

天气业务一体化平台 (MICAPS5)

开发手册

V1.0 版

国家气象中心

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第一章 范围

本手册是气象信息综合分析处理系统第五版（简称：MICAPS5）标准规范的附件，用于指导 MICAPS5 基础框架、天气业务场景设计、组件开发、组件应用流程及业务算法的开发。

MICAPS5 基于气象大数据云平台（“天擎”）云原生开发建设，各类数据服务、计算服务、可视功能、交互制作组件开发均需遵守的本开发规范的基本约束。

针对科技成果转化没有天擎底层支持业务场景，MICAPS5 的部分组件需要具备根据实际业务情况进行统一适配能力，科技成果转化开发过程中，向 MICAPS5 组件库贡献的组件，需要符合 MICAPS5 组件化要求。

第二章 规范性引用文件

下列文件对于本文件的应用是必不可少的。凡是注日期的引用文件，仅注日期的版本适用于本文件。凡是不注日期的引用文件，其最新版本（包括所有的修改单）适用于本文件。

GB/T 2260-2007 中华人民共和国行政区划代码

GB/T14085-1993 信息处理系统计算机系统配置图符号及约定

GB-T8567-2016 信息技术软件工程术语计算机软件文档编制规范

GB-T8567-2016 工程项目管理规范

QX/T39-2005 《气象数据集元数据格式标准》文档管理规范

QX.T378-2017 《公共气象服务产品库文件命名规范》

中国气象局《气象业务软件组件化开发指南（2023 版）》

气象大数据云平台《气象数据服务接口规范》

国家气象中心《网站实况及预报服务图形产品规范》

国家气象中心《产品库命名规范》

第三章 术语

气象信息综合分析处理系统第五版: 国家气象中心设计建设的以协同、智能、高效为主要特征的集约化、开放式、智慧型的云原生新一代气象信息综合分析处理系统，该系统将全面支撑智能数字预报、灾害性天气预报以及气象风险预警和影响预报与服务简称 MICAPS5。

气象业务软件: 支撑气象部门观测、预报、服务、信息等业务领域的应用软件系统。

组件: 软件系统中具有相对独立功能、接口由契约指定、和语境有明显依赖关系、可独立部署、可组装的软件实体，是对数据和算法的简单封装。一个组件代表一个系统中实现的物理部分，包括软件代码（源代码，二进制代码，可执行代码）或者一些类似内容，如脚本或者命令文件。

组件化: 解耦复杂系统时将多个功能模块拆分、重组，将可复用的代码进行工具性的封装，有多种属性、状态反映其内部特性。

开发框架: 通用的、可重复使用的软件结构设计，整合通用功能的底层服务，具有明确的控制流程、逻辑关系及组件复用关系。开发框架规定了应用的体系结构，阐明了整个设计、协作组件之间的依赖关系、责任分配和控制流程，表现为一组抽象类以及其实例之间协作的方法，为组件复用提供了上下文(Context)关系，以支撑组件的大规模复用。

气象软件应用仓库: 是提供组件与开发框架统一共享发布与应用管理的仓库，提供组件和开发框架的注册、浏览、检索、下载、管理等共享服务功能，以及组件全生命周期管理功能。

算法: 解决方案的准确而完整的描述，代表着用系统的方法描述解决问题的策略机制，具有确切性、有穷性、可行性以及输入项、输出项五个特征。算法的优劣可以用空间复杂度与时间复杂度来衡量。气象业务软件的算法涵盖从细粒度的解决单一问题的算法函数，到面向业务应用由多个组件按一定业务逻辑组织起来的复杂算法。

接口: 对协定进行定义的引用类型。接口与类相似，可以包含方法、属性、索引器和事件作为成员。

插件：是一种遵循一定规范的应用程序接口编写出来的程序，只能运行在程序规定的系统平台下（可能同时支持多个平台），而不能脱离指定的平台单独运行。插件是组件中的一种，是在应用程序中预留接口的组件。

服务：在气象大数据云平台运行的执行指定系统功能的程序、例程或进程，以便支持其他程序。服务提供的松耦合应用程序编程标准接口（API），以便计算机程序可以发现和调用服务。

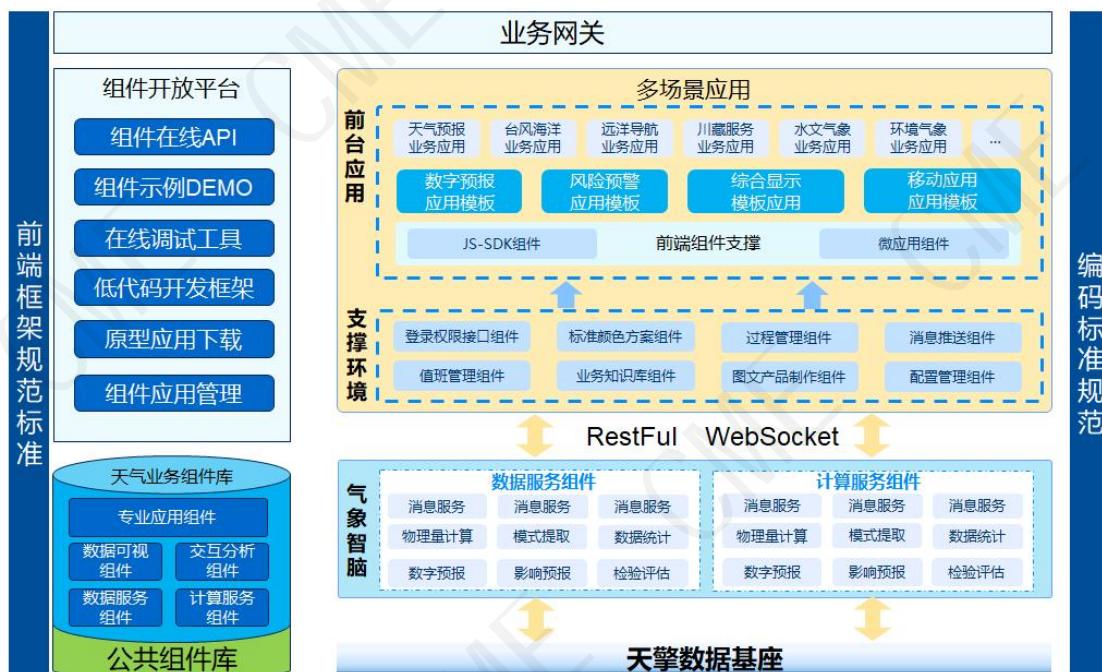
封装：隐藏对象的属性和实现细节，仅对外公开接口，控制在程序中属性的读和修改的访问级别；将抽象得到的数据和行为（或功能）相结合，形成一个有机的整体，也就是将数据与操作数据的源代码进行有机的结合，形成”类”，其中数据和函数都是类的成员。

气象大数据云平台：简称“天擎”，是中国气象局建设的集各类气象数据的收集分发、加工处理、存储管理、统计分析和共享服务于一体的综合气象数据支撑平台，提供”数算一体”的平台化服务。

软件工程环境：软件工程工作中所需的一组软件工具、固件和硬件的集合。软件工具可包括（但不局限于）CASE 工具、编译程序、汇编程序、连接程序、装入程序、操作系统、调试程序、模拟器、仿真器、测试工具、文档编制工具和数据库管理系统等。

第四章 MICAPS5 架构及技术路线

4.1.MICAPS5 整体架构



MICAPS5 开放框架由天气业务组件库、组件开发应用框架、气象智脑和多场景应用支撑四部分组成。

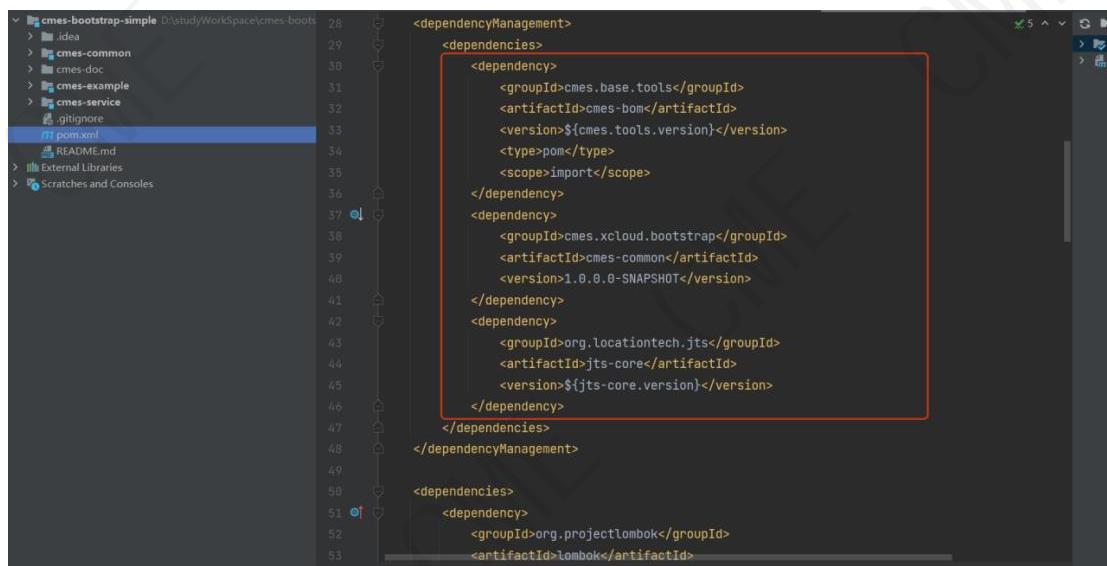
天气业务组件库基于中国气象局气象业务组件库建设，底层通过 Git 和 Nexus 实现组件和源码的管理。

- 天气业务组件开发应用框架通过组件管理，支撑业务用户在线查看组件 API、示例 DEMO、调试工具，并基于平台实现组件管理、低代码开发和原型应用下载。
- 气象智脑为业务运行环境的底层计算支撑环境，业务人员通过低代码开发的业务流程和服务可以自动化的部署到气象智脑中。气象智脑基于气象大数据云平台“天擎”计算环境进行开发部署，通过集成智能算法，对外提供统一的数据服务和算力服务。
- 多场景应用框架包括基础业务应用框架和业务应用，基础业务应用框架包括数字预报应用模板、风险预警应用模板、综合显示应用模板以及移动应用模板，四个子应用模板提供基础的业务支撑能力，并面向各业务提

供配置及服务能力；对于专有业务，可以在基础应用基础上通过定制化开发方式，部署于业务应用体系内支撑实时业务。

4.1.1. 架构接入简介

MICAPS5 开放框架架构采用组件化方式架构，可直接引用其对应依赖，方可使用，如需业务相关，气象业务相关服务则可注册到一体化 nacos，利用 nacos 进行服务调用。



4.1.2. 组件开发应用框架

组件开发应用平台包括天气组件库和低代码开发环境。天气组件库基于中国气象局气象业务组件库建设，底层通过 Git 和 Nexus 实现组件和源码的管理，组件库面向管理和开发人员提供组件管理发布、组件应用 API、示例代码等支撑服务；低代码开发环境提供流程服务开发、前端应用开发功能，业务开发人员可以在线的进行组件选取、组件集成、业务流程设计和应用开发等工作。组件开发应用框架针对接口和页面组件提供以下功能：

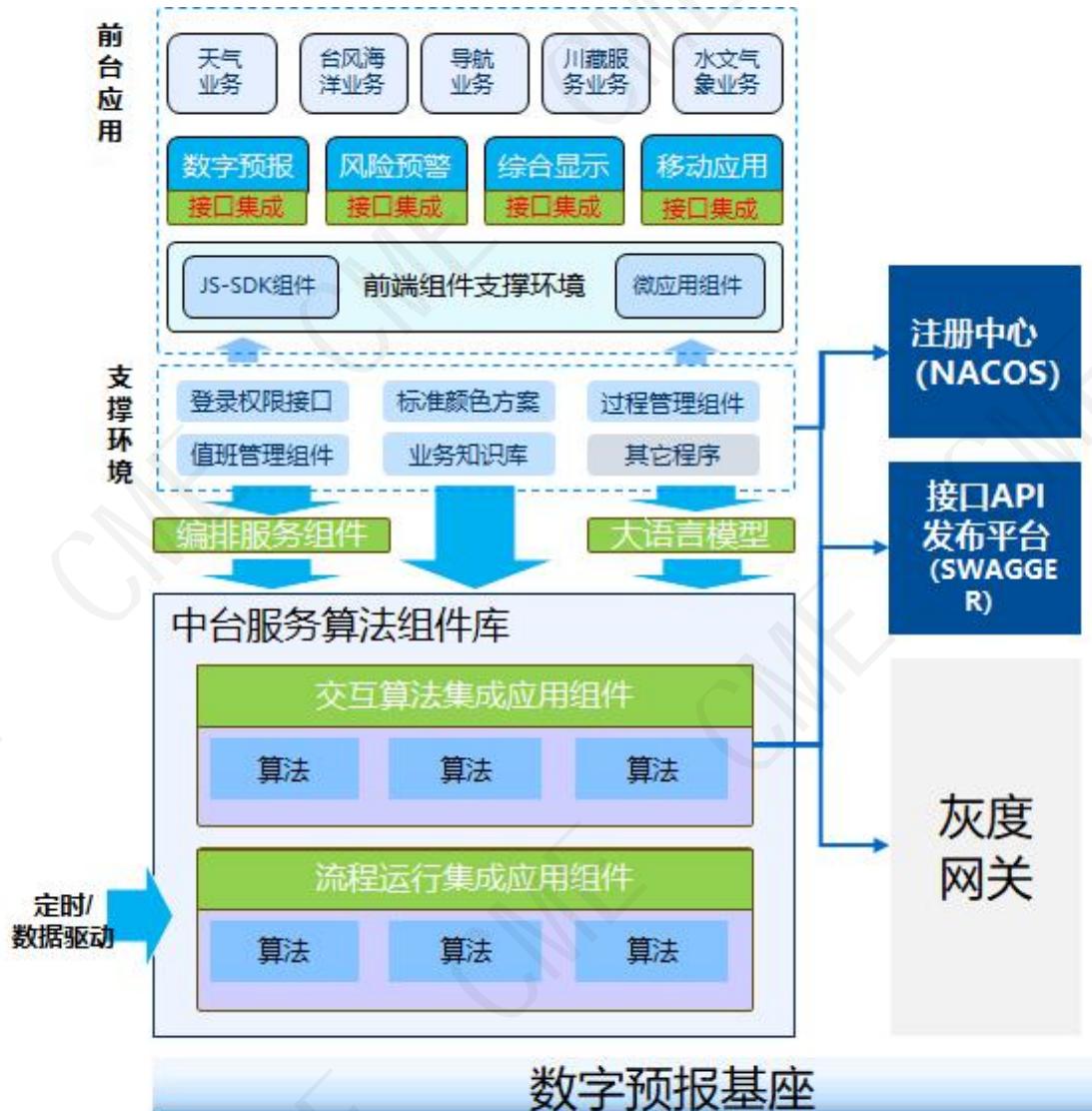
1. 在线 API：开发应用框架面向开发者提供各类业务组件的在线 API 说明、引用说明、使用说明等信息，辅助开发者使用组件。
2. 示例 DEMO：针对业务组件，开发应用框架提供在线测试 DEMO 样例，开发者可通过实例 DEMO 查看组件的示例代码和示例效果，方便开发者更容易

理解组件的使用方式和呈现的效果。

3. 在线调试工具：针对业务组件，开发应用框架具备沙盒功能，用户可以在线编辑代码或调整参数对组件进行调试，应用功能实时显示组件效果。
4. 低代码开发框架：开发人员可以在线选择组件，设计流程、接口、页面和应用，用户可以实时查看应用界面、流程设计的效果。
5. 原型应用下载：系统支持面向原型应用的代码自动生成、打包功能，开发者可以自行下载原型应用代码、组件依赖，并再次基础上进行二次开发，完整的支持定制化业务应用。
6. 组件应用管理：开发框架支持对个功能组件、业务应用进行元数据、存储/部署统一管理，同时支持对组件应用进行管理，在掌握组件应用情况的同时具备组件升级功能变更的通知能力。

4.1.2.1.天气业务组件管理

天气业务组件管理包括数据服务组件、计算服务组件、可视服务组件和交互制作组件管理四部分，计算服务组件基于组件库进行管理，可视服务显示组件通过组件仓库进行管理，数据服务组件通过微服务进行管理，交互制作组件通过微服务应用进行管理。



计算服务组件管理: 根据业务需求, MICAPS5 对算法库进行统一封装, 统一集成发布服务, 针对流程算法统一通过加工流水线进行管理, 针对服务算法统一通过交互集成应用进行集成管理。

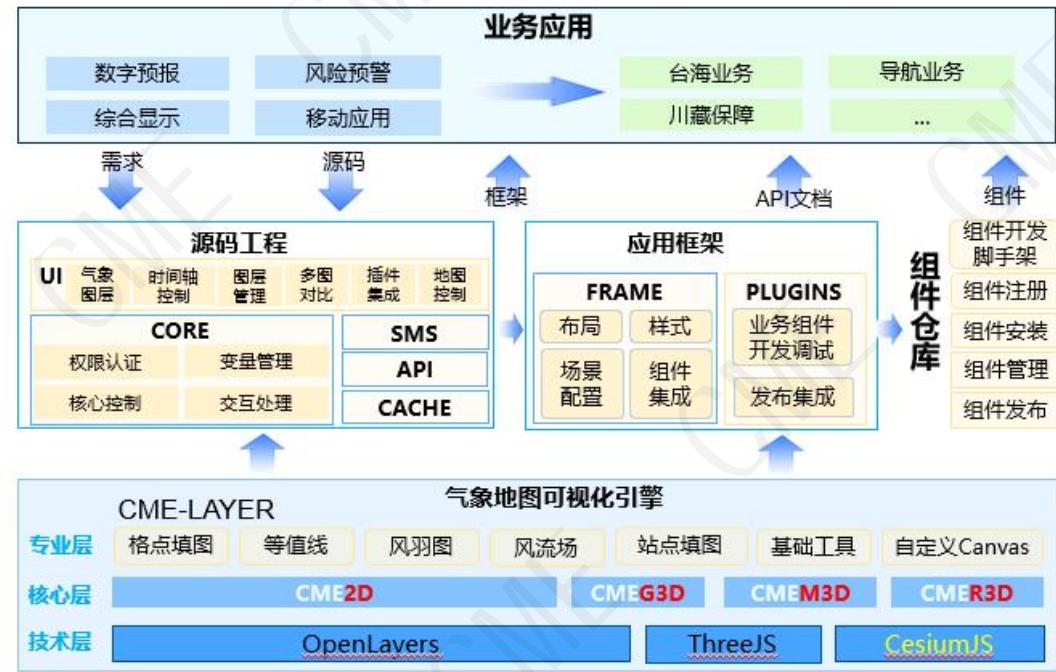
数据服务组件管理: 所有服务组件基于微服务开发框架开发, 所有接口服务通过 Swagger 进行。

可视服务组件: 通过 Npm 和 Js-SDK 方式提供服务, 通过 Nexus 进行管理, 再开发过程中提供组件服务支持。

交互服务组件: 通过微应用管理, 提供组件开发集成 Demo, 业务应用可以直接通过参数调用组件功能。

4.1.2.2.多场景集成框架（Cloud MICAPS Engine）

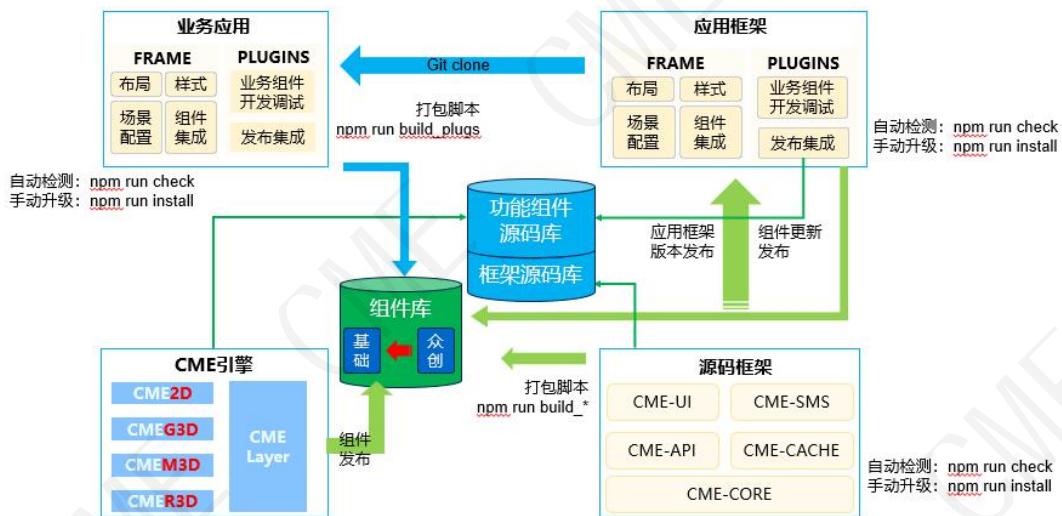
Cloud MICAPS Engine，简称 CME，是一套面向气象地图应用的二三维组件式集成框架，基于二三维地图引擎，通过核心应用组件，实现对气象图层组件和地图交互组件的集成和服务。



