

WorkMate Claris EP Interface

Imported Data Elements

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Scope of import

Demographics

WorkMate Claris Data Class	WorkMate Claris XML Section	WorkMate Claris XML Data Element	ASCEND report
Patient Demographic Information	<SEX></SEX>	Gender	Birth gender
Patient Demographic Information	<DATE_OF_BIRTH></DATE_OF_BIRTH>	Date of Birth	Birthdate
Patient Demographic Information	<WEIGHT></WEIGHT>	Weight	Weight
Patient Demographic Information	<HEIGHT></HEIGHT>	Height	Height

Gender and date of birth are disabled by default.

Pre-Procedure Information

WorkMate Claris Data Class	WorkMate Claris XML Section	WorkMate Claris XML Data Element	ASCEND report
Pre-Procedure Information	<STUDY_DATE></STUDY_DATE>	Study date	Study date
Pre-Procedure Information	<STUDY_START_TIME></STUDY_START_TIME>	Study time	Study time
Pre-Procedure Information	<INDICATIONS> <ITEM></ITEM> </INDICATIONS>	Indications	HPI and indications

Study date and time and Fluoro time are disabled by default.

Post-Procedure Information

WorkMate Claris Data Class	WorkMate Claris XML Section	WorkMate Claris XML Data Element	ASCEND report
Post-Procedure Information	<FLOURO_TIME></FLOURO_TIME>	Fluoroscopy time	Fluoroscopy time

Medications

The interface imports historical and administered medications, including bolus and infusion for the latter. It imports the medication name, dose and dose unit or rate and rate unit, and bolus vs infusion status.

The summation of medications occurs for “Sedations” and “Study Medications” only, when the routes are identical. Historical medication, or those administered as bolus or infusion will not sum up.

WorkMate Claris Data Class	WorkMate Claris XML Section	WorkMate Claris XML Data Element	ASCEND report
Medications	<CURRENT_MEDICATIONS></CURRENT_MEDICATIONS>	Home/Historical Medication	Historical medications
Medications	<DRUGS><SEDATIONS></SEDATIONS></DRUGS>	In-Study Sedation	Medications given
Medications	<DRUGS><STUDY_DRUGS></STUDY_DRUGS></DRUGS>	In-Study Medication	Medications given

The complete list of imported WorkMate medications is in the table below. Unrecognized medications import as text in the “Unlisted medications” section of the ASCEND report.

Current medications

Accupril	Crestor	Lisinopril	Procardia
Actos	Digoxin	Lopressor	Propafenone
Advair	Diltiazem	Losartan	Propranolol
Alendronate	Diovan	Lovastatin	Protonix
Altace	Ecotrin	Lovenox	Prozac
Ambien	Effient	Metoclopramide	Quinidine
Amiodarone	Enalapril	Metformin	Quinapril
Amlodipine	Flomax	Metoprolol	Rythmol
Ancef	Flunisolide	Mexiletine	Simvastatin
ASA	Fosamax	Micardis	Soma
Atacand	Gemfibrozil	Mirtazapine	Sotalol
Atenolol	Glimepiride	Monopril	Synthroid
Atropine	Glipizide	Morphine	Toprol XL
Avapro	Heparin	Nadolol	Trazodone
Benazepril	Hydralazine	Neurontin	Tricor
Captopril	Hydrochlorothiazide	Nexium	Trilipix
Carbamazepine	Hyzaar	Norvasc	Valium
Cartia XT	Insulin	Pantoprazole	Vasotec
Cardizem	Isoptin	Paxil	Verapamil

Cardura	Isordil	Plavix	Viagra
Celebrex	Isosorbide	Pradaxa	Warfarin
Celexa	Isradipine	Pravachol	Wellbutrin
Citalopram	Klonopin	Pravastatin	Xarelto
Clonazepam	Lasix	Prednisone	Zestril
Cordarone	Levoxyl	Prevacid	Zetia
Coreg	Lidocaine	Prilosec	Zocor
Coumadin	Lipitor	Procainamide	Zolof

