

# Unit Test Report for Digital Watch System

- Test Data
- Test Summary Report

## Project Team

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## Team Information

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## Table of Contents

1	Introduction .....	3
1.1	Objectives.....	3
1.2	References.....	3
2	Unit test case specification.....	3
2.1	Test case specification .....	3
2.2	Test data .....	3
2.3	Input specifications.....	3
2.4	Output specifications.....	3
3	Unit test summary report .....	3
3.1	Test summary report identifier.....	3
3.2	Evaluation.....	10

## 1 Introduction

### 1.1 Objectives

본 문서는 2012년 2학기 SE 수업의 T2가 개발한 Digital Watch System (DWS)을 Unit Testing 결과문서이다. T2가 정의한 Unit을 Testing을 수행하고 그 결과를 T2에게 통보하기 위해 작성한다..

### 1.2 References

DS-2012.T2.DWS.UTP-1.0

## 2 Unit test case specification

### 2.1 Test case specification

<오류! 참조 원본을 찾을 수 없습니다.>참조

### 2.2 Test data

<오류! 참조 원본을 찾을 수 없습니다.>참조

### 2.3 Input specifications

<오류! 참조 원본을 찾을 수 없습니다.>참조

### 2.4 Output specifications

<오류! 참조 원본을 찾을 수 없습니다.>참조

## 3 Unit test summary report

### 3.1 Test summary report identifier

Total Number of Suites	14
Total Number of Test Cases	32

### Listing of Registered Suites & Tests

		Initialize Function?	Cleanup Function?	Test Count	Active?
Suite	<b>DWS_UTC_215</b>	Yes	Yes	1	Yes
Test	DWS_UTC_215_00				Yes
Suite	<b>DWS_UTC_214</b>	Yes	Yes	1	Yes
Test	DWS_UTC_214_00				Yes
Suite	<b>DWS_UTC_213</b>	Yes	Yes	1	Yes
Test	DWS_UTC_213_00				Yes
Suite	<b>DWS_UTC_212</b>	Yes	Yes	1	Yes
Test	DWS_UTC_212_00				Yes
Suite	<b>DWS_UTC_211</b>	Yes	Yes	1	Yes
Test	DWS_UTC_211_00				Yes
Suite	<b>DWS_UTC_15B</b>	Yes	Yes	1	Yes
Test	DWS_UTC_15B_00				Yes
Suite	<b>DWS_UTC_15A</b>	Yes	Yes	1	Yes
Test	DWS_UTC_15A_00				Yes
Suite	<b>DWS_UTC_159</b>	Yes	Yes	1	Yes
Test	DWS_UTC_159_00				Yes
Suite	<b>DWS_UTC_158</b>	Yes	Yes	2	Yes
Test	DWS_UTC_158_00				Yes
Test	DWS_UTC_158_01				Yes
Suite	<b>DWS_UTC_157</b>	Yes	Yes	1	Yes
Test	DWS_UTC_157_00				Yes
Suite	<b>DWS_UTC_156</b>	Yes	Yes	2	Yes
Test	DWS_UTC_156_00				Yes
Test	DWS_UTC_156_00				Yes
Suite	<b>DWS_UTC_155</b>	Yes	Yes	1	Yes
Test	DWS_UTC_155_00				Yes
Suite	<b>DWS_UTC_154</b>	Yes	Yes	1	Yes
Test	DWS_UTC_154_00				Yes

Suite	DWS.UTC_153	Yes	Yes	17	Yes
Test	DWS.UTC_153_00				Yes
Test	DWS.UTC_153_01				Yes
Test	DWS.UTC_153_02				Yes
Test	DWS.UTC_153_03				Yes
Test	DWS.UTC_153_05				Yes
Test	DWS.UTC_153_06				Yes
Test	DWS.UTC_153_07				Yes
Test	DWS.UTC_153_08				Yes
Test	DWS.UTC_153_09				Yes
Test	DWS.UTC_153_10				Yes
Test	DWS.UTC_153_11				Yes
Test	DWS.UTC_153_12				Yes
Test	DWS.UTC_153_13				Yes
Test	DWS.UTC_153_14				Yes
Test	DWS.UTC_153_15				Yes
Test	DWS.UTC_153_16				Yes
Test	DWS.UTC_153_17				Yes

