeKey
PK,J1 DdeSourceKey
SourceName
ApplicationName
TopicName
RequestInitialData
AlwaysAdvise
DefaultStorageRate
DefaultStorageType
TimeDeadband
ValueDeadband
DeadbandType
Import
ProtocolType
IODriverKey
RateDeadband

I/O Data Acquisition

_Topic
PK,J1 TopicKey
PK,FK1,J1 IOServerKey
Name
TimeOut
Status
LateData
IdleDuration
ProcessingInterval

_IOServer
PK,J1 IOServerKey
FK1 IODriverKey
FK2,U1 ApplicationName
Path
ComputerName
AltComputerName
AutoStart
ExeType
InitializationStatus
ProtocolType
Description
Status

IOServerType
PK,J1 ApplicationName
Description
ExeName
Revision

_IODriver
PK,J1 IODriverKey
ComputerName
AltComputerName
StoreForwardMode
StoreForwardPath
MinMBThreshold
Status
Enabled
StoreForwardDuration
AutonomousStartupTimeout
BufferCount
FileChunkSize
ForwardingDelay
ConnectionTimeout
CompressionEnabled
TCPPort
IntegratedSecurity
UserName
Password
ConnectionDetails
Classic
ChangeVersion

Manual Data

ManualStringHistory
PK,J1 DateTime
PK,FK1,J1,U1 TagName
Value
Quality
QualityDetail
wwTagKey

ManualDiscreteHistory
PK,J1 DateTime
PK,FK1,J1,U1 TagName
Value
Quality
QualityDetail
wwTagKey

ManualAnalogHistory
PK,J1 DateTime
PK,FK1,J1,U1 TagName
Value
Quality
QualityDetail
wwTagKey

Legacy Event and Summary

SummaryTagList
PK,J2 SumVarKey
FK1,U2,J1 TagName
FK2,U1,J1 OperationKey
LowerLimit
UpperLimit
Description

SummaryOperation
PK,J2 OperationKey
FK1,J1 TagName
FK2,I1,U1 CalcType
Description
I1 Duration
I1 Resolution
I1 TimeStamp
Frequency
SourceType

CalcType
PK,J1 CalcType
Description

Frequency
PK,J1 FrequencyID
Frequency

SummaryData
PK,FK1,J1 LogKey
PK,FK2,U1,J1 SumVarKey
Value
Quality
Modified

SummaryHistory
PK,J1 LogKey
FK1,U1 OperationKey
SummaryDate
SumDateTimeStamp
SumDateCalcType
SumDateDuration
SumDateResolution
Status
OperationStart
OperationEnd

TimeDetectorDetail
PK,J1 TimeDetectorDetailKey
FK2,U1 FrequencyID
FK1,U2 TagName
Periodicity
StartDateTime
RunTimeDay
RunTimeHour
RunTimeMin

_EventTag
PK,FK1,J1 TagName
FK3,U2 DetectorTypeKey
DetectorString
FK2,U1 ActionTypeKey
ActionString
UseThreadPool
ScanRate
Logged
PostDetectorDelay
Priority
Edge
Status

DetectorType
PK,J2 DetectorTypeKey
I1 Name
Description
EditorClassName
DetectorClassName
ExecutionMode

ActionType
PK,J2 ActionTypeKey
I1 Name
Description
EditorClassName
ActionClassName

AnalogSnapshot
PK,FK2,J1 SnapshotTagKey
PK,FK1,J1,U1 EventLogKey
Value
Quality
QualityDetail

SQLTemplate
PK,J1 TemplateKey
Description
Type
Script

DiscreteSnapshot
PK,FK2,J1 SnapshotTagKey
PK,FK1,J1,U1 EventLogKey
Value
Quality
QualityDetail

SnapshotTag
PK,J1 SnapshotTagKey
FK2,U2 TagName
FK1,U1 EventTagName
FK3 TagType

StringSnapshot
PK,FK2,J1 SnapshotTagKey
PK,FK1,J1,U1 EventLogKey
Value
Quality
QualityDetail