气象地图可视化引擎 : 标准封装气象 MICAPS5 底层地图渲染引擎，集成基础气象展示形式，形成气象可视 GIS 引擎；支撑二三维一体化的业务需求

应用框架: 通过源码工程开发，实现地图的核心控制、消息管理、数据缓存和组件 UI，封装打包形成组件，通过统一应用框架集成，支持自定义开发组件并发布组件仓库

业务应用: 按需引入功能组件并进行个性定义配置，同时也可对场景功能、布局样式调整，形成基础应用。指导业务应用开发。业务应用对框架的需求和改造源码，可以通过流程方式升级源码工程，发布应用框架。



应用框架内置 CME-CORE、CME-API、CME-CACHE 和 CME-SMS 组件，并面向应用开放 PUBLIC、FRAME 和 PLUGINS 权限，开发者可对 PUBLIC 进行修改，定义页面场景、数据和配置等信息，对 FRAME 进行修改，重定义开发页面功能，样式风格和逻辑；对 PLUGINS 进行修改，扩展自定义的业务插件。

业务应用框架内部内置了自动检测脚本，和手动升级脚本，应用开发者可以自行运行监测组件是否需要升级。开发者根据业务需求，扩展开发的业务插件，可通过应用框架内置的打包脚本，发布到组件仓库当中。

MICAPS5 技术组可根据各组件的发布使用情况，对组件的优点进行集约整合，发布到新的一般应用框架当中。

4.1.2.3.多场景应用体系

多场景应用体系包括支撑环境和前台应用两部分内容。



1. 支撑环境

天气业务多场景应用体系支撑环境包括基础服务支撑接口和专用支撑服务两部分，用于支撑多场景应用框架的业务运行。基础服务支撑接口包括登录认证、配置支撑、权限控制、图层管理、数据获取、数据发布等接口，前端应用框架直接调用该类型接口进行数据交互；专用支撑服务包括综合制图、图文制作、IM通信、交互分析、产品发布、交互分享等服务，前端应用框架通过微前端集成方式集成应用支撑业务。

2. 前台应用

天气业务多场景应用体系由前端组件支撑、基础业务示范应用和业务应用3部分组成。前端组件支撑由JS-SDK组件和微应用组件组成；基础业务示范应用包括数字预报、风险预警、综合显示以及移动应用4个示例应用，通过示范应用的开发和应用，面向各业务提供基于示例应用的配置及服务能力，低代码开发体能增效；对于专有业务，可以在基础应用基础上通过定制化开发方式，部署于业务应用体系内支撑实时业务。

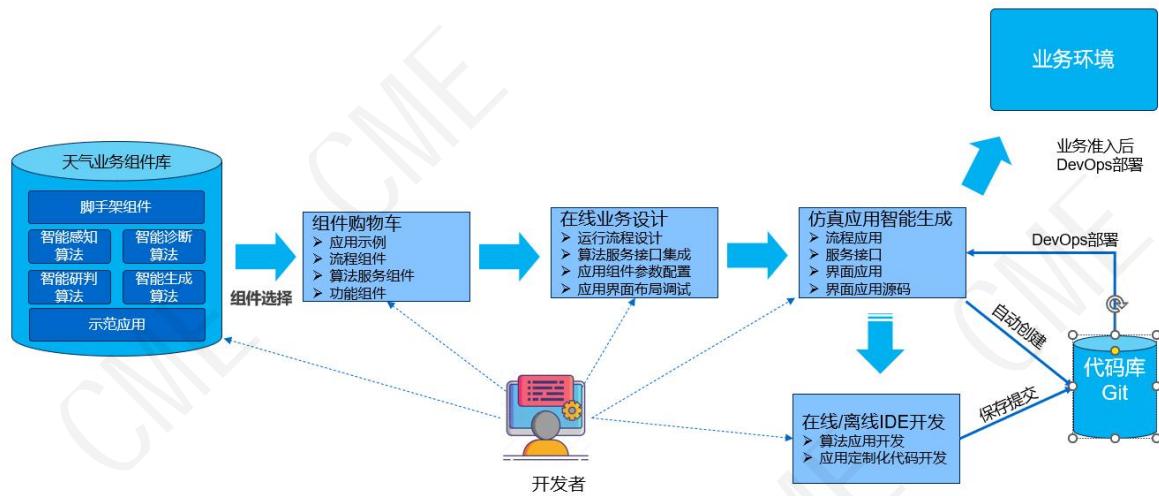
3. 专业应用开发流程

天气业务组件库为各开发者提供在线的组件API、预览和DEMO调试。并面向开发者提供组件选择的功能，开发者可以选择应用框架、地图组件、交互组件到购物车，系统自动为开发者提供选择的组件的示例工程。

开发者可在线对示例工程进行功能和流程设计，组件安装，生成可运行的程序。

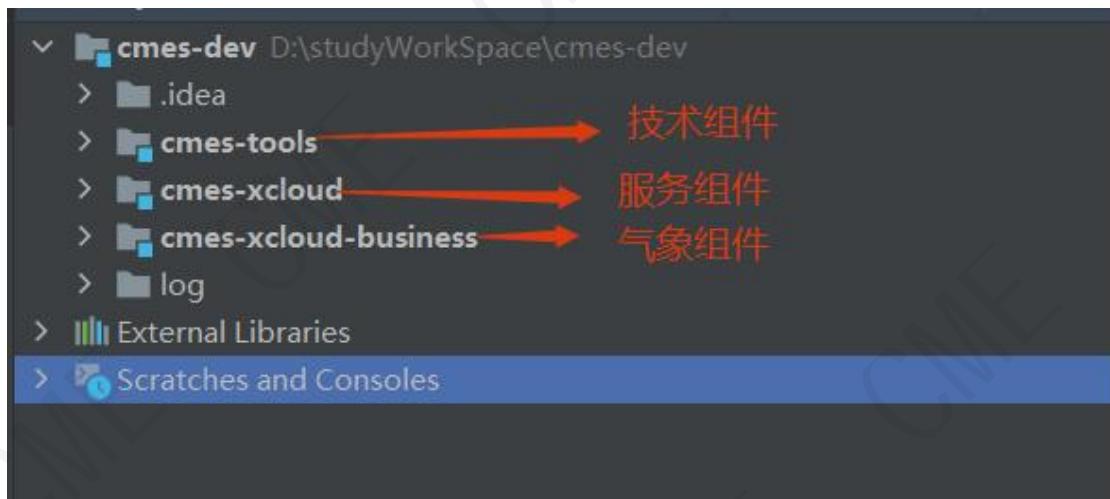
系统可自动化的将开发者的可运行程序自动化的部署到仿真环境进行项目

功能和性能测试。并进行在线或离线开发，形成专业的业务应用。



4.1.2.4.整体架构介绍

核心服务分为三部分：



1. 技术组件包含如:mybatis 组件，流程组件，普罗米修斯组件，安全组件等。

2. 服务组件包含：菜单服务，权限服务，租户服务，网关服务等可接入的业务服务
3. 气象组件：气象组件包含，music 天擎代理，数据服务，文件服务，天基，地基服务等气象相关服务

4.1.3.天气业务组件库

天气组件库基于中国气象局气象业务组件库建设，组件分层和分类参照相关标准进行设计。

4.1.3.1.平台通用组件

平台通用组件库：各类实况、模式和预报等数据访问、检索、地图服务、消息服务、位置服务。

平台通用组件（PGC）				
一级分类名称	一级标签	二级分类名称	二级标签	备注
消息通信类组件	MCC	组件化指南		
大数据分析类组件	BDA	组件化指南		
任务调度控制类组	TSC	组件化指南		
数据存储类组件	DSC	组件化指南		
		分布式时序数据库	TDB	IotDB
安全服务类组件	SSC	组件化指南		
数据服务类组件	DSC	通用数据服务接口类	UDSI	
		天气专用接口类	WSI	
		流程加工	FPC	
		支撑数据接口	SDI	
		消息交互接口	QII	
前端应用支撑类	FAS	微服务框架	MFC	
		基础功能类	BFT	
		气象业务支撑类	MBS	

运维配置类	OMC	
运营管理类	OMT	
开发管理类	DMT	
前台框架类	FFT	
应用示例类	EAC	

4.1.3.2.气象基础组件

气象基础组件：包括实况分析、物理量诊断、模式信息提取、检验信息提取，以及各类灾害性天气信息（台风、短临）和智能网格、影响评估等分析、处理、加工算法调用。

气象基础组件（MBC）				
一级分类名称	一级标签	二级分类名称	二级标签	备注
气象数据传输类组	MDT	组件化指南		
气象格式处理类组	MFP	组件化指南		
数据计算分析类组件	DCA	组件化指南		
		基础算法类组件	BAT	
		天气感知类组件	WPT	
		天气诊断类组件	WDT	
		天气研判类组件	WRJT	
		产品制作类组件	PMT	
		智能算法模型组件	AIM	
数据可视分析类组件	MDD	气象 GIS 底图服务组	MGIS	
		气象数据可视化服务	2DMDV	
		气象数据可视化服务	3DMDV	
		交互可视类组件	IVT	
		产品可视类组件	PVT	
		特种观测类组件	SOT	
业务产品制作类组件	OPP	气象专业绘图组件	MPD	
		通用图表绘制组件	GCD	

		业务文档智能生成组	ODIG	
		气象标绘类组件	MPT	
		网格编辑类组件	GEI	
		站点预报类组件	SFT	
		预警制作类组件	WPT	
业务监控类组件	OMC	组件化指南		
应用协同类组件	ACC	组件化指南		

4.1.4.业务应用组件

业务应用组件库：针对各类气象数据及其分析和统计结果的可视化显示与交互以及其它可视化业务逻辑。

业务应用组件（BAC）				
一级分类名称	一级标签	二级分类名称	二级标签	备注
气象数据传输类	MDT	组件化指南		
实况监测类业务组件	RTO	雷达产品生成组件	RPP	
		卫星资料反演组件	SDI	
		天气监测类组件	WMT	
		台风监测类组件	TYPM	
		海洋监测类组件	OCNM	
			
预报预警类组件	FWC	强天气短时临近预报	SWN	
		短期天气预报组件	SWF	
		中长期天气预报组件	MLF	
		模式产品释用组件	MPD	
		预报效果检验评估组	FVE	
		台风预报业务组件	TYPF	
		海洋预报业务组件	OCNF	
			
专业气象服务类组件	PMS	公共气象服务组件	PUMS	
		决策气象服务组件	DMS	
		国省服务类组件	NSMS	

		行业服务类组件	IST	
		海洋导航组件	OMN	
			

4.1.5. 资料类型标签

依据《气象资料分类与编码》（GBT 40153-2021）国家标准，资料类型标签如下：

一级分类名称	一级标签	备注
资料类型标签	地面气象资料	SURF
	高空气象资料	UPAR
	海洋气象资料	OCEN
	气象辐射资料	RADI
	农业气象和生态气象资料	AGME
	数值预报产品	NAFP
	大气成分资料	CAWN
	历史气候代用资料	HPXY
	气象灾害资料	DISA
	雷达气象数据	RADA
	卫星气象数据	SATE
	科学试验和考察资料	SCEX
	气象服务产品	SEVP
	空间天气资料	SPAC
	其他资料	OTHE
	地理信息数据	GISD
	多种资料	MULT

4.1.6.基础应用模板

4.1.6.1.数字预报模板

数字预报模板依托中台服务架构，以二三维地图为基础，内置综合监测、气候背景分析、预报分析、预报智能推荐等功能，通过数字预报编辑、多要素协同预报进行网格预报订正实现预报产品制作发布，并通过预警产品制作、预警信息国省互动等功能，推动保障产品和公报类产品制作；根据业务需求，模板还具备集成检验评估、复盘总结、专项保障等业务组件，开发者可以根据自身的业务需求，通过模板和组件集成方式，支撑天气预报、短临和环境、海洋气象数字预报业务。

4.1.6.2.风险预警模板

风险预警模板基于智能预报中台，以地图为背景，集成预警提示、气象灾害影响评估分析处理、影响分析、决策信息共享、灾害性天气预警和高影响天气预警等功能组件，业务应用可以基于风险预警模板，通过针对性的业务场景，定制预警和影响分析产品和算法，精准的服务决策用户。

4.1.6.3.综合显示模板

综合显示模板以大屏显示为主、小屏应用为辅的理念，针对大屏展示、大屏指挥、保障展示、参观接待、运维监控、产品黄页等场景提供一体化的展示设计，综合显示模板支持用户自定义场景，对天气、台风、海洋、强天气、环境、水文、农气生态和服务等业务场景提供综合集成和扩展的能力。

4.1.6.4.移动应用模板

针对公共、行业和决策服务等用户场景，开放框架提供移动应用支持，内置以地图为基础的实况、预报数据可视功能、预警服务产品通知功能和专业服务产品浏览功能和基础数据查询显示功能。开发者可基于移动应用模板结合自身业务特点，进行定制化扩展，扩展应用可以发布到 MICAPS5 对外服务环境，并被各类移动平台集成。

4.2.MICAPS5 核心技术路线

4.2.1.微服务架构

MICAPS5 整体采用微服务架构设计开发，通过 K8s(Kubernetes) 和 SpringCloud 组成混合微服务管理架构，主要算力服务基于众创接口底层 K8s+容器云实现微服务，上层业务应用通过 SpringCloud 进行面向业务的微服务功能集成。

4.2.2.气象数据实时显示与交互分析

MICAPS5 采用 B/S 技术开发，所有天气业务相关数据，通过 OGC、断点续传、流式服务等方式发布成气象数据图层供前端业务应用进行加载。

针对气象业务中常用的点、线、面等交互分析时间曲线、垂直探空、任意剖面等业务需求，MICAPS5 通过标准的组件交互接口，对各应用组件进行集成，集成方式包括 NPM 源码集成和微前端组件集成两种。

4.2.3.实时图像产品图服务

气象业务中，产品绘图服务在业务中存在着大量的应用场景，在传统的业务模式中，均采用预生成大量图片的方式进行存储和可视化服务，在此过程中，耗费大量的计算和存储资源，此类图片资源，业务用户使用场景不一，大量资源生产后没有被应用，或是低访问应用。

MICAPS5 结合业务需求，基于分布式技术采用实时绘图技术路线，针对高访问量的产品进行预处理、预服务方式，进行实时的产品图服务支撑，形成地图服务数据环境一致性极高的一体化路线。

4.2.4.协同编辑预报服务

气象业务格点协同编辑预报服务，采用国家级一套部署的业务应用模式，面向省级开放应用编辑端口，省级系统可集成国家级应用组件，定制化改造，形成国省一体的实时格点编辑功能。

格点编辑服务基于二维地图引擎，通过 CogTif 数据存储和服务技术支撑高分辨率的实时数据可视化渲染技术，通过 WebSocket 实现实时的交互编辑操作同

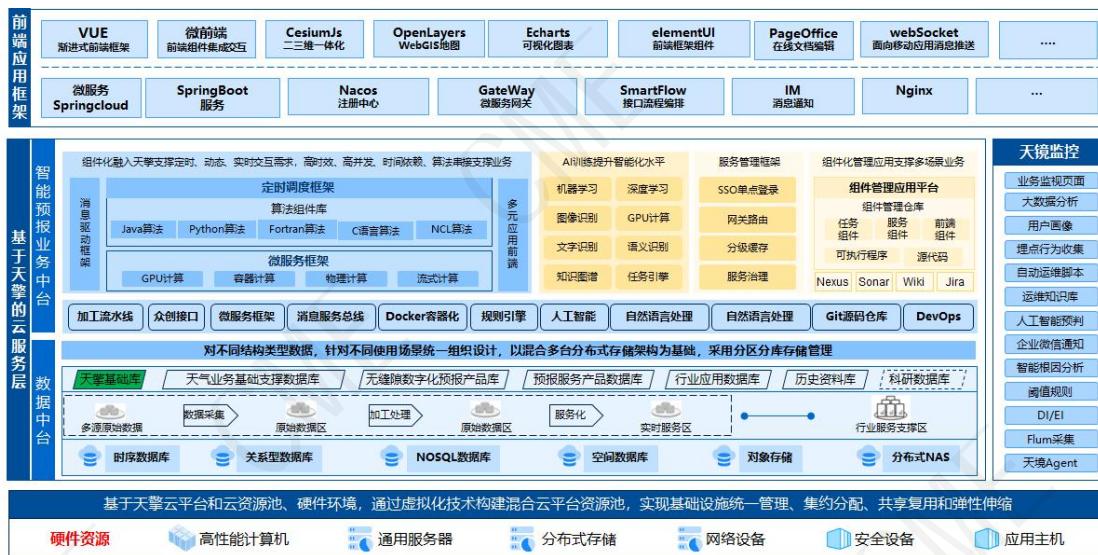
步，实现多端应用实时协同。后端数据编辑算法，通过先进先出的操作控制和更新数据日志记录等形式，实现更新数据的一致性。

4.2.5.在线协同服务

基于IM技术改造，集成气象业务用户管理，构建实时的业务应用群组，用户间可进行业务通知、预报思路分享、在线会商等，通过与地图的集成应用，构建具有气象特色的一体化协同办公环境。

4.3.MICAPS5 主体技术选型

MICAPS5 整体技术框架基于天擎进行部署，主要的数据、计算和服务都部署在天擎的加工流水线和众创接口。在非天擎环境部署安装时，基础的数据环境、存储设计、计算环境等应尽可能与天擎业务上的环境一致或近似，以保证各业务应用能够正常的集成运行。



4.3.1.基础运行环境

类型	名称	技术选型	版本	备注
操作系统	云端操作系统	中标麒麟	Server V10	
		Ubuntu	ubunt820.04	
		RedHat	7.5	
	客户端操作系统	Windows	Win10 以上	2012
客户端	浏览器	Chrome	119.0.0 以上	含内核

		edge		
	配置环境	CPU		
		内存		8G 以上
		WebGL		显卡 1G+
数据库	配置库	虚谷	天擎版本	非天擎
	结构化存储	虚谷	天擎版本	
	非结构化存储	虚谷+NAS 虚谷+对象	天擎版本	
	实时支撑库	Cassandra	天擎版本	待定 IoTDb
	历史分析库	Gbase	天擎版本	8
	地理分析库	Postgis	天擎版本	13.3
	缓存库	Redis	天擎版本	7.0.11
消息队列	MQ	RabbitMq	天擎版本	3.8.35
分布式环境	容器技术	Docker	天擎版本	24.0.2
	计算环境	天擎加工流水线	天擎版本	
	分布式环境	天擎容器云	天擎版本	Kubernetes
监控环境	监控环境	天镜		
基础环境	框架开发	Java	1.8	
	算法开发	Python	3.9	
	页面开发	Node	18	
其它环境	源码管理	GIT	2.30.0	
	组件管理	Nexus	天擎版本	
	在线开发	CloudIDE	天擎版本	