## Automated Test Run Results

Running Suite DWS.UTC_215		
Running test DWS.UTC_215_00 ...		Failed
<b>File Name</b>	C:\Users\dalee\workspace\src\Test01.c	<b>Line Number</b> 62
<b>Condition</b>	0	
Running Suite DWS.UTC_214		
Running test DWS.UTC_214_00 ...		Failed
<b>File Name</b>	C:\Users\dalee\workspace\src\Test01.c	<b>Line Number</b> 99
<b>Condition</b>	0	
Running Suite DWS.UTC_213		
Running test DWS.UTC_213_00 ...		Failed
<b>File Name</b>	C:\Users\dalee\workspace\src\Test01.c	<b>Line Number</b> 136
<b>Condition</b>	0	
Running Suite DWS.UTC_212		
Running test DWS.UTC_212_00 ...		Failed
<b>File Name</b>	C:\Users\dalee\workspace\src\Test01.c	<b>Line Number</b> 173
<b>Condition</b>	0	
Running Suite DWS.UTC_211		
Running test DWS.UTC_211_00 ...		Failed
<b>File Name</b>	C:\Users\dalee\workspace\src\Test01.c	<b>Line Number</b> 210
<b>Condition</b>	0	
Running Suite DWS.UTC_15B		
Running test DWS.UTC_15B_00 ...		Failed
<b>File Name</b>	C:\Users\dalee\workspace\src\Test01.c	<b>Line Number</b> 247
<b>Condition</b>	0	
Running Suite DWS.UTC_15A		
Running test DWS.UTC_15A_00 ...		Failed
<b>File Name</b>	C:\Users\dalee\workspace\src\Test01.c	<b>Line Number</b> 284
<b>Condition</b>	0	
Running Suite DWS.UTC_159		
Running test DWS.UTC_159_00 ...		Passed
Running Suite DWS.UTC_158		
Running test DWS.UTC_158_00 ...		Passed
Running test DWS.UTC_158_01 ...		Passed

Running Suite DWS.UTC_157		
Running test DWS.UTC_157_00 ...		Failed
<b>File Name</b>	C:\Users\dalee\hudson\jobs\T2_Testing\workspace\src\Test01.c	<b>Line Number</b> 453
<b>Condition</b>	(data_157_00.lapTime[0] == 0) && (data_157_00.lapTime[1] = 0) && (data_157_00.lapTime[2] = 0) && (data_157_00.stopwatchData[0] = 0) && (data_157_00.stopwatchData[1] = 0) && (data_157_00.stopwatchData[2] = 0)	
Running Suite DWS.UTC_156		
Running test DWS.UTC_156_00 ...		Failed
<b>File Name</b>	C:\Users\dalee\hudson\jobs\T2_Testing\workspace\src\Test01.c	<b>Line Number</b> 497
<b>Condition</b>	data.runningCondition == 0	
Running test DWS.UTC_156_00 ...		Failed
<b>File Name</b>	C:\Users\dalee\hudson\jobs\T2_Testing\workspace\src\Test01.c	<b>Line Number</b> 512
<b>Condition</b>	(data.runningCondition == 1) && (data.stopwatchData[0] == 1)	
Running Suite DWS.UTC_155		
Running test DWS.UTC_155_00 ...		Passed
Running Suite DWS.UTC_154		
Running test DWS.UTC_154_00 ...		Failed
<b>File Name</b>	C:\Users\dalee\hudson\jobs\T2_Testing\workspace\src\Test01.c	<b>Line Number</b> 603
<b>Condition</b>	0	

