Software Specification Proposal

Alarm Event

**Revision History**

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| **Revision** | **Date** | **Notes** | **Owner** |
| 1.0 | 2018/11/20 | Software proposal for customization alarm event | Luke.Su, Dylan.Chang |
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| **Project (\*)** | Application for 東正 customize event message | **Apply Date (\*)** | | 2018/11/08 |
| **Customer (\*)** | 東正 | **Business (\*)** | | WISE point |
| **PM (\*)** | Kurt.Ou | **AE (\*)** | | Sammy.Hsu |
| **Platform (\*)** | EIS-D210W | **OS (\*)** | | Windows |
| **Peripheral** | **Name** | **Purpose** | | |
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| **User /**  **Functional Requirements** | **Description** | | **Evaluate Solution** | |
| Request for an application to fulfill customized event message from PLC | | Provide an application to send customized event message | |
| Dashboard panel to show these alert messages | | Customization event message table | |
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| **Others** | | | | |
| 1. Please do not affect existing Modbus plugin 2. PLC user manual “MANY1202A.EN\_AIRMASTER™ Q1 SOFTWARE MANUAL\_ZH(T)\_E08.pdf” | | | | |
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1. **Customer’s requirement analysis**

**(\*): Must**

1. **Software Specification**

Project Scope、System Structure、System Scope、System Function、Advantech’s suggestion for Customer’s requirement.

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| **EdgeSense**   * **“Alarm Event” Function:**    1. Get ModbusHandler data from MQTT broker.   2. To check the “Error\_Code” value as condition of sending event message.   3. If the “Error\_Code” value is equal to error list ( modbus address (Hao updated)--CMC.xlsx ) and send an alarm event message ( EventNotify Format )to local MQTT Broker.   4. "Alarm event" only sends event messages once if received the same "Error\_Code".   5. RMM-Agent will retransfer event to WISE-PaaS/RMM. |
| * **Software Architecture:**     **Figure 1.**   * **Format of Event Notify:** * Follow the WISE-PaaS/RMM event format in JSON * Example of Message Code: A:0030   {  "susiCommData":  {  "commCmd":2059,  "requestID":2001,  "agentID":"Modbus\_Handler",  "handlerName":"general",  "sendTS":1541992952337,  "eventnotify":  {  "subtype":"TC\_AC",  "msg":"Door Open",  "severity":4,  "handler":"Modbus\_Handler",  "extMsg":  {  "n": "Warning: Enclosure door open",  "ErrorCode":"A:0030",  "eventID":242  }  }  }  }  Code Type map to Advantech event Severity Level:   |  |  | | --- | --- | | Code Type | Advantech Event Severity Level | | A: Warning | Severity\_Warning ( 4 ) | | E:Immediate stop, S: Start inhibit, R: Run inhibit | Severity\_Emergency ( 0 ) |  * **Message code & text table:**        * **Modbus’s Error Code & Message Code**   Refer to attachment “modbus address (Hao updated)--CMC.xlsx” |
| **WISE-PaaS/EdgeSense**   * **Event table panel for Error code:**   1. Panel : Base on Grafana table panel   2. Name : Error Code Table   3. Column : Time, Error Code, Reason.   4. Data Source : RMM-Event-SimpleJson.     **Figure 2.** |

1. **Efforts of Software Development/Customization**

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| **Tasks** | **Comment** | **Man-days** |
| Design Architecture | Software architecture design | 2 |
| Implement – ( EdgeSense ) | Develop a service to send customization event. | 4 |
| Implement – ( WISE-PaaS ) | Develop a Grafana table panel for error code. | 8 |
| Document | Create user guide in Wiki. | 1 |
| Functional verification | QA test | 5 |
| **Total** |  | **20** |

1. **Project Management**

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| **Schedule plan (Optional)** | 20 working days after 2018/11/05 |
| **Proposal Valid** | This proposal will be valid before 2018/12/15 |
| **Expense** | WISE Point: 600 |
| **Warranty** | 6 months |
| **Attachment** | 1. modbus address (Hao updated)--CMC.xlsx, 2. MANY1202A.EN\_AIRMASTER™ Q1 SOFTWARE MANUAL\_ZH(T)\_E08.pdf |

1. **Signature**

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| **Customer:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **By (Signature):** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Name (Print):** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Title:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Address:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Tel:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **Advantech Co., Ltd.**  **By (Signature):** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Name(Print):** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Title:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Address**:2F., No.27, Wende Rd., Guishan Dist., Taoyuan City 333, Taiwan, R.O.C  **Tel**: 886-2-2792-7818 |
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