Sprint Planning (08.18~08.31)

#	Sub System	Task	Status	Main Contributor	Impediment & Risk
☐	WMB	**Generate a stable low-code version for final delivery**	On Track	Wang Ting	No. This is probably the last sprint for Danfoss use case co-working. We should prepare for a stable version deployed in a WMB Box for them. (**Bold** tasks)
☐		Property panel inputs / varies GoJS features continue	On Track	Wang Ting	
☐		Storybook, Docs (Wiki) and other supporting system	Continuous	Huang Xin	
☐		**Generic image deployment implementation, total integration**	Continuous	Huang Xin	
☐		Data line links remaining issues	Continuous	Wang Ting	
☐		Expression Editor in Parameter Panel for Logics (low priority)	Not Planned	Huang Xin / Wang Ting	
☐		**Danfoss Workflow integrating test with SPIDR executor**	On Track	Wang Ting / Lu Ting	
☐		Continue low-code paradigm / CREEM support	Continuous	Zhou Zhen Hua	
☐		Improved CI/CD (AWS, Electron, NestJS) continue	Continuous	Huang Xin	
☐		Device Tree & FB Logical Node binding continue	On Track	Wang Ting	
☐		Admin feature. Property Panel. Other UI features and improvements	On Track	Zhang Dong Qian (Ext)	
☐		Cross-platform local deployment (Electron) continue	On Track	Song Zhen Yang (Ext)	
☐		CREEM FB Editor Tool continue / Kibana merge in	On Track	Song Zhen Yang (Ext)	
☐		I18N from CREEM (zh-CN / en-US) continue	On Track	Wang Ting / Gong Yi Shen	
☐		Fix reported issues in existing features continue	On Track	Wang Ting	
☐		Some supporting GoJS UI features	On Track	Gong Yi Shen	
☐		CREEM FB & DD Templates / UI elements / SVG design	On Track	Zhou Zhen Hua	
☐		Error Manager design / implementation	Not Start	Wang Ting / Zhou Zhen Hua	
☐		SubWorkflow design / implementation	Not Start	Wang Ting / Zhou Zhen Hua	
☐	WMB (ASB)	Microservices Builder framework (e.g. FastAPI) continue	Continuous	Ma Yong (Ext)	No
☐		CREEM for Microservices Builder	On Track	Zhou Zhen Hua	
☐	SPIDR	SPIDR v2 / Executor (Long-term Plan) continue	On Track	Qu Yao	Resource Risk (We do need additional testing resource to support integration testing platform. We will align with Hongjia about it.)
☐		Related features for better architecture for SPIDR v2	On Track	Qu Yao	
☐		WebSocket connection to SPIDR/RA - Device Discovery MDNS	Not Start	Lu Ting	
☐		**SPIDR v1 / PLC / WMB Testing on x86 IPC continue (Integration Test Platform)**	On Track	NN1 (Suzhou) / Hu Ye (Beijing)	
☐		SPIDR v1 improvements / standard Python format definition continue	On Track	Lu Ting	
☐		SPIDR v1: CREEM Workflow NLA interpreter continue	On Track	Lu Ting	
☐		SPIDR v1 Advisor	On Demand	Zhu Yi Peng	
☐	Control Panel (WMB Box)	Local deployment (Electron on IPC) windows 10 image (enable B/S)	On Track	Huang Xin	No
☐		Control Panel - IPC - FastAPI implementation	On Track	Lu Ting	
☐		Control Panel - IPC - web page for fixed resolution	On Track	Song Zhen Yang (Ext) / Zhou Zhen Hua	
☐	CREEM	CREEM Instance optimization (FB Rest, DevDesc Rest)	On Track	Zhou Zhen Hua	No
☐		CREEM Specification & Base Schema	On Track	Zhou Zhen Hua	
☐		StatusCode standard Chinese translation continue	On Track	Zhou Zhen Hua	
☐	Data Layer Integration	Data Layer interface (RabbitMQ or HTTP POST/GET)	On Track	Qu Yao	No
☐		Preliminary Data Layer Interface & SDK Data (TDB, Schema)	On Track	Qu Yao / Zhang Chuan Yu	
☐		Continue Data Layer integration architecture alignment	On Demand	Ji Yu Kai / Zhou Zhen Hua	
☐	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	
☐	3D Visualization	3D visualization of WMB workflow for demo purpose (ThreeJS)	Continuous	Wang Rui	No
☐		Real storyline design and implementation (Danfoss and more)	On Track	Wang Rui	
☐		**3D visualization & WMB integration**	On Track	Wang Rui / Wang Ting	
☐		Solidworks Danfoss 3D models created for ThreeJS	Continuous	Xu Fang Ren (Intern)	
☐		CREEM Cyclic for independent 3D visualization parser	On Demand	Wang Rui / Zhou Zhen Hua	
☐	Danfoss	Danfoss use case requirement confirmation with customer	On Track	Liao Liang	Requirement Risk (Danfoss needs more time to prepare PLC, MES and Formula Table.) Customer probably will be ready in mid of Sep.