EventHistory
PK,J1 EventLogKey
FK1,U1 TagName
DateTime
DetectDateTime
Edge

EventTagPendingDelete
PK,J1 TagName
DetectorTypeKey
ActionTypeKey
ScanRate
TimeDeadband
Logged
Status
PostDetectorDelay
UseThreadPool
DetectorString
ActionString
Priority
Edge

TimeDetectorDetailPendingDelete
PK,FK1,J1 TagName
FrequencyID
Periodicity
StartDateTime
RunTimeDay
RunTimeHour
RunTimeMin

Tag Definition

_Tag
PK,I3,U2 TagName
FK6 ShardId
I1 TagId
FK1,U3,J1 IOServerKey
FK1,U3 TopicKey
Description
AcquisitionType
StorageType
StorageRate
ItemName
FK8,U2,U1 TagType
DeadbandType
TimeDeadband
ServerTimeStamp
ChannelStatus
MessageKey
EUKey
MinEU
MaxEU
MinRaw
MaxRaw
Scaling
RawType
ValueDeadband
IntegerSize
SignedInteger
RateDeadband
InterpolationType
RolloverValue
MaxLength
DoubleByte
StructureId
SourceTag
SourceServer
SourceTagId
FK2 CurrentEditor
FK5 wwTagKey
FK4 AlHistory
DateCreated
CreatedBy
ChangeVersion
CEVersion
Status
FK7
FK3 I2

ReplicationShard
PK,J3,J1 ShardId
I2 ShardName
Description
ComputerName
CmdArgs
CmdExtArgs
Id
Status

AttributeType
PK,J2 AttributeTypeKey
I1 AttributeTypeName
AttributeTypeValue

StructureAttributes
PK,FK2,J2,J1 StructureId
PK,J2,J1 AttributeName
FK1 AttributeTypeKey
AttributeOrder

StructureType
StructureId
I2 StructureTypeName
Description

TagExtendedPropertyName
PK,J1 PropertyNameKey
FK1 PropertyNameKey
PropertyType
Facetable
Searchable
SubstringSearchable

_TagExtendedProperty
FK1 TagName
FK2 PropertyNameKey
TagExtendedPropertyKey
PropertyValue
ChangeVersion

Message
PK,J1 MessageKey
Message0
Message1

Storage

StorageType
PK,J1 StorageTypeId
StorageTypeName
Description

StorageLocation
PK,J2 Id
FK1,J1 ShardId
FK2,J1 StorageType
Path
MaxMBSize
MinMBThreshold
MaxAgeThreshold
Status

StorageShard
PK,I3,J1 ShardId
I2 ShardName
Description
ComputerName
BlockDuration
TimeUnitId
TimeZoneId
AdjustToDST
MaxSnapshotSize
CmdArgs
CmdExtArgs
Id
Status

ShardAssignmentRule
Name
Priority
TagFilter
FK1 ShardId
Enabled
Id
ChangeVersion

_ReplicationTagExtendedProperty
FK1 ReplicationServerKey
FK1 DestinationTagName
FK2 PropertyNameKey
ReplicationTagExtendedPropertyKey
PropertyValue
ChangeVersion
Status

_AutoTag
PK,I3,U3 TagName
FK6 ShardId
I1 TagId
FK1,U1,U4 IOServerKey
FK1,U4 TopicKey
Description
AcquisitionType
StorageType
StorageRate
ItemName
FK8,U1,U3 TagType
DeadbandType
TimeDeadband
ServerTimeStamp
ChannelStatus
MessageKey
EUKey
MinEU
MaxEU
MinRaw
MaxRaw
Scaling
RawType
ValueDeadband
IntegerSize
SignedInteger
RateDeadband
InterpolationType
RolloverValue
MaxLength
DoubleByte
StructureId
SourceTag
SourceServer
SourceTagId
FK2 CurrentEditor
FK5 wwTagKey
FK4 AlHistory
DateCreated
CreatedBy
ChangeVersion
CEVersion
Status
FK7
U2
FK3
I2

EngineeringUnit
PK,J1 EUKey
Unit
DefaultTagRate
IntegralDivisor
Status

TagType
PK,J1 TagTypeKey
TagTypeName

ChannelStatus
PK,J1 ChannelStatus
Description

CurrentEditor
PK,J1 CurrentEditor
EditorName

Tag Definition Specialties

Limit
PK,FK1,J1,U3 TagName
PK,FK2,J1,U1 ContextKey
PK,J1 LimitType
PK,J1 Value
PK,FK3,J1,U2 LimitNameKey
Priority
Checked
Description