4.3.2. 平台框架环境

类型	名称	技术选型	版本	备注
后台框架	注册中心	Nacos	2.1.2	
	配置中心	Nacos	2.1.2	
	业务网关	Gateway	2.0.5	

	微服务框架	SpringCloud		
	远程调用	Feign		
	熔断	Hystrix	2.1.2	
	负载	Ribbon		
	限流	Sentinel		
	分布式事务	Seata		
	DAO	MybatisPlus	3.5.1	
	在线文档	Swagger	3.0.0	
	天擎版本	天擎版本	天擎版本	
	接口编排	SmartFlow	3.0.1	
	日志记录	Log4ga		
前台框架	页面框架	VUE	3	
	打包工具	Vite		
地图引擎	二维：	Openlayer	8.1.0	支持 Leaflet
	三维：	CesiumJs		集成 ThreeJs
	数字孪生：	UE	5	

4.3.3.数据产品输出格式

类型	名称	技术选型	版本	备注
产品格式	文档产品	Docx	2012	
		Pptx	2012	
		Xlsx	2012	

	网格产品	Grib	2	
		Netcdf	4	
		Tiff		
		Micaps		
	矢量产品	Geojson		
		Micaps		
三维数据格式	单体模型	gltf		
		Obj		
		Dae		
	3dtiles	B3dm		
		Pnts		
	地形	Terrain		

4.3.4.组件开发环境依赖

类型	名称	技术选型	版本	备注
服务组件	开发脚手架	Jdk	Jdk1.8	
	文档在线编辑	PageOffice		
	消息通知	WebSocket		
	单点登录	OAuth2		
	IM 会商			
	Json 格式	FastJson		
前台组件	前端框架	VUE	V3.0	
	跨页面协同			
	图表	Echarts	V5.4	
	UI	Element-Plus		
	WebGL 引擎	ThreeJS		
	打包环境	Webpack	V5.88	Rollup 3/Vite4
	运行环境	Node.js	V16.7	V16.7 及以上
算法组件	基础环境	Python	3.9	

	多线/进程			
地图工具	Basemap			
科学计算	Numpy			
文档制作				
地理空间	GDAL			
	Rasterio			
NC 格式工具	Netcdf			
天气学诊断分析工具	Metdig			

第五章 组件命名及研发标准

5.1.组件命名和元数据

5.1.1.组件命名规范

MICAPS5 组件分类及命名标准参照《气象业务软件组件化开发指南（2023 版）》进行组件标准命名，并参照分类标准进行命名。根据组件的分层、分类及分级标签进行分段编码命名。组件的名称由 5 部分代码组成，规则如下：

[组件分层]-[组件一级分类]-[组件二级分类]-[组件资料类型标签]-[扩展字段]

组件命名时取各代码的英文缩写，各代码之间用中划线”-”连接。

根据《气象业务软件组件化开发指南（2023 版）》分类标准，气象组件分为平台通用组件（PGC）、气象基础组件（MBC）、业务应用组件（BAC）。

天气业务根据自身特点，对扩展字段格式定义如下[组件用途+组件简称+版本]，业务定义可通过“_”进行分割，字符总数 20 个以内。

组件版本命名为 V 主版本号.子版本号.修正版本号。

例如：台风 TRACKER 显示组件：

BAC-FWC-TYP-NAFP-[F_TRACKER_V1.0.0](#)

其中，BAC 为业务应用组件层标签，FWC 为一级分类预报预警组件标签，TYP 为二级分类台风预报业务组件标签，NAFP 为组件适用于模式资料标签，扩展字段前两位 F 指专用的交互功能组件，TRACKER 指算法名称。

按照天气业务组件用途，组件可以按照数据服务（D）、计算算法（A）、可视服务（V）、分析制作功能（F）、管理运维（O）；

标签类型	中文名	说明	英文代码
组件用途标签	数据处理组件	包括数据采集、处理、入库、质控、格式转换和分发等基础数据操作。	D
	业务算法组件	包括基础的 IT 算法、气象算法和智能 AI 算法等	A
	接口服务组件	通过 RestFul、Socket 等形式的功能组件	V
	交互功能组件	前端可视、交互应用功能类组件	F
	管理运维组件	面向运维人员的管理、运维、开发功能组件	O

标签类型中文名说明英文代码

组件用途标签数据处理组件包括数据采集、处理、入库、质控、格式转换和分发等基础数据操作。D

业务算法组件包括基础的 IT 算法、气象算法和智能 AI 算法等A

接口服务组件通过 RestFul、Socket 等形式的功能组件V

交互功能组件前端可视、交互应用功能类组件F

管理运维组件面向运维人员的管理、运维、开发功能组件O

5.1.1.1.包命名

(1) 全部小写：包名应全部使用小写字母，并且使用点（.）分隔，如 com.example.project。

(2) 有意义：包名应使用有意义的单词或短语，以便于理解和维护。

(3) 遵循反向域名规则：包名应遵循反向域名规则，这有助于避免命名冲突。

5.1.1.2.类命名

(1) 首字母大写：类名应以大写字母开头，使用驼峰命名法（大驼峰），即每个单词的首字母都大写，如 HelloWorld。

(2) 名词或名词短语：类名通常是名词或名词短语，应具有描述性。

(3) 接口命名：接口名除了可以用名词和名词短语外，还可以使用形容词或形容词短语，如 Cloneable，表示实现该接口的类具有某种功能或能力。

5.1.1.3.方法命名

(1) 首字母小写：方法名应以小写字母开头，使用驼峰命名法（小驼峰），即除了第一个单词外，每个单词的首字母都大写，如 showMessage。

(2) 动词或动词短语：方法名通常使用动词或动词短语，与参数或参数名共同形成动宾短语，即动词+名词。

5.1.1.4. 变量命名

- (1) 首字母小写：变量名也应以小写字母开头，使用驼峰命名法（小驼峰）。
- (2) 描述性：变量名应具有描述性，能够反映其用途或所代表的数据。
- (3) 避免单个字符：尽量避免使用单个字符作为变量名，除非是在循环计数器等特殊情况下。

5.1.1.5. 常量命名

- (1) 全部大写：常量名应全部使用大写字母，并使用下划线（_）分隔单词，如 MAX_VALUE。
- (2) 避免缩写：常量名应尽量避免使用缩写，除非该缩写是广泛认可的。

5.1.1.6. 构造方法命名

- (1) 与类名相同：构造方法的命名应与类名相同，并且没有返回类型（即使用 void 以外的任何类型都是错误的）。
- (2) 参数描述性：构造方法的参数应具有描述性，并且与类的属性名称保持一致。

5.1.2. 组件元数据

天气业务组件库参照《气象业务软件组件化开发指南（2023 版）》，天气业务不单独对元数据进行定义。

序号	元数据分类	中文名称	短名	定义	描述	约束/条件	样例
1	基础描述	组件中文名称	comCHName	气象组件的中文名称	20 个中文字符之内，能够	必填	散点图形绘制组件

序号	元数据分类	中文名称	短名	定义	描述	约束/条件	样例
	信息				体现该组件的主要功能		
2		组件英文名称	comENName	气象组件的英文简称	按照组件化开发指南中的相关要求，首字母大写	必填	Scatter Diagram Component
3		组件版本号	comVer	气象组件的版本号	格式为 Va.b, a 为组件主版本号, b 为组件次版本号	必填	V1.1
4		组件版本描述	comVerDesc	当组件有升级时，需给出该版本较上一个版本做了哪些升级内容	说明该版本较上个版本做了哪些升级	非必填	较 V1.0 增加了图例修改功能
5		组件分类	comClass	气象组件的分类	按照组件化开发指南中组件一级分类要求	必填	基础组件
6		组件标签	comLabel	气象组件的标签	按照组件化开发指南中二级分类要求	必填	CFC
7		组件简介	comIntro	组件实现的具体功能说明及组件适用的场景与条件说明	详细描述组件的功能与应用场景，50个中文字符以上	必填	基于 x-y 输入数据，实现散点图的绘制
8	版权信息	组件开发者	comRer	组件开发者姓名	中文姓名	必填	张三
9		开发者所属单位	comDevCom	组件开发者所在单位全称	国家级单位到司局级，省局到处室	必填	
10		组件注册时间	comRegTime	气象组件的注册时间	取值统一为北京时间, 格式为 YYYY-MM-DD	必填	2022-08-08
11		开发者联系方式	comDevTel	组件开发者联系电话	座机号（区号-座机号）或手机号（11位）	必填	12345678998

序号	元数据分类	中文名称	短名	定义	描述	约束/条件	样例
12	应用描述信息	组件维护者	comMainer	组件运行维护者姓名	中文姓名	必填	李四
13		维护者所属单位	comMainerCom	组件运行维护者所在单位全称	国家级单位到司局级，省局到处室	必填	
14		维护者联系方式	comMainerTel	组件运行维护者联系电话	座机号(区号-座机号)或手机号(11位)	必填	010-12345678
15		组件技术方案	comTechSchem	组件开发时所基于的技术方案文档	技术方案文档中需包含组件的功能描述、架构图、流程图与相应的文字描述等	必填	--
16		组件准入评估报告	comAssessRep	组件业务准入评审报告	需包含准入评审意见与专家签到表	非必填	--
17		组件输入参数	comInPara	组件的输入参数	包含输入参数的中文名、英文名及参数类型	非必填	中文名：输入参数 英文名：InPara 类型：文本
18		组件输出参数	comOutPara	组件的输出参数	包含输出参数的中文名、英文名及参数类型	非必填	中文名：输出参数 英文名：OutPara 类型：JPG
19		组件开发语言	comDevLang	组件开发所用的语言	不限于C、C++、Java、Python等	必填	Python3.5
20		操作系统	comRunEnv	组件运行所依赖的操作系统	包含操作系统及版本	必填	RedHat 7.5
21		组件依赖环境	comDepEnv	组件运行所依赖的运行环境	罗列所需的依赖环境及版本	必	Python3.5
22		运行所需资源	comSysRes	组件运行所需的硬件资源	包括所需的CPU与内存	必填	1核 1G
23		使用说明	comManual	组件的使用方式与调用	中文描述组件的使用方	必填	--

序号	元数据分类	中文名称	短名	定义	描述	约束/条件	样例
	调用示例			方法说明	式与调用方法		
24		comCallDemo		组件的调用示例	给出具体的调用示例	必填	--
25	扩展信息	扩展信息	comExtInfor	组件元数据扩展信息	中文描述, 50字符以内	非必填	--

5.2.组件开发原则

MICAPS5 的建设的目的之一是解决历史原因开发过程中大量烟囱系统的问题，而不是在 MICAPS5 中开发大量烟囱组件。MICAPS5 组件化开发需要遵循以需求为引导、标准专业、易用通用原则和组件反馈原则。

5.2.1.需求引导原则

MICAPS5 中，每个组件开发都需要进行需求设计评审，以确保组件开发设计合理、符合业务应用。

5.2.2.标准专业原则

组件作为气象业务的基础业务单元，应确保组件符合气象业务特点，专业标准、性能可靠。

5.2.3.通用易用原则

MICAPS5 前、后端组件设计开发均应考虑复用原则，都需要支持灵活的参数传递，在 MICAPS5 基础框架下保障多场景集成应用。

5.2.4.组件反馈原则

MICAPS5 的应用用户在应用开发的过程中，需要对应用中使用到的各类组件进行评价和反馈，以便促进组件版本的持续发展，反馈的内容包括：组件的功

能、性能、帮助材料、易用性、扩展性、稳定性等内容。

5.3.组件设计

5.3.1.接口设计

为方便 MICAPS5 集成及未来技术升级，MICAPS5 组件基础接口标准根据组件不同，采用不同最低标准定义，流程和算法组件需要支持命令行接口模式，服务接口需要支持 RestFul 接口模式，前台组件需要支持 Js-Sdk 模式。

5.3.2.信创支持

组件应该在不同设备上具有良好的兼容性，确保用户能够在各种环境下正常访问和使用组件，组件应支持信创操作系统。

5.3.3.日志记录

设计和实现前端的日志记录机制。记录关键操作、错误信息等重要日志，以便后续的故障排查和分析。日志记录级别包括 INFO、DEBUG、WARNING、ERROR 级别，要去 WARNING、ERROR 发送 EI、DEBUG 发送 DI。系统可以定义。

5.3.4.依赖引用

使用包管理工具（如 npm、Yarn、pom）进行依赖的安装、更新和管理，以确保前端项目的依赖与应用仓库的要求保持一致，开发所引用的依赖，要求所有的包必须有源码或源码可控。

5.3.5.组件集成

按照天气业务组件复杂程度，组件可以分为单一组件、组合组件、专用组件、框架功能、其它组件；

标签类型中文名说明

复杂程度标签单一组件由单一功能封装形成，只作为工具类使用，不具有实际业务意义的组件。

组合组件由单一组件通过业务/数据配置形成的功能组件，特点配置。

专用组件由单一组件或者组合组件通过一定的代码开发形成的专业组件，特点非配置，需开发。

框架组件实现天气业务应用框架功能的组件，作为框架的基础部分。

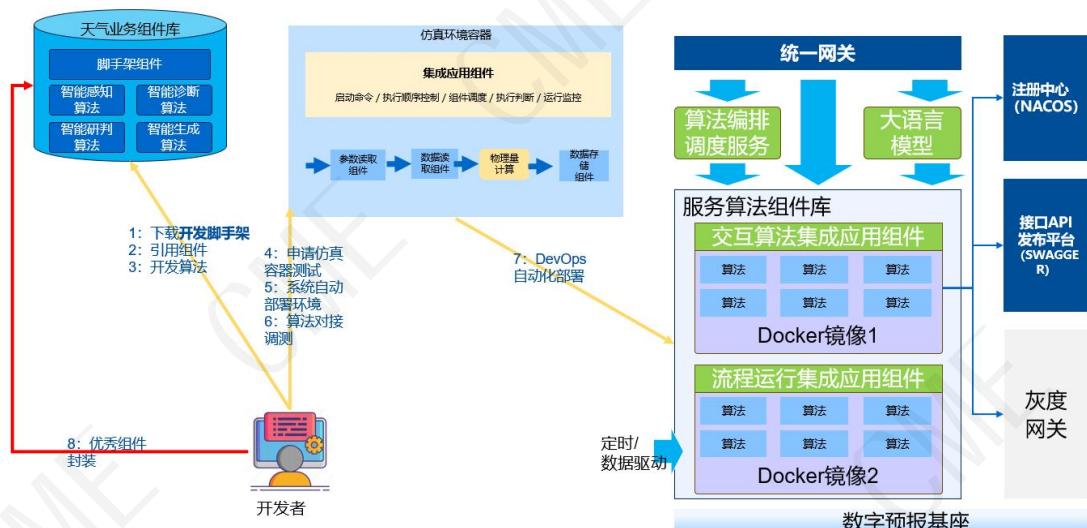
其它组件其它非以上定义的业务组件

单一组件不具有应用意义，须由开发者进行配置或者代码开发，形成组合组件或专用组件，以供 MICAPS5 应用框架集成。

5.4.组件开发流程

5.4.1.数算服务组件开发及发布

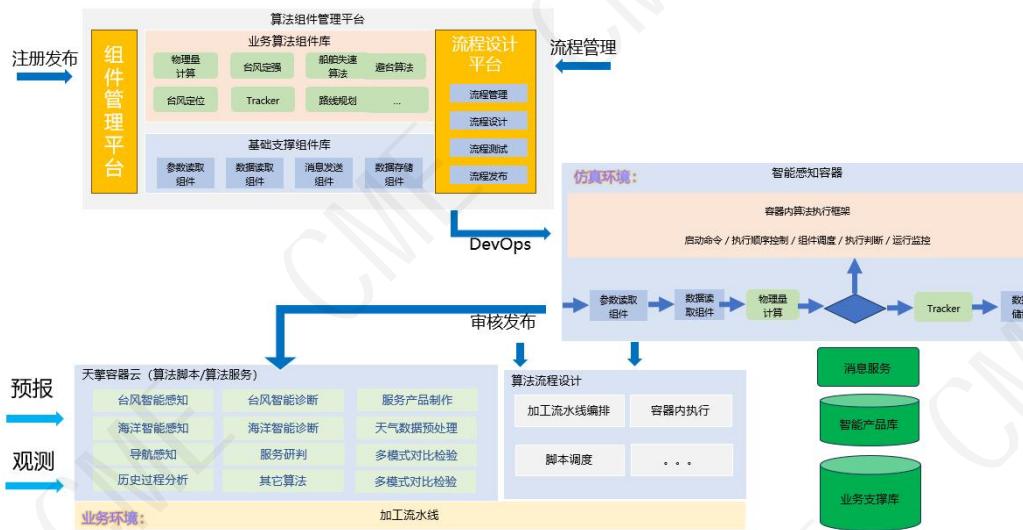
数据服务和计算服务组件根据系统的开发设计，主要包括流程运行式和交互支撑式组件，MICAPS5 通过流程运行集成应用组件和交互算法集成应用组件，统一集成，减少开发者的开发和集成难度，注重算法研发。组件开发及发布流程如下：



5.4.1.1. 组件开发脚手架开发及发布

开发者根据开发需要，下载 Java、Python 开发脚手架，进行组件功能开发。组件功能开发完成后，开发者可以通过脚手架，自动打包发布成 jar、pip 包等可执行程序的类库。

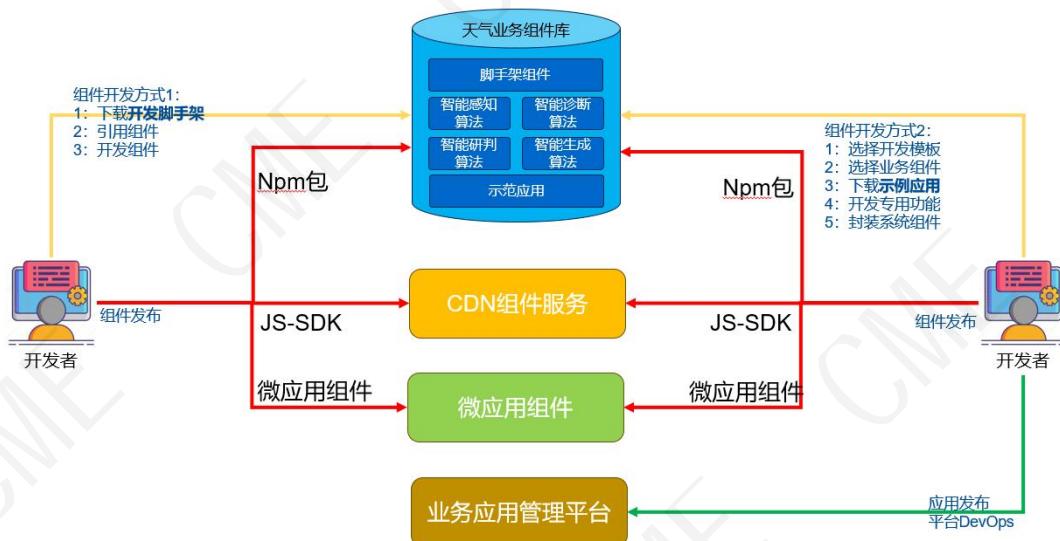
组件打包：在工程目录下，执行以下命令：



通常情况下，组件就会被打包到 Maven 仓库，其他工程即可引用；同时，由于需要进行组件准入评估，审核后自动进气象软件应用仓库。

5.4.1.2. 组件应用及部署调试

1. 自动运行组件

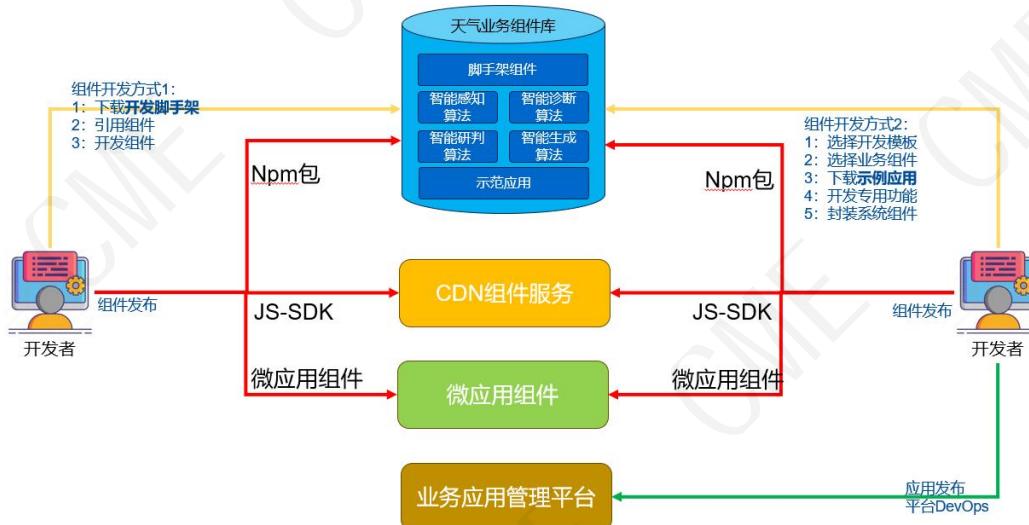


开发者在线选取业务组件，系统自动生成仿真环境容器，并创建基础开发环境，组件安装目录，开发者可以在线开发，进行业务流程、算法调试，测试通过后，可以通过 DevOps 流程，自动发布到天擎加工流水线上运行。