☐		Danfoss use case support (WMB version preparations)	On Track	Hu Ye	
☐		**Danfoss PLC FB investigation and test (aligned with Danfoss)**	On Track	Hu Ye	
☐		**Ayncuc investigation (OPC UA for PLC connection) continue**	On Track	Qu Yao / Hu Ye	Customer Risk (Danfoss tried to use AppComposer by themselves and had negative feedback for user experience of it. We should deliver a trial WMB Box for them to use earlier.)
☐		Robotic Vision (Keyence, Hikon Camera, ImageSource as a backup) continue	On Track	Yao Wei / Li Yuan Zhe	
☐		Vision Service FastAPI refactoring	On Track	Yao Wei	
☐		MES interface and Formula Table architecture further	Pending	Liao Liang / Zhou Zhen Hua	
☐		Danfoss Newest Workflow -> WMB FBTD Low-code	On Demand	Liao Liang / Zhou Zhen Hua	
☐	WMB Website	WMB Internal Project Website (more contents)	Continuous	Zhou Zhen Hua	No
☐	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, ASB and Danfoss Use Case)	Continuous	Zhou Zhen Hua	
☐		DevOps & CI/CD (Siemens Website) Support	On Demand	Hartanto Victor	
☐		Patent (CREEM and Low-code Paradigm) / Article	Continuous	Zhou Zhen Hua	

Sprint Review (08.04~08.17)

#	Sub System	Task	Status	Main Contributor	Impediment & Risk
✔	WMB	Device & FB Binding continue	Done	Wang Ting	Resource Risk
✔		Communication parameter settings Panel for Devices continue	Done	Wang Ting	
✔		Local deployment (Electron on IPC) windows 10 image	Continuous	Huang Xin	
✔		CREEM / Python FB&Device import - Openness continue	Done	Wang Ting / Zhou Zhen Hua	
✔		Storybook, Docs (Wiki) and other support system	Done	Huang Xin	
✔		Data line links remaining issues (low priority)	Done	Wang Ting	
✔		MoveJoints/Linear/Circular Dialog and Lead Through continue	Done	Huang Xin / Zhang Chuan Yu	
✔		Expression Editor in Parameter Panel for Logics (low priority)	Continuous	Huang Xin / Wang Ting	
✔		Danfoss Workflow integrating test with SPIDR executor	Done	Wang Ting / Lu Ting	
✔		Continue low-code paradigm / CREEM support	Continuous	Zhou Zhen Hua	
✔		Improved CI/CD (AWS, Electron, NestJS) continue	Continuous	Huang Xin	
✔		Device Tree & FB Logical Node binding continue	Done	Wang Ting	
✔		Admin feature. Property Panel . Other UI features and improvements	Done	Zhang Dong Qian (Ext)	
✔		Cross-platform local deployment Windows/Linux/MacOS (Electron) continue	Done	Song Zhen Yang (Ext)	
✔		CREEM FB Editor Tool continue / Kibana merge in	Done	Song Zhen Yang (Ext)	
✔		I18N from CREEM (zh-CN / en-US) continue	Done	Wang Ting	
✔		Fix reported issues in existing features continue	Done	Wang Ting	
✔		iframe openness framework / GoJS ramp up continue	Done	Gong Yi Shen	
✔		CREEM FB Templates / Danfoss Workflow / SVG icons design	Done	Zhou Zhen Hua	
☐		Error Manager design / implementation	Not Start	Wang Ting / Zhou Zhen Hua	
☐		SubWorkflow design / implementation	Not Start	Wang Ting / Zhou Zhen Hua	
✔	WMB (ASB)	Microservices Builder framework (e.g. FastAPI) continue	Done	Ma Yong (Ext)	No
✔		Minimum openness CREEM definition and doc continue	Done	Zhou Zhen Hua	
✔	SPIDR	SPIDR v2 / Executor (Long-term Plan) continue	Continuous	Qu Yao	No