Running Suite DWS_UTC_153		
	Running test DWS_UTC_153_00 ...	Passed
	Running test DWS_UTC_153_01 ...	Passed
	Running test DWS_UTC_153_02 ...	Passed
	Running test DWS_UTC_153_03 ...	Passed
	Running test DWS_UTC_153_05 ...	Failed
<b>File Name</b>	C:\Users\Wdalee\W.hudson\W.jobs\WT2_Testing\W.workspace\W.src\WTest01.c	<b>Line Number</b> 758
<b>Condition</b>	data.month == 2	
	Running test DWS_UTC_153_05 ...	Failed
<b>File Name</b>	C:\Users\Wdalee\W.hudson\W.jobs\WT2_Testing\W.workspace\W.src\WTest01.c	<b>Line Number</b> 759
<b>Condition</b>	data.date == 1	
	Running test DWS_UTC_153_06 ...	Passed
	Running test DWS_UTC_153_07 ...	Failed
<b>File Name</b>	C:\Users\Wdalee\W.hudson\W.jobs\WT2_Testing\W.workspace\W.src\WTest01.c	<b>Line Number</b> 799
<b>Condition</b>	data.year == 2012	
	Running test DWS_UTC_153_07 ...	Failed
<b>File Name</b>	C:\Users\Wdalee\W.hudson\W.jobs\WT2_Testing\W.workspace\W.src\WTest01.c	<b>Line Number</b> 800
<b>Condition</b>	data.month == 3	
	Running test DWS_UTC_153_07 ...	Failed
<b>File Name</b>	C:\Users\Wdalee\W.hudson\W.jobs\WT2_Testing\W.workspace\W.src\WTest01.c	<b>Line Number</b> 801
<b>Condition</b>	data.date == 1	
	Running test DWS_UTC_153_08 ...	Failed
<b>File Name</b>	C:\Users\Wdalee\W.hudson\W.jobs\WT2_Testing\W.workspace\W.src\WTest01.c	<b>Line Number</b> 821
<b>Condition</b>	data.month == 4	
	Running test DWS_UTC_153_08 ...	Failed
<b>File Name</b>	C:\Users\Wdalee\W.hudson\W.jobs\WT2_Testing\W.workspace\W.src\WTest01.c	<b>Line Number</b> 822
<b>Condition</b>	data.date == 1	
	Running test DWS_UTC_153_09 ...	Failed
<b>File Name</b>	C:\Users\Wdalee\W.hudson\W.jobs\WT2_Testing\W.workspace\W.src\WTest01.c	<b>Line Number</b> 842
<b>Condition</b>	data.month == 5	
	Running test DWS_UTC_153_09 ...	Failed
<b>File Name</b>	C:\Users\Wdalee\W.hudson\W.jobs\WT2_Testing\W.workspace\W.src\WTest01.c	<b>Line Number</b> 843
<b>Condition</b>	data.date == 1	
	Running test DWS_UTC_153_10 ...	Failed
<b>File Name</b>	C:\Users\Wdalee\W.hudson\W.jobs\WT2_Testing\W.workspace\W.src\WTest01.c	<b>Line Number</b> 863
<b>Condition</b>	data.month == 6	



Running test DWS_UTC_153_10 ...		Failed
<b>File Name</b>	C:\Users\dalee\hudson\jobs\T2_Testing\workspace\src\Test01.c	<b>Line Number</b> 864
<b>Condition</b>	data.date == 1	
Running test DWS_UTC_153_11 ...		Failed
<b>File Name</b>	C:\Users\dalee\hudson\jobs\T2_Testing\workspace\src\Test01.c	<b>Line Number</b> 884
<b>Condition</b>	data.month == 7	
Running test DWS_UTC_153_11 ...		Failed
<b>File Name</b>	C:\Users\dalee\hudson\jobs\T2_Testing\workspace\src\Test01.c	<b>Line Number</b> 885
<b>Condition</b>	data.date == 1	
Running test DWS_UTC_153_12 ...		Failed
<b>File Name</b>	C:\Users\dalee\hudson\jobs\T2_Testing\workspace\src\Test01.c	<b>Line Number</b> 905
<b>Condition</b>	data.month == 8	
Running test DWS_UTC_153_12 ...		Failed
<b>File Name</b>	C:\Users\dalee\hudson\jobs\T2_Testing\workspace\src\Test01.c	<b>Line Number</b> 906
<b>Condition</b>	data.date == 1	
Running test DWS_UTC_153_13 ...		Failed
<b>File Name</b>	C:\Users\dalee\hudson\jobs\T2_Testing\workspace\src\Test01.c	<b>Line Number</b> 926
<b>Condition</b>	data.month == 9	
Running test DWS_UTC_153_13 ...		Failed
<b>File Name</b>	C:\Users\dalee\hudson\jobs\T2_Testing\workspace\src\Test01.c	<b>Line Number</b> 927
<b>Condition</b>	data.date == 1	
Running test DWS_UTC_153_14 ...		Failed
<b>File Name</b>	C:\Users\dalee\hudson\jobs\T2_Testing\workspace\src\Test01.c	<b>Line Number</b> 947
<b>Condition</b>	data.month == 10	
Running test DWS_UTC_153_14 ...		Failed
<b>File Name</b>	C:\Users\dalee\hudson\jobs\T2_Testing\workspace\src\Test01.c	<b>Line Number</b> 948
<b>Condition</b>	data.date == 1	
Running test DWS_UTC_153_15 ...		Failed
<b>File Name</b>	C:\Users\dalee\hudson\jobs\T2_Testing\workspace\src\Test01.c	<b>Line Number</b> 968
<b>Condition</b>	data.month == 11	
Running test DWS_UTC_153_15 ...		Failed
<b>File Name</b>	C:\Users\dalee\hudson\jobs\T2_Testing\workspace\src\Test01.c	<b>Line Number</b> 969
<b>Condition</b>	data.date == 1	
Running test DWS_UTC_153_16 ...		Failed
<b>File Name</b>	C:\Users\dalee\hudson\jobs\T2_Testing\workspace\src\Test01.c	<b>Line Number</b> 989
<b>Condition</b>	data.month == 12	