2. 交互服务组件

交互服务开发需要，根据业务选择算法组件，下载 Java 集成框架，系统自动创建部署镜像容器，开发者可对框架参数进行配置，通过在线调试或离线开发方式进行算法的集成调试部署。

5.4.2. 前端组件开发及发布



5.4.2.1. 组件开发

组件开发脚架为面向开发者提供前端业务组件开发的示例应用。通过脚手架，开发者可以进行组件开发并在完成开发后自动将组件发布到组件商店。开发者也可选择先在示例应用上开发，开发完成后在进行组件封装的模式。

组件开发/封装：根据设计和技术选型，安装本地组件开发工具和初始化组件模版，使用所选的前端框架和开发工具，按照规范和最佳实践，实现组件的各项功能和交互效果。

5.4.2.2. 组件发布流程

组件发布：根据具体需求和场景，选择合适的方式来发布。可以将组件发布到公共的包管理器（如 Nexus-npm）上，供其他开发者通过包管理工具来安装和使用。也可以将组件打包成独立的文件，通过 CDN 发布，并在组件应用平台上展示调用 demo。

5.5.组件生命周期管理

气象业务软件组件的生命周期从组件设计开发和测试开始，经历准入评估、提交注册、元数据生成与管理、组件发布与更新、接受评价考核，最终因不满足业务应用需求退出而结束。

5.5.1.组件准入评估

国家气象中心根据准入评估工作要求和标准规范开展评估工作。评估的内容包括以下方面：

- 组件功能是否正确。
- 组件性能是否满足业务要求。
- 组件元数据定义是否规范，是否符合标准。
- 组件使用手册是否清晰明确。
- 组件运行环境是否符合业务要求。
- 组件使用的系统、网络资源等利用率是否合理。

开发人员可通过气象大数据云平台，对算法(组件)的质量进行自评估，对照准入标准进一步完善组件，提升开发质量。具体操作办法参见《气象大数据云平台应用开发手册》。

5.5.2.组件提交注册

组件提交注册时，分别提交/上传组件包和组件说明文档两个文件并完成注册信息填报，同时按照组件版本管理标准进行版本标定。组件提交注册和发布更新时需要同步提交或更新组件元数据信息。

组件源代码另行在中国气象局统一代码管理平台进行统一管理、授权访问。

5.5.3.组件发布

提交注册的组件经审核后，正式在气象软件应用仓库发布。成功发布的组件，用户可以查询、搜索和共享使用。

5.5.4.组件更新与版本管理

组件更新包括基本信息修改和组件版本升级。

基本信息修改可以直接在气象软件应用仓库操作，修改内容限定为可读写的元数据，经管理员审核通过后更新。

组件版本升级应遵循以下步骤：

- 1.保留当前版本的组件，对后续版本的组件按流程进行测试、评估、注册和发布，其中评估步骤可根据更新文档的内容进行简化；
- 2.将当前版本及后续版本的组件的实体及相关信息分别在组件应用仓库进行备案；
- 3.管理员正式在平台中发布版本升级更新信息。

相同功能采用不同的算法、开发语言均应视为不同的组件、不同的版本。

5.5.5.组件应用评价考核

组件应用评价基于量化分析统计结果，主要从组件应用情况的评价和业务系统建设的组件化考核 2 个方面开展：

- 1.组件应用的评价：针对组件使用次数、灵活性等进行统计评价，设定组件发布后一段时间内的积分指标，对积分结果进行量化评价。
- 2.业务系统建设的组件化考核：对于新建的气象业务系统，重点考核对现有组件的复用情况和新建组件贡献情况。

6.5.6组件退出

在使用组件过程中，如果发现组件存在缺陷、低版本组件不再维护、组件功能已无实际使用价值，可由组件贡献者向管理员申请退出。

组件退出后，气象软件应用仓库不再提供该组件的检索、下载等功能，但组件元数据及组件实体仍然存在，对应的业务系统不受影响。

第六章 组件研发集成规约

为保证 MICAPS5 框架、多场景业务应用开发过程中，场景能够实现快速集成、高效稳定运行，针对数据环境、服务框架、接口服务、计算服务、消息服务、前台组件、前台应用、配置管理等多场景制定如下规范，以方便后期多场景业务集成。

6.1.服务框架

6.1.1.注册中心

服务框架通过 alibaba-nacos 的 2021.0.5.0 版本。新开的服务严格要求使用服务端的脚手架工程，脚手架中默认有服务中心的配置。对于老的微服务服务最低改造要求要使用 alibaba-nacos 的 2021.0.5.0 版本，最好也应该改造成服务脚手架一套的体系。

6.1.2.网关路由

路由(Route): 由一个 ID，一个目标 URI(最终路由到的 url 地址)，一组断言(匹配条件判断)和一组过滤器定义。如果断言为真，则路由匹配。

```
spring:
  cloud:
    gateway:
      routes:
        - id: manager# 路由唯一标识
          uri: lb://manager_server# 路由指向目的地 URL 或服务名，客户端请求最终被转发到的微服务
          predicates:
            - Path=/manager/** # 断言：以 manager 开头的请求都负载到 manager_server 服务
          filters:
            - RewritePath=/manager/(?<segment>.*), /$<segment> # 过滤器：过滤掉 url 里的 manager,例如
              http://ip:port/manager/test -> http://ip:port/test
          order: 5# 用于多个 Route 之间的排序，数值越小越靠前，匹配优先级越高
```

断言(Predicate): 通过断言匹配 http 请求中的任何内容(请求头、请求参数等)，如果匹配成功，则匹配断言所在路由。

```
spring:
  cloud:
    gateway:
      routes:
```

```

- id: manager
  uri: https://manager_server
  predicates:
    - After=2017-01-20T17:42:47.789-07:00[America/Denver]# 时间点后匹配
- Before=2017-01-20T17:42:47.789-07:00[America/Denver]# 时间点前匹配
-
Between=2017-01-20T17:42:47.789-07:00[America/Denver], 2017-01-21T17:42:47.789-07:00[America/Denver]# 时间区间匹配
- Cookie=chocolate, ch.p# 指定 cookie 正则匹配
- Header=X-Request-Id, \d+## 指定 Header 正则匹配
- Host=**.somehost.org, **.anotherhost.org# 请求 Host 匹配
- Method=GET, POST# 请求 Method 匹配指定请求方式
- Path=/red/{segment}, /blue/{segment}# 请求路径正则匹配
- Query=green# 请求包含某参数
- Query=red, gree.# 请求包含某参数并且参数值匹配正则表达式(匹配 red;green, greet, gree...)
- RemoteAddr=192.168.1.1/24# 远程地址匹配
# 设置分组和权重，按照路由权重选择同一个分组中的路由
- id: preManager1
  uri: https://preManager1
  predicates:
- Weight=group1, 2
  - id: preManager2
    uri: https://preManager2
    predicates:
- Weight=group1, 8

```

过滤器(Filter): 在请求前后执行业务逻辑，比如鉴权、日志监控、流量控制、修改请求头、修改响应等。

➤按生命周期分类

前置(pre)过滤器: 在请求被路由之前调用：在 chain.filter(exchange)前编写过滤器逻辑

后置(post)过滤器：在路由到微服务之后调用：通过 chain.filter(exchange).then(Mono.fromRunnable(() -> {过滤器逻辑}))实现

➤按类型分类

局部(GatewayFilter)过滤器: 作用在某一个路上，使用时需要关联指定的路由

全局(GlobalFilter)过滤器: 作用在所有路上，不需要在配置文件中配置。

```
spring:
```

```

cloud:
  gateway:
    routes:
      - id: gateway_filter
        uri: https://example.org
  predicates:
    - Path=/red/{segment}
  filters:
    # 1、为原始请求添加 Header。headerName: X-Request-red, headerValue: blue。
    - AddRequestHeader=X-Request-red, blue
    - AddRequestHeadersIfNotPresent=X-Request-Color-1:blue, X-Request-Color-2:green
    # 2、为原始请求添加参数。参数名, 参数值
    - AddRequestParameter=red, blue
    # 3、为原始响应添加 Header
    - AddResponseHeader=X-Response-Red, Blue
    # 4、剔除响应头中重复的值
    - DedupeResponseHeader=Access-Control-Allow-Credentials
      Access-Control-Allow-Origin
    # 5、为原始请求路径添加前缀
    - PrefixPath=/mypath
    # 6、配置该过滤器后,会原始请求的 host 头信息,并原封不动的转发出去,而不是被 gateway
      的 http 客户端重置。
    - PreserveHostHeader
    # 7、将原始请求重定向到指定的 URL, 参数为 http 状态码及重定向的 url
    - RedirectTo=302, https://acme.org
    # 8、移除响应 Body 中的指定 key
    - RemoveJsonAttributesResponseBody=id, color
    # 9、移除原始请求中的指定 Header
    - RemoveRequestHeader=X-Request-Foo
    # 10、移除原始请求中的指定参数
    - RemoveRequestParameter=red
    # 11、移除响应中的指定 Header
    - RemoveResponseHeader=X-Response-Foo

```

一个简单的 gateway 配置示例：

```

spring:
  cloud:
    gateway:
      discovery:
        locator:
          # 表明 Gateway 开启服务注册和发现的功能, 并且 Spring Cloud Gateway 自动
          根据服务发现为每一个服务创建了一个 router, 这个 router 将以服务名开头的请求路径转
          发到对应的服务
        enabled: true

```

```

# 将请求路径上的服务名配置为小写(因为服务注册的时候,向注册中心注册时
将服务名转成大写的了)
lower-case-service-id: true

routes:
# 系统管理
- id: sys-mgt
  uri: lb://sysmgt
  predicates:
  - Path=/sys-mgt/** #以 sys-mgt 开头的请求都负载到 sysmgt 服务
- Method=GET#只匹配 GET 请求
  filters:
  - RewritePath=/sys-mgt/(?<segment>.*), /$<segment> #过滤掉 url 里的
    sys-mgt, 例如 http://ip:port/sys-mgt/test -> http://ip:port/test
  - PrefixPath=/mgt#为请求添加/mgt 前缀, 再结合 RewritePath 过滤器,
    http://ip:port/sys-mgt/test -> http://ip:port/mgt/test

```

6.1.3.配置规范

微服务模块下必须包含两个配置文件 application.properties、bootstrap.properties。

application.properties: 主要包含通用数据连接、Redis 连接等通用配置。该配置文件中的内容每个微服务保持相同，在组织中使用同一的配置管理器的情况下该文件不需要修改。

bootstrap.properties: 主要包含了注册中心 nacos 地址配置、通用配置服务器地址配置等相关信息，本微服务内需要添加的特定配置项可在该文件中进行配置

在主程序中需要访问配置文件的类名上加上注解：@RefreshScope，如果没有该注解，配置服务将不能主动通知客户端服务更新配置。如下：

```

@RefreshScope
@RestController
public class MessageRestController {
    @Value(" ${message>Hello default} ")
    private String message;
    @RequestMapping("/message")
    String getMessage() {
        return this.message;
    }
}

```

➤ Spring Cloud 服务配置

所有服务的配置文档均保存于 PAAS 代码仓库上，并通过配置服务

config-service 来获取配置。每个服务在 PAAS 代码仓库均保存一份以服务 id 命名的 properties 文件。

以服务 spring-boot-demo 为例，其在 PAAS 代码仓库上的配置文件为 spring-boot-demo.properties，文件名对应于该服务的 bootstrap.properties 中配置的 spring.application.name 的 value 值。如果名称不一致，配置服务将拿不到正确的配置信息。

在 spring-boot-demo.properties 中通常配置该服务的启动端口、数据库连接参数等信息。当该文件有更新并 push 到 PAAS 代码仓库后，配置服务会自动通知客户端服务更新配置信息。

➤关键配置：

在主程序中需要访问配置文件的类名上加上注解：@RefreshScope，如果没有该注解，配置服务将不能主动通知客户端服务更新配置。如下：

```
@RefreshScope
@RestController
public class MessageRestController {
    @Value("${message>Hello default}")
    private String message;
    @RequestMapping("/message")
    String getMessage() {
        return this.message;
    }
}
```

当 spring-boot-demo.properties 文件里的 message 变量发生变化后，请求 /message 时返回的 message 值将是更新后的 message 内容。

➤pom.xml 关键依赖项：

```
<dependency>
<groupId>org.springframework.cloud</groupId>
<artifactId>spring-cloud-config-client</artifactId>
</dependency>
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-actuator</artifactId>
</dependency>
```

同时需要引入 spring cloud 的依赖项

```
<dependencyManagement>
<dependencies>
```

```
<dependency>
    <groupId>org.springframework.cloud</groupId>
    <artifactId>spring-cloud-dependencies</artifactId>
    <version>Camden.SR5</version>
    <type>pom</type>
    <scope>import</scope>
</dependency>
</dependencies>
</dependencyManagement>
```

在 src/main/resource 目录建立 bootstrap.properties 文件，设置配置服务 url 与 service id。

bootstrap.properties 文件内容：

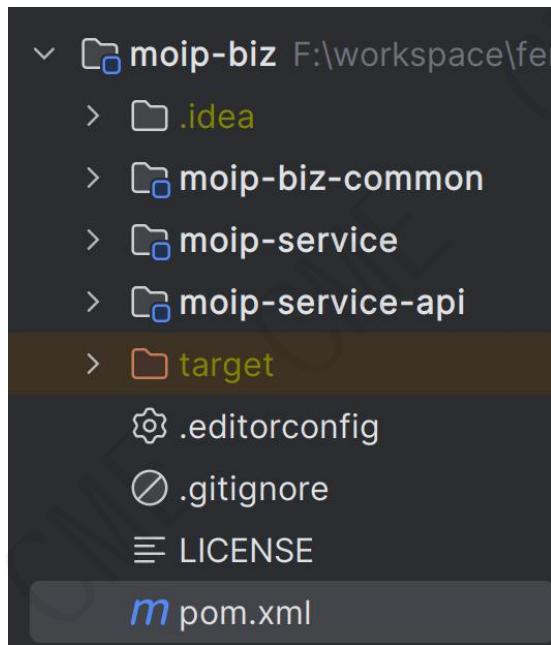
```
#配置服务地址
spring.cloud.config.uri=http://172.168.4.43:9999
#service name
spring.application.name=spring-boot-demo
```

注：不能在 application.properties 设置配置服务的 url，因为 application.properties 的启动优先级最低，不能在程序启动之前读取到配置服务 url，从而不能加载配置服务上相应的配置。

6.1.4.服务开发脚手架

Java 服务开发脚手架是基于 SpringCloud 微服务架构，采用 Java8 API 重构了业务代码，完全遵循 JAVA 编码规范。采用 Spring Boot 2、Spring Cloud Greenwich、Mybatis 等核心技术。该体系下的微服务统一注册至 Nacos，Nacos 担任注册中心与配置中心的角色，服务采用 Feign 进行远程调用，Ribbon 进行负载，Hystrix 进行熔断，Sentinel 进行限流，保障系统整体的性能；集成 Seata，为分布式事务保驾护航，具有日志收集与监控服务为一体的能力。

下载 Java 的脚手架工程实例，里面已经配置好了工程的主体目录结构：



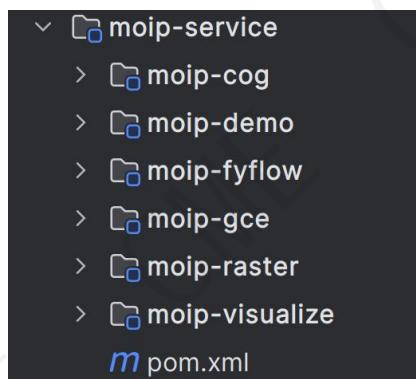
moip-biz-common 放公共配置已经公共基础组件

Moip-service:业务微服务工程

Moip-service-api: 业务微服务工程对应的 api

其中 moip-service 可以更具业务的情况建立多个微服务的工程

例如：



此脚手架工程依赖包在在一体化建立的组件仓库中。具体引用如下：

```
<dependencyManagement>
    <dependencies>
        <dependency>
            <groupId>org. springblade. platform</groupId>
            <artifactId>blade-bom</artifactId>
            <version>1. 3. 2. 0. RELEASE</version>
            <type>pom</type>
            <scope>import</scope>
        </dependency>
    </dependencies>
```

```
</dependencyManagement>
```

6.2. 接口服务

MICAPS5 接口服务包括功能接口和轻量级数据计算服务接口，功能接口部署在虚拟资源池，轻量级数据计算服务接口部署在天擎容器云。为保障界面应用的高交互支撑，良好的用户响应，原则上所有接口的服务响应时间在 3s 以内，特殊情况或数据计算量稍大时最长不超过 30s，针对大量的数据服务或计算服务业务需求，需通过计算服务接口实现，既加工流水线实现。

6.2.1. 基础配置规范

MICAPS5 中，所有天擎基础服务（如：基础数据库、文件访问目录、输出目录以及通用接口地址等配置）的读取均需要通过默认配置文件进行读取，读取路径为：/CMADAAS/APPPDATA/CONFIG/ env.properties。

```
## Version=1.0
## 数据库
# STDB 要素服务库
datasource. stdb. dbname=BABJ_STDB
datasource. stdb. addresses=10. 20. 108. 27
datasource. stdb. port=5138

# FIDB 文件索引库
datasource. fidb. dbname=BABJ_FIDB
datasource. fidb. address=10. 20. 108. 27
datasource. fidb. port=5138

# HADB 历史分析库
datasource. hadb. dbname=BABJ_HADB
datasource. hadb. address=10. 20. 108. 32
datasource. hadb. port=5258

# RSDB 空间分析库（栅格）, Raster
datasource. rsdb. dbname=postgres
datasource. rsdb. address=10. 20. 108. 35
datasource. rsdb. port=5432

# 分布式对象存储，bucket 主备一致
datasource. obs. url=obsxx. lan. nmic. cn
```

```

# 分布式 NAS 存储, 读写根目录 (数据目录和应用临时目录)
datasource.nas.data.rootdir=/CMADAAS/DATA
datasource.nas.app.rootdir=/CMADAAS/APPDATA

## 服务接口
# MUSIC 地址, 包含 sdk 和 rest 两种方式
datasource.music.rest.address=10.20.108.19
datasource.music.rest.port=80
datasource.music.sdk.address=10.20.108.19
datasource.music.sdk.port=80

## 业务监控
# 监控地址
#monitor.di.single.url=http://127.0.0.1:29999/transfer
#monitor.ei.single.url=http://127.0.0.1:29999/transfer
monitor.di.single.url=http://di.tianjing.cmadaas:29999/transfer
monitor.ei.single.url=http://di.tianjing.cmadaas:29999/transfer

## 接口众创
# 为区分本系统与其他系统的差异, 配置以 music 开头
# 日志服务地址
music.log.service.url=http://10.1.1.1:9002/music-log-process/addlog
# 接口网关
#system.api.gateway.url=

```

6.2.2. 接口服务规范

气象业务软件组件接口主要从接口名称、接口参数和返回码与数据格式 3 个方面进行规范。

6.2.2.1. 接口命名规范

接口的命名规则：以 /api 或 /[version]/api 开头/{接口功能}{资料类型}{数据内容}{主要条件}，其中{接口功能}和{数据内容}为必需，{资料类型}和{主要条件}为可选。各部分的取值规则如下：

1. 接口功能命名规范

接口功能定义	含义	接口功能定义	含义
Get	检索	create	创建
Stat	统计	close	关闭
Save	保存	destroy	释放
saveOrUpdate	保存或更新	decode	解码

update	更新	encode	编码
delete	删除	convert	转换
encrypt	加密	interpolate	插值
analyse	分析	Inspect	检验
forecast	预报	evaluate	评估
diagnosis	诊断	collect	采集
.....			

