Sprint Review (06.23~07.06)

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| Continuous | |
| Improved CVCD (MWS, Bectron, NearLSS) | |
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| Microservice Open API generator / Docker container builder Not Start Ma Yong (Ext) | |
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| SPIDR Code generator in SPIDR / Executor (Long-term Plan) Continuous Qu Yao No Fast solution - Run CREEM Workflow in CREEM (Py Deployment) Done Zhu Yi Peng SPIDR & Ra (SDIQ) integration Continuous Zhu Yi Peng SPIDR Rang pup and hand-over Continuous Lu Ting SPIDR CREEM Workflow Parser (CREEM -> Node/Link), data + device Done Lu Ting / Wang Ting CREEM Fa Template / Generated Python Sample for 3rd Party Vendor Done Zhou Zhen Hua No CREEM Specification & Base Schema Continuous Zhou Zhen Hua No CREEM Specification & Base Schema Continuous Zhou Zhen Hua No CREEM Specification & Base Schema Continuous Zhou Zhen Hua No Will Story is plant Layer Integration Data Layer integration alignment On Demand Ji Yu Kai / Zhou Zhen Hua No Will Story is plant Layer integration Data Layer integration alignment On Demand Ji Yu Kai / Zhou Zhen Hua No Will Story is plant Layer integration alignment Data Layer integration alignment On Demand Ji Yu Kai / Zhou Zhen Hua No Will Story is plant Layer integration alignment Data Layer integration alignment On Demand Ji Yu Kai / Zhou Zhen Hua No Will Story is plant Layer integration alignment Data Layer integration alignment No Demand Ji Yu Kai / Zhou Zhen Hua No Will Story is plant Layer integration of Mill Story is plant Layer integration No Story Zhang Chuan Yu No No Will Story is plant Investigate more parameters in Robotic SDK Done Zhang Chuan Yu No No Will Story Zhang Chuan Yu Wing Rui Zhang Ren (Intern) No Xu Fang Ren (Intern) No Xu | |
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| Product Manager (Customer Visit, FR) Continuous Liao Liang | |
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| Product Owner (Product Backlog, Scrum Meetings) Continuous Liao Liang | |
| | |
| Scrum Master (Sprint Backlog, Gitlab, Scrum Meetings) Continuous Zhou Zhen Hua / Wang Ting | |
| Architecture (WMB, SPIDR, CREEM, RA and Danfoss Use Case) Continuous Zhou Zhen Hua | |
| DevOps & CI/CD (Siemens Website) Support - http://creem.siemens.net Done Hartanto Victor | |
| Patent (CREEM and Low-code Appearance) Continuous Zhou Zhen Hua | |

Sprint Planning (07.07~07.20)

| Sub System | Task | Status | Main Contributor | Impediment & Risk |
|---------------------------|--|------------|----------------------------|---|
| WMB | Device & FB Binding | On Track | Wang Ting | Resource Risk (Additional ADV |
| | Communication parameter settings Panel for Devices continue | On Track | Wang Ting | resources will be ready since 07.16) |
| | CREEM / Python FB import - Openness | On Track | Wang Ting | |
| | WebSocket connection to SPIDR/RA - Device Discovery | On Track | Huang Xin | |
| | CREEM Workflow Parser (GoJS -> CREEM), add data links | Continuous | Wang Ting | |
| | Improved AWS Deployment (Lambda, Serverless) for NestJS version | Continuous | Huang Xin | |
| | Cross-platform local deployment Windows/Linux/MacOS (Electron) | On Track | Song Zhen Yang (Ext) | |
| | Expression Editor in Parameter Panel for Logics, continue | On Track | Huang Xin | |
| | IQC and other advanced decorators; pre-interpreter, continue | On Track | Wang Ting | |
