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| --- | --- |
| Use Case Name | Define Process |
| System Boundary | RingleFlow Process Definition System |
| Pre Condition |  |
| Brief Description | 利用UML活動圖建立Workflow的定義 |
| Basic Course of Event | 1. Process Designer 選擇將某個UML活動圖儲存至系統 2. 系統剖析UML活動圖 3. 使用者提供[Rule相關資訊] 4. 系統將[Process Definition]提供給RingleFlow Routing System |
| Requirement | Rule相關資訊:  Rule名稱，Rule Class，Rule DLL。  Process Definition:  XML定義，包含Process Definition Name, Activity Name, Partition以及Rule |
| Extension Point |  |

Main Window

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| --- | --- |
| Use Case Name | Start Laser Marking |
| System Boundary | Laser Marker Main System |
| Pre Condition |  |
| Brief Description | Trigger Marking process |
| Basic Course of Event | 1. User clicks start button 2. Include<<start dust collector>> 3. System triggers laser marking process of Keyence 4. System receives marking finishing signal 5. Include<<stop dust collector>> |
| Requirement |  |
| Extension Point |  |

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| --- | --- |
| Use Case Name | start dust collector |
| System Boundary | Laser Marker Main System |
| Pre Condition | Dust collector power is on(hardware) |
| Brief Description | Turn on dust collector |
| Basic Course of Event | 1. System turn on dust collector |
| Requirement |  |
| Extension Point |  |

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| --- | --- |
| Use Case Name | stop dust collector |
| System Boundary | Laser Marker Main System |
| Pre Condition | Dust collector power is on(hardware) |
| Brief Description | Turn off dust collector |
| Basic Course of Event | 1. System turn off dust collector |
| Requirement |  |
| Extension Point |  |

Common Setting Window

|  |  |
| --- | --- |
| Use Case Name | Auto loading Parameters from main window |
| System Boundary | Laser Marking Common Setting Window |
| Pre Condition | User login and switch to Common Setting window |
| Brief Description | When user switches to Common Setting Window, parameters from main window could be loaded automatically if those parameters exist in main window. |
| Basic Course of Event | 1. User switches from main window to Common Setting Window 2. System loads the existed parameters from main window    1. If no parameter exist, then all columns of parameters are space. |
| Requirement | [Parameters of Setting]:  See Laser Marking Communication Manual |
| Extension Point |  |

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| --- | --- |
| Use Case Name | Set common setting |
| System Boundary | Laser Marking Common Setting Window |
| PreCondition | User login and switches to Common Setting Window |
| Brief Description | Set the parameter of common setting |
| Basic Course of Event | 1. User could key in and change **[ parameters of setting]** in window 2. System saves the changes on local system temporarily |
| Requirement | Parameters of Setting:  See Laser Marking Communication Manual |
| Extension Point |  |

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| --- | --- |
| Use Case Name | Download common setting from LM |
| System Boundary | Laser Marking Common Setting Window |
| Pre Condition | User login and switches to Common Setting Window |
| Brief Description | Download parameter of common setting from LM and show in local PC |
| Basic Course of Event | 1. User clicks “download” button to downloads [parameter s of setting] from Laser Marker 2. System saves the download on local PC temporarily and show **[parameters of setting]** in the window 3. System could create correspond item for downloaded data |
| Requirement | Parameters of Setting:  Parameters for common setting |
| Extension Point |  |

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| --- | --- |
| Use Case Name | Upload common setting to LM |
| System Boundary | Laser Marking Common Setting Window |
| Pre Condition | User login and switches to Common Setting Window |
| Brief Description | Download parameter of common setting from LM and show in local PC |
| Basic Course of Event | 1. User clicks “upload” button to upload [parameters of setting] from local system to Laser Marker 2. System uploads current parameters to LM    1. If columns of parameter are null/space/illegal, throw alarm without uploading |
| Requirement | Parameters of Setting:  Parameters for Common Setting |
| Extension Point |  |

|  |  |
| --- | --- |
| Use Case Name | Upload common setting to LM |
| System Boundary | Laser Marking Common Setting Window |
| Pre Condition | User login and switches to Common Setting Window |
| Brief Description | Download parameter of common setting from LM and show in local PC |
| Basic Course of Event | 1. User clicks “upload” button to upload [parameters of setting] from local system to Laser Marker 2. System uploads current parameters to LM    1. If columns of parameter are null/space/illegal, throw alarm without uploading |
| Requirement | Parameters of Setting:  Parameters for Common Setting |
| Extension Point |  |