2. 资料类型命名规范

资料类型字段取值（参考《气象资料分类与编码》（GBT 40153-2021）国家标准）：

简码	大类名称	标识符	说明
A	地面气象资料	SURF	各种观测手段获得的近地面气象观测资料及其综合分析衍生资料，不含单独用卫星、雷达、模式分析、科考等方式获得的地面资料。
B	高空气象资料	UPAR	各种观测手段获得的高空气象探测资料及其综合分析衍生资料，不含单独用卫星、模式分析、科考等方式获得的高空资料。
C	海洋气象资料	OCEN	各种观测手段获得的海洋大气资料及其综合分析衍生资料，不含单独用卫星、模式分析、科考等方式获得的海洋资料。
D	气象辐射资料	RADI	各种观测手段获得的辐射资料及其综合分析衍生资料，不含单独用卫星、科考等方式获得的辐射资料。
E	农业气象和生态气象资料	AGME	各种观测手段获得的农作物、牧草、物候、农业气象灾害、植被物理化学特性、土壤物理化学特性资料，不含科考等方式获得的农业气象资料。
F	数值预报产品	NAFP	指通过各种数值预报方法获得的各种分析和预报产品。
G	大气成分资料	CAWN	各类大气成分观测站获取的大气物理、大气化学、大气光学资料。
H	历史气候代用资料	HPXY	反映历史气候条件的各种非器测资料。
I	气象灾害资料	DISA	各种天气气候灾害的气象实况及其影响资料，不含农业及生态气象灾情。
J	雷达气象资料	RADA	通过雷达探测获得的气象资料和产品，不含卫星、科考等方式获得的雷达气象资料。
K	卫星气象资料	SATE	通过卫星探测获得的气象资料和产品。
L	科学试验和考察资料	SCEX	在科学试验和专项考察中观测获得的或收集加工的各种资料和衍生资料。
M	气象服务产品	SEVP	基于气象服务之目的而制作的、可直接服务于用户的气象信息产品，主要包括天气、气候、农业和生态气象的监测、分析、预报、预测、预警产品和专题气象服务产品。
N	空间天气资料	SPAC	通过各种观测手段获得的空间天气观测资料以及基于

简码	大类名称	标识符	说明
			这些观测资料的加工分析产品。
Z	其它资料	OTHE	不分属上述类别的气象资料和产品。

3. 数据内容规范

数据内容字段取值（部分）：

Ele: 要素

File: 文件

4. 主要条件规范

主要条件: {By|In|Of} {参数名}, 多个以 And 连接。

6.2.2.2.参数定义规范

1. 公共参数规范

➤time: 时间筛选条件, 支持单个时间, 时间列表, 时间段和时间间隔。

➤station: 站点筛选条件, 支持字符串, 列表和元组。

➤region: 区域筛选条件

➤station_level: 台站级别 (如 11: 国家基准气候站; 012: 基本气象站; 013: 一般气象站)

➤order: 排序字段

➤count: 最大返回记录数, 对应接口的 limitCnt 参数

2. 其他参数规范

其他要素字段遵循气象大数据云平台公共元数据定义。

6.2.2.3.返回码和返回值规范

1. 返回码规范

使用接口状态码规范如下:

状态码	场景
200	创建成功, 通常用在同步操作时
202	创建成功, 通常用在异步操作时, 表示请求已接受, 但是还没有处理完成
400	参数错误, 通常用在表单参数错误
401	授权错误, 通常用在 Token 缺失或失效, 注意 401 会触发前端跳转到登录页

状态码	场景
403	操作被拒绝，通常发生在权限不足时，注意此时务必带上详细错误信息
404	没有找到对象，通常发生在使用错误的 id 查询详情
500	服务器错误

2. 返回值规范

气象常见的格式为站点数据、格点数据以及文件数据，因此返回值遵循如下规范：

- **Array2D:** 表格数据
- **GridArray2D:** 格点数据
- **FileInfo:** 文件信息
- **FileInfo:** 文件信息列表
- **GridVector2D:** 二维矢量格点数据
- **SpecialityFile:** 专用文件格式
- **CustomJson:** 自定义 Json 格式

对于 HTTP 访问的接口，需要针对以上结构序列化为 Json 格式返回。

6.2.2.4. 组件接口定义示例

接口	用途	类型
getSurfEleByTime	指定时间的地面资料检索接口	站点资料读取接口
getUparEleInRectByTimeAndVertical	指定时间、垂直探测意义、经纬度范围的高空资料检索接口	站点资料读取接口
getTyphByTimeRangeAndTyphGids	指定时间段、台风编号（国际）的检索台风资料接口	站点资料读取接口
getNafpEleGridByTimeAndLevelAndValidtime	指定时间、预报层次、预报时效的单场单要素检索接口	数值格点资料解析接口
getNafpEleAtPointByTimeAndLevelAndValidtimeRange	指定时间范围、预报层次、预报时段、经纬度的时间序列检索接口	数值格点资料解析接口
getRadaFileByTimeRange	指定时间段的雷达资料检索接口	文件类资料读取接口

接口	用途	类型
getSateFileByTime	指定时间的卫星资料文件检索接口	文件类资料 读取接口
getNafpFileByElementAnd Time	指定时间、预报要素的数值预报文件读取检索接 口	文件类资料 读取接口

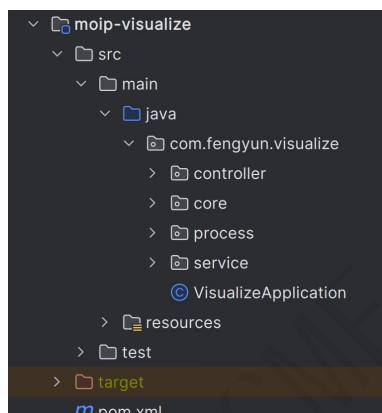
6.2.3.服务调用规范

微服务间难免会存在服务调用，如果当前微服务存在对外共享 rest 服务的情况，当前微服务就需要创建接口模块，原有微服务将 rest 调用过程中涉及到的实体以及 VO 对象移动到接口模块，同时在接口模块中创建可供别的微服务直接依赖使用的客户端，原有微服务依赖于创建的接口模块，同时该接口模块也提供给需要访问该模块 rest 服务的其它微服务所使用。

系统配置功能经常被别的微服务所访问以获取系统的配置信息，所以系统配置中的模型被分离到了接口模块，同时创建了可被别的微服务所使用的客户端对象，其它微服务引用该接口模块，直接调用客户端对象即可访问到系统配置对应的 rest 服务。

6.2.4.基础算法集成

算法集成在业务应用的微服务中，该业务应用是在服务开发脚手架的基础上进行的。该算法集成的微服务主体结构如下：



业务应用服务命名规则：moip-业务应用名称

微服务 package 的命名：必须以 com.nmc 开头

Controller：对外提供 restful 接口控制器包

Core:该业务的核心包

Process: 该应用调用算法的集成包

Service: 算法对外提供的接口和接口实现类

算法集成统一采用 Runtime.getRuntime().exec()去调用算法的脚本实现。

备注：算法集成的接口应该满足接口调用的响应时效性，一般接口调用超过 30s 还不能返回数据的算法不建议放在接口算法中集成。

6.2.5. 接口接入示例

6.2.5.1. 接口概览

详情接入方式可参考 APIFox 上接口接入方式

- > **iotdb-模式组件** (26)
- > **iotdb-雷达组件** (7)
- > **iotdb-卫星组件** (6)
- > **地面站组件** (5)
- > **高空站组件** (3)
- > **格点编辑接口** (25)
- > **music代理组件** (11)
- > **物理量计算组件** (1) + ...
- > **GBASE-地面站组件** (31)
- > **图例功能组件** (13)
 - 算法调度平台** (0)
- > **music高空资料代理组件** (18)
- > **文件数据管理服务组件** (36)
- > **iotdb上层服务组件** (59)
- > **xcloud系统服务** (3)
- > **大模型数据管理服务组件(废弃)** (38)
- > **机构模块** (6)
- > **岗位模块** (4)
- > **值班模块** (12)
- > **系统字典模块** (6)
- > **业务字典模块** (7)
- > **菜单模块** (7)
- > **一体化服务管理** (14)
- > **登录验证** (2)

6.2.5.2. 接入方案

组件接入：组件接入可直接引用对应组件依赖即可

cmes-bom

cmes-core-algo

cmes-core-auto

cmes-core-boot

cmes-core-cloud

cmes-core-context

cmes-core-db

cmes-core-gdal

cmes-core-geojson

cmes-core-iotdb

cmes-core-job

cmes-core-jts

cmes-core-launch

cmes-core-log4j2

cmes-core-music

cmes-core-sdk

cmes-core-secure

cmes-core-test

cmes-core-tool

cmes-starter-actuate

cmes-starter-api-crypto

cmes-starter-auth

cmes-starter-cache

cmes-starter-datascope

cmes-starter-develop

cmes-starter-ehcache

cmes-starter-excel

cmes-starter-flowable

cmes-starter-http

cmes-starter-jwt

cmes-starter-litflow

cmes-starter-loadbalancer

cmes-starter-log

cmes-starter-metrics

cmes-starter-mongo

cmes-starter-mqtt

cmes-starter-mybatis

cmes-starter-oss

cmes-starter-prometheus

cmes-starter-redis

cmes-starter-report

cmes-starter-sms

cmes-starter-social

cmes-starter-swagger

cmes-starter-tenant

cmes-starter-trace

cmes-starter-transaction

cmes-starter-xxljob

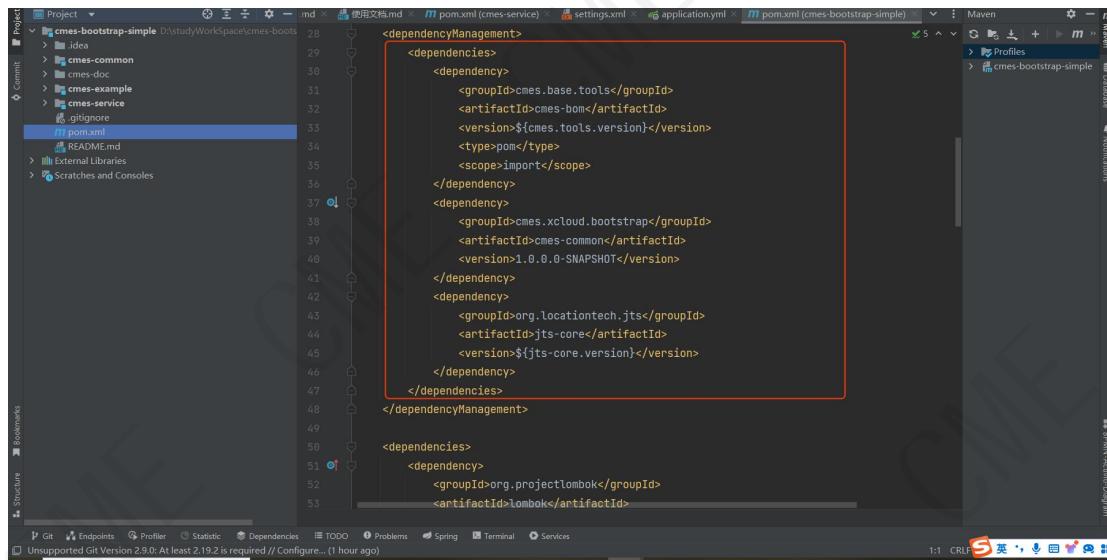
业务服务，气象组件服务：

可通过 nacos 服务相互调用

The screenshot shows the Nacos 2.1.2 service list interface. On the left is a sidebar with options: 配置管理 (Configuration Management), 服务管理 (Service Management) (selected), 服务列表 (Service List) (highlighted in blue), 订阅者列表 (Subscriber List), 权限控制 (Permission Control), 命名空间 (Namespace), and 集群管理 (Cluster Management). The main area is titled '服务列表' (Service List) and shows a service named 'cmes-manager' in the 'DEFAULT_GROUP'. The table columns are: 服务名 (Service Name), 分组名称 (Group Name), 集群数目 (Cluster Count), 实例数 (Instance Count), 健康实例数 (Healthy Instance Count), 触发保护阈值 (Trigger Protection Threshold), and 操作 (Operations). The '操作' column for 'cmes-manager' includes links for '详情' (Details), '示例代码' (Example Code), '订阅者' (Subscribers), and '删除' (Delete). At the bottom of the table, there are buttons for '每页显示' (Items per page: 10), '< 上一页' (Previous page), '1' (Current page), and '下一页 >' (Next page).

6.2.5.3. 接入流程

技术组件接入：



```

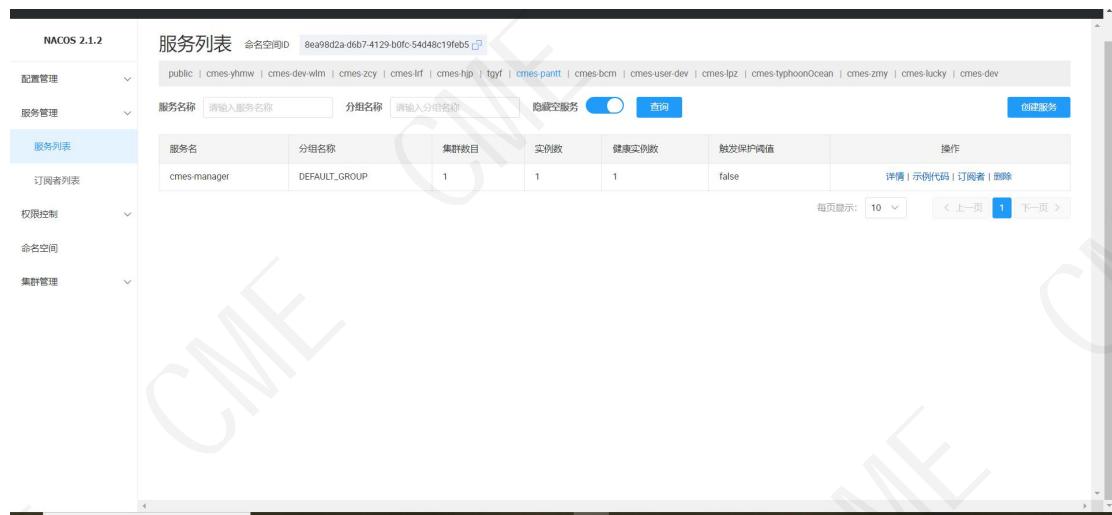
<dependencyManagement>
    <dependencies>
        <dependency>
            <groupId>cmes.base.tools</groupId>
            <artifactId>cmes-bom</artifactId>
            <version>${cmes.tools.version}</version>
            <type>pom</type>
            <scope>import</scope>
        </dependency>
        <dependency>
            <groupId>cmes.xcloud.bootstrap</groupId>
            <artifactId>cmes-common</artifactId>
            <version>1.0.0.0-SNAPSHOT</version>
        </dependency>
        <dependency>
            <groupId>org.locationtech.jts</groupId>
            <artifactId>jts-core</artifactId>
            <version>${jts.core.version}</version>
        </dependency>
    </dependencies>
</dependencyManagement>

<dependencies>
    <dependency>
        <groupId>org.projectlombok</groupId>
        <artifactId>lombok</artifactId>
    </dependency>
</dependencies>

```

业务服务，气象组件服务：

可通过 nacos 服务相互调用



服务名	分组名称	集群数目	实例数	健康实例数	触发保护阈值	操作
cmes-manager	DEFAULT_GROUP	1	1	1	false	详情

6.3.计算服务

6.3.1.基础配置规范

MICAPS5 中，所有天擎基础服务（如：基础数据库、文件访问目录、输出目录以及通用接口地址等配置）的读取均需要通过默认配置文件进行读取，读取路径为：/CMADAAS/APPPDATA/CONFIG/ env.properties。

```
## Version=1.0
## 数据库
# STDB 要素服务库
datasource. stdb. dbname=BABJ_STDB
datasource. stdb. addresses=10. 20. 108. 27
datasource. stdb. port=5138

# FIDB 文件索引库
datasource. fidb. dbname=BABJ_FIDB
datasource. fidb. address=10. 20. 108. 27
datasource. fidb. port=5138

# HADB 历史分析库
datasource. hadb. dbname=BABJ_HADB
datasource. hadb. address=10. 20. 108. 32
datasource. hadb. port=5258

# RSDB 空间分析库（栅格）, Raster
datasource. rsdb. dbname=postgres
datasource. rsdb. address=10. 20. 108. 35
datasource. rsdb. port=5432

# 分布式对象存储, bucket 主备一致
datasource. obs. url=obsxx. lan. nmic. cn

# 分布式 NAS 存储, 读写根目录（数据目录和应用临时目录）
datasource. nas. data. rootdir=/CMADAAS/DATA
datasource. nas. app. rootdir=/CMADAAS/APPPDATA

## 服务接口
# MUSIC 地址, 包含 sdk 和 rest 两种方式
datasource. music. rest. address=10. 20. 108. 19
datasource. music. rest. port=80
datasource. music. sdk. address=10. 20. 108. 19
datasource. music. sdk. port=80
```

```

## 业务监控
# 监控地址
#monitor.di.single.url=http://127.0.0.1:29999/transfer
#monitor.ei.single.url=http://127.0.0.1:29999/transfer
monitor.di.single.url=http://di.tianjing.cmadaas:29999/transfer
monitor.ei.single.url=http://di.tianjing.cmadaas:29999/transfer

## 接口众创
# 为区分本系统与其他系统的差异，配置以 music 开头
# 日志服务地址
music.log.service.url=http://10.1.1.1:9002/music-log-process/addlog
# 接口网关
#system.api.gateway.url=

```

6.3.2.算法开发规范

目前加工流水线只支持可执行的运行程序，集成的计算服务必须以可执行的形态运行。

6.3.2.1.计算服务开发语言

计算服务开发语言包括但不限于 C、C++、C#、JAVA、PYTHON、Fortran、NCL 等开发语言，MICAPS5 核心执行流程通过 Java 开发，鉴于 Python 的易用性和基础算法支撑能力，算法通过 Python 开发。

6.3.2.2.计算服务分类与命名

计算服务命名规范规定了计算服务的命名规则。

根据气象计算服务的分类及标签，气象计算服务的名称由 5 部分代码组成，规则如下：

[计算服务业务功能大类（或业务系统名称）][算法领域或对象][计算服务具体功能][资料种类][扩展字段]

命名时取各代码的英文缩写，各代码之间直接连接。

“计算服务功能大类(或业务系统名称)”代码段应采用易于识别的英文简写，首字母小写。参见表 1 中功能大类标签的英文代码。

“算法领域或对象”代码段应采用易于识别的英文简写，首字母大写。参见表

1 中应用领域标签的英文代码。

“计算服务具体功能”代码段可以采用一个或多个英文单词的简写组合形成，各单词应符合英文缩写习惯，且能够体现算法的基本功能，各单词首字母大写。参见表 1 中具体功能标签的英文代码。

“资料种类名称”代码段参考 QX/T 102-2009 中 14 个资料大类的 4 位英文标识符，首字母大写，参见表 1 中资料种类标签的英文代码。

“扩展字段”代码段用于增加算法的区分度，可以在扩展字段增加气象要素名、统计的时间尺度等。相关定义应符合《气象基础数据元-第 1 部分：总则》中关于气象数据

元短名的定义规则和《气象数据统一服务接口（MUSIC 规范）》中要素代码的定义。

6.3.2.3.计算服务开发

计算服务开发对操作系统、运行环境、开发语言等没有强制性要求，但需要规范输入输出和日志记录。

■ 计算服务参数

集成计算服务在调用时可能需要产品加工流水线传入输入参数。输入参数支持静态和动态两种。多个参数可自定义分割符。如空格、逗号、分号、加号等。

静态参数：调用是以固定字符串，每次调用是不会改变。如：启动的执行类名、是否发送 DI 的参数。

动态参数：参数传入时根据当前执行环境动态生成的。如日、候、旬、月、季、年等参数。日期参数目前支持加减；执行服务器的 IP 等。

在计算服务注册时按照传入顺序，明确写明参数含义。静态参数需定义固定的字符串、动态参数需定义好参数格式。

■ 数据输入与产品输出

纳入算法库和加工流水线的计算服务，其输入数据应取自“天擎”，输出的业务产品应存入“天擎”，与“天擎”数据对接包括以下两种方式：

(1) 调用 MUSIC 接口，使用服务接口提供的 SDK 或 RESTful 接口访问数

据。

(2) 直连 NAS 存储，算法产生的非结构化数据文件输出到分布式文件库（NAS）的文件系统上，同时将文件索引存储到关系型数据库中。”天擎”对共享存储的文件系统一级目录进行了规划，用户可按要求将其挂载在算法运行节点，像使用本地盘一样访问 NAS 的对应目录。原则上不允许用户随意进行目录设定，系统将对目录的访问权限进行授权限定，并对二级目录的合规性进行校验。