| | Continue low-code paradigm / CREEM support | Continuous | Zhou Zhen Hua | |
| | Improved CI/CD (AWS, Electron, NestJS) | Continuous | Huang Xin | |
| | Device Tree & FB Logical Node binding | On Track | Wang Ting | |
| | Interview SSI outsourcing for GoJS in SuZhou | On Track | Wang Ting | |
| | Dashboard sample and other UI features. | On Track | Zhang Dong Qian (Ext) | |
| | 118N from CREEM (zh-CN / en-US) | On Track | Wang Ting | |
| | Fixe reported issues in existing features (SystemConfiguration / Tags) | On Track | Wang Ting | |
| | SubWorkflow design / implementation | Not Start | Wang Ting / Zhou Zhen Hua | |
| WMB | Microservices Builder framework (e.g. FastAPI) continue | Continuous | Ma Yong (Ext) | No |
| (Microservice Builder) | CREEM Python Generator GUI | On Track | Ma Yong (Ext) | |
| | Minimum openness CREEM definition and doc | On Track | Zhou Zhen Hua | |
| SPIDR | Refactored SPIDR / Executor (Long-term Plan) | On Track | Qu Yao | No |
| | SPIDR hand over (Yi Peng's original version) | On Track | Lu Ting | |
| | SPIDR Advisor - Original version | On Track | Zhu Yi Peng | |
| | SPIDR: CREEM Workflow Parser (CREEM -> Node/Link), data + device | On Track | Lu Ting | |
| CREEM | CREEM Instance optimization(FB Rest, DevDesc Rest) | On Track | Zhou Zhen Hua | No |
| | CREEM Specification & Base Schema | Continuous | Zhou Zhen Hua | |
| Data Layer Integration | Continue Data Layer integration alignment | On Demand | Ji Yu Kai / Zhou Zhen Hua | No WMB story is planned in Data Layer sprint until 07.16 |
| integration | Data Layer interface | Pending | Qu Yao | Layer sprint until 07.10 |
| | Preliminary Data Layer Interface & SDK Data (more data) | On Track | Qu Yao / Zhang Chuan Yu | |
| RA | RA (SDK) interfaces with CREEM & SPIDR continue | On Track | Zhang Chuan Yu | No |
| | Investigate more parameters in Robotic SDK continue | On Track | Zhang Chuan Yu | |
| | RA (SDK) interfaces with WMB Lead Through (WebSocket) | Not Start | Zhang Chuan Yu | |
| 3D Simulation (Demo | 3D visualization of WMB workflow for demo purpose (ThreeJS) | Continuous | Wang Rui | No |
| purpose) | 3D visualization deployment on AWS | On Track | Huang Xin | |
| | Solidworks Danfoss 3D models created for ThreeJS | Continuous | Xu Fang Ren (Intern) | |
| | 3D visualization & WMB integration (iframe, postMessage) | Not Start | Wang Rui / Wang Ting | |
| | CREEM Cyclic for independent 3D visualization parser | On Track | Wang Rui / Zhou Zhen Hua | |
| Danfoss | IPC (AppComposer, USB Dongle, SPIDR/Forte) for Danfoss | On Track | Hu Ye / Liao Liang | Technical Risk (AppComposer Frontend still has potential issues |
| | Atlas torque wrench / Barcode scanner python driver - fix issues | On Track | Hu Ye / Li Ji | for Vision.) |
| | Python driver code standardize / Python-opcua investigation | On Track | Lu Ting | |
| | AppComposer Vision (Hikon Camera, ImageSource as a backup) | On Track | Yao Wei | |
| | MES interface and Formula Table architecture further | Not Start | Liao Liang / Zhou Zhen Hua | |
| | Danfoss Newest Workflow -> WMB FBTD Low-code | On Track | Liao Liang / Zhou Zhen Hua | |
| General | Business Support | Continuous | Huang Chang Xia | No |
| | Product Manager (Customer Visit, FR) | Continuous | Liao Liang | |
| | Product Owner (Product Backlog, Scrum Meetings) | Continuous | Liao Liang | |