Running test DWS_UTC_153_16 ...		Failed			
<b>File Name</b>	C:\Users\dalee\workspace\src\Test01.c	<b>Line Number</b> 990			
<b>Condition</b>	data.date == 1				
Running test DWS_UTC_153_17 ...		Failed			
<b>File Name</b>	C:\Users\dalee\workspace\src\Test01.c	<b>Line Number</b> 1009			
<b>Condition</b>	data.year == 2013				
Running test DWS_UTC_153_17 ...		Failed			
<b>File Name</b>	C:\Users\dalee\workspace\src\Test01.c	<b>Line Number</b> 1010			
<b>Condition</b>	data.month == 1				
Running test DWS_UTC_153_17 ...		Failed			
<b>File Name</b>	C:\Users\dalee\workspace\src\Test01.c	<b>Line Number</b> 1011			
<b>Condition</b>	data.date == 1				
<b>Cumulative Summary for Run</b>					
Type	Total	Run	Succeeded	Failed	Inactive
Suites	14	14	- NA -	0	0
Test Cases	32	32	9	23	0
Assertions	117	117	80	37	n/a

### 3.2 Evaluation

T2은 SASD를 이용하여 SRS를 분석한 결과(SRA, SDS)가 구현과 정확히 일치하지는 않으나 Code를 참조하면 일부의 Testing이 수행 가능한 수준으로 시스템이 구현되었다. 일부 UT가 불가능한 부분의 수정/보완이 필요한 것으로 판단된다.

Identifier	Feature	Output
DWS.UTC.100	Process Spec 없음	
DWS.UTC.200	Process Spec 없음	
DWS.UTC.110	A 입력을 받으면 True 출력, 아니면 False	
DWS.UTC.120	B 입력을 받으면 True 출력, 아니면 False	
DWS.UTC.130	C 입력을 받으면 True 출력, 아니면 False	
DWS.UTC.140	D 입력을 받으면 True 출력, 아니면 False	
DWS.UTC.150	Process Spec 없음	
DWS.UTC.210	Process Spec 없음	
DWS.UTC.220	Process Spec 없음	
DWS.UTC.151	입력된 버튼 A, B, C, D에 따라 출력해 준다. – 정확한 값 정의가 되어있지 않음	int buttonFilter()
	Scanf로 받는 것을 강제 입력으로 수정하여 진행하려 했으나 내부 변수 파악까지 해야 하는 관계로 보류	
DWS.UTC.152	State Transition Diagram 확인 어려움	
DWS.UTC.153	Tick이 올 때마다 Time Data의 초에 +1 Time Data의 초가 60이 되면 0으로 초기화	void increaseSecond(DataP data)
DWS.UTC.153.00	DataPyear == 2012 DataPmonth == 1 DataP.date == 1 DataPhour == 0 DataPminute == 0 DataPsecond == 0	DataPyear == 2012 DataPmonth == 1 DataP.date == 1 DataPhour == 0 DataPminute == 0 DataPsecond == 1
DWS.UTC.153.01	DataPyear == 2012	DataPyear == 2012

