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| Input contribution  Use case | |
| Use Case Title:\* | Use case for information correlation |
| Group Name:\* | WG1 |
| Source:\* | BOE |
| Contact: | Albert Zhao, zhaojunjie111@boe.com.cn |
| Date:\* | 2017-11-13 |
| Abstract:\* | Propose a use case for information correlation |
| Agenda Item:\* | REQ #32 |
| Work item(s): | WI-0015 |
| Document(s)  Impacted\* | TR-0001 |
| Intended purpose of  document:\* | Decision  Discussion  Information  Other <specify> |
| Decision requested or recommendation:\* | Discuss and make a decision to agree this input contribution. |
| Template Version:23 February 2015 (Dot not modify) | |

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## Title

Use case for information correlation

### Description

Different devices have different functions, but these functions may produce related information. For example, a smart watch can be used to monitor the heart rate, number of walks etc., in the meanwhile, a treadmill can be used to monitor the speed, distance, calories burned, when these two devices refer to the same person, then the dates produced by these two devices are highly related, since the dates are all about the health of the person.

### Source

BOE Technology Group

### Actors

* Smart Watch Device: has function to monitor the heart rate, number of walks of the End Users；
* Treadmill Device: has function to monitor the speed, distance, calories burned of the End Users.
* Healthcare Management Platform: manage the healthcare related device and store the healthcare related information.
* End Users: the end user of the devices, including the Smart Watch Device user(s) and Treadmill Device user(s).

### Pre-conditions

Smart Watch Device has the capability to identify itself to the Treadmill Device, for example, using the NFC/Bluetooth technology to discovery the Treadmill device and connect to the Treadmill Device.

### Triggers

N/A

### Normal Flow

User A

User A

Health Management Platform

Treadmill Device

Smart Watch Device

1. Smart Watch Device and Treadmill Device register to Healthcare Management Platform.
2. When User A start to use the Smart Watch Device, then Smart Watch Device can send heart rate information of the User A to the Healthcare Management platform;
3. User A use the Smart Watch Device to identify himself to the Treadmill Device;
4. Smart Watch Device initiate an information correlation request to the Healthcare Management platform;
5. Healthcare Management platform correlates the information of the Smart Watch Device and Treadmill Device;
6. User A start to use the Treadmill Device, the Treadmill start to send calories burned information of User A to the Healthcare Management platform;
7. User A stop to use the Treadmill Device;
8. The Treadmill Device initiate an information uncorrelation request to the Healthcare Management platform;
9. Healthcare Management platform uncorrelated the information of the Smart Watch Device and Treadmill Device.

### Alternative flow

N/A

### Post-conditions

N/A

### High Level Illustration

### Potential requirements

1. oneM2M should support correlate the information of different entities.
2. oneM2M should support uncorrelated the information of different entities.