| | Scrum Master (Sprint Backlog, Gitlab, Scrum Meetings) | Continuous | Zhou Zhen Hua / Wang Ting | |
| | Architecture (WMB, SPIDR, CREEM, RA and Danfoss Use Case) | Continuous | Zhou Zhen Hua | |
| | DevOps & CI/CD (Siemens Website) Support | On Demand | Hartanto Victor | |
| | Patent (CREEM and Low-code Appearance) | On Track | Zhou Zhen Hua | |

Sprint Review (06.09~06.22)

| | Sub System | Task | Status | Main Contributor | Impediment & Risk |
|----------|---------------------------|---|------------|---|---|
| ✓ | WMB | Device Library CREEM Parser / TreeView UI | Done | Wang Ting | Resource Risk (We will interview |
| ✓ | | Device Tree (System Configuration) CREEM Parser / Tree UI | Done | Wang Ting | outsourcing both in Shanghai and Suzhou. Lu Ting team will have on colleague to support - on board 07.05.) |
| ✓ | | Parameter Panel (Port value editor) - data from CREEM | Done | Huang Xin | |
| ✓ | | Device Tree & FB Library binding, first version | Done | Wang Ting | |
| | | CREEM Workflow Parser (GoJS -> CREEM), add data links | Not Start | Wang Ting | |
| | | Improved AWS Deployment (Lambda, Serverless) for NestJS version | Not Start | Huang Xin | |
| | | Cross-platform local deployment Windows/Linux/MacOS (Electron) | Not Start | Zhang Dong Qian (Ext) | |
| | | Expression Editor in Parameter Panel for Logics (first edition) | Not Start | Huang Xin | |
| ✓ | | IQC and other advanced decorators; pre-interpreter | Done | Wang Ting | |
| | | NestJS refactoring to store FBs in file system | Not Start | Huang Xin / Wang Ting | |
| ✓ | | Device Library / Tree design and CREEM for WMB | Done | Zhou Zhen Hua | |
| ✓ | | Continue low-code paradigm (New FBTD for Danfoss use case) | Done | Zhou Zhen Hua | |
| ✓ | | Improved CI/CD (AWS, Electron, NestJS) | Continuous | Huang Xin | |
| ✓ | | Interview outsourcing for JavaScript (ES) foundation | Continuous | Wang Ting | |
| ✓ | | Interview outsourcing for React / CSS component | Done | Huang Xin | |
| | | CSS / Components improvements | Not Start | Zhang Dong Qian (Ext) | |
| | | I18N from CREEM (zh-CN / en-US) | Not Start | Wang Ting | |
| ~ | | Generate Tags automatically for GOTO and Work Instruction generation | Done | Wang Ting | |
| ✓ | | Documentation (WIKI) for customized components | Done | Huang Xin | |
| | | SubWorkflow design / implementation | Not Start | Wang Ting / Zhou Zhen Hua | |
| | WMB | Microservice Builder framework (e.g. FastAPI) | On Track | Ma Yong (Ext) | No |
| | (Microservice Builder) | Open API generator / Docker container builder | Not Start | Ma Yong (Ext) | |
| | Danaciy | CREEM Python Generator | Not Start | Ma Yong (Ext) | |
| ✓ | SPIDR | Code generator in SPIDR / Execute CREEM workflow in SPIDR | Done | Qu Yao | No. |
| ✓ | | WebSocket connection using Tornado framework | Done | Qu Yao | |
| ✓ | | Fast solution - Run CREEM Workflow in CREEM (event only) | Done | Zhu Yi Peng | |
| | | SPIDR & RA (SDK) integration | Not Start | Zhu Yi Peng | |
| | | SPIDR ramp up and hand-over | On Track | Lu Ting | |
| | | SPIDR: CREEM Workflow Parser (CREEM -> Node/Link), data + device | Not Start | Wang Ting | |
| ✓ | | Interview outsourcing for SPIDR (Python) | Done | Zhou Zhen Hua | |
| ✓ | CREEM | CREEM Architecture & Communication | Continuous | Zhou Zhen Hua | No |
| ✓ | | CREEM Instance (FB Rest, DevDesc Rest, Project) | Done | Zhou Zhen Hua | |
| ✓ | | CREEM optimization for WMB & Part of schema | Done | Zhou Zhen Hua | |
