

1.Vital Data Structures

Category	Key Name (Parent key / Child key / Grandchild key)	Type	Description	Value / Unit / Range
OMRONBLEDeviceCategoryBloodPressure	OMRONVitalDataBloodPressureKey	NSDictionary	Array of Blood Pressure Data (NSMutableArray)	
	OMRONVitalDataMeasurementStartDateKey	double	Start Date Time Unix Timestamp (UTC)	NSTimeInterval
	OMRONVitalDataSequenceKey	NSInteger	Sequence Number	integer
	OMRONVitalDataUserIdKey	NSInteger	User id	1-2
	OMRONVitalDataSystolicKey	NSInteger	Systolic Blood Pressure	mmHg
	OMRONVitalDataDiastolicKey	NSInteger	Diastolic Blood Pressure	mmHg
	OMRONVitalDataPulseKey	NSInteger	Pulse Rate	bpm (beats per minute)
	OMRONVitalDataPositioningIndicatorKey	NSInteger	Positioning Indicator	0 - off 1 - correct 2 - too high 3 - too low
	OMRONVitalDataIrregularFlagKey	NSInteger	Irregular Heart Beat Symbol	0 - Not detected 1 - Detected
	OMRONVitalDataMovementFlagKey	NSInteger	Movement Error Symbol	0 - Not detected 1 - Detected
	OMRONVitalDataCuffFlagKey	NSInteger	Cuff Wrap Guide	0 - unfit 1 - fit
	OMRONVitalDataConsecutiveMeasurementKey	NSInteger	Number of TruRead Mesurements	0 - Single measurement 1 - TruRead 1st 2 - TruRead 2nd 3 - TruRead 3rd
	OMRONVitalDataAtrialFibrillationDetectionFlagKey	NSInteger	AFib Detection	0 - Not detected 1 - Detected
	OMRONVitalDataIrregularHeartBeatCountKey	NSInteger	No of Irregular Heartbeat	0-1: Detection count not displayed on LCD (should not be displayed by the application) 2-3: Number of detection counts displayed on LCD
	OMRONVitalDataMeasurementModeKey	NSInteger	Blood pressure measurement mode	0 - Normal Mode 1 - AFIB Mode 2 - Night + Time designation (2 am, 4 am, so on) 3 - Night + Elapsed time (4 hours after setting Nocturnal mode) 4 - Night mode measurement is started by two settings at the same time 5 - TruRead Mode
OMRONBLEDeviceCategoryBodyComposition	OMRONVitalDataWeightKey	NSDictionary	Array of Weight Data (NSMutableArray)	
	OMRONWeightDataStartDateKey	double	Start Date Time Unix Timestamp (UTC)	NSTimeInterval
	OMRONWeightDataSequenceKey	NSInteger	Sequence Number	integer
	OMRONWeightDataUserIdKey	NSInteger	User id	1-4
	OMRONWeightKey	double	Weight	2-150 (kg)
	OMRONWeightBodyFatLevelClassificationKey	NSInteger	Body Fat Levels	1-3 - low 4-6 - standard 7-9 - slightly high 10-12 - High
	OMRONWeightBodyFatPercentageKey	double	Body Fat Percentage	5.0-60 (%)
	OMRONWeightRestingMetabolismKey	NSInteger	Resting Metabolism	385-3999
	OMRONWeightSkeletalMusclePercentageKey	double	Skeletal Muscle Percentage	5.0-50
	OMRONWeightBMIKey	double	Body Mass Index	7-90
	OMRONWeightDataBodyAgeKey	NSInteger	Body Age	18-80
	OMRONWeightVisceralFatLevelKey	NSInteger	Visceral Fat Level	Upto 30
	OMRONWeightVisceralFatLevelClassificationKey	NSInteger	Visceral Fat Classification	4-6 - standard 7-9 - slightly high 10-12 - High
	OMRONWeightSkeletalMuscleLevelClassificationKey	NSInteger	Skeletal Muscle Level Classification	1-3 - low 4-6 - standard 7-9 - slightly high 10-12 - High
	OMRONWeightBMILevelClassificationKey	NSInteger	BMI Level Classification	1-3 - low 4-6 - standard 7-9 - slightly high 10-12 - High
	OMRONWeightLbsKey	double	Weight value fixed in lb units	11-330.6 (Lbs)