LimitName
PK,J2 LimitNameKey
I1 Name

Context
PK,J2 ContextKey
I1 Description

RateOfChange
PK,FK1,J1,U2 TagName
PK,FK2,U1,J1 ContextKey
Value
TimeBase
Priority
Checked

Deviation
PK,FK1,J1,U2 TagName
PK,FK2,J1,U1 ContextKey
MinorDeviation
MinorChecked
MinorPriority
MajorDeviation
MajorChecked
MajorPriority
Target
Deadband

Auto Replication

_AutoReplicationServer
PK,J3 ReplicationServerKey
I1 ReplicationServerName
Description
I2 SFPath
SFFreeSpace
CompressionEnabled
UserName
Password
TCPPort
SummaryReplicationNamingScheme
SimpleReplicationNamingScheme
BufferCount
Bandwidth
MinSFDuration
ConnectionDetails
IntegratedSecurity
ReplicateEvents
ChangeVersion
Status

_AutoReplicationGroup
PK,J2 ReplicationGroupKey
PK,FK2,J2,J1 ReplicationServerKey
I1 ReplicationGroupName
FK3,J1 ReplicationTypeKey
FK1 ReplicationScheduleKey
SummaryReplicationNamingScheme
GroupAbbreviation
ChangeVersion
Status

_AutoReplicationTagEntity
PK,FK1,J2 ReplicationServerKey
PK,J2 DestinationTagName
U1 ReplicationTagEntityKey
DestinationTagId
FK2,U2 SourceTagName
FK1 ReplicationGroupKey
MaximumStates
FK3 CurrentEditor
I1 ReplicationTagEntityId
ChangeVersion
Status

_AutoReplicationRule
Name
Priority
TagFilter
FK1 ReplicationGroupKey
FK1 ReplicationServerKey
Enabled
ApplyOtherRules
Id
ChangeVersion

_AutoIntervalReplicationSchedule
FK1 ReplicationScheduleKey
Period
Unit

_AutoReplicationSchedule
PK,J2 ReplicationScheduleKey
I1 ReplicationScheduleName
FK1 ReplicationScheduleTypeKey
ReplicationScheduleAbbreviation
CreateGroup

ReplicationType
PK,J2 ReplicationTypeKey
I1 ReplicationTypeName

ReplicationScheduleType
PK,J1 ReplicationScheduleTypeKey
ReplicationScheduleTypeName

Standard Replication

ReplicationTagEntity
PK,FK3,FK4,J3 ReplicationServerKey
PK,J3 DestinationTagName
U1 ReplicationTagEntityKey
DestinationTagId
I1 SourceTagName
FK1,U2 ReplicationGroupKey
FK3 MaximumStates
CurrentEditor
FK2 ReplicationTagEntityId
I2 ChangeVersion
Status

ReplicationServer
PK,J3 ReplicationServerKey
I1 ReplicationServerName
Description
I2 SFPath
SFFreeSpace
CompressionEnabled
UserName
Password
TCPPort
SummaryReplicationNamingScheme
SimpleReplicationNamingScheme
BufferCount
Bandwidth
MinSFDuration
ConnectionDetails
IntegratedSecurity
ReplicateEvents
ChangeVersion
Status

ReplicationRule
Name
Priority
TagFilter
FK1 ReplicationGroupKey
FK1 ReplicationServerKey
Enabled
ApplyOtherRules
Id
ChangeVersion

ReplicationGroup
PK,J2 ReplicationGroupKey
PK,FK2,J2,J1 ReplicationServerKey
I1 ReplicationGroupName
FK3,J1 ReplicationTypeKey
FK1 ReplicationScheduleKey
SummaryReplicationNamingScheme
GroupAbbreviation
ChangeVersion
Status

CustomReplicationSchedule
FK1 ReplicationScheduleKey
TimeOfDay

ReplicationSchedule
PK,J2 ReplicationScheduleKey
I1 ReplicationScheduleName
FK1 ReplicationScheduleTypeKey
ReplicationScheduleAbbreviation
CreateGroup