(3) 直连数据库，包括通过 JDBC 连接串方式使用 SQL、NOSQL；原则上不允许用户直连数据库方式访问，如必须，需要进行报备并评估，从访问数据的类型来看，直连方式包括以下两种：

1) 结构化数据-直连数据库：

“天擎”提供分布式关系型数据库和分布式分析型数据库，可以对结构化数据和非结构化数据索引信息进行实时和场时间序列等各类应用场景的访问，其访问方式与传统的数据库 JDBC 连接方式相同，可以使用标准 JDBC 驱动进行连接，也可以使用 DRUID 等各类连接池连接方式进行连接。

2) 非结构化数据-直连数据库：

非结构化文件根据业务场景，按照特定规则拆分成数据块，存储在分布式表格系统中，提供非结构化数据块的实时共享访问。”天擎”对常用分布式表格系统的底层访问进行了封装，并加入常用的气象数据处理算法，用户可直接调用此类分布式表格系统访问的 API 接口。

■ 算法日志与监控信息

(1) 算法日志

算法日志分为算法执行时的屏幕输出日志与算法输出到日志文件的日志，其中屏幕输出的日志可由加工流水线捕获并在任务执行状态页面显示。针对日志文件，规则如下：

1) 日志文件的文件名规则为”系统名称-算法名称-日期-增长序列号.log”；2) 单个日志文件的大小限制为 50M；3) 日志文件的目录为”{算法执行目录/logs}”；
4) 根据用

户在任务定义时设定的日志文件保留时常，加工流水线自动对日志文件进行清除。

（2）监控信息

算法执行过程中，推荐按照监视信息标准格式及接口，在关键环节发布 DI 和 EI，方便和业务监控系统对接，及时发现算法的运行错误并做后续处理。

DI 的级别分为数据级别和任务级别两种：

（1）数据级别 DI：每生成一次产品，即给数据库中插入一条记录，或存在一个文件产品落地，则需发送一条 DI 信息；

（2）任务级别 DI：每执行一次算法，即加工处理任务运转一次，生成一个批次的数据产品，此时需发送一条 DI 信息；EI 分为数据库连接失败、数据读取异常、消息中间件连接失败、应用无法启动等不同类别。”天擎”对各类告警事件从业务分类、事件编号、事件级别、故障对象等角度做了规范化处理，用户可参考监控系统相关标准定义并发送 EI。若算法未发送 DI 和 EI 信息，将由调度平台根据进程状态、输出日志状态、算法返回值等信息做粗粒度的监视和事件信息发布。

6.4.前台应用框架

6.4.1.框架开发技术要求

前台应用框架集成技术要求主要包括以下内容：

1. 框架选择

明确使用兼容的框架结构，方便更好的集成，比如使用 Vue3 框架。

2. 文件结构

通过规定清晰的目录结构和文件命名规范，开发团队能够更容易地理解项目的结构和组织，并能够快速定位所需的文件和模块。此外，定义良好的文件结构有助于提高代码的可读性和可维护性，使得开发人员能够更快速地上手项目，并且能够保持代码的统一风格。同时，明确定义服务端交互相关文件的存放位置也有助于对服务端交互逻辑进行统一管理和维护，从而提高应用的可扩展性和可维护性。这些规范化的文件结构和命名规范为团队协作开发提供了便利，有助于保证项目的整体质量和一致性。

例如前端 vue3 项目结构：

- src/: 前端代码的根目录

- assets/: 存放静态资源文件，如图片、字体等
- components/: 存放可复用的组件
- router/: 存放路由相关的文件
- index.js: 定义前端应用的路由配置
- store/: 存放状态管理相关的文件
- index.js: 创建和管理全局状态
- utils/: 存放工具函数或辅助类
- views/: 存放页面级组件
- App.vue: 前端应用的根组件
- main.js: 前端应用的入口文件
- public/: 存放公共资源文件
 - index.html: 前端应用的 HTML 模板文件
- dist/: 存放打包生成文件
- .gitignore: 指定 Git 版本控制时需要忽略的文件或目录
- package.json: 前端项目的配置文件，包含项目依赖和脚本命令
- README.md: 项目的说明文档，包含项目介绍、安装和运行指南等

3. 代码规范

使用前台应用规定的代码规范，包括统一的缩进规范（如使用空格还是制表符进行缩进）、命名规范（如变量、函数、组件的命名规范）、代码注释规范（如注释的格式、内容要求等），旨在确保团队成员编写的代码风格一致，提高代码的可读性和可维护性，从而更好地管理和开发前端应用。例如：命名严谨性

代码中的命名严禁使用拼音与英文混合的方式，更不允许直接使用中文的方式。说明：正确的英文拼写和语法可以让阅读者易于理解，避免歧义。注意，即使纯拼音命名方式也要避免采用。

正例：henan / luoyang / rmb 等国际通用的名称，可视同英文。

反例：DaZhePromotion [打折] / getPingfenByName() [评分] / int 某变量 = 3

杜绝完全不规范的缩写，避免望文不知义：

反例：AbstractClass”缩写”命名成 AbsClass; condition”缩写”命名成 condi, 此类随意缩写严重降低了代码的可阅读性。

4. 第三方库集成

为了快速集成和使用前台应用给定的第三方库，开发人员可以通过安装库、引入库文件或模块，以及根据文档和示例代码进行配置和调用的步骤来集成库。例如，使用 npm 或 yarn 安装所需库，使用 import 语句引入库文件或模块，并根据需要进行相应的配置和调用。这样能够帮助开发人员快速集成和使用 UI 组件库、状态管理库、路由库等，提高开发效率和代码质量。

5. 数据交互

根据给定的前台应用与后台接口的数据交互规范来约束项目，包括接口命名规范、参数传递规范等。方便更好的集成

6. 测试

为了保证前台应用的质量和稳定性，开发人员应遵循测试规范。这包括编写单元测试用例来测试每个组件或模块的功能，进行集成测试验证组件间的协作和交互，进行 UI 测试验证界面布局和交互的正确性，进行性能测试评估应用的性能指标，进行安全测试保护用户数据和应用安全。在测试过程中，开发人员应编写详细的测试样例并记录测试结果，以提供完整的测试报告和集成说明，使项目的集成过程更加详细和可靠。通过遵循测试规范，开发人员能够提高前台应用的质量和稳定性，减少潜在的问题和错误。

6.4.2. 框架开发标准参数

MICAPS5 前台框架开发需要基于统一的标准参数，包括标准图例、标准预警阈值、标准场景参数和标准菜单。

1. 标准图例库

标准图例库由国标图例、默认色系和自定义图例三部分组成。

序号	名称	类型	备注
1	图例类别	文本	气温
2	图例名称	文本	TEM
3	图例类型	数据字典	填色图、等值线、风羽、风流场、台风、落区预报、气象符号
4	图例适用范围	行政编码	国标：100000 区域： 130100, 140500
5	图例文件路径	文件路径	配置文件

气温图例：

```
[{
  "id": "TEM_01",
  "name": "标准温度",
  "color": "#cddef2aa",
  "legend": [
    [-60, [128, 0, 124, 1]],
    [-36, [128, 0, 124, 1]],
  ]
}]
```

```

[-32, [0, 47, 134, 1]],
[-28, [26, 92, 166, 1]],
[-24, [32, 117, 210, 1]],
[-20, [60, 160, 240, 1]],
[-16, [117, 207, 255, 1]],
[-12, [151, 255, 244, 1]],
[-8, [189, 249, 255, 1]],
[-4, [242, 255, 255, 1]],
[0, [223, 255, 217, 1]],
[4, [196, 255, 183, 1]],
[8, [186, 254, 131, 1]],
[12, [252, 254, 156, 1]],
[16, [255, 243, 196, 1]],
[20, [255, 220, 168, 1]],
[24, [255, 175, 117, 1]],
[28, [253, 135, 132, 1]],
[32, [236, 91, 95, 1]],
[35, [255, 51, 51, 1]],
[40, [255, 51, 51, 1]]
]
},
...多个
]

```

2. 标准预警指标库

序号	名称	类型	备注
1	指标名称	文本	暴雨
2	指标 ID	文本	RainStorm
3	指标适用范围	行政编码	国标: 100000 区域: 130100, 140500
4	算法名称	数据字典	
5	关键参数	Json	

以暴雨预警为例:

蓝色预警标准: 12 小时内降雨量将达 50 毫米以上, 或者已达 50 毫米以上且降雨可能持续。

黄色预警标准: 6 小时内降雨量将达 50 毫米以上, 或者已达 50 毫米以上且降雨可能持续。

橙色预警标准: 3 小时内降雨量将达 50 毫米以上, 或者已达 50 毫米以上且降雨可能持续。

红色预警标准: 3 小时内降雨量将达 100 毫米以上, 或者已达 100 毫米以上且降雨可能持续。

关键参数：

```
{
  "blue": {
    "hour": "12",          // 累计时间
    "limit": 50,           // 指标量级
    "obs": true,           // 包含实况
    ...
  },
  "yellow": {
    "hour": "6",           // 累计时间
    "limit": 50,           // 指标量级
    "obs": true,           // 包含实况
    ...
  },
  "orange": {
    "hour": "3",           // 累计时间
    "limit": 50,           // 指标量级
    "obs": true,           // 包含实况
    ...
  },
  "red": {
    "hour": "3",           // 累计时间
    "limit": 100,          // 指标量级
    "obs": true,           // 包含实况
    ...
  }
}
```

3. 多场景应用配置发布

1) 配置接口设计

```
{
  "systemName": "川藏服务保障系统",
  "defaultMap": "http://10.16.47.93:8001/map/nmc/dark/{z}/{x}/{y}.png",
  "baseMap": [
    {
      "name": "风云底图", "ogcType": "XYZ",
      "url": "http://10.16.47.93:8001/map/nmc/light/{z}/{x}/{y}.png"
    }
  ],
  "viewConfig": {
    "projection": "EPSG:4326",
    "center": [114, 31],
    "zoom": 4.5
  },
}
```

```
"languageConfig": {
    "languageTypes": [
        {"value": "chn", "key": "中文"},
        {"value": "en", "key": "English"}
    ],
    "default": "chn"
},
"peelingConfig": {
    "peelingTypes": [
        {
            "chnName": "浅色",
            "enName": "default",
            "key": "default",
            "defaultMap": "http://10.16.47.93:8001/map/nmc/light/{z}/{x}/{y}.png"
        },
        {
            "chnName": "深色",
            "enName": "deep",
            "key": "deep",
            "defaultMap": "http://10.16.47.93:8001/map/nmc/dark/{z}/{x}/{y}.png"
        }
    ],
    "default": "deep"
},
"defaultData": {
    "obs": "CLDAS",
    "mode": "CMAGFS",
    "hpa": 0
},
"menus": [
    {
        "chnName": "首页",
        "enName": "Index",
        "title": "首页",
        "url": "/index",
        "active": true,
        "menuActive": true,
        "scene": []
    },
    {
        "id": "20220827",
        "chnName": "沙尘保障",
        "enName": "Dust CASE",
        "title": "8月28日沙尘",
        "default": true,
        "viewConfig": {}
    }
]
```

```

    "config": "dust",
    "timeline": {},
    "defaultData": {},
    "compareConfig": {},
    "defaultOperate": {}
},
.....
]
}
]
}

```

2) 场景气象图层接口设计

```

{
  "meteoLayers": {
    "天气过程": [
      {
        "id": "11",
        "name": "台风路径(2305)",
        "icon": "taifeng",
        "layers": ["TYPHOON_2305", "FORE-VIS", "FORE-500GPH", "FORE-WIN"]
      },
    ],
    "数值预报": [
      {
        "id": "21",
        "name": "气温/位势高度/风场",
        "icon": "tem",
        "layers": ["FORE-TEM", "FORE-500GPH", "FORE-WIN"]
      },
      {
        "id": "22",
        "name": "降水/位势高度/风场",
        "icon": "pre",
        "layers": ["FORE-PRE", "FORE-GPH", "FORE-WIN"]
      },
      ...
    ],
    "Composite_layer": [
      {
        "id": "TYPHOON_2305",
        "title": "台风",
        "name": "台风",
        "type": "typhoon",
      }
    ]
  }
}

```

```

"url": "/meteo/TYPHOON/typhoon_202305_datatime.json",
"icon": "left_feng",
"showHide": true,
"Opacity": 0.8
},
{
  "name": "气温",
  "title": "气温",
  "timeline": {
    "timeDiff": 480,
    "timeInterval": 3,
    "startTime": 33
  },
  "id": "FORE-TEM",
  "type": "contour",
  "url": "url",
  "icon": "left_wendu",
  "legendType": "tem",
  "legendId": "TEM_01",
  "Opacity": 0.6,
  "showHide": true,
  "radio": 2,
  "zIndex": 10
},
...
]
}

```

6.5.前台组件

6.5.1.前台组件开发规范

前端组件包括前端功能性组件和前端展示性组件。组件形式包括 JS、NPM 包、WASM 包等。

1. 组件命名

组件命名规范是指组件在命名时需要遵循的规则，主要包括以下几点：组件名应简洁明了，便于理解和记忆。组件名应与组件功能相匹配，避免出现歧义。组件名应遵循驼峰命名法，即首字母小写，每个单词首字母大写。组件名应避免使用特殊字符，如下划线、中划线等。组件命名具体规范参考 5.1.1 组件命名。

2. 组件结构

组件应按照功能划分，每个组件只负责一个功能。组件应按照层次结构组织，每个组件都应该有父组件和子组件。组件应遵循单一职责原则，即每个组件只负责一个职责。组件应遵循开放封闭原则，即组件对外开放接口，对内部实现隐藏。

3. 组件样式

组件样式应使用单独的样式文件进行管理，例如 .vue 文件中的 <style> 块。组件样式应使用局部作用域，以避免样式冲突。组件样式应使用预处理器（如 Sass 或 Less）进行编写，以提高样式的可维护性和复用性。

4. 组件逻辑

组件逻辑应使用 Vue 的 Composition API 进行编写，以提高代码的可读性和维护性。组件逻辑应按照功能进行划分，每个功能应该有一个对应的函数或方法。组件逻辑中的数据应使用 ref 或 reactive 进行响应式处理

5. 组件接口

组件接口建议采用 TypeScript 编写。组件接口应遵循命名规范。组件接口应遵循类型约束。组件接口应遵循单一职责原则。

6. 组件测试

每个组件应该有相应的测试用例，用于确保组件的正确性和稳定性。组件测试应使用 Jest 等测试框架进行编写。组件测试应覆盖组件的各种情况和功能，包括输入验证、事件触发等。

7. 组件文档

每个组件应该有相应的文档，用于描述组件的使用方法、属性、事件等。组件文档应使用 Markdown 格式编写，以便于阅读和展示。组件文档中应包含示例代码和示例演示，以便用户更好地理解和使用组件

组件文档应遵循命名规范。组件文档应遵循结构规范。组件文档应遵循语义规范。

8. 组件发布

组件发布应使用 NPM 和 CDN 两种形式发布。组件发布应遵循版本规范。组件发布应遵循发布流程。组件发布应及时更新。

9. 组件维护

组件维护应及时修复 bug。组件维护应及时更新文档。组件维护应及时发

布新版本。组件维护应及时处理用户反馈。

6.5.2.前台组件集成原则

1. 向下兼容原则

为便于前台组件开发完成后的集成工作，所有前台组件开发均需采用 VUE3 版本进行功能开发，所有组件的开发版本原则上不能高于框架的版本，若 VUE 有新版本框架后，原则上只前端框架进行升级，组件不升级，以确保框架的向低版本兼容。

2. 最优集成原则

MICAPS5 面向前端组件提供组件集成方案包括 Npm 开发集成、JsSdk 开发集成和微前端应用集成 3 种模式，各组件在开发过程中，应充分考虑业务场景和知识产权保护提供至少 1 种以上集成方式。

3. 多语言支持原则

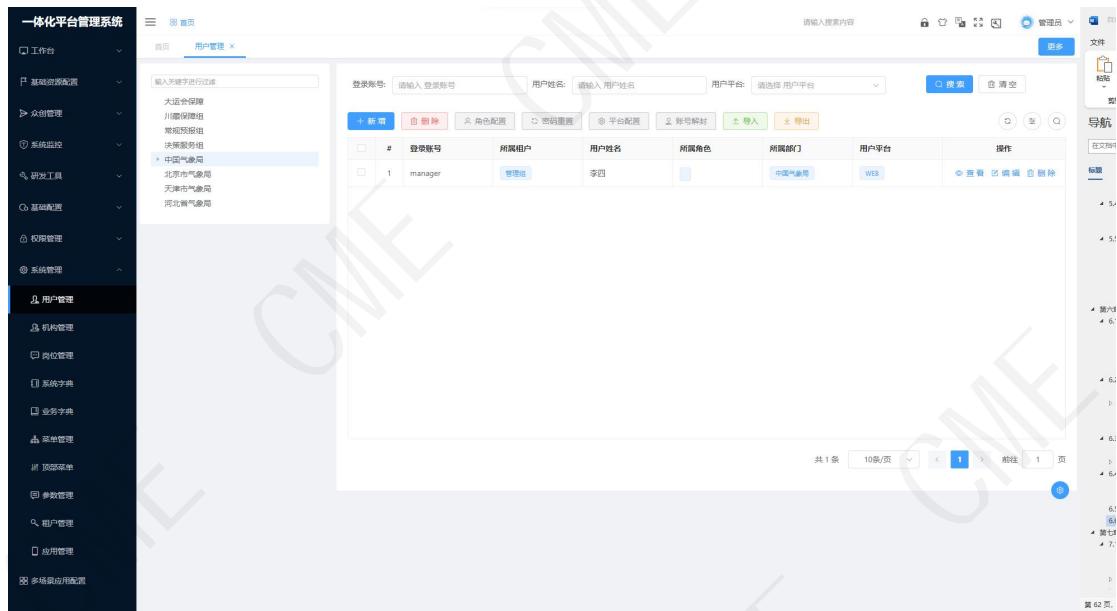
多有基础插件均应采用 I18n 进行开发，实现多语言支持，并通过读取全局配置参数，实现自动的多语言切换。针对通过接口请求的文字显示信息，接口应支持传参中带有指定语言的标识符。

4. 多场景支撑原则

根据不同业务场景，前端组件应支持页面框架对组件的集成，开发者可以通过参数、全局配置等多场景定义组件的风格、颜色、尺寸，组件应具备一定的基础适配能力。

6.6.系统配置管理

MICAPS5 的后端管理，通过统一的管理平台实现多租户分权管理，实现不同用户不同权限的管理。



MICAPS5 实现基础的用户、角色、权限管理，并构建统一的底层元数据、图例、场景等服务，各上层业务通过多租户模式，调用服务实现管理，各功能之间集成通过权限和单点登录实现。单点登录接口采用 OAuth2 组件。

第七章 MICAPS5 框架使用手册

7.1. 安装手册

7.1.1. MICAPS 前端安装手册

通过正规渠道获取 CME 前台开发示例工程。

npm 组件私服可视化网页地址：

[http://cme.leonhan.com:3526/nexus/repository/npm-public/。](http://cme.leonhan.com:3526/nexus/repository/npm-public/)

本文档只描述配置一种 npm 方式，yarn pnpm 用户自行配置。

第一步：更改 npm 源地址，指向 CME 组件地址（此地址镜像的外网 npm 地址、本地私有 npm 包）

在终端输入即可：

```
Npm config set registry=npm config set  
registry=http://cme.leonhan.com:3526/nexus/repository/npm-public/
```