1.Vital Data Structures

Category	Key Name (Parent key / Child key / Grandchild key)	Type	Description	Value / Unit / Range
OMRONBLEDeviceCategoryPulseOximeter	OMRONVitalDataPulseOximeterKey	NSDictionary	Array of Oxygen Data (NSMutableArray)	
	OMRONPulseOximeterDataStartDateKey	double	Start Date Time Unix Timestamp (UTC)	NSTimeInterval
	OMRONPulseOximeterDataSequenceKey	NSInteger	Sequence Number	integer
	OMRONPulseOximeterDataUserIdKey	NSInteger	User id	1
	OMRONPulseOximeterSPO2LevelKey	NSInteger	Blood Oxygen Level	%
	OMRONPulseOximeterPulseRateKey	NSInteger	Pulse Rate	bpm (beats per minute)
	OMRONPulseOximeterAmplitudeKey	NSInteger	Pulse Amplitude Index	%
OMRONBLEDeviceCategoryWheeze	OMRONVitalDataWheezeKey	NSDictionary	Array of Wheeze Data (NSMutableArray)	
	OMRONWheezeDataStartDateKey	double	Start Date Time Unix Timestamp (UTC)	NSTimeInterval
	OMRONWheezeDataSequenceKey	NSInteger	Sequence Number	integer
	OMRONWheezeDataUserIdKey	NSInteger	User id	1
	OMRONWheezeKey	NSInteger	Wheeze data	0 : Not detected 1 : Detected 2 : Measurement Error
	OMRONWheezeErrorNoiseKey	NSInteger	Excessive Noise Error	0 : No error 1 : Error
	OMRONWheezeErrorDecreaseBreathingSoundLevelKey	NSInteger	Decrease in breathing sound error	0 : No error 1 : Error
	OMRONWheezeErrorSurroundingNoiseKey	NSInteger	Environmental noise error	0 : No error 1 : Error
OMRONBLEDeviceCategoryTemperature	OMRONVitalDataTemperatureKey	NSDictionary	Array of Temperture Data (NSMutableArray)	
	OMRONTemperatureDataStartDateKey	double	Start Date Time Unix Timestamp (UTC)	NSTimeInterval
	OMRONTemperatureDataSequenceKey	NSInteger	Sequence Number	integer
	OMRONTemperatureDataUserIdKey	NSInteger	User id	1
	OMRONTemperatureKey	NSDecimalNumber	Temperature value	°C / °F
	OMRONTemperatureAccurateCelsiusKey	double	Temperature accurate value in Celsius	°C
	OMRONTemperatureCelsiusKey	float	Temperature value in Celsius	°C
	OMRONTemperatureUnitKey	int	Unit of Temperature	OMRONTemperatureUnitTypeKey.Celsius OMRONTemperatureUnitTypeKey.Fahrenheit
	OMRONTemperatureLevelKey	int	Temperature level	1 : High 0 : Low
OMRONBLEDeviceCategoryActivity	OMRONVitalDataActivityKey	NSDictionary	Array of Activity Data (NSMutableArray)	
	OMRONActivityStepsPerDay	NSDictionary	Steps for a day	
	OMRONActivityDataStartDateKey	double	Start Date Time Unix Timestamp (UTC)	NSTimeInterval
	OMRONActivityDataEndDateKey	double	End Date Time Unix Timestamp (UTC)	NSTimeInterval
	OMRONActivityDataMeasurementKey	double	Measurement	count
	OMRONActivityDataSequenceKey	NSInteger	Sequence Number	integer
	OMRONActivityDataDividedDataKey	NSArray	Hourly data (NSMutableArray)	
	OMRONActivityDividedDataStartDateKey	double	Start Date Time Unix Timestamp for Hourly data (UTC)	NSTimeInterval
	OMRONActivityDividedDataMeasurementKey	double	Measurements in Hourly data	steps
	OMRONActivityDividedDataPeriodTimeKey	NSInteger	Period in Hourly data	minutes
	OMRONActivityDividedDataMeasurementDetailsKey	NSArray	Measurement details	Detailed Time Division Vital Data
	OMRONActivityAerobicStepsPerDay	NSDictionary	Aerobic steps for a day	
	OMRONActivityDataStartDateKey	double	Start Date Time Unix Timestamp (UTC)	NSTimeInterval
	OMRONActivityDataEndDateKey	double	End Date Time Unix Timestamp (UTC)	NSTimeInterval
	OMRONActivityDataMeasurementKey	double	Measurement	count
	OMRONActivityDataSequenceKey	NSInteger	Sequence Number	integer
	OMRONActivityDataDividedDataKey	NSArray	Hourly data (NSMutableArray)	
	OMRONActivityDividedDataStartDateKey	double	Start Date Time Unix Timestamp for Hourly data (UTC)	
	OMRONActivityDividedDataMeasurementKey	double	Measurements in Hourly data	steps
	OMRONActivityDividedDataPeriodTimeKey	NSInteger	Period in Hourly data	minutes
	OMRONActivityDividedDataMeasurementDetailsKey	NSArray	Measurement details	Detailed Time Division Vital Data
	OMRONActivityWalkingCaloriesPerDay	NSDictionary	Calories burnt in a day	
	OMRONActivityDataStartDateKey	double	Start Date Time Unix Timestamp (UTC)	NSTimeInterval
	OMRONActivityDataEndDateKey	double	End Date Time Unix Timestamp (UTC)	NSTimeInterval
	OMRONActivityDataMeasurementKey	double	Measurement	count
	OMRONActivityDataSequenceKey	NSInteger	Sequence Number	integer
	OMRONActivityDataDividedDataKey	NSArray	Hourly data (NSMutableArray)	
	OMRONActivityDividedDataStartDateKey	double	Start Date Time Unix Timestamp for Hourly data (UTC)	NSTimeInterval
	OMRONActivityDividedDataMeasurementKey	double	Measurements in Hourly data	steps
	OMRONActivityDividedDataPeriodTimeKey	NSInteger	Period in Hourly data	minutes
	OMRONActivityDividedDataMeasurementDetailsKey	NSArray	Measurement details	Detailed Time Division Vital Data