✔		Debugging and other features in SPIDR v2 investigation	Done	Qu Yao	
☐		WebSocket connection to SPIDR/RA - Device Discovery MDNS	On Track	Lu Ting / Qu Yao	
✔		SPIDR v1 testing (on RaspberryPi) continue	Done	Lu Ting	
✔		SPIDR v1 refactoring continue; Python format definition	Done	Lu Ting	
✔		SPIDR v1: CREEM Workflow NLA interpreter continue (retry)	Done	Lu Ting	
☐		SPIDR v1 Advisor	On Demand	Zhu Yi Peng	
✔		SPIDR HMI Monitor - Raspberry Pi - feature implementation	Done	Lu Ting	
✔		SPIDR HMI Monitor - Raspberry Pi - web page for fixed resolution	Done	Song Zhen Yang / Zhou Zhen Hua	
✔	CREEM	CREEM Instance optimization (FB Rest, DevDesc Rest)	Done	Zhou Zhen Hua	No
✔		CREEM Specification & Base Schema	Done	Zhou Zhen Hua	
✔		StatusCode standard Chinese translation	Done	Xu Fang Ren (Intern)	
☐	Data Layer Integration	Continue Data Layer integration architecture alignment	On Demand	Ji Yu Kai / Zhou Zhen Hua	No
☐		Data Layer interface (RabbitMQ or HTTP POST/GET)	On Track	Qu Yao	
☐		Preliminary Data Layer Interface & SDK Data (TDB, Schema)	On Track	Qu Yao / Zhang Chuan Yu	
✔	RA	RA (SDK) interfaces with CREEM & SPIDR continue	Done	Zhang Chuan Yu	Technical Risk (RA has issues to run in ARM64 SBC, we will try KVM solution.) For long term, this part should be rewrote.
✔		Investigate more parameters in Robotic SDK continue	Done	Zhang Chuan Yu	
✔		RA (SDK) tests on RaspberryPi (try KVM solution)	Archived	Zhang Chuan Yu	
✔	3D Simulation (Demo purpose)	3D visualization of WMB workflow for demo purpose (ThreeJS)	Done	Wang Rui	No
✔		Real storyline design and implementation (Danfoss and more)	Continuous	Wang Rui	
✔		Solidworks Danfoss 3D models created for ThreeJS	Done	Xu Fang Ren (Intern)	
✔		3D visualization & WMB integration	Continuous	Wang Rui / Gong Yi Shen	
✔		CREEM Cyclic for independent 3D visualization parser	Done	Wang Rui / Zhou Zhen Hua	
✔	Danfoss	Danfoss use case requirement confirmation with customer	Continuous	Liao Liang	Requirement Risk (Need more input from Danfoss Wuqing Factory. Danfoss needs more time to prepare MES and Formula Table)
✔		Danfoss use case support (WMB version preparations)	Done	Hu Ye	
✔		Danfoss PLC FB investigation (Be focus on OPC UA with S7 1500)	Done	Hu Ye	
✔		Industrial Robot investigation (Be focus on Nachi and OTC)	Done	Hu Ye	
✔		Pythonnet / other Python-based FB investigations	Done	Lu Ting	
✔		Pythoncom / Profinet / ModbusTCP / paho-mqtt investigations	Done	Ma Yong (Ext)	
✔		Python-opcua investigation (for PLC connection)	Done	Qu Yao / Hu Ye / Zhu Yi Peng	
✔		Robotic Vision (Keyence, Hikon Camera, ImageSource as a backup)	Continuous	Yao Wei / Li Yuan Zhe	
✔		Vision Service FastAPI refactoring	Continuous	Yao Wei	
☐		MES interface and Formula Table architecture further	Pending	Liao Liang / Zhou Zhen Hua	
✔		Danfoss Newest Workflow -> WMB FBTD Low-code	Done	Liao Liang / Zhou Zhen Hua	
✔	WMB Website	WMB Internal Project Website (more contents)	Continuous	Zhou Zhen Hua	No
✔	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, ASB and Danfoss Use Case)	Continuous	Zhou Zhen Hua	
☐		DevOps & CI/CD (Siemens Website) Support	On Demand	Hartanto Victor	