查看是否生效在终端输入：

```
npm config get registry;
```

如何想更改回 npm 源指向终端输入

```
npm config set registry=https://registry.npm.taobao.org/
```

第二步：下载框架所需插件并运行

在终端输入命令等待完成。

```
npm install
```

安装完成以后本地运行项目

```
npm run dev
```

```
[vite-plugin-static-copy] Collected 5 items.

  VITE v4.5.1  ready in 2937 ms

  → Local:  http://127.0.0.1:5173/
  → Network: use --host to expose
  → press h to show help
```

出现链接则为运行成功，把链接复制到浏览器，打开页面，则完成整体的安装教程！

7.1.2.MICAPS 后端安装手册

使用脚手架初始化项目，即可依据该脚手架下开发

项目名称：应用名称，建议使用小写字母填写，多个单词之间用横杠连接

团队名称：自己填写就可以，例如远洋导航

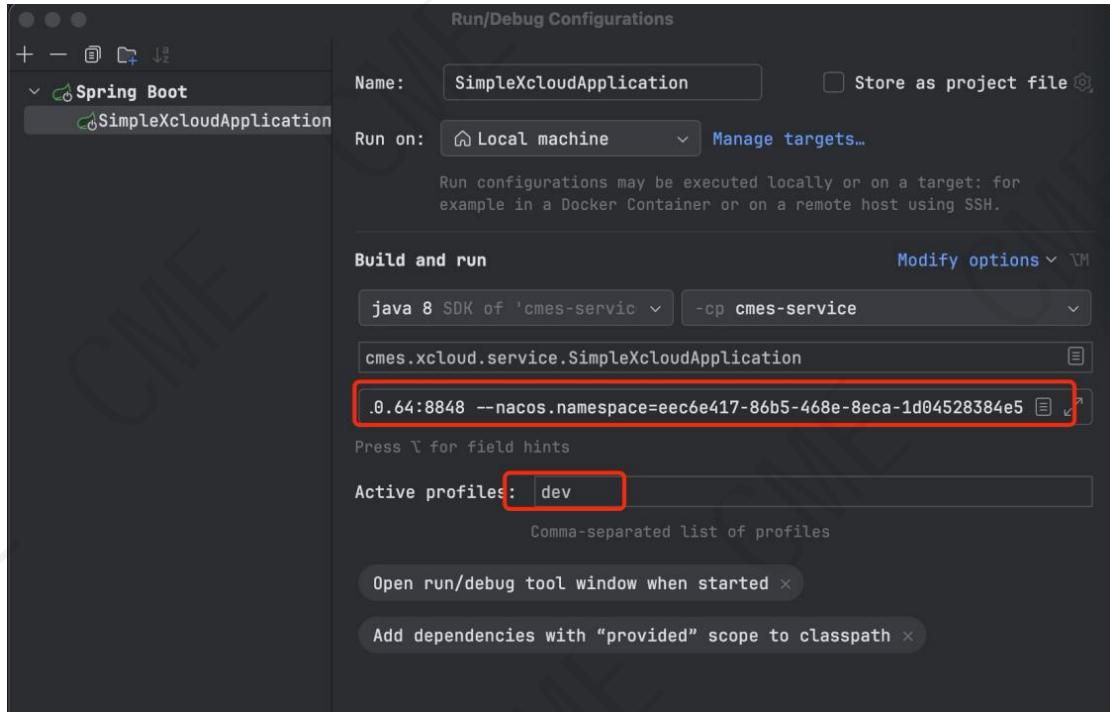
版本：版本号，例如 1.0.0



解压项目倒入 IDE

启动项目的时候需要指定运行参数：

--nacos.group=服务分组
 --nacos.addr=nacos 地址
 --nacos.namespace=命名空间



7.2.二次开发

7.2.1.应用配置

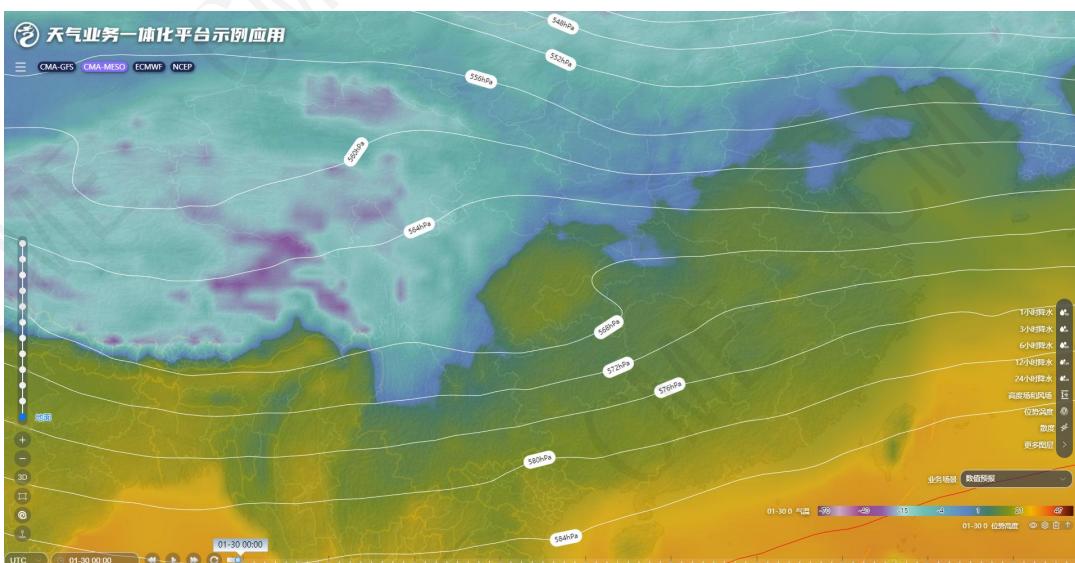
开发者在应用配置中，可以配置系统的名称、Logo、地图、地图视角、语言、风格、默认数据等信息。

```
{
  //系统名称
  "systemName": "MICAPS5",
  //系统 Logo
  "systemLogo": "MICAPS5",
  //默认地图
  "defaultMap": "/map/nmc/default/{z}/{x}/{y}.png",
```

```
//可选地图
"baseMap": [
  {
    "name": "智图底图",
    "ogcType": "XYZ",
    "url": "http://map.geoq.cn/ArcGIS/rest/services/ChinaOnlineStreetPurplishBlue/MapServer/tile/{z}/{y}/{x}"
  },
  {
    "name": "风云底图",
    "ogcType": "XYZ",
    "url": "/map/nmc/light/{z}/{x}/{y}.png"
  },
  {
    "name": "星图底图",
    "ogcType": "XYZ",
    "url": "https://tiles3.geovisearch.com/base/v1/img/{z}/{x}/{y}?token=82455ef06c72bb3a35bbb4d7d05fd9eceb96a94dc942a056b8feb0e5928ed96f"
  },
  {
    "name": "天地图底图",
    "ogcType": "XYZ",
    "url": "http://10.1.65.144:81/DataServer?T=ibo_c&x={x}&y={y}&l={z}"
  }
],
//默认视角
```

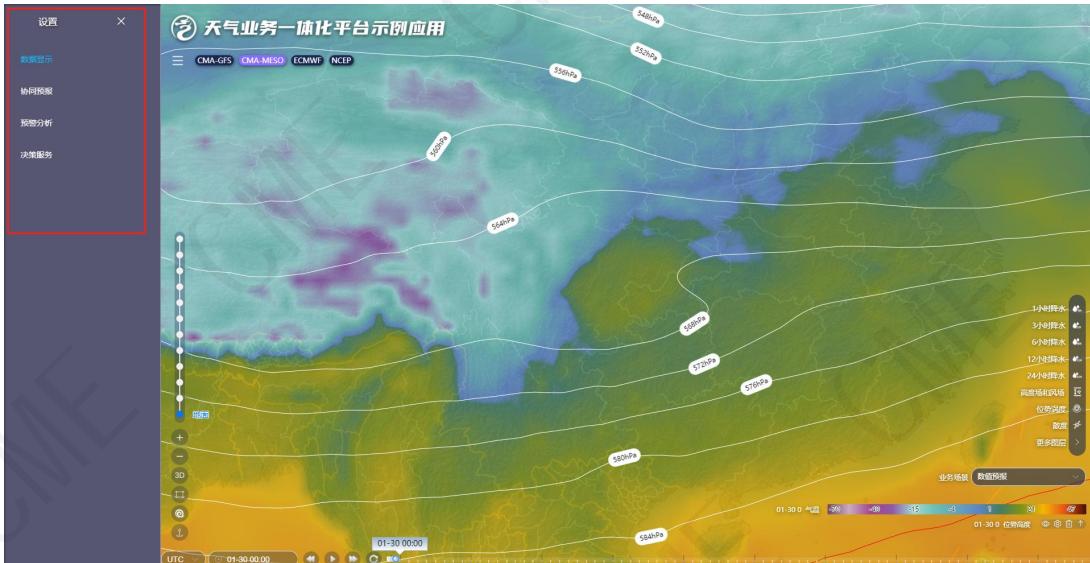
```
"viewConfig": {  
    "projection": "EPSG:4326",  
    "center": [106, 30],  
    "zoom": 5.3  
},  
//默认语言  
"languageConfig": {  
    "languageTypes": [  
        {  
            "value": "chn",  
            "key": "中文"  
        },  
        {  
            "value": "en",  
            "key": "English"  
        }  
    ],  
    "default": "chn"  
},  
//默认风格  
"peelingConfig": {  
    "peelingTypes": [  
        {  
            "chnName": "浅色",  
            "enName": "default",  
            "key": "default",  
            "defaultMap":  
                "http://10.16.47.93:8001/map/nmc/light/{z}/{x}/{y}.png"  
        },  
    ]  
},
```

```
        "chnName": "深色",
        "enName": "deep",
        "key": "deep",
        "defaultMap": "http://10.16.47.93:8001/map/nmc/dark/{z}/{x}/{y}.png"
    }
],
"default": "deep"
},
//默认数据参数
"defaultData": {
    "obs": "CLDAS",
    "mode": "MESO",
    "hpa": 0
},
菜单列表
"menus": []
}
```



7.2.2. 菜单配置

```
"menus": [
  {
    "id": "dataDisplay",
    "chnName": "数据显示",
    "enName": "Index",
    "title": "数据显示",
    //请求接口地址
    "url": "dataDisplay",
    "active": true,
    "menuActive": true,
    //场景列表
    "scene": []
  }
]
```



7.2.3. 场景配置

```
"scene": [
  {

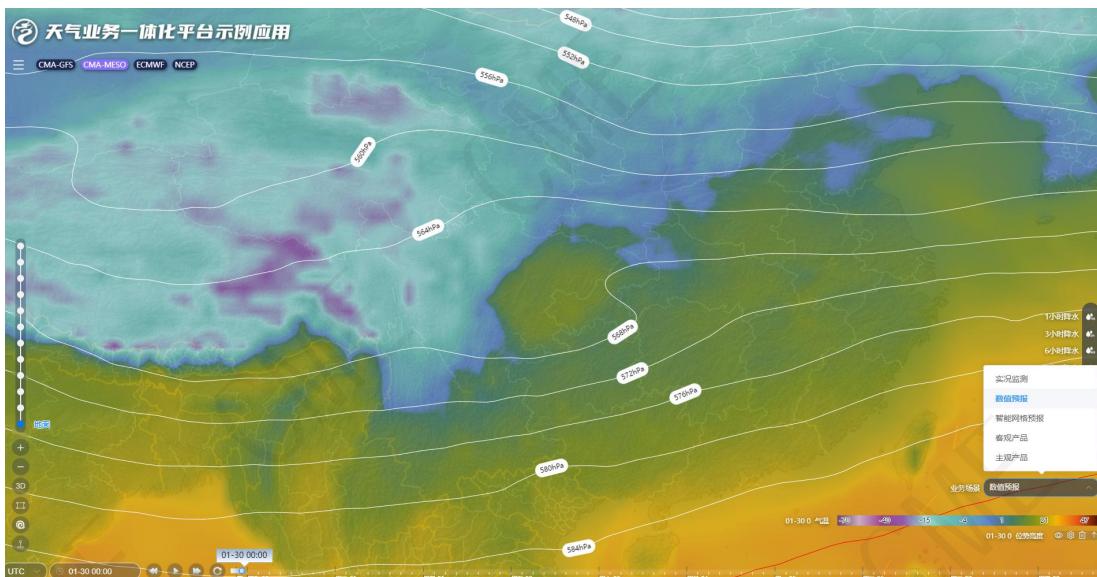
```

```
"id": "monitoring",
"chnName": "实况监测",
"enName": "Actuality",
"title": "实况监测",
//默认视角
"viewConfig": {
    "projection": "EPSG:4326",
    "center": [105, 22],
    "zoom": 3.5
},
//图层配置
"config": "monitoring",
//时间轴配置
"timeline": {
    "obsHours": 0,
    "forecastHours": 15,
    "timeDiff": 480,
    "timeInterval": 15,
    "startTime": 0
},
//默认数据参数
"defaultData": {
    "mode": "STAT",
    "hpa": 0
},
//默认对比分析
"compareConfig": {
    "data": "config/compare/nafp",
    "element": "config/compare/elems",
    "label": "对比分析"
}
```

```

    "height": "config/compare/hpm",
    "time": "config/compare/isobaric"
  },
  //默认显示参数
  "defaultOperate": {
    //展开菜单
    "menus": ["卫星云图"],
    //默认图层
    "layers": ["FY4B-TrueColor"],
    //场景工具箱
    "button": ["EnlargeTheMap", "ZoomOutMap", "fullscreen", "3D"]
  }
},

```



7.2.4. 图层配置

```

  "meteoLayers": {
    "降水类": [
      {
        "id": "101",
        "name": "1 小时降水",
      }
    ]
  }
},

```

```

    "icon": "1h JS",
    //时间轴配置， 覆盖上层
    "timeline": {
        "obsHours": 1,
        "forecastHours": 24,
        "timeDiff": 480,
        "timeInterval": 60,
        "startTime": 60
    },
    //显示图层， 多个支持综合图
    "layers": ["NAFP-TPE01"]
},
]
}

```

layers 配置多个，逗号隔开。配置的内容及请求地址来自该配置文件的 Composite_layer 参数。其中，type 为枚举，contour 为色斑图 flow 为风流场 barb 为风羽图 isoline 为等值线 Site 为地面填图

```

"Composite_layer": [
{
    "name": "1 小时降水",
    "title": "1 小时降水",
    "id": "NAFP-TPE01",
    "type": "contour",
    "url":
        "/CMEDATA/NAFP/#pattern/#datetime00/TPE01/#pattern_#datetime00_TPE01_#ti
        me00_0_#projective.tif",
    "icon": "left_wendu",
    "legendType": "tpe",
}

```

```

    "legendId": "tpe_01",
    "Opacity": 0.6,
    "showHide": true,
    "showText": false,
    "radio": 2,
    "zIndex": 10
},
]

```

layers 配置支持@符号，格式为 图层 ID@高度层，如果有指定高度层，则地图加载指定高度层数据，高度层切换不随地图变化。

layers 配置图例参数为 legendType 和 legendId，分别标识读取 /public/config/legend/legendType.json 中的 legendId 图例。

7.2.5.工具箱配置

应用的默认加载的工具箱工具。

```

[
{
    "chnName": "放大地图",
    "enName": "Enlarge the map",
    "icon": "plus",
    "id": "EnlargeTheMap",
    "type": null
},
]

```

如果界面需要使用，则可以在场景中配置。

```

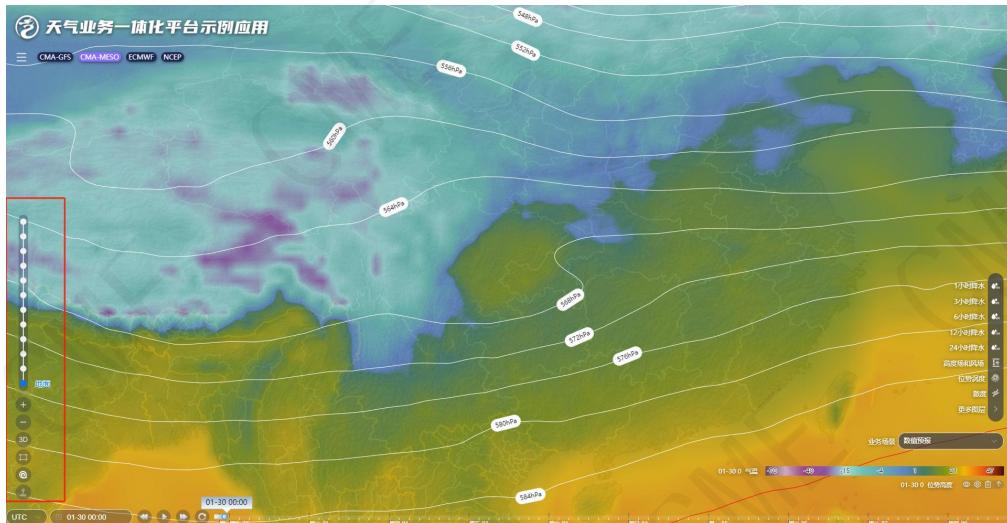
"defaultOperate": {
    //展开菜单
    "menus": ["卫星云图"],
    //默认图层
    "layers": ["FY4B-TrueColor"],
}

```

//场景工具箱

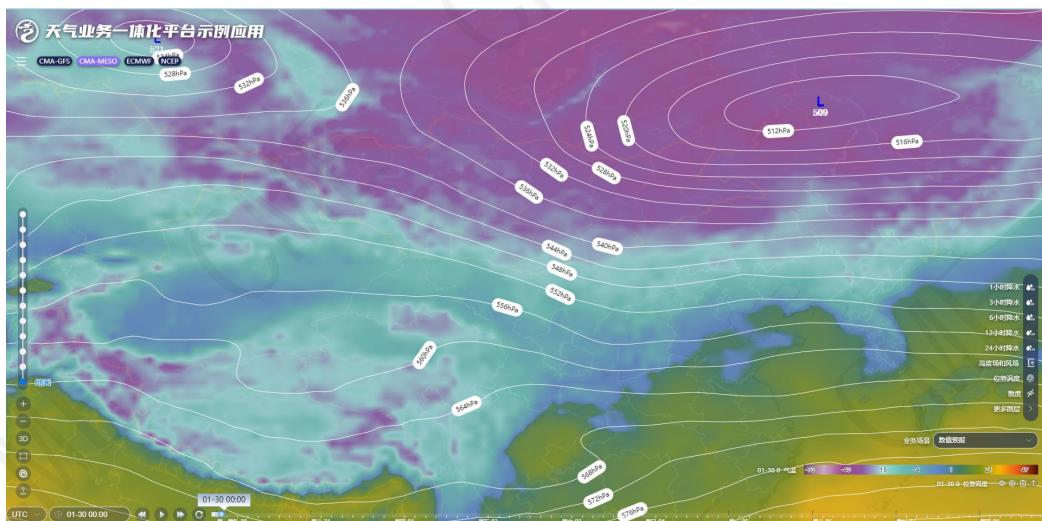
```
"button": ["EnlargeTheMap", "ZoomOutMap", "fullscreen", "3D"]
```

```
}
```



7.2.6. 样式调整

比如说要修改示例组件的样式该如何去修改呢，例如我要把头部加上背景，改为蓝色



其实这种改法是用了前端的样式穿透方案来进行修改，先在浏览器的审查元素中找到所对应的 div，点击 div 右侧会出现对应的样式，然后找到后在审查元素先在右侧测试修改，如果修改成功则说明能可以生效，如何改完后不发生变化，则说明找到的 div 或 class 样式类不对，那么继续查找直到找到对应的，生效为止。

```

<!-- 地图 -->
<div class="center" style="left: 0px; right: 0px;">
  <!-- 图例控制 -->
  <div data-v-78a5c9dc class="layer-seting" style="margin-right: 0px;"></div>
  <!-- 左侧地图设置按钮 -->
  <div data-v-16e808c6e5></div>
  <!-- 右侧业务图层添加 -->
  <div data-v-7c98d8e1 class="business-module-lists" style="bottom: 0.7792rem;"></div> flex
    <!-- 头部 -->
    <div data-v-759430a2 class="page-header" style="flex"> flex
      <div data-v-759430a2 class="header-logo"></div>
      <div data-v-759430a2 class="header_content"></div> flex
    </div>
    <!-- 右侧气象要素按钮 -->
    <div class="meteoDataList" style="bottom: 1.1292rem;"></div> flex
  <div class="map"></div>
<!-- 时间轴 -->