Sedations/study medications

Adenosine	Diltiazem	Lopressor	Propofol
Amiodarone	Dilaudid	Lovenox	Propranolol
Ampicillin	Diprivan	Magnesium	Protamine
Ancef	Dobutamine	Magnesium Sulfate	Protamine Sulfate
Angiomax	Dopamine	Metoprolol	ReoPro
Aspirin	Epinephrine	Milrinone	Romazicon
Ativan	Esmolol	Morphine	Sodium Bicarbonate
Atropine	Fentanyl	Narcan	Solu Cortef
Avelox	Furosemide	Neosynephrine	Solu-Medrol
Benadryl	Gentamicin	Nicardipine	Ticagrelor
Calcium Chloride	Heparin	Nipride	TPA
Cardene	Hydralazine	Nitroglycerin	Valium
Cardizem	Ibutilide	Nubain	Vancomycin
Cipro	Integrilin	Phenergan	Vasopressin
Clindamycin	Isuprel	Phenylephrine	Verapamil
Coumadin	Labetalol	Plavix	Versed
Decadron	Lasix	Potassium	Zofran

Demerol	Levophed	Prasugrel	
Digoxin	Lidocaine	Procainamide	

Allergies

WorkMate Claris Data Class	WorkMate Claris XML Section	WorkMate Claris XML Data Element	ASCEND report
Medications	<ALLERGIES></ALLERGIES>	Allergy	Allergies

Inventory

WorkMate Claris Data Class	WorkMate Claris XML Section	WorkMate Claris XML Data Element	ASCEND report
Electrodes	<NAME></NAME>	Catheter Manufacturer	Catheter - Manufacturer
Electrodes	<SIZE></SIZE>	Catheter Size	Catheter – Size (Fr)
Electrodes	<CURVE></CURVE>	Catheter Curve	Model
Electrodes	<INTRODUCER_SIZE></INTRODUCER_SIZE>	Introducer Size	Sheath – Size (Fr)
Electrodes	<INSERTED_FROM></INSERTED_FROM>	Insertion Site	Entry site
Electrodes	<INSERTED_TO><ITEM></ITEM></INSERTED_TO>	Catheter Tip Location	Locations

The complete list of imported WorkMate access sites and catheter tip location sites is included below.

Access sites

The following sites are supported from the “Inserted From” XML string in the catheter section.

- Left Brachial Vein
- Right Brachial Vein
- Left Femoral Artery
- Right Femoral Artery
- Left Femoral Vein
- Right Femoral Vein
- Left Internal Jugular Vein
- Right Internal Jugular Vein
- Left Subclavian Vein
- Right Subclavian Vein

Catheter tip location sites

The following sites are supported from the “Inserted To” XML string in the catheter section.

- CS
- HIS
- HRA

- LA
- LV
- RVA
- RVOT

Implanted hardware

WorkMate Claris XML Section	WorkMate Claris XML Data Element	ASCEND report
<PACEMAKER_MANUFACTURER></PACEMAKER_MANUFACTURER> <ICD_MANUFACTURER></ICD_MANUFACTURER> <MANUFACTURER></MANUFACTURER> (for Leads)	Manufacturer	Manufacturer
<PACEMAKER_MODEL></PACEMAKER_MODEL> <ICD_MODEL></ICD_MODEL> <MODEL></MODEL> (for Leads)	Model	Model
<PACEMAKER_AGE></PACEMAKER_AGE> <ICD_AGE></ICD_AGE> <AGE></AGE> (for Leads)	Age*	Status
<PACEMAKER_SERIAL_NUMBER></PACEMAKER_SERIAL_NUMBER> <ICD_SERIAL_NUMBER></ICD_SERIAL_NUMBER> <SERIAL_NUMBER></SERIAL_NUMBER> (for Leads)	Serial number	Serial number

Complications

WorkMate Claris XML Section	WorkMate Claris XML Data Element	ASCEND report
<COMPLICATIONS><ITEM></ITEM></COMPLICATIONS>	Complication	Adverse outcomes

The device interface imports unrecognized complications as plain text. The complete list of imported WorkMate Claris complications is included in the ACEND configuration guide “Configuration - EP – WorkMate Claris”.