1.Vital Data Structures

Category	Key Name (Parent key / Child key / Grandchild key)		Type	Description	Value / Unit / Range
		OMRONActivityDistancePerDay	NSDictionary	Distance covered in a day	
		OMRONActivityDataStartDateKey	double	Start Date Time Unix Timestamp (UTC)	NSTimeInterval
		OMRONActivityDataEndDateKey	double	End Date Time Unix Timestamp (UTC)	NSTimeInterval
		OMRONActivityDataMeasurementKey	double	Measurement	count
		OMRONActivityDataSequenceKey	NSInteger	Sequence Number	integer
		OMRONActivityDataDividedDataKey	NSArray	Hourly data (NSMutableArray)	
		OMRONActivityDividedDataStartDateKey	double	Start Date Time Unix Timestamp for Hourly data (UTC)	NSTimeInterval
		OMRONActivityDividedDataMeasurementKey	double	Measurements in Hourly data	steps
		OMRONActivityDividedDataPeriodTimeKey	NSInteger	Period in Hourly data	minutes
		OMRONActivityDividedDataMeasurementDetailsKey	NSArray	Measurement details	Detailed Time Division Vital Data
		OMRONActivityNormalStepsPerDay	NSDictionary	Normal steps in a day	
		OMRONActivityDataStartDateKey	double	Start Date Time Unix Timestamp (UTC)	NSTimeInterval
		OMRONActivityDataEndDateKey	double	End Date Time Unix Timestamp (UTC)	NSTimeInterval
		OMRONActivityDataMeasurementKey	double	Measurement	count
		OMRONActivityDataSequenceKey	NSInteger	Sequence Number	integer
		OMRONActivityDataDividedDataKey	NSArray	Hourly data (NSMutableArray)	
		OMRONActivityDividedDataStartDateKey	double	Start Date Time Unix Timestamp for Hourly data (UTC)	NSTimeInterval
		OMRONActivityDividedDataMeasurementKey	double	Measurements in Hourly data	steps
		OMRONActivityDividedDataPeriodTimeKey	NSInteger	Period in Hourly data	minutes
		OMRONActivityDividedDataMeasurementDetailsKey	NSArray	Measurement details	Detailed Time Division Vital Data
		OMRONActivityJoggingStepsPerDay	NSDictionary	Jogging steps in a day	
		OMRONActivityDataStartDateKey	double	Start Date Time Unix Timestamp (UTC)	NSTimeInterval
		OMRONActivityDataEndDateKey	double	End Date Time Unix Timestamp (UTC)	NSTimeInterval
		OMRONActivityDataMeasurementKey	double	Measurement	count
		OMRONActivityDataSequenceKey	NSInteger	Sequence Number	integer
		OMRONActivityDataDividedDataKey	NSArray	Hourly data (NSMutableArray)	
		OMRONActivityDividedDataStartDateKey	double	Start Date Time Unix Timestamp for Hourly data (UTC)	NSTimeInterval
		OMRONActivityDividedDataMeasurementKey	double	Measurements in Hourly data	steps
		OMRONActivityDividedDataPeriodTimeKey	NSInteger	Period in Hourly data	minutes
		OMRONActivityDividedDataMeasurementDetailsKey	NSArray	Measurement details	Detailed Time Division Vital Data