	DataP.month == 1 DataP.date == 1 DataP.hour == 0 DataP.minute == 0 DataP.second == 59	DataP.month == 1 DataP.date == 1 DataP.hour == 0 DataP.minute == 1 DataP.second == 0
DWS.UTC.153.02	DataP.year == 2012 DataP.month == 1 DataP.date == 1 DataP.hour == 0 DataP.minute == 59 DataP.second == 59	DataP.year == 2012 DataP.month == 1 DataP.date == 1 DataP.hour == 1 DataP.minute == 0 DataP.second == 0
DWS.UTC.153.03	DataP.year == 2012 DataP.month == 1 DataP.date == 1 DataP.hour == 23 DataP.minute == 59 DataP.second == 59	DataP.year == 2012 DataP.month == 1 DataP.date == 2 DataP.hour == 0 DataP.minute == 0 DataP.second == 0
DWS.UTC.153.04 중복	DataP.year == 2012 DataP.month == 1 DataP.date == 1 DataP.hour == 23 DataP.minute == 59 DataP.second == 59	DataP.year == 2012 DataP.month == 1 DataP.date == 2 DataP.hour == 0 DataP.minute == 0 DataP.second == 0
DWS.UTC.153.05	DataP.year == 2012 DataP.month == 1	DataP.year == 2012 DataP.month == 2

	DataP. date == 31 DataP.hour == 23 DataP.minute == 59 DataP.second == 59	DataP. date == 1 DataP.hour == 0 DataP.minute == 0 DataP.second == 0
DWS.UTC.153.06	DataP.year == 2012 DataP.month == 2 DataP. date == 28 DataP.hour == 23 DataP.minute == 59 DataP.second == 59	DataP.year == 2012 DataP.month == 2 DataP. date == 29 DataP.hour == 0 DataP.minute == 0 DataP.second == 0
DWS.UTC.153.07	DataP.year == 2013 DataP.month == 2 DataP. date == 28 DataP.hour == 23 DataP.minute == 59 DataP.second == 59	DataP.year == 2012 DataP.month == 3 DataP. date == 1 DataP.hour == 0 DataP.minute == 0 DataP.second == 0
DWS.UTC.153.08	DataP.year == 2012 DataP.month == 3 DataP. date == 31 DataP.hour == 23 DataP.minute == 59 DataP.second == 59	DataP.year == 2012 DataP.month == 4 DataP. date == 1 DataP.hour == 0 DataP.minute == 0 DataP.second == 0
DWS.UTC.153.09	DataP.year == 2012 DataP.month == 4 DataP. date == 30	DataP.year == 2012 DataP.month == 5 DataP. date == 1

	DataP.hour == 23 DataP.minute == 59 DataP.second == 59	DataP.hour == 0 DataP.minute == 0 DataP.second == 0
DWS.UTC.153.10	DataP.year == 2012 DataP.month == 5 DataP.date == 31 DataP.hour == 23 DataP.minute == 59 DataP.second == 59	DataP.year == 2012 DataP.month == 6 DataP.date == 1 DataP.hour == 0 DataP.minute == 0 DataP.second == 0
DWS.UTC.153.11	DataP.year == 2012 DataP.month == 6 DataP.date == 30 DataP.hour == 23 DataP.minute == 59 DataP.second == 59	DataP.year == 2012 DataP.month == 7 DataP.date == 1 DataP.hour == 0 DataP.minute == 0 DataP.second == 0
DWS.UTC.153.12	DataP.year == 2012 DataP.month == 7 DataP.date == 31 DataP.hour == 23 DataP.minute == 59 DataP.second == 59	DataP.year == 2012 DataP.month == 8 DataP.date == 1 DataP.hour == 0 DataP.minute == 0 DataP.second == 0
DWS.UTC.153.13	DataP.year == 2012 DataP.month == 8 DataP.date == 31 DataP.hour == 23	DataP.year == 2012 DataP.month == 9 DataP.date == 1 DataP.hour == 0

	DataP.minute == 59 DataP.second == 59	DataP.minute == 0 DataP.second == 0
DWS.UTC.153.14	DataP.year == 2012 DataP.month == 9 DataP.date == 30 DataP.hour == 23 DataP.minute == 59 DataP.second == 59	DataP.year == 2012 DataP.month == 10 DataP.date == 1 DataP.hour == 0 DataP.minute == 0 DataP.second == 0
DWS.UTC.153.15	DataP.year == 2012 DataP.month == 10 DataP.date == 31 DataP.hour == 23 DataP.minute == 59 DataP.second == 59	DataP.year == 2012 DataP.month == 11 DataP.date == 1 DataP.hour == 0 DataP.minute == 0 DataP.second == 0
DWS.UTC.153.16	DataP.year == 2012 DataP.month == 11 DataP.date == 30 DataP.hour == 23 DataP.minute == 59 DataP.second == 59	DataP.year == 2012 DataP.month == 12 DataP.date == 1 DataP.hour == 0 DataP.minute == 0 DataP.second == 0
DWS.UTC.153.17	DataP.year == 2012 DataP.month == 12 DataP.date == 31 DataP.hour == 23 DataP.minute == 59	DataP.year == 2013 DataP.month == 11 DataP.date == 1 DataP.hour == 0 DataP.minute == 0