The following complications are supported from the “<COMPLICATIONS></COMPLICATIONS>” XML string. Multiple complications can be supported in a comma delimited string, e.g.:

<COMPLICATIONS>PNEUMOTHORAX, TIA, V-FIB</COMPLICATIONS>

- None
- AV BLOCK
- AV PERFORATION
- CS SPASM
- EMBOLISM
- FISTULA
- HEMATOMA
- MI
- OCCLUSION
- PNEUMOTHORAX
- PSEUDOANEURYSM
- TAMPONADE
- TIA
- TRANSIENT ISCHEMIC ATTACK
- V-FIB
- VALVE PERFORATION

Complications not in this list are considered unrecognized and import as text.

Electrophysiology measurements

The electrophysiology measurements populate the log report and will import to the Intervals and conduction tables in the Ascend report.

The measurements are preceded by a measurement “TYPE TITLE” that sets the context for the measurements, e.g. “BL” which is the baseline. The measurement type will import to the “Phase name” field in the appropriate tables. The device imports unrecognized measurements to the generic tables in the Ascend report. Measurements with a value of zero (0) will not import.

The following is the scope of import for electrophysiology measurements:

- Recognized context and recognized measurement = measurement will import to its target in physician reporting
- Recognized context and unrecognized measurement = measurement will import to the generic measurements table

Unrecognized context (recognized/unrecognized measurement) = measurement will **NOT** import

Measurement types

- BL
- A Pace
- V Pace
- SVT
- VT-1
- VT-2
- VT-3
- VT-4
- Other
- SVT

Pre-defined measurements

- A-A
- A-H
- A-V
- H-V
- P-A
- P-R
- QRS
- QT
- QTc
- R-R
- V-A
- V-V
- SNRT
- CSNRT
- ERP
- FRP
- FPFRRP
- AVNERP
- AERP
- VERP
- S1
- S2
- S3
- S4
- WCL

Unrecognized pre-defined measurements

- P-P
- H-H
- BP MAX
- BP MIN
- BP AVG

Conduction system information

The “Conduction system information” section of WorkMate contains the “Max CSNRT” measurement that import in the “Intervals and conduction” table in ASCEND.

Arrhythmias

Arrhythmia information imports to the Arrhythmia detail and Arrhythmia table sections of the ASCEND report.

WorkMate Claris Data Class	WorkMate Claris XML Section	WorkMate Claris XML Data Element	ASCEND report	Arrhythmia Detail, Table, or Both
Arrhythmia	<ARRHYTHMIA_1></ARRHYTHMIA_1>	Arrhythmia	Rhythm/Arrhythmia type	Both
Morphology	<MORPHOLOGY_1></MORPHOLOGY_1>	Morphology	QRS morphology	Table
Sustained *	<SUSTAINED_1></SUSTAINED_1>	Sustained	Sustained	Both
Duration	<DURATION_1></DURATION_1>	Duration	Duration	Table
Cycle length	<CYCLE_LENGTH_1></CYCLE_LENGTH_1>	Cycle length	Cycle length	Detail
Induction method	<INDUCTION_METHOD_1></INDUCTION_METHOD_1>	Induction method	Protocol and pacing location	Detail
Termination	<TERMINATION_1></TERMINATION_1>	Termination	Termination	Table
Arrhythmia comment	<ARRHYTHMIA_COMMENT_1></ARRHYTHMIA_COMMENT_1>	Arrhythmia comments	Comments	Table

* “Sustained” has values of Yes/No.