IntervalReplicationSchedule
FK1 ReplicationScheduleKey
Period
Unit

Views That Were Formely Tables

Tag
TagName
IOServerKey
StorageNodeKey
wwTagKey
TopicKey
Description
AcquisitionType
StorageType
AcquisitionRate
StorageRate
ItemName
TagType
TimeDeadband
DateCreated
CreatedBy
CurrentEditor
Status
ServerTimeStamp
DeadbandType
CEVersion
TagId
ChannelStatus
AlHistory
ChangeVersion

StringTag
TagName
MaxLength
DoubleByte

DiscreteTag
TagName
MessageKey

EventTag
TagName
DetectorTypeKey
ActionTypeKey
ScanRate
TimeDeadband
Logged
Status
PostDetectorDelay
UseThreadPool
DetectorString
ActionString
Priority
Edge

AnalogTag
TagName
EUKey
MinEU
MaxEU
MinRaw
MaxRaw
Scaling
RawType
ValueDeadband
IntegerSize
SignedInteger
RateDeadband
InterpolationType
RolloverValue

IODriver
IODriverKey
StorageNodeKey
ComputerName
AltComputerName
StoreForwardMode
StoreForwardPath
MinMBThreshold
Status
Enabled
StoreForwardDuration
AutonomousStartupTimeout
BufferCount
FileChunkSize
ForwardingDelay
ConnectionTimeout

IOServer
IOServerKey
StorageNodeKey
IODriverKey
ApplicationName
Path
ComputerName
AltComputerName
AutoStart
ExeType
InitializationStatus
Description
Status

HistoryBlock
FromDate
ToDate
StorageNodeKey
Description
OnLine
HistoryArchived
SummaryArchived
EventArchived
StorageAreaType
ArchiveDate
ArchiveLocation
Version
Compression
Sequence
TimeZoneOffset
wwTimeZone

StructureTag
TagName
StructureId

AnalogSummaryTag
TagName
EUKey
MinEU
MaxEU
MinRaw
MaxRaw

AnalogSummaryHistory
TagName
StartDateTime
EndDateTime
OPCQuality
PercentGood
First
FirstDateTime
Last
LastDateTime
Minimum
MinDateTime
Maximum
MaxDateTime
Average
StdDev
Integral
ValueCount
SourceTag
SourceServer
wwCycleCount
wwResolution
wwTimeZone
wwVersion
wwTagKey
wwRetrievalMode
wwOption
SliceBy
SliceByValue

StateSummaryHistory
TagName
StartDateTime
EndDateTime
Value
vValue
OPCQuality
StateCount
ContainedStateCount
StateTimeMin
StateTimeMinContained
StateTimeMax
StateTimeMaxContained
StateTimeAvg
StateTimeAvgContained
StateTimeTotal
StateTimeTotalContained
StateTimePercent
StateTimePercentContained
SourceTag
SourceServer
wwCycleCount
wwResolution
wwTimeZone
wwVersion
wwTagKey
wwRetrievalMode
wwMaxStates
LastDateTime

ReplicationTag
TagName
SourceTag
SourceServer

Live
DateTime
TagName
Value
vValue
Quality
QualityDetail
OPCQuality
wwTagKey
wwRetrievalMode
wwTimeDeadband
wwValueDeadband
wwTimeZone
wwParameters
SourceTag
SourceServer
wwValueSelector

History
DateTime
TagName
Value
vValue
Quality
QualityDetail
OPCQuality
wwTagKey
wwRowCount
wwResolution
wwEdgeDetection
wwRetrievalMode
wwTimeDeadband
wwValueDeadband
wwTimeZone
wwVersion
wwCycleCount
wwTimeStampRule
wwInterpolationType
wwQualityRule
wwStateCalc
StateTime
PercentGood
wwParameters
StartDateTime
SourceTag
SourceServer
wwFilter
wwValueSelector
wwMaxStates
wwOption

Auxiliary and Internal Tables

ReplicationSyncRequest
PK,J1 ReplicationSyncRequestKey
U2 ReplicationTagEntityKey
U2 RequestVersion
ModStartDateTimeUtc
ModEndDateTimeUtc
U1 EarliestExecutionDateTimeUtc
U1 ExecuteState