		OMRONActivityFastStepsPerDay	NSDictionary	Fast steps in a day	
		OMRONActivityDataStartDateKey	double	Start Date Time Unix Timestamp (UTC)	NSTimeInterval
		OMRONActivityDataEndDateKey	double	End Date Time Unix Timestamp (UTC)	NSTimeInterval
		OMRONActivityDataMeasurementKey	double	Measurement	count
		OMRONActivityDataSequenceKey	NSInteger	Sequence Number	integer
		OMRONActivityDataDividedDataKey	NSArray	Hourly data (NSMutableArray)	
		OMRONActivityDividedDataStartDateKey	double	Start Date Time Unix Timestamp for Hourly data (UTC)	Unix Timestamp (ms)
		OMRONActivityDividedDataMeasurementKey	double	Measurements in Hourly data	steps
		OMRONActivityDividedDataPeriodTimeKey	NSInteger	Period in Hourly data	minutes
		OMRONActivityDividedDataMeasurementDetailsKey	NSArray	Measurement details	Detailed Time Division Vital Data
		OMRONVitalDataSleepKey	NSDictionary	Sleep Data	
		OMRONSleepDataStartDateKey	double	Start Date Time Unix Timestamp (UTC)	NSTimeInterval
		OMRONSleepDataEndDateKey	double	End Date Time Unix Timestamp (UTC)	NSTimeInterval
		OMRONSleepTimeInBedKey	double	Sleep Start Time Unix Timestamp (UTC)	NSTimeInterval
		OMRONSleepSleepOnsetTimeKey	double	Sleep Onset Time Unix Timestamp (UTC)	NSTimeInterval
		OMRONSleepWakeTimeKey	double	Wake Up Time Unix Timestamp (UTC)	NSTimeInterval
		OMRONSleepTotalSleepTimeKey	NSInteger	Total Sleep Time in minutes	minutes
		OMRONSleepSleepEfficiencyKey	double	Efficiency of sleep in percentage	%
		OMRONSleepArousalDuringSleepTimeKey	long	Half Awake Time	minutes
		OMRONSleepBodyMotionLevelKey	NSArray	Body movement level during sleep	0b00:Body movement level 0 0b01:Body movement level 1 0b10:Body movement level 2 0b11:unmeasured
		OMRONVitalDataRecordKey	NSDictionary	Records Data	
		OMRONRecordDataDateKey	double	Start Date Time Unix Timestamp (UTC)	NSTimeInterval
		OMRONRecordDataSequenceKey	NSInteger	Sequence Number	integer
		OMRONRecordDataTimeDifferenceKey	double	Time zone information at the time of measurement	time zone information

2.Device Information

Key Name	Type	Description	Value / Unit / Range
OMRONDeviceInformationDisplayNameKey	NSString	Display Name	-
OMRONDeviceInformationIdentityNameKey	NSString	Identity name	-
OMRONDeviceInformationLocalNameKey	NSString	Local Name	-
OMRONDeviceInformationSerialIdKey	NSString	Device Serial Id	-
OMRONDeviceInformationUUIDKey	NSString	Device UUID	-
OMRONDeviceInformationBatteryRemainingKey	NSString	Battery Level	0-100 (%)
OMRONDeviceInformationUnsentDataNumKey	NSString	Number of Unsent Data	-