| | Data Layer | Continue Data Layer integration alignment | On Demand | Ji Yu Kai / Zhou Zhen Hua | No WMB story is planned in Data |
| | Integration | Data Layer interface | Pending | Qu Yao | Layer sprint until 07.16 |
| ✓ | | Preliminary Data Layer Interface & SDK Data (Joint points data) | Done | Qu Yao | |
| ✓ | RA | First edition of RA Container framework (for SDK) | Done | Zhang Chuan Yu | No |
| ✓ | | Win10 WSL Deployment | Done | Zhang Chuan Yu | |
| | | RA (SDK) interfaces with WMB / SPIDR | Not Start | Zhang Chuan Yu | |
| ✓ | CCT Review | CCT Review Part 3 Presentation | Done | Chen Yi Jia | Done |
| ✓ | Part 3 | CCT Review Part 3 Requirement Further Discussion | Done | Huang Chang Xia / Chen Yi Jia / Liao Liang / Zhou Zhen Hua | |
| | Danfoss | IPC (AppComposer, USB Dongle, SPIDR/Forte) for Danfoss | Risk | Hu Ye / Liao Liang | Technical Risk (AppComposer |
| ~ | | Build Danfoss/Aubo test environment in Beijing Lab | Done | Hu Ye / Li Ji | V48/49 has issues in FBs for Forte SPIDR version is not tested.) |
| ~ | | AppComposer X-Function (Keyence Barcode Scanner) | Done | Hu Ye / Li Ji | |
| | | AppComposer Vision (Hikon Camera, ImageSource as a backup) | Risk | Yao Wei | |
| | | Vision service deployment in Windows test | Not Start | Yao Wei | |
| | | MES interface and Formula Table architecture further | On Track | Liao Liang / Zhou Zhen Hua | |
| | | Danfoss Newest Workflow -> WMB FBTD Low-code | On Track | Liao Liang / Zhou Zhen Hua | |
| ✓ | General | Business Support | Continuous | Huang Chang Xia | No |
| V | | Product Manager (Customer Visit, FR) | Continuous | Liao Liang | |
| V | | Product Owner (Product Backlog, Scrum Meetings) | Continuous | Liao Liang | |
| V | | Scrum Master (Sprint Backlog, Gitlab, Scrum Meetings) | Continuous | Zhou Zhen Hua / Wang Ting | |
| V | | | Continuous | Zhou Zhen Hua | |
| | | Architecture (WMB, SPIDR, CREEM, RA and Danfoss Use Case) | COHUITUUUS | Ziiou Ziicii iiuu | |
| V | | Architecture (WMB, SPIDR, CREEM, RA and Danfoss Use Case) DevOps & CI/CD (Siemens Website) Support | On Demand | Hartanto Victor | |

Sprint Review (05.26~06.08)

| | Sub System | Task | Status | Main Contributor | Impediment & Risk |
|--------------|---------------------------|--|------------|---|---|
| ✓ | WMB | FB Library and CREEM Parser | Done | Wang Ting | No |
| ~ | | FB and CREEM Parser | Done | Wang Ting | |
| ✓ | | Monaco Editor for FB (CREEM, Python, Dialog UI Source) - Framework is done | Archived | Huang Xin | |
| ✓ | | FBTD Low-code Paradigm (Parallel, If, Switch, Repeat) | Done | Wang Ting | |
| ✓ | | CREEM Workflow Parser (GoJS -> CREEM), only event links | Done | Wang Ting | |
| | | Improved AWS Deployment (Lambda, Serverless) for NestJS version | Not Start | Huang Xin | |
| | | Cross-platform local deployment Windows/Linux/MacOS (Electron) | Not Start | NN1 (Outsourcing) 6.10 on-board | |
| ✓ | | CREEM Vest FB Dialog (MoveLinear/MoveJoints) UI Mockup | Done | Huang Xin | |
| ✓ | | Parameter Panel (Port value editor) - Customized components | Done | Huang Xin | |
| | | NestJS refactoring to store FBs in file system | Not Start | Wang Ting / Huang Xin | |
| ✓ | | System Configuration paradigm design (DD, DL and DT) | Done | Zhou Zhen Hua | |
| ✓ | | Continue low-code paradigm (New FBTD based on Danfoss use case) | Done | Zhou Zhen Hua | |
| ~ | | Improved CI/CD (AWS, Electron, NestJS) | Continuous | Huang Xin | |