✔		Patent (CREEM and Low-code Paradigm) / Article	Continuous	Zhou Zhen Hua	

Sprint Review (07.20~08.03)

	Sub System	Task	Status	Main Contributor	Impediment & Risk
☑	WMB	Communication parameter settings Panel for Devices continue	Done	Wang Ting	Resource Risk
☑		[New Feature] FB List and click to focus on the canvas	Done	Wang Ting	
☑		CREEM / Python FB&Device import - Openness continue	Done	Wang Ting / Zhou Zhen Hua	
☑		Storybook, Docs (Wiki) and other support system	Done	Huang Xin	
☑		WebSocket connection to SPIDR/RA - Device Discovery testing	Done	Huang Xin	
☑		Data line links using manual dragging	Continuous	Wang Ting	
☑		MoveJoints/Linear/Circular Dialog and Lead Through	Done	Huang Xin / Zhang Chuan Yu	
☑		Cross-platform local deployment Windows/Linux/MacOS (Electron) continue	Continuous	Song Zhen Yang (Ext)	
☑		Expression Editor in Parameter Panel for Logics, continue	Continuous	Huang Xin	
☑		Danfoss Workflow integrating test with SPIDR executor	Done	Wang Ting / Lu Ting	
☑		Continue low-code paradigm / CREEM support	Continuous	Zhou Zhen Hua	
☑		Improved CI/CD (AWS, Electron, NestJS) continue	Continuous	Huang Xin	
☑		Device Tree & FB Logical Node binding continue	Continuous	Wang Ting	
☑		Other UI features and improvements	Done	Zhang Dong Qian (Ext)	
☑		CREEM FB Editor Tool / Kibana merge in	Done	Song Zhen Yang (Ext)	
☑		FB I18N from CREEM (zh-CN / en-US) continue	Continuous	Wang Ting	
☑		Fix reported issues in existing features (meeting agreement) continue	Done	Wang Ting	
☑		iframe openness framework / GoJS ramp up continue	Done	Gong Yi Shen	
☑		CREEM FB Templates / Danfoss Workflow / SVG icons design	Done	Zhou Zhen Hua	
☐		Error Manager design / implementation	On Track	Wang Ting / Zhou Zhen Hua	
☐		SubWorkflow design / implementation	Not Start	Wang Ting / Zhou Zhen Hua	
☑	WMB (Automatic Service Builder)	Microservices Builder framework (e.g. FastAPI) continue	Done	Ma Yong (Ext)	No
☑		CREEM Python Generator GUI	Done	Ma Yong (Ext)	
☑		Minimum openness CREEM definition and doc continue	Done	Zhou Zhen Hua	
☑	SPIDR	Refactored SPIDR v2 / Executor (Long-term Plan) continue	Done	Qu Yao	No
☑		Debugging features in SPIDR v2 investigation	Done	Qu Yao	
☐		WebSocket connection to SPIDR/RA - Device Discovery MDNS	On Track	Qu Yao	
☑		SPIDR v1 testing continue	Done	Lu Ting	
☑		SPIDR v1 refactoring continue	Done	Lu Ting	
☑		SPIDR Advisor - Original version	Done	Zhu Yi Peng	
☑		SPIDR: CREEM Workflow NLA interpreter	Done	Lu Ting	
☑	CREEM	CREEM Instance optimization(FB Rest, DevDesc Rest)	Done	Zhou Zhen Hua	No
☑		CREEM Specification & Base Schema	Done	Zhou Zhen Hua	
☐		StatusCode standard Chinese translation	On Track	Xu Fang Ren (Intern)	
☑	Data Layer Integration	Continue Data Layer integration alignment	Done	Ji Yu Kai / Zhou Zhen Hua	No
☐		Data Layer interface	Not Start	Qu Yao	
☑		Preliminary Data Layer Interface & SDK Data (more data)	Continuous	Qu Yao / Zhang Chuan Yu	
☑	RA	RA (SDK) interfaces with CREEM & SPIDR continue	Done	Zhang Chuan Yu	Technical Risk (RA has issues to run in ARM64 SBC, we will try KVM solution.)