3.Device Settings Structures

Target device category (Mandatory:M, Optional:O)				Key Name (Parent key / Child key / Grandchild key)	Type	Description	Value / Unit
Blood Pressure	Body Composition	Wheeze	Activity				
				OMRONDevicePersonalSettingsKey	Map	Personal settings for the user	
	M		M	OMRONDevicePersonalSettingsUserHeightKey	float	Height of the user	cm
			M	OMRONDevicePersonalSettingsUserWeightKey	float	Weight of the user	kg
			M	OMRONDevicePersonalSettingsUserStrideKey	float	Stride of the user	cm
			O	OMRONDevicePersonalSettingsTargetStepsKey	int	Target number of steps	count
			O	OMRONDevicePersonalSettingsTargetSleepKey	int	Target sleep time	minutes
O	M			OMRONDevicePersonalSettingsUserDateOfBirthKey	String	Date of birth of user	yyyymmdd
	M		O	OMRONDevicePersonalSettingsUserGenderKey	int	Gender of the user	OMRONDevicePersonalSettingsUserGenderType.Female OMRONDevicePersonalSettingsUserGenderType.Male
				OMRONDevicePersonalSettingsBloodPressureKey	Map	Blood Pressure settings	
O				OMRONDevicePersonalSettingsBloodPressureTruReadEnableKey	int	TruRead Enable Key	OMRONDevicePersonalSettingsBloodPressureTruReadStatus.Off OMRONDevicePersonalSettingsBloodPressureTruReadStatus.On
O				OMRONDevicePersonalSettingsBloodPressureTruReadIntervalKey	int	TruRead Interval Key	OMRONDevicePersonalSettingsBloodPressureTruReadInterval.Interval15 OMRONDevicePersonalSettingsBloodPressureTruReadInterval.Interval30 OMRONDevicePersonalSettingsBloodPressureTruReadInterval.Interval60 OMRONDevicePersonalSettingsBloodPressureTruReadInterval.Interval120
				OMRONDevicePersonalSettingsWeightKey	Map	Weight settings	
	O			OMRONDevicePersonalSettingsWeightDisplayPriorityBodyFatKey	int	Display priority – Body fat	1-6
	O			OMRONDevicePersonalSettingsWeightDisplayPriorityVisceralFatLevelKey	int	Display priority – Visceral fat	1-6
	O			OMRONDevicePersonalSettingsWeightDisplayPrioritySkeletalMuscleLevelKey	int	Display priority – Skeletal muscle	1-6
	O			OMRONDevicePersonalSettingsWeightDisplayPriorityRestingMetabolismKey	int	Display priority – Resting metabolism	1-6
	O			OMRONDevicePersonalSettingsWeightDisplayPriorityBMIKey	int	Display priority – BMI	1-6
	O			OMRONDevicePersonalSettingsWeightDisplayPriorityBodyAgeKey	int	Display priority – BodyAge	1-6
	O			OMRONDevicePersonalSettingsWeightDisplayEnableBodyFatKey	int	Display enable – Body fat	0 - OFF 1 - ON
	O			OMRONDevicePersonalSettingsWeightDisplayEnableVisceralFatLevelKey	int	Display enable – Visceral fat	0 - OFF 1 - ON
	O			OMRONDevicePersonalSettingsWeightDisplayEnableSkeletalMuscleLevelKey	int	Display enable – Skeletal muscle	0 - OFF 1 - ON
	O			OMRONDevicePersonalSettingsWeightDisplayEnableRestingMetabolismKey	int	Display enable – Resting metabolism	0 - OFF 1 - ON
	O			OMRONDevicePersonalSettingsWeightDisplayEnableBMIKey	int	Display enable - BMI	0 - OFF 1 - ON
	O			OMRONDevicePersonalSettingsWeightDisplayEnableBodyAgeKey	int	Display enable – BodyAge	0 - OFF 1 - ON
				OMRONDeviceTimeSettingsKey	Map		
			O	OMRONDeviceTimeSettingsFormatKey	int	Key to specify the device time format	OmronConstants.OMRONDeviceTimeFormat.Time24Hour OmronConstants.OMRONDeviceTimeFormat.Time12Hour
				OMRONDeviceDateSettingsKey	Map		
			O	OMRONDeviceDateSettingsFormatKey	int	Key to specify the device date format	OMRONDeviceDateFormat.MonthDay OMRONDeviceDateFormat.DayMonth
				OMRONDeviceDistanceSettingsKey	Map		
			O	OMRONDeviceDistanceSettingsUnitKey	int	Key to specify the device distance format	OmronConstants.OMRONDeviceDistanceUnit.Kilometer OmronConstants.OMRONDeviceDistanceUnit.Mile
				OMRONDeviceSleepSettingsKey	Map		
			O	OMRONDeviceSleepSettingsAutomaticKey	int	Automatic sleep setting	OMRONDeviceSleepAutomatic.Off OMRONDeviceSleepAutomatic.On
			O	OMRONDeviceSleepSettingsAutomaticStartTimeKey		Start time for automatic sleep detection	0-23
			O	OMRONDeviceSleepSettingsAutomaticStopTimeKey		Stop time for automatic sleep detection	0-23