ReplicationSyncRequestPending
ReplicationSyncRequestKey
ReplicationTagEntityKey
RequestVersion
ModStartDateTimeUtc
ModEndDateTimeUtc
EarliestExecutionDateTimeUtc
ExecuteState

DeletedReplicationTagEntity
ReplicationTagEntityKey
ChangeVersion

_DeletedReplicationTagExtendedProperty
ReplicationTagExtendedPropertyKey
ChangeVersion

TagHistory
PK,J1 TagId
U1 TagName
Description
AcquisitionType
StorageType
StorageRate
U1 TagType
TimeDeadband
DateCreated
CreatedBy
CurrentEditor
ServerTimeStamp
DeadbandType
ChannelStatus
AlHistory
Message0
Message1
Unit
DefaultTagRate
IntegralDivisor
MinEU
MaxEU
MinRaw
MaxRaw
Scaling
RawType
ValueDeadband
IntegerSize
SignedInteger
RateDeadband
InterpolationType
RolloverValue
MaxLength
DoubleByte
StructureId
SourceTag
SourceServer
SourceTagId
ShardId

AutoTagHistory
PK,J1 TagId
U1 TagName
Description
AcquisitionType
StorageType
StorageRate
U1 TagType
TimeDeadband
DateCreated
CreatedBy
CurrentEditor
ServerTimeStamp
DeadbandType
ChannelStatus
AlHistory
Message0
Message1
Unit
DefaultTagRate
IntegralDivisor
MinEU
MaxEU
MinRaw
MaxRaw
Scaling
RawType
ValueDeadband
IntegerSize
SignedInteger
RateDeadband
InterpolationType
RolloverValue
MaxLength
DoubleByte
StructureId
SourceTag
SourceServer
SourceTagId
ShardId

DeletedTag
TagId
ChangeVersion

aaAreaXML
Version
AreaXML

aaAttributeData
AttributeName
U2 ObjectKey
U3 wwDomainTagKey
HierarchicalAttributeName
Location
ChangeVersion

aaAreaData
PK,I1,U1 AreaKey
U2,U1 Category
U1 AreaName
ContainedName
U2,U1 ParentKey

SnapshotDetail
PK,J1 StorageSize
SnapshotSize
ImageTime
ThresholdTime
Status

aaObjectData
PK,J1 ObjectKey
U3 Type
aaTagName
U1 ContainedName
ParentKey
U2 Status

aaObjectDataPending
PK,J1 ObjectKey
U1 Type
aaTagName
ContainedName
ParentKey

aaAttributeDataPending
AttributeName
U2 ObjectKey

ConfigStatusPending
PK,J1 ID
U1 Type
U1 ObjectKey
Status

SearchMessageSyncRequest
PK,J2 Id
I1 JobId
IndexingMessage
DocumentType
DocQueueCount
JobSubmissionTimeUtc
LastModifiedTimeUtc
Status

ChangeNotification
PK,J1 ChangeType
ChangeTime
ChangeVersion

LocalizedText
PK,J1 TextKey
PK,J1 LanguageID
LocalizedText

ConfigStatusSnapshot
PK,J1 ID
Type
ObjectKey
Status

NameSpaceIcons
PK,J1 Type
Icon
Name
Description

TimeZone
PK,J1 TimeZoneID
TimeZone
Description
Offset
RegistryName

ModLogColumn
FK1 ModTableKey
ColumnName
OldValue
NewValue

ModLogTable
PK,J1 ModTableKey
FK1,U1 id
ModType
RowKey
U1 UserKey
DateTime
UserName

HistorianSysObjects
PK,J1 id
Type
Name

ErrorLog
DateTime
Type
ErrorCode
Parameter
TotalCount
ModuleID
Host
FileName
Line

TimeUnit
PK,J1 Name
Id

OPCQualityMap
PK,J1 OPCQuality
Description

QualityMap
PK,J1 QualityDetail
QualityString

SystemParameter
PK,J1 Name
Value
Editable
Description
Status

ChartConfigurationAuditLog
PK,J1 ChartConfigurationUserKey
PK,J1 CreationDateTimeUtc
ChartConfigurationUrl
AuditLogDescription