☑		Investigate more parameters in Robotic SDK continue	Continuous	Zhang Chuan Yu	
☑		RA (SDK) interfaces with WMB Lead Through (WebSocket)	Done	Zhang Chuan Yu / Huang Xin	
☑	3D Simulation (Demo purpose)	3D visualization of WMB workflow for demo purpose (ThreeJS)	Continuous	Wang Rui	No
☑		3D visualization deployment on AWS	Done	Wang Rui / Huang Xin	
☑		Solidworks Danfoss 3D models created for ThreeJS	Continuous	Xu Fang Ren (Intern)	
☑		3D visualization & WMB integration (iframe, postMessage)	Done	Wang Rui / Gong Yi Shen	
☑		CREEM Cyclic for independent 3D visualization parser	Done	Wang Rui / Zhou Zhen Hua	
☑	Danfoss	Danfoss use case support (AppComposer with NUC version)	Done	Hu Ye	Requirement Risk (Need more input from Danfoss Wuqing Factory)
☑		Danfoss PLC FB investigation (Danfoss PC OPC DA software)	Continuous	Hu Ye	
☑		Industrial Robot investigation (Nachi)	Done	Hu Ye	
☑		Pythonnet / other Python-based FB investigations	Continuous	Lu Ting	
☑		Python-OPCUA investigation (for PLC connection)	Continuous	Qu Yao	
☑		Robotic Vision (Hikon Camera, ImageSource as a backup)	Continuous	Yao Wei / Li Yuan Zhe	
☑		MES interface and Formula Table architecture further	Continuous	Liao Liang / Zhou Zhen Hua	
☑		Danfoss Newest Workflow -> WMB FBTD Low-code	Continuous	Liao Liang / Zhou Zhen Hua	
☑	WMB Website	WMB Internal Project Website (more contents)	Continuous	Zhou Zhen Hua	No
☑	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, ASB and Danfoss Use Case)	Continuous	Zhou Zhen Hua	
☐		DevOps & CI/CD (Siemens Website) Support	On Demand	Hartanto Victor	
☑		Patent (CREEM and Low-code Paradigm)	Continuous	Zhou Zhen Hua	

Sprint Planning (07.07~07.20)

	Sub System	Task	Status	Main Contributor	Impediment & Risk
☑	WMB	Device & FB Binding	Done	Wang Ting	Resource Risk
☑		Communication parameter settings Panel for Devices continue	Done	Wang Ting	
☑		CREEM / Python FB import - Openness	Done	Wang Ting	
☑		WebSocket connection to SPIDR/RA - Device Discovery	Done	Huang Xin	
☑		CREEM Workflow Parser (GoJS -> CREEM), add data links	Done	Wang Ting	
☑		Improved AWS Deployment (Lambda, Serverless) for NestJS version	Done	Huang Xin	
☑		Cross-platform local deployment Windows/Linux/MacOS (Electron)	Continuous	Song Zhen Yang (Ext)	
☑		Expression Editor in Parameter Panel for Logics, continue	Continuous	Huang Xin	
☑		IQC and other advanced decorators; pre-interpreter, continue	Done	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	Done	Wang Ting	
☑		Interview SSI outsourcing for GoJS in SuZhou	Done	Wang Ting	
☑		Dashboard sample and other UI features.	Done	Zhang Dong Qian (Ext)	
☑		Kibana log system / code ramp up	Done	Song Zhen Yang (Ext)	
☑		FB I18N from CREEM (zh-CN / en-US)	Done	Wang Ting	
☑		Fix reported issues in existing features (SystemConfiguration / Tags…)	Done	Wang Ting	
