**IEEE P2672**

**Mass Customization 2nd F2F Meeting**

**Shanghai**

**April 11th-12th, 2018**

**Chair: Sha Wei**

**Secretary: Xiaohu Wang**

* **Day 1, [Date:** [**Wednesday**](app:ds:Wednesday)**, 11th April 2018]**

1. **Call to Order**

* The meeting was called to order at 9:00 am.
* All present introduced their self and declared their affiliation.

1. **Approval of agenda**

* Chair Sha Wei present the meeting agenda.
* *Motion#1*

*Approve the meeting agenda.*

*Moved: Xiaohu Wang, Haier*

*Seconded: Meilin Lv, OUC*

*Motion passed by voice vote without opposition.*

1. **IEEE Patent Policy Review**

* Chair Sha Wei present the patent policy.
* All present understand and subscribe to the policy.

1. **Technical Discussion**

* Overview of Project Outline Draft document.
* Introduction of current progress by team members.
* Review and answer any questions from 2nd F2F Meeting.
* Discussion on emerging issues.
* Standardization Tutorial by Bill Ash.
* Conclusion of F2F meeting as followed:

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| **Chapter detail** | **Decision** | **Related Member** | **Due-time** |
| Chapter 4 Architecture | Action1: Add *Feature of Mass Customization;*  Action 2: modify the architecture diagram:  Left column: IT security, cyber security, and functional safety, privacy  Right column: Identification, communication, data management, edge computing, cloud computing, and big data - data analytics.  Functional viewpoints: add more functional modules  Implementation viewpoints: CAX, MES, | All members | June 2nd |
| Chapter 5 Verticals | Identify the difference between mass customization and mass production, and customized requirements in each industry.  Action 3: remove this chapter, and discuss the verticals in use cases June 2nd | All members | June 2nd |
| Chapter 6 Customized requirements | Try to make the statement more general to all kinds of products in discrete manufacturing and process manufacturing after collecting different customized requirements of various industries. (CESI)  More customized requirements from vehicle, apparels and furniture. (CESI)  Possible outline: (Haier, Easycare, EVOC,CESI)  Definition of each customized requirements(Haier, Easycare, EVOC)  Examples of discrete and process manufacturing  Components: ( EVOC) | All members | June 2nd |
| Chapter 7 Usage Viewpoints | Action 4: identify the location of the 10 entities with major activities (in the diagram of lifecycle-system hierarchy) | All members | June 2nd |
| Possible outline | Role of each department (Block): Examples: Sensor function (IEC 29184-3), or UML  Identify the event triggered from the entity, which includes events with the third-party, supplier, also the events inside the factory. (Lines)  Shall we consider other stakeholders outside the factory? Consider them with activities. | All members | June 2nd |
| Chapter 8 Functional Viewpoints | According to IEC 62264, for functional viewpoints, we need to address both the functional modules and the information flow  Relationship between departments and functional modules. | All members | June 2nd |
| Chapter 9 Implementation Viewpoints | Systems to support each functional module | All members | June 2nd |
| Chapter 10 Digital Infrastructure | Mass customization is a data-driven process. Identify the ICT used through data lifecycle  Important techs: identification tech, IoT, big data, cloud computing, edge computing, IT security and safety  Changes of digital infrastructure on architecture diagram  Acquisition, management | All members | June 2nd |
| General suggestion | A leading sentence to address what we discussed in IEEE-SA |  | June 2nd |

**Day 2, [Date: Thursday, 12th April 2018]**

1. **Call to Order**

* The meeting was called to order at 9:00 am.

1. **Technical discussion and task allocation**

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| **Chapter detail** | **Decision** | **Related Member** | **Due-time** |
| Chapter 4: Architecture: | Left column: add privacy  Right column: big data - data analytic.  Add some text to describe the architecture. | Haier | June 2nd |
| Chapter 6: Usage viewpoints: | Remove warehousing department  Arrow between logistics department and customers, R&D department and customers, purchasing department and customers  Purchasing department: sourcing department  Remove IT department, and only introduce its role in the text  Quality department shall span to logistics  Carefully address the positions of each department  Add the events triggered by each department  Arrow between sourcing department and R&D department  Double check the arrows (all participants) | Haier |
| Chapter 7: Functional viewpoints | Consistent with the locations of usage viewpoints  Add information flows | Haier, Easycare, OUC,EVOC | June 2nd |
| Chapter 8: Implementation viewpoints: | Using the systems to illustrate implementation, and make sure the locations of systems are consistent with the departments and functional modules  Interaction system: CRM / demand interaction system  Task center: SAP-SD / PLM  Change the IoT to ERP?? | Haier, Easycare, OUC, EVOC? | June 2nd |
| Chapter 9: Digital Infrastructure: |  | OUC, Haier | June 2nd |

1. **Remind Date and Location of Next Meeting**

* Next telephone meeting will be held in June 5th, from 2:00 to 3:30 pm. The conference call tool is going to be changed to QQ or ZOOM, it’s to be defined. We will briefly discuss about Chapter 4-6 then.
* Next face to face meeting will be held from July 24th to 25thin Beijing, the accurate location is to be defined.