| ✓ | | Interview outsourcing for JavaScript (ES) foundation (one passed) | Continuous | Wang Ting | |
| ✓ | | Interview outsourcing for React / CSS component (one passed) | Continuous | Huang Xin | |
| | WMB | Microservice Builder framework (e.g. FastAPI) | Not Start | NN2 (Outsourcing) 6.18 on-board | No |
| | (Microservice Builder) | Docker container builder | Not Start | NN2 (Outsourcing) | |
| | | Open API generator | Not Start | NN2 (Outsourcing) | |
| ✓ | | Interview outsourcing for Microservice Builder (Python) (one passed) | Done | Zhou Zhen Hua | |
| \checkmark | SPIDR | SPIDR: CREEM Workflow Parser (CREEM -> Node/Link), event only | Done | Wang Ting (Overtime) | Resource Risk (Qu Yao needs more |
| | | Code generator in SPIDR & Convert CREEM to tree structure investigation | Risk | Qu Yao | time to ramp up SPIDR) |
| | | SPIDR & RA (SDK) integration | Not Start | Zhu Yi Peng | |
| ~ | | Preliminary SPIDR code structure improvements for WMB | Done | Qu Yao | |
| | | SPIDR ramp up and hand-over | On Track | Qu Yao / Zhu Yi Peng | |
| | | Interview outsourcing for SPIDR (Python) | On Track | Zhou Zhen Hua | |
| \checkmark | CREEM | CREEM Architecture & Communication | Done | Zhou Zhen Hua | No |
| \checkmark | | CREEM Instance (FB Rest, DevDesc, Device Library, Configuration, Project) | Done | Zhou Zhen Hua | |
| \checkmark | Data Layer | Continue Data Layer integration alignment | Done | Ji Yu Kai / Zhou Zhen Hua | No |
| | Integration | Preliminary Data Layer Interface & SDK Data | Not Start | Qu Yao / Zhang Chuan Yu | |
| \checkmark | RA | Preliminary RA Container framework (for SDK) | Done | Zhang Chuan Yu | No |
| ✓ | | RA Architecture Alignment | Done | Zhang Chuan Yu / Zhou Zhen Hua | |
| | CCT Review Part 3 | CCT Review Part 3 Presentation | On Track | Chen Yi Jia | No |
| ✓ | raits | CCT Review Part 3 Requirement Further Discussion | Done | Huang Chang Xia / Chen Yi Jia / Liao Liang / Zhou Zhen Hua | |
| | Danfoss | IPC (AppComposer, USB Dongle, SPIDR/Forte) for Danfoss | On Track | Liao Liang / Zhu Yi Peng / Hu Ye | Wait for AUBO robot to test Python |
| \checkmark | | AppComposer X-Function (Altas Torque Wrench Driver) | Done | Hu Ye / Li Ji | drivers, planned date for Danfoss is 6.22; Technical Risk (AppComposer |
| | | AppComposer X-Function (Keyence Barcode Scanner) | On Track | Hu Ye / Li Ji | V49 has issues to integrate Vision) |
| | | AppComposer Vision (Hikon Camera, ImageSource as a backup) | Risk | Yao Wei | |
| | | Vision service deployment in Windows test | Not Start | Yao Wei | |
| ✓ | | MES interface and Formula Table architecture | Done | Liao Liang / Zhou Zhen Hua | |
| \checkmark | General | Business Support | Continuous | Huang Chang Xia | No |
| ✓ | | Product Manager (Customer Visit, FR) | Continuous | Liao Liang | |
| ✓ | | Product Owner (Product Backlog, Scrum Meetings) | Continuous | Liao Liang | |
| ✓ | | Scrum Master (Sprint Backlog, Gitlab, Scrum Meetings) | Continuous | Wang Ting / Zhou Zhen Hua | |
| \checkmark | | Architecture (WMB, SPIDR, CREEM, RA and Danfoss Use Case) | Continuous | Zhou Zhen Hua | |
| | | DevOps & CI/CD (Siemens Website) Support | On Demand | Hartanto Victor | |
| | | Patent (WMB and others) | On Track | Zhou Zhen Hua | |

Sprint Review (05.12 ~ 05.25)

| | Sub System | Task | Status | Main Contributor | Impediment & Risk |
|--------------|---------------------------|---|------------|---|---|