3.Device Settings Structures

Target device category (Mandatory:M, Optional:O)				Key Name (Parent key / Child key / Grandchild key)	Type	Description	Value / Unit
Blood Pressure	Body Composition	Wheeze	Activity				
				OMRONDeviceAlarmSettingsKey	Map	List of alarm item Example - ArrayList<HashMap>	
				OMRONDeviceAlarmSettingsDaysKey	Map		
			O	OMRONDeviceAlarmSettingsDaySundayKey	int	Set Alarm for Sunday	OmronConstants.OMRONDeviceAlarmStatus.Off OmronConstants.OMRONDeviceAlarmStatus.On
			O	OMRONDeviceAlarmSettingsDayMondayKey	int	Set Alarm for Monday	OmronConstants.OMRONDeviceAlarmStatus.Off OmronConstants.OMRONDeviceAlarmStatus.On
			O	OMRONDeviceAlarmSettingsDayTuesdayKey	int	Set Alarm for Tuesday	OmronConstants.OMRONDeviceAlarmStatus.Off OmronConstants.OMRONDeviceAlarmStatus.On
			O	OMRONDeviceAlarmSettingsDayWednesdayKey	int	Set Alarm for Wednesday	OmronConstants.OMRONDeviceAlarmStatus.Off OmronConstants.OMRONDeviceAlarmStatus.On
			O	OMRONDeviceAlarmSettingsDayThursdayKey	int	Set Alarm for Thursday	OmronConstants.OMRONDeviceAlarmStatus.Off OmronConstants.OMRONDeviceAlarmStatus.On
			O	OMRONDeviceAlarmSettingsDayFridayKey	int	Set Alarm for Friday	OmronConstants.OMRONDeviceAlarmStatus.Off OmronConstants.OMRONDeviceAlarmStatus.On
			O	OMRONDeviceAlarmSettingsDaySaturdayKey	int	Set Alarm for Sunday	OmronConstants.OMRONDeviceAlarmStatus.Off OmronConstants.OMRONDeviceAlarmStatus.On
				OMRONDeviceAlarmSettingsTimeKey	Map		
			O	OMRONDeviceAlarmSettingsHourKey	int	Hour	0-23
			O	OMRONDeviceAlarmSettingsMinuteKey	int	Minute	0-59
			O	OMRONDeviceAlarmSettingsTypeKey	int	Alarm type	OMRONDeviceAlarmType.Normal OMRONDeviceAlarmType.Measure OMRONDeviceAlarmType.Medication
				OMRONDeviceWeightSettingsKey	Map		
	O			OMRONDeviceWeightSettingsUnitKey	int	Key to specify device weight unit	OMRONDeviceWeightUnit.Kg OMRONDeviceWeightUnit.Lbs OMRONDeviceWeightUnit.St
				OMRONDeviceScanSettingsKey	Map		
O	O	O	O	OMRONDeviceScanSettingsModeKey	int	Device Scan Mode	OMRONDeviceScanSettingsMode.Pairing OMRONDeviceScanSettingsMode.MismatchSequence