Arrhythmia (rhythm)

- VT
- ANTIDROMIC
- VF
- AVRT
- POLYMORPHIC VT
- AT
- SVT
- JUNCTION TACH
- AVNRT
- A FIB
- ORTHODROMIC
- A FLUTTER

Unrecognized arrhythmia types <ARRHYTHMIA_1></ARRHYTHMIA_1> import as text in the “Rhythm/Arrhythmia type” in the Arrhythmia table.

Morphology

- Normal
- LBBB
- RBBB
- WPW
- LAHB
- LPHB

Cardioversion

Cardioversion information imports to the Cardioversion procedure and Cardioversion table sections of the ASCEND report.

WorkMate Claris Data Class	WorkMate Claris XML Section	WorkMate Claris XML Data Element	ASCEND report	Arrhythmia Procedure, Table, or Both
Joules	<JOULES_1></JOULES_1>	Joules	Dialed energy	Procedure
Pre Rhythm	<PRE_RHYTM_1></PRE_RHYTM_1>	Pre Rhythm	Initial rhythm	Procedure
Post Rhythm	<POST_RHYTM_1>SINUS</POST_RHYTM_1>	Post Rhythm	Rhythm after conversion/Converting to	Both
Success	<SUCCESS_1></SUCCESS_1>	Success	Final outcome	Table
Joules Measured	<JOULES_MEASURED_1></JOULES_MEASURED_1>	Joules Measured	Energy	Table

Pre Rhythms

- VT
- VF
- POLYMORPHIC VT
- TORSADE DE POINTES
- SVT
- AVNRT
- ORTHODROMIC
- ANTIDROMIC
- AT
- JUNCTION TACH
- A FIB
- A FLUTTER

Post Rhythms

- SINUS
- SVT
- AVNRT
- ORTHODROMIC
- ANTIDROMIC
- AT
- JUNCTION TACH
- A FIB
- A FLUTTER
- PACED DDD
- PACED VVI
- PACED AAI

The following data elements import to the procedure narrative:

- Initial rhythm = VT
- Dialed energy = 250
- Energy (in table) = 225
- Rhythm after conversion = Normal Sinus Rhythm

Conduction system information

The “Max CSNRT” will import to the Sinus recovery times table. The Max CSNRT is exported as ‘<MAX_CSNRT>200</MAX_CSNRT>’.

Baseline ECG

The baseline ECG imports to the Baseline ECG in the Ascend report from the following XML string in the import:

```
<BASELINE_ECG_RHYTHM></BASELINE_ECG_RHYTHM>
```

Unrecognized baseline ECG rhythms import as text. The complete list of imported WorkMate Claris baseline ECG data elements is included in the ACEND configuration guide “Configuration - EP – WorkMate Claris”.

Baseline ECG rhythms

- A-Fib
- A FIB
- A FLUTTER
- ANTIDROMIC
- AT
- AVNRT
- JUNCTION TACH
- Normal sinus rhythm
- NSVT
- ORTHODROMIC
- PACED AAI
- PACED DDD
- PACED VVI
- POLYMORPHIC VT
- PVCs
- SINUS
- SVT
- TORSADE DE POINTES
- VF
- VT Accessory Pathways

Accessory pathways are supported by the following locations and types:

Locations	Types
RIGHT SEPTAL	ORTHODROMIC
RIGHT POSTEROSEPTAL	ANTIDROMIC
RIGHT INFEROLATERAL	
LEFT POSTEROSEPTAL	

Cardiac diagnosis

The Claris device export includes some cardiac diagnosis elements should the user input them. These elements will import to the patient history section of the Ascend report.

WorkMate Claris XML Data Element	ASCEND report
CABG	Prior procedure: Surgery Coronary artery bypass grafting
CATH_EJECTION_FRACTION (integer)	Prior procedure: Catheterization. EF was (integer)%
NHYA_CLASS (integer) I II III IV	Functional status: NYHA class I (asymptomatic) NYHA class II (symptoms with moderate exercise) NYHA class III (symptoms with minimal exercise) NYHA class IV (symptoms at rest)



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