☐		SubWorkflow design / implementation	Not Start	Wang Ting / Zhou Zhen Hua	
☑	WMB (Automatic Service Builder)	Microservices Builder framework (e.g. FastAPI) continue	Continuous	Ma Yong (Ext)	No
☐		CREEM Python Generator GUI	Not Start	Ma Yong (Ext)	
☑		Minimum openness CREEM definition and doc	Done	Zhou Zhen Hua	
☑	SPIDR	Refactored SPIDR / Executor (Long-term Plan)	Continuous	Qu Yao	No
☑		SPIDR hand over (Yi Peng's original version)	Done	Lu Ting	
☑		SPIDR Advisor - Original version	Done	Zhu Yi Peng	
☑		SPIDR: CREEM Workflow Parser (CREEM -> Node/Link), data + device	Done	Lu Ting	
☑	CREEM	CREEM Instance optimization(FB Rest, DevDesc Rest)	Done	Zhou Zhen Hua	No
☑		CREEM Specification & Base Schema	Continuous	Zhou Zhen Hua	
☑	Data Layer Integration	Continue Data Layer integration alignment	Done	Ji Yu Kai / Zhou Zhen Hua	No WMB story is planned in Data Layer sprint until 07.16
☐		Data Layer interface	Pending	Qu Yao	
☑		Preliminary Data Layer Interface & SDK Data (more data)	Continuous	Qu Yao / Zhang Chuan Yu	
☑	RA	RA (SDK) interfaces with CREEM & SPIDR continue	Continuous	Zhang Chuan Yu	No
☑		Investigate more parameters in Robotic SDK continue	Continuous	Zhang Chuan Yu	
☐		RA (SDK) interfaces with WMB Lead Through (WebSocket)	Not Start	Zhang Chuan Yu	
☑	3D Simulation (Demo purpose)	3D visualization of WMB workflow for demo purpose (ThreeJS)	Continuous	Wang Rui	No
☑		3D visualization deployment on AWS	Done	Huang Xin	
☑		Solidworks Danfoss 3D models created for ThreeJS	Done	Xu Fang Ren (Intern)	
☐		3D visualization & WMB integration (iframe, postMessage)	Not Start	Wang Rui / Wang Ting	
☐		CREEM Cyclic for independent 3D visualization parser	Not Start	Wang Rui / Zhou Zhen Hua	
☑	Danfoss	IPC (AppComposer, USB Dongle, SPIDR/Forte) for Danfoss	Done	Hu Ye / Liao Liang	Technical Risk (Robotic Vision for Danfoss use case has issues)
☑		Atlas torque wrench / Barcode scanner python driver - fix issues	Done	Hu Ye / Li Ji	
☑		Python driver code standardize / Python-opcua investigation	Continuous	Lu Ting	
☐		Robotic Vision (Hikon Camera, ImageSource as a backup)	Risk	Yao Wei / Li Yuan Zhe	
☑		MES interface and Formula Table architecture further	Continuous	Liao Liang / Zhou Zhen Hua	
☑		Danfoss Newest Workflow -> WMB FBTD Low-code	Done	Liao Liang / Zhou Zhen Hua	
☑	WMB Website	WMB Internal Project Website (Architecture / Showcase …)	Done	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)	Continuous	Zhou Zhen Hua	

Sprint Review (06.23~07.06)

✓	Sub System	Task	Status	Main Contributor	Impediment & Risk
✓	WMB	Device Library CREEM Parser / UI	Done	Wang Ting	Resource Risk (We will interview outsourcing both in Shanghai and Suzhou. Lu Ting team will have one new colleague to support - on board 07.05.)
