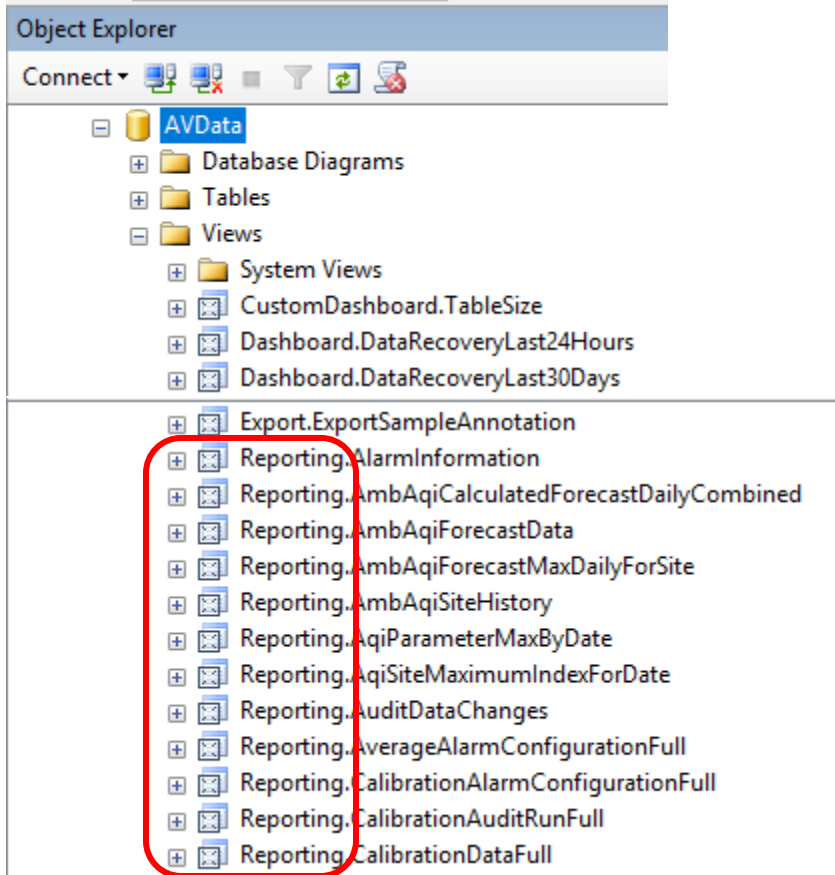


Using Reporting Views in AirVision Database for Data Extraction

There are a number of views within the AirVision database that can be used for extraction of data directly from the database if using scheduled reports from AirVision are not an acceptable solution.

These views all begin "Reporting.":



While any of these views can be queried as desired, the most commonly used will likely be the Reporting.ReadingAverageDataFull view. This view contains extensive column options which the user can select from in their desired query.

```
SELECT TOP (200) Date, SystemStandardizedDate, DateOnly, DateOnlyString, SystemStandardizedDateOnly, TimeOnly, TimeOnlyString, Year, QuarterOfYear, MonthOfYear, MonthOfYearName, DayOfYear, DayOfMonth, WeekOfYear, WeekDay, WeekDayName, Hour, Minute, Second, Millisecond, FinalValue, RawValue, RawLoggerFlags, IsMissing, HasFlags, HasAnnotations, HasQualifierCodes, IsValid, ReportValue, AmbAqsNullCodeID, NullCode, NullCodeDescription, AqsMethodCode, ReadingAverageDataID, DataGrade, CreatedOn, CreatedBy, ModifiedOn, ModifiedBy, IsLocked, MappedNullCode, MappedNullCodeDescription, MappedAirNowCodeDescription, MappedAirNowCode, HighestFlag, HighestFlagDescription, HighestFlagBackColor, HighestFlagForeColor, HighestFlagInvalidatesData, MappedNullCodeID, AssignedAmbAqsNullCodeID, AssignedNullCode, AssignedNullCodeDescription, MappedAmbAqsNullCodeID, FlagCreatedOn, FlagModifiedOn, ReadingAverageDataTagID, ReadingAverageIntervalID, IntervalName, TimeInterval, IntervalDescription, DisplayOrder, LastPollTime, AqsDurationCode, AqsDurationDescription, SystemID, SystemName, SystemUtilityTimeZoneID, SystemEnabled, AgencyCode, SystemTimeZoneOffset, SystemTimeZoneDescription, SystemTimeZoneAbbreviation, SourceSiteID, SiteName, SiteAbbreviation, SiteDescription, SiteEnabled, SiteAirNowMnemonic, StreetAddress1, StreetAddress2, City, County, StateRegion, ZipCode, Latitude, Longitude, AqsSiteCode, SurrogateSlope, SurrogateOffset, SiteFileImportCode, SiteUtilityTimeZoneID, SiteTimeZoneOffset, SiteTimeZoneDescription, SiteTimeZoneAbbreviation, AmbAqsCountyTribalCodeID, AqsCountyTribalName, AqsCountyTribalCode, AqsIsTribalCode, AmbAqsStateCodeID, AqsStateName, AqsStateAbbreviation, AqsStateCode, SourceParameterID, ParameterName, ParameterEnabled, ParameterDescription, SourceParameterDataTypeId, DataTypeKey, DataTypeDescription, EnableAirNowReporting, TotalizeInReports, ParameterAirNowMnemonic, ReportedSourceParameterUnitID, ReportedUnitName, ReportedUnitDescription, AmbAqsParameterTypeID, AmbAqsParameterCategoryID, AqsParameterCategory, AqsParameterDescription, AqsParameterCode, AqsParameterAbbreviation, CasNumber, AmbAqsUnitCodeID, AqsUnitDescription, AqsUnitType, AqsUnitAbbreviation, AqsUnitCode, AqsParameterOccuranceCode, TruncateRoundRule, EpaReportingPrecision, EpaReportedDigits, ParameterGraphMinimum, ParameterGraphMaximum, ParameterCalibrationSpan, ParentSourceParameterID, SourceParameterTemplateID, ParameterTemplateName, MinimumDetectableLimit, InstrumentDetectionLimit, LimitOfQuantization, ParameterTemplateDescription, PracticalQuantizationLimit, ParameterAqsMethodCode, ParameterTemplateKey, ParameterOrder, MinimumInReports, ClaireParameterName, ClaireSiteName, TemplateOrder, QualifierCodes
```