	DataP.second == 59	DataP.second == 0
DWS.UTC.154	Trigger될 때마다 Time Data의 Target 정보를 1씩 증가시킴.	
DWS.UTC.154.00	Target의 의미를 알 수 없기 때문에 어떤 값에 영향을 주는 지 정의할 수 없다. Trigger DataPtarget = ??? DataP.Time	(Target으로 지정된)DataP.Time ++
DWS.UTC.155	Trigger 되면 Time Data의 Target을 1 증가 시킴	void changeTargetValue(DataP data)
DWS.UTC.155.00	DataPtarget	DataP.Target ++
DWS.UTC.156	Trigger될 때마다 & 10ms 마다 Stopwatch Data.동작여부 에 따라 동작 중 – Stopwatch Data.동작여부 중단 동작 중 아님 – Stopwatch Data.동작여부 를 동작으로 수정 Stopwatch data.측정시간 값을 증가시킴	void increase10mSecond(DataP data)
DWS.UTC.156.00	Trigger DataP. runningCondition == 1 가동	DataP. runningCondition == 0 중단
DWS.UTC.156.01	Trigger DataP. runningCondition == 0 중단	DataP. runningCondition == 1 가동 DataP. stopwatchData += 10ms
DWS.UTC.157	Trigger되면 Stopwatch Data.측정시간 을 0으로 초기화함.	
DWS.UTC.157.00	Trigger DataP	Data.lapTime == 0 data.stopwatchdata == 0
DWS.UTC.158	Trigger 되면 Stopwatch data.측정시간 을 읽어와 Laptime Data에 저장. Laptime Data.Display우선순위 값을 변경 (값이 어떻게 변경?)	void saveLaptime(DataP data)
DWS.UTC.158.00	Trigger data->stopwatchData[0] = 5; data->stopwatchData[1] = 9;	data->lapTime[0] == 5 data->lapTime[0] == 9 data->lapTime[0] == 2



	data->stopwatchData[2] = 2;	Data.lapdisplay == 1 (code로부터 알아옴)
DWS.UTC.158.01	Trigger data->stopwatchData[0] = 27; data->stopwatchData[1] = 44; data->stopwatchData[2] = 94;	data->lapTime[0] == 27 data->lapTime[0] == 44 data->lapTime[0] == 94 Data.lapdisplay == 1 (code로부터 알아옴)
DWS.UTC.158.02	Trigger data->stopwatchData[0] = 234; data->stopwatchData[1] = 546; data->stopwatchData[2] = 334;	data->lapTime[0] == 234 data->lapTime[0] == 546 data->lapTime[0] == 334 Data.lapdisplay == 1 (code로부터 알아옴)
DWS.UTC.159	Trigger 되면 Laptime Data.Display 우선순위를 낮게 변경	void loadStopwatchData(DataP data)
DWS.UTC.159.00	Spec만으로 I/O 결과를 유추할 수 없음. Code를 보고 생성 Trigger DataP	DataP->lapDisplay = 0
DWS.UTC.15A	Trigger되면 Mode Data를 변경 (Mode Data를 어떻게 변경..?)	void modeSelect(DataP data, int button)
	구현 내용과 spec이 다름.	
DWS.UTC.15B	Trigger되면 2초간 Backlight Data를 (어떤 데이터 값일?) 출력함	void backlightOn(DataP data)
DWS.UTC.15B.00	Tick을 자체적으로 만들어서 사용함.	
DWS.UTC.211	State Transition Diagram 확인 어려움	
DWS.UTC.212	Enable 되면 주어진(?) Data들을 Timekeeping의 형태(?)로 출력	
	Interface 미구현	
DWS.UTC.213	Enable 되면 주어진(?) Data들을 Stopwatch의 형태(?)로 출력	
	Interface 미구현	
DWS.UTC.214	Enable 되면 주어진(?) Data들을 Time setting의 형태(?)로 출력	
	Interface 미구현	

DWS.UTC.215	Process Specification 상의 불분명함 존재.	
	Interface 미구현	