4.Example code for Retrieve Vital Data

Below is a sample code to retrieve blood pressure and weight data.

```
[peripheral getVitalDataWithCompletionBlock:^(NSMutableDictionary *vitalData, NSError *error) {
    if(error == nil) {
        for (NSString *key in vitalData.allKeys) {
            // Blood Pressure Data
            if([key isEqualToString:OMRONVitalDataBloodPressureKey]) {
                NSMutableArray *bloodPressureData = [vitalData objectForKey:key];

                for (NSMutableDictionary *bpItem in bloodPressureData) {
                    NSInteger systolicData = [bpItem valueForKey:OMRONVitalDataSystolicKey];
                    NSInteger diastolicData = [bpItem valueForKey:OMRONVitalDataDiastolicKey];
                    NSInteger pulseRateData = [bpItem valueForKey:OMRONVitalDataPulseKey];

                    //Implement the processing for blood pressure data
                }
            }

            // Weight Data
            if([key isEqualToString:OMRONVitalDataWeightKey]) {
                NSMutableArray *weightData = [vitalData objectForKey:key];

                for (NSMutableDictionary *bcmItem in weightData) {
                    double weightData = [bcmItem valueForKey:OMRONWeightKey];
                    double diastolicData = [bcmItem valueForKey:OMRONWeightBMIKey];
                    NSInteger pulseRateData = [bcmItem valueForKey:OMRONWeightRestingMetabolismKey];

                    //Implement the processing for weight data
                }
            }
        }
    }
}];
```

5.Example code for device informations

Below is a sample code for retrieve device information.

```
[[OmronPeripheralManager sharedManager] startDataTransferFromPeripheral:peripheral withUser:[self.users firstObject] intValue] wait:YES withType:category withCompletionBlock:^(OmronPeripheral *peripheral, NSError *error) {

    if(error == nil) {
        NSMutableDictionary *deviceInfo = peripheral.getDeviceInformation;

        NSString *displayName = [deviceInfo valueForKey:OMRONDeviceInformationDisplayNameKey];
        NSString *localName = [deviceInfo valueForKey:OMRONDeviceInformationLocalNameKey];
        NSString *uuid = [deviceInfo valueForKey:OMRONDeviceInformationUUIDKey];
        NSString *batteryRemaining = [deviceInfo valueForKey:OMRONDeviceInformationBatteryRemainingKey];
        NSString *unsentDataNum = [deviceInfo valueForKey:OMRONDeviceInformationUnsentDataNumKey];

        //Implement the processing for device information
    }
}];
```

6.Example code for configuration settings

Below is a sample code for setting a blood pressure devices.

```
// Blood Pressure Settings (Personal settings)
NSDictionary *bloodPressurePersonalSettings = @{
    OMRONDevicePersonalSettingsBloodPressureTruReadEnableKey : @(OMRONDevicePersonalSettingsBloodPressureTruReadOn),
    OMRONDevicePersonalSettingsBloodPressureTruReadIntervalKey : @(OMRONDevicePersonalSettingsBloodPressureTruReadInterval30) };

NSDictionary *settings = @{ OMRONDevicePersonalSettingsBloodPressureKey : bloodPressurePersonalSettings };

NSMutableDictionary *personalSettings = [[NSMutableDictionary alloc] init];
[personalSettings setObject:settings forKey:OMRONDevicePersonalSettingsKey];

NSMutableArray *deviceSettigs = [[NSMutableArray alloc] init];
[deviceSettigs addObject:personalSettings];

// Set Device Settings
peripheralConfig.deviceSettings = deviceSettigs;
// Set Configuration to New Configuration
[[OmronPeripheralManager sharedManager] setConfiguration:peripheralConfig];
```

Below is a sample code for setting a weight devices.

```
// Weight Settings (Personal settings)
NSDictionary *settings = @{
    OMRONDevicePersonalSettingsUserHeightKey: @"17800", //<Height (cm) x 100>
    OMRONDevicePersonalSettingsUserDateOfBirthKey: @"19901230",
    OMRONDevicePersonalSettingsUserGenderKey: @(OMRONDevicePersonalSettingsUserGenderTypeMale) };

NSMutableDictionary *personalSettings = [[NSMutableDictionary alloc] init];
[personalSettings setObject:settings forKey:OMRONDevicePersonalSettingsKey];

// Weight Settings
// Add other weight common settings if any
NSDictionary *weightCommonSettings = @{ OMRONDeviceWeightSettingsUnitKey : @(OMRONDeviceWeightUnitLbs) };
NSMutableDictionary *weightSettings = [[NSMutableDictionary alloc] init];
[weightSettings setObject:weightCommonSettings forKey:OMRONDeviceWeightSettingsKey];
NSMutableArray *deviceSettigs = [[NSMutableArray alloc] init];
[deviceSettigs addObject:personalSettings];
[deviceSettigs addObject:weightSettings];

// Set Device Settings
peripheralConfig.deviceSettings = deviceSettigs;

// Set Configuration to New Configuration
[[OmronPeripheralManager sharedManager] setConfiguration:peripheralConfig];
```