FROM Reporting.ReadingAverageDataFull

The desired columns and ordering can be set and 'where' conditions can be used to restrict the returned data. The 'where' condition columns do not necessarily have to be included in the 'select' columns that will be returned as query results.

EX:

```
SELECT Date, SiteName, ParameterName, ParameterTemplateName, ReportedUnitName, FinalValue, RawValue, ReportValue, IsValid, IntervalName, TruncateRoundRule, EpaReportingPrecision, EpaReportedDigits FROM Reporting.ReadingAverageDataFull WHERE (Date BETWEEN '2017-11-04' AND '2017-11-06') AND (ParameterTemplateName = 'ozone_ppb') AND (IntervalName = '001h')
```

	Date	SiteName	ParameterName	ParameterTemplateName	ReportedUnitName	FinalValue	RawValue	ReportValue	IsValid	IntervalName	TruncateRoundRule	EpaReportingF
1	2017-11-05 00:00:00.000	05_KEENE	O3	OZONE_PPB	PPB	23.4328846658733	23.4328846658733	23	1	001h	T	0
2	2017-11-05 00:00:00.000	14_LACONIA	O3	OZONE_PPB	PPB	13.1428903723801	13.1428903723801	NULL	0	001h	T	0

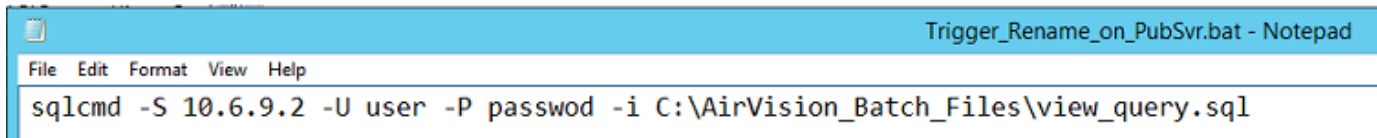
If you wish to run the query via SQL Management studio then save the results, you can do so by manually selecting the returned data or:

- Click on the [Tools] Menu, and select [Options], then [Results]
- Change the [Results Output Format] to CSV.
- Click on the [Query] menu, and select [Results to File...]

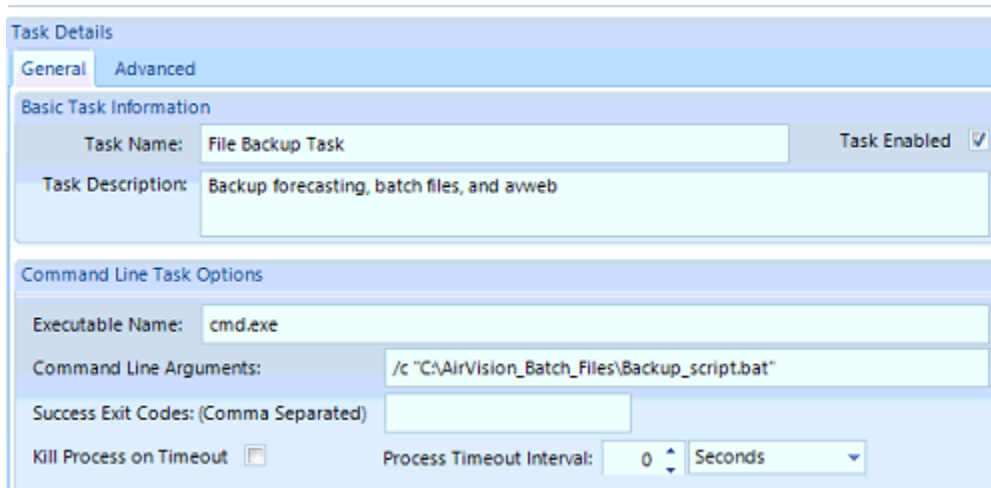
To institute such a query remotely, you can look into creating a query file based on the above then using SQLCMD to execute it.

<https://docs.microsoft.com/en-us/sql/relational-databases/scripting/sqlcmd-use-the-utility>

To schedule such a job via the AirVision Task Scheduler, you can set up a command task utilizing your query and a batch file.



```
sqlcmd -S 10.6.9.2 -U user -P passwod -i C:\AirVision_Batch_Files\view_query.sql
```



Task Details

General Advanced

Basic Task Information

Task Name: File Backup Task Task Enabled

Task Description: Backup forecasting, batch files, and aweb

Command Line Task Options

Executable Name: cmd.exe

Command Line Arguments: /c "C:\AirVision_Batch_Files\Backup_script.bat"

Success Exit Codes: (Comma Separated)

Kill Process on Timeout Process Timeout Interval: 0 Seconds