✓		Communication parameter settings Panel for Devices	Done	Wang Ting / Huang Xin	
✓		Data source from CREEM for Parameter Panel	Done	Wang Ting	
✓		WebSocket connection to SPIDR/RA (Low Priority)	Continuous	Huang Xin	
✓		CREEM Workflow Parser (GoJS -> CREEM), add data links	Done	Wang Ting	
✓		Improved AWS Deployment (Lambda, Serverless) for NestJS version	Done	Huang Xin	
✓		PWA implementation	Done	Zhang Dong Qian (Ext)	
✓		Expression Editor in Parameter Panel for Logics, continue	Continuous	Huang Xin	
✓		IQC and other advanced decorators; pre-interpreter, continue	Continuous	Wang Ting	
✓		NestJS refactoring to store FBs in file system	Done	Huang Xin	
✓		Code ramp up and add comments / React I18N improvement	Done	Zhang Dong Qian (Ext)	
✓		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	Not Start	Wang Ting	
✓		Interview SSI outsourcing for GoJS in SuZhou	Done	Wang Ting	
✓		CSS / Components improvements	Done	Zhang Dong Qian (Ext)	
☐		I18N from CREEM (zh-CN / en-US)	Not Start	Wang Ting	
✓		Fixe reported issues in existing features (SystemConfiguration / Tags…)	Continuous	Wang Ting	
☐		SubWorkflow design / implementation	Not Start	Wang Ting / Zhou Zhen Hua	
✓	WMB (Microservice Builder)	Microservice Builder framework (e.g. FastAPI)	Done	Ma Yong (Ext)	No
✓		Open API generator / Docker container builder	Done	Ma Yong (Ext)	
☐		CREEM Python Generator GUI	Not Start	Ma Yong (Ext)	
✓		Microservice CREEM definition and doc	Done	Zhou Zhen Hua	
✓	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 (SDK) integration	Continuous	Zhu Yi Peng	
✓		SPIDR ramp up and hand-over	Continuous	Lu Ting	
✓		SPIDR: CREEM Workflow Parser (CREEM -> Node/Link), data + device	Done	Lu Ting / Wang Ting	
✓		CREEM FB Template / Generated Python Sample for 3rd Party Vendor	Done	Zhou Zhen Hua	
✓	CREEM	CREEM Instance optimization(FB Rest, DevDesc Rest)	Done	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
☐		Data Layer interface	Pending	Qu Yao	
✓		Preliminary Data Layer Interface & SDK Data (more data)	Done	Qu Yao / Zhang Chuan Yu	
✓	RA	RA (SDK) interfaces with CREEM & SPIDR	Done	Zhang Chuan Yu	No
✓		Investigate more parameters in Robotic SDK	Done	Zhang Chuan Yu / Liao Liang	
☐		RA (SDK) interfaces with WMB Lead Through (WebSocket)	Not Start	Zhang Chuan Yu	
✓	3D Simulation (Demo purpose)	3D visualization of WMB workflow for demo purpose (ThreeJS)	Continuous	Wang Rui	No
✓		Solidworks Danfoss 3D models created for ThreeJS	Continuous	Xu Fang Ren (Intern)	
☐		3D visualization & WMB interface definition and integration	Not Start	Wang Rui / Wang Ting	
☐		CREEM Cyclic for independent 3D visualization parser	Not Start	Wang Rui / Zhou Zhen Hua	
✓	Danfoss	IPC (AppComposer, USB Dongle, SPIDR/Forte) for Danfoss	Done	Hu Ye / Liao Liang	Technical Risk (AppComposer V48/49 has issues in FBs for Forte; SPIDR version is not tested.)