| ✓ | WMB | Responsive UX for different screen resolutions (Ant Design) | Done | Wang Ting | No |
| | | Preliminary WMB Framework (React / NodeJS / indexdb) | Done | Wang Ting / Huang Xin | |
| | | Preliminary GoJS Low-code framework | Done | Wang Ting | |
| | | Preliminary low-code FBTD paradigm in GoJS | Done | Wang Ting | |
| ✓ | | Preliminary AWS Deployment (Static) | Done | Huang Xin | |
| | | Cross-platform local deployment Windows/Linux/MacOS (pkg) | Done | Wang Ting | |
| | | Preliminary responsive design (Wireframe, Design Language) | Done | Zhou Zhen Hua | |
| | | Preliminary low-code paradigm design (New FBTD) | Done | Zhou Zhen Hua | |
| | | Preliminary CI/CD | Done | Huang Xin | |
| | WMB | Microservice Builder framework (e.g. FastAPI) | Not Start | Qu Yao / Wang Ting | No |
| | (Microservice Builder) | Docker container builder | Not Start | Qu Yao | |
| | | Open API generator | Not Start | Qu Yao / Wang Ting | |
| ~ | SPIDR | Multiple workcell deployment in Old SPIDR (FBT version) | Done | Zhu Yi Peng | Resource Risk (Yi Peng can only |
| | | Preliminary HTTP API in Old SPIDR (Flask) | Done | Zhu Yi Peng | support limited part time, Qu Yao needs some time to ramp up SPIDR) |
| | | SPIDR ramp up and hand-over | On Track | Qu Yao / Zhu Yi Peng | |
| | CREEM | CREEM Architecture & Communication | Done | Zhou Zhen Hua | No |
| | | CREEM Instance (FB, FB Library, Workflow) | Done | Zhou Zhen Hua | |
| | Data Layer | Preliminary Data Layer integration alignment | Done | Ji Yu Kai / Zhou Zhen Hua | No |
| | Integration | Preliminary Data Layer Interface | On Track | Qu Yao | |
| | RA | Preliminary RA Container framework (for SDK) | On Track | Zhang Chuan Yu | No |
| \checkmark | | RA Architecture Alignment | Done | Zhang Meng / Zhang Chuan Yu / Zhou Zhen Hua | |
| | CCT Review | CCT Review Part 3 Presentation | On Track | Chen Yi Jia | Live demo is cancelled |
| ✓ | Part 3 | CCT Review Part 3 Requirement Discussion | Done | Huang Chang Xia / Chen Yi Jia / Liao Liang / Zhou Zhen Hua | |
| | | Mendix REST Microservice interface (for live demo) | Done | Wang Ting | |
| | Danfoss | IPC (AppComposer, USB Dongle, SPIDR/Forte) for Danfoss | On Track | Liao Liang / Zhu Yi Peng / Hu Ye | Resource Risk (Hu Ye / Yao Wei / Li |
| \checkmark | | Technical alignment via customer visit | Done | Liao Liang / The Team | Ji are busy in SDPM 6.18 Review tasks and do not have enough time |
| | | AppComposer X-Function (Altas Torque Wrench Driver) | Not Start | Hu Ye / Li Ji | to support WMB project in Sprint 1); Technical Risk (AppComposer V47 |
| | | AppComposer X-Function (Keyence Barcode Scanner) | Not Start | Hu Ye / Li Ji | has issues to integrate Vision) |
| | | AppComposer Vision (Hikon Camera, ImageSource as a backup) | Risk | Yao Wei / Sun Zhong Yang | |
| ✓ | General | Business Support | Continuous | Huang Chang Xia / Wang Mo | No |
| ✓ | | Product Manager (Customer Visit, FR) | Continuous | Liao Liang | |
| \checkmark | | Product Owner (Product Backlog, Scrum Meetings) | Continuous | Liao Liang | |
| ✓ | | Scrum Master (Sprint Backlog, Gitlab, Scrum Meetings) | Continuous | Zhou Zhen Hua / Wang Ting | |
| ~ | | Architecture (WMB, SPIDR, CREEM, RA and Danfoss Use Case) | Continuous | Zhou Zhen Hua | |
| ✓ | | DevOps & CI/CD (Siemens Website) Support | On Demand | Hartanto Victor | |
| | | Patent (WMB and others) | On Track | Zhou Zhen Hua | |