✓		Atlas torque wrench python driver - Refactored	Done	Hu Ye / Li Ji	
✓		Keyence Barcode Scanner python driver - Refactored	Done	Hu Ye / Li Ji	
✓		Python driver code review / Pythonnet investigation	Done	Lu Ting	
☐		AppComposer Vision (Hikon Camera, ImageSource as a backup)	On Track	Yao Wei	
✓		Vision service deployment in Windows test	Archived	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
✓		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 - http://creem.siemens.net	Done	Hartanto Victor	
✓		Patent (CREEM and Low-code Appearance)	Continuous	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 outsourcing both in Shanghai and Suzhou. Lu Ting team will have one colleague to support - on board 07.05.)
☑		Device Tree (System Configuration) CREEM Parser / Tree UI	Done	Wang Ting	
☑		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)	Microservice Builder framework (e.g. FastAPI)	On Track	Ma Yong (Ext)	No
☐		Open API generator / Docker container builder	Not Start	Ma Yong (Ext)	
☐		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 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
☐		Data Layer interface	Pending	Qu Yao	
☑		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 Part 3	CCT Review Part 3 Presentation	Done	Chen Yi Jia	Done
☑		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 V48/49 has issues in FBs for Forte; SPIDR version is not tested.)
☑		Build Danfoss/Aubo test environment in Beijing Lab	Done	Hu Ye / Li Ji	
☑		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
☑		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 (WMB, CREEM and others); First WMB delivery this Sprint	Done	Zhou Zhen Hua	

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)	Microservice Builder framework (e.g. FastAPI)	Not Start	NN2 (Outsourcing) 6.18 on-board	No
☐		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	
✔	SPIDR	SPIDR: CREEM Workflow Parser (CREEM -> Node/Link), event only	Done	Wang Ting **(Overtime)**	Resource Risk (Qu Yao needs more time to ramp up SPIDR)
☐		Code generator in SPIDR & Convert CREEM to tree structure investigation	Risk	Qu Yao	
☐		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	
✔	CREEM	CREEM Architecture & Communication	Done	Zhou Zhen Hua	No
✔		CREEM Instance (FB Rest, DevDesc, Device Library, Configuration, Project)	Done	Zhou Zhen Hua	
✔	Data Layer Integration	Continue Data Layer integration alignment	Done	Ji Yu Kai / Zhou Zhen Hua	No
☐		Preliminary Data Layer Interface & SDK Data	Not Start	Qu Yao / Zhang Chuan Yu	
✔	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
✔		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 drivers, planned date for Danfoss is 6.22; Technical Risk (AppComposer V49 has issues to integrate Vision)
✔		AppComposer X-Function (Altas Torque Wrench Driver)	Done	Hu Ye / Li Ji	
☐		AppComposer X-Function (Keyence Barcode Scanner)	On Track	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	Done	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	Wang Ting / Zhou Zhen Hua	
✔		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)	Microservice Builder framework (e.g. FastAPI)	Not Start	Qu Yao / Wang Ting	No
☐		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 support limited part time, Qu Yao needs some time to ramp up SPIDR)
☑		Preliminary HTTP API in Old SPIDR (Flask)	Done	Zhu Yi Peng	
☐		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 Integration	Preliminary Data Layer integration alignment	Done	Ji Yu Kai / Zhou Zhen Hua	No
☐		Preliminary Data Layer Interface	On Track	Qu Yao	
☐	RA	Preliminary RA Container framework (for SDK)	On Track	Zhang Chuan Yu	No
☑		RA Architecture Alignment	Done	Zhang Meng / Zhang Chuan Yu / Zhou Zhen Hua	
☐	CCT Review Part 3	CCT Review Part 3 Presentation	On Track	Chen Yi Jia	Live demo is cancelled
☑		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 Ji are busy in SDPM 6.18 Review tasks and do not have enough time to support WMB project in Sprint 1); Technical Risk (AppComposer V47 has issues to integrate Vision)
☑		Technical alignment via customer visit	Done	Liao Liang / The Team	
☐		AppComposer X-Function (Altas Torque Wrench Driver)	Not Start	Hu Ye / Li Ji	
☐		AppComposer X-Function (Keyence Barcode Scanner)	Not Start	Hu Ye / Li Ji	
☐		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	
☑		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	