```

```

element.style {
}
.page-header[data-v-759430a2] {
  z-index: 999;
  top: 0;
  left: 0;
  position: absolute;
  display: flex; flex;
  width: 100%;
  justify-content: flex-start;
  height: 0.3125rem;
  padding: 0 0.0729rem 0.0521rem;
  flex-direction: row;
  background-color: #3c87d4;
}

div {
  display: block;
}

```

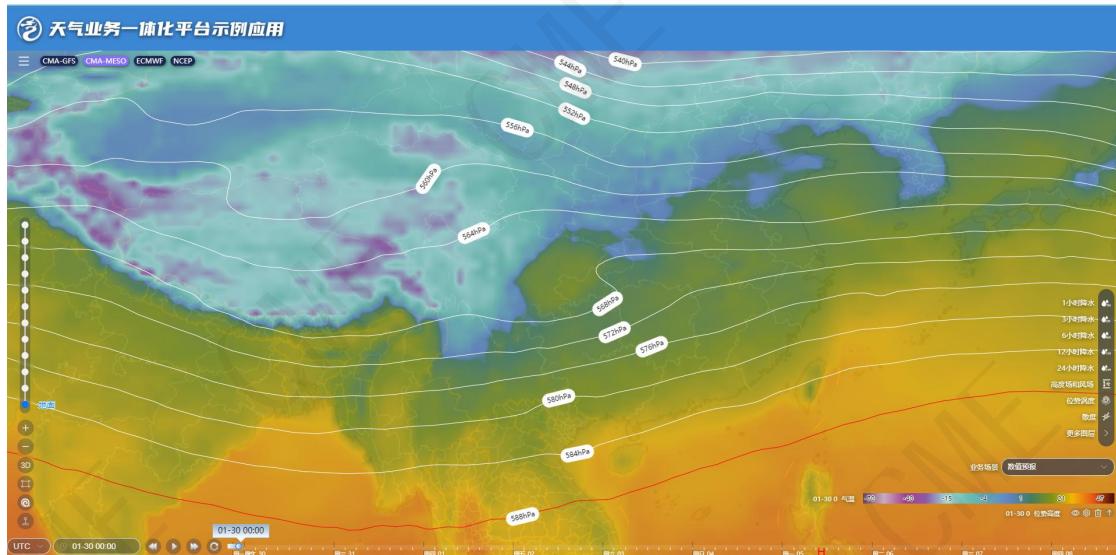
生效后则将这个 class 类名以及要修改的样式一同放在 index.vue 中用 deep 进行样式穿透。如何加上后未生效有可能是权重问题在样式后面可以加一个!important 设为最高权重（推荐操作：可以将要修改的 css 样式统一放置在一个 css 文件中，并在 index.vue 中进行引入挂载.css 文件）

```

<deep .page-header {
  background-color: #3c87d4 !important;
}
</style>

```

这样可以生效了！



7.2.7.组件开发

主要功能开发代码建议存放在目录 **src/plugins** 下

建议格式为：

```

|-- XXX //单个组件文件夹
| |-- XXX.vue //组件 vue 文件

```

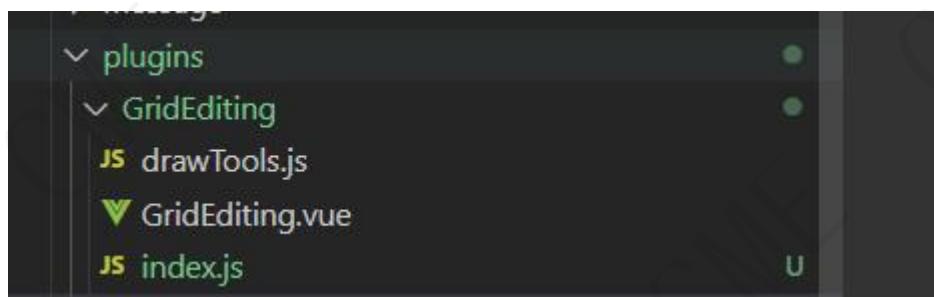
```

| |-- XXX.css //组件 css 文件
| |-- index.js //组件 js 文件, 主要控制组件使用 vue 方法 component 方法抛出组件 |
|-- XXXX.XX //其他文件

```

举例说明：

下面是一个自定义开发组件示例目录结构，它主要的开发逻辑代码存放在自己的.vue 文件，以及它扩展的 drawTools.js 文件。按着下面目录结构去开发制定自己的组件。



抛出方法

组件抛出方法主要是在 index.js，将开发的组件使用 vue 方法抛出，方便框架引入，下面是 index.js 示例代码

```

import singlePoint from './FloatingGridPoint/singlePoint.vue'
// 按需导入法
singlePoint.install = function (Vue) {
    Vue.component(singlePoint.name, singlePoint)
}
export {
    singlePoint
}

```

```

import XXX from 'XXX' //引入组件的主 vue 文件
//使用按需导入方法进行导入
XXX.install = function (Vue) {
    //XXX.name 是 vue 文件内指定的 name 名称，主要作用时为了区分挂载的
    //组件和定义组件的使用名称，
    //第二个参数是抛出组件的实例
    Vue.component(XXX.name, XXX)
}

```

```

    }
    //抛出此组件
    export {XXX}

```

引入方法

下面是将这个组件在框架里面进行引入

先是在 src/frame/defaultPlugs.js 进行 import 引入组件，然后在将这些组件用 vue 方法 use 进行框架挂载

```

import { GridEditing } from '@/plugins/GridEditing/index.js' // 加载组件
//全局注册函数
export default function registerGlobalComponents(app) {
  app.use(GridEditing)

import singlePoint from './FloatingGridPoint/singlePoint.vue'
// 按需导入法
singlePoint.install = function (Vue) {
  Vue.component(singlePoint.name, singlePoint)
}
export {
  singlePoint
}

```

import {XXX} from "XXX"; //引入组件的 component 抛出文件 index.js，导入为抛出的名称

```

export default function registerGlobalComponents(app) {
  app.use(XXX); //将 improt 导入的实例进行 use 挂载
}

```

引入 component 抛出文件 index.js，导入的为 vue 文件的 name 名称

将 improt 导入的实例进行 use 挂载

页面挂载方法

挂载完成后在 index.vue 页面进行引入完成整体扩展流程

```

<!-- 左侧格点编辑-->
<GridEditing :leftGridEditing="leftGridEditing" @showGridEditing="showGridEditing"></GridEditing>
</div>
</div>
</template>

```

7.3.应用打包

7.3.1.MICAPS 前端应用打包

7.3.1.1.组件打包

确认好需要上传打包的组件，在 vite.config.js 找到单个组件打包配置，放开注释（里面是区分项目打包和单个组件打包，2 个不同的场景。使用过程中只能开启一个场景作为 build 项，后期版本会不断优化此问题）

```
// 单个组件打包配置
build: {
  outDir: "CME-GridEditing", //输出文件名称
  lib: {
    entry: path.resolve(__dirname, "./src/plugins/index.js"), //指定组件编译入口文件
    name: "CME-GridEditing",
    fileName: "CME-GridEditing",
  }, //库编译模式配置
  rollupOptions: {
    // 确保外部化处理那些你不想打包进库的依赖
    external: ["vue", "element-plus"],
    output: {
      // 在 UMD 构建模式下为这些外部化的依赖提供一个全局变量
      manualChunks: undefined,
      globals: {
        vue: "Vue",
      },
    },
  },
}

// 单个组件打包配置
build: {
  outDir: "XXX", //输出文件名称
  lib: {
    //指定组件编译入口文件路径（找到组件构建时使用 vue 方法
    //component 抛出的 index.js 文件）
    entry: path.resolve(__dirname, "XXX"),
    name: "xxx", //输入的组件名称
    fileName: "xxx", //单个文件名称
  },
}

//设置库编译模式配置
```

```

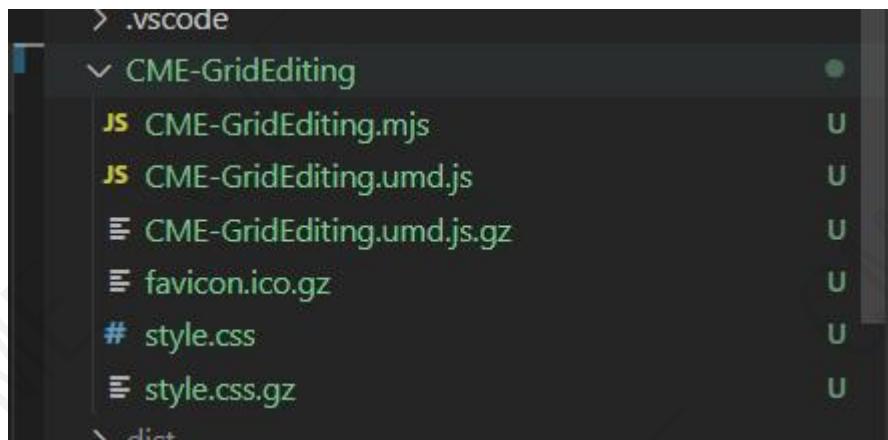
rollupOptions: {
    // 确保外部化处理那些你不想打包进库的依赖
    external: ["vue", "element-plus"],
    output: {
        // 在 UMD 构建模式下为这些外部化的依赖提供一个全局变量
        manualChunks: undefined,
        globals: {
            vue: "Vue",
        },
    },
},
}

```

按照上面的步骤进行配置，配置完成后运行 `npm run build` 进行去这个单独的组件打包

打包完成后会在项目的根目录下生成你指定的 `outDir` 名称，这个文件夹下的所有文件是组件打包好的代码

如图所示：



7.3.1.2.组件发布

上传私服库先配置一个针对单个组件的脚本，此脚本使用 node 环境进行运行，方便了整体上传的流程

在项目根目录下找到 `package` 文件夹，在文件夹里创建单组件的文件。（建

议下面文件名称使用统一名称)

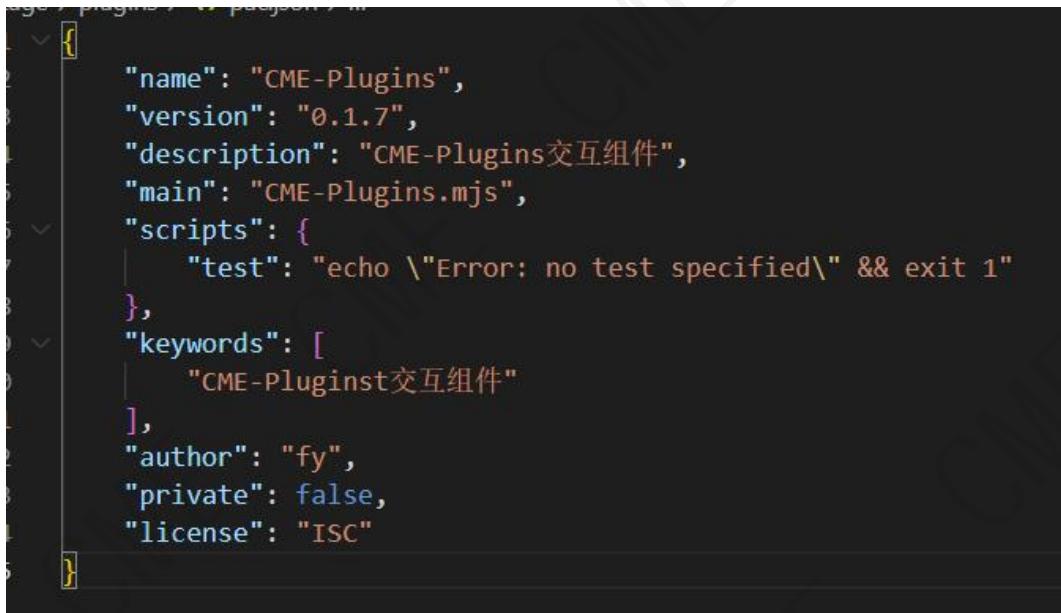
```
|-- XXX //自定义扩展组件的文件夹  
|   |-- deploy.mjs //node 脚本（执行自动配置拷贝 package.json 并上传组件至组件管理平台  
|       |-- pac.json //单个组件的 package.json 配置（组件版本、组件扩展、组件描述）  
|           deploy.mjs  
  
// 导入依赖  
//fs 和 execa 插件为 node 插件与 vite 框架兼容有问题，所以在上传时在去安装 fs、execa 插件通过命令去安装 npm i fs、npm i execa，上传完成后将插件卸载掉防止项目运行失败！  
import fs from 'fs'; //node 插件 fs  
import { execa } from 'execa'; //node 插件 execa  
// 拷贝文件  
function copyFiles() {  
    try {  
        // 拷贝文件  
        fs.copyFileSync('package/配置脚本的文件夹名称/pac.json', '打包的组件文件夹名称/package.json');  
        console.log('pac 文件拷贝成功！');  
    } catch (error) {  
        console.error('pac 文件拷贝失败:', error.message);  
    }  
}  
// 跳转到发布目录  
function cdPublishDir() {  
    process.chdir('打包的组件文件夹名称');  
}
```

```
// 发布到 npm
function publishNpm() {
    return execa('npm', ['publish'], {
        env: {
            ...process.env,
            npm_config_registry:
                'http://cme.leonhan.com:3526/nexus/repository/npm-release/'
        }
    });
}

// 执行任务
async function run() {
    copyFiles();
    cdPublishDir();
    await publishNpm();
}

export default run().catch(err => {
    console.error(err);
    process.exit(1);
});

pac.json
```



```

{
  "name": "CME-Plugins",
  "version": "0.1.7",
  "description": "CME-Plugins交互组件",
  "main": "CME-Plugins.mjs",
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1"
  },
  "keywords": [
    "CME-Plugin互组件"
  ],
  "author": "fy",
  "private": false,
  "license": "ISC"
}

```

```

{
  "name": "XXX",//上传组件名称
  "version": "0.0.1",//版本
  "description": "xxx",//组件介绍
  "main": "XXX.mjs",//默认加载的文件，一般配置为组件名称.mjs 这个文件
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1"
  },
  "keywords": [
    "XXX" //组件分类标签
  ],
  "author": "XXX",//开发者
  "private": false,
  "license": "ISC"
}

```

上面是对脚本的配置 deploy.mjs、pac.json，配置完成后在 package.json 里面配置单个组件的上传命令。

```

    "build_ui": "node ./package/ui/deploy.mjs",
    "build_core": "node ./package/core/deploy.mjs",
    "build_plugins": "node ./package/plugins/deploy.mjs",

```

"build_XXX": "node ./package/XXX/deploy.mjs",//配置组件运行名称

配置完成后在终端运行你所配置的命令即可

npm run build_XXX

```

● * 正在执行任务: npm run build_GridEditing

> CME-framework@0.0.0 build_GridEditing
> node ./package/plugins/deploy.mjs

pac文件拷贝成功!
* 终端将被任务重用, 按任意键关闭。

```

出现终端将被任务重用，按任意键关闭。则代表上传成功！

7.3.1.3.组件引入

使用组件是先将组件在私服库去 npm 下到本地

npm i 组件名称 //安装组件，后面可以加上版本号@XXX 去固定下载那个版本

安装完成后在项目里 src/feame/defaultPlugs.js 去 use 挂载它

```

7 import { webGLCutsomPointLayer } from 'CME-WebPoint' // 加载组件
8 //全局注册函数
9 export default function registerGlobalComponents(app) {
10   app.use(webGLCutsomPointLayer)
11 }

```

use 完成后在 index.vue 里面 dom 挂载

7.3.1.4.页面挂载方法

挂载完成后在 index.vue 页面进行引入完成整体扩展流程

```

<!-- 左侧格点编辑-->
<GridEditing :leftGridEditing="leftGridEditing" @showGridEditing="showGridEditing"></GridEditing>
</div>
</div>
</template>

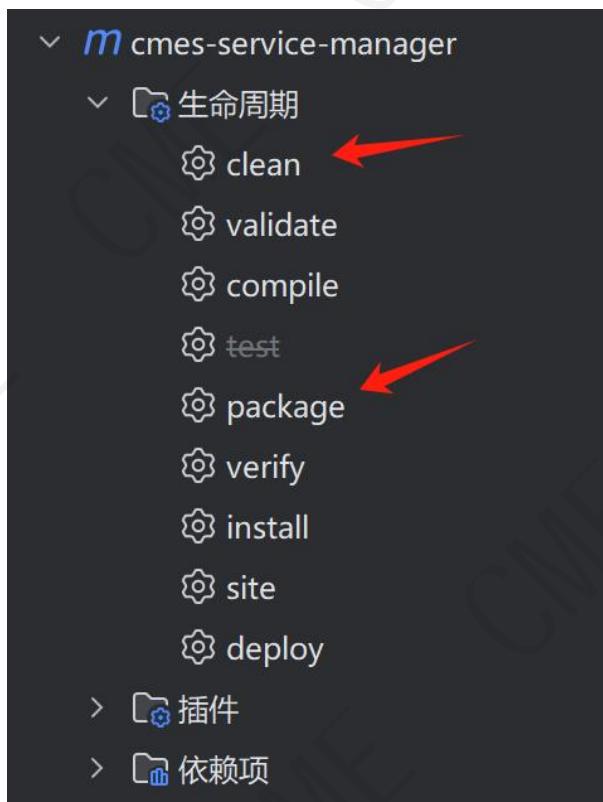
```

5、项目打包

主要用配置命令 `npm run build` 进行打包，打包完成后部署到服务器上即可

7.3.2.MICAPS 后端应用打包

7.3.2.1.MAVEN 打包



使用 idea 的 maven 插件本地打包

7.3.2.2.Docker 镜像构建

构建镜像的 Dockerfile 参考

```
FROM openjdk:8
LABEL maintainer=yuelong \
version=1.0.0 \
description=cmes-service-manager
```

```
# 设置时区
```

```
RUN ln -sf /usr/share/zoneinfo/Asia/Shanghai /etc/localtime && \  
echo 'Asia/Shanghai' >/etc/timezone
```

```
WORKDIR /app
```

```
# 使用环境变量接收 JVM 参数
```

```
ARG JAVA_OPS
```

```
ENV JAVA_OPS=${JAVA_OPS:-"-Xms1024m -Xmx4096m"}
```

```
# 拷贝 jar 包
```

```
COPY *.jar app.jar
```

```
EXPOSE $SERVER_PORT
```

```
ENTRYPOINT ["sh", "-c", "java $JAVA_OPS  
-Djava.security.egd=file:/dev/.urandom -jar app.jar \
```

```
--spring.profiles.active=$SPRING_PROFILES_ACTIVE \  
--nacos.addr=$NACOS_ADDR \  
--nacos.group=$NACOS_GROUP \  
--server.port=$SERVER_PORT \  
--nacos.namespace=$NACOS_NAMESPACE"]
```

执行部署的脚本参考

```
# docker 容器名称，例如：cmes-service-manager
```

```
docker_name=XXXX
```

```
# 服务版本，例如：v0.0.1
```

```
version=XXX
```

```
# nacos 地址, 例如: 192.168.110.64:8848
nacos_addr=XXXX:xxxx

# nacos 命名空间, 例如: eec6e417-86b5-468e-8eca-1d04528384e5
nacos_namespace=xxxxx

# 配置文件

profiles_active=dev

# 服务端口

server_port=8082

# JVM 最大内存

jvm_max_memory=-Xmx10240m

# JVM 最小内存

jvm_min_memory=-Xms1024m

RED=' \033[31m'

GREEN=' \033[32m'

YELLOW=' \033[33m'

BLUE=' \033[34m'

RESET=' \033[0m'

echo -e "${GREEN} ==> 开发构建服务容器${RESET}"
echo -e "${RED} ==> 将正在运行的容器停止运行并移除${RESET}"

# 使用 docker ps -a 来检查容器是否存在, 包括已停止的容器

if docker ps -a | grep -q $docker_name; then

    docker rm -f $docker_name

fi
```

```
echo -e "${RED} ==> 将移除" $docker_name "容器的镜像${RESET}"  
if [[ "$(docker images -q $docker_name 2> /dev/null)" != "" ]];  
then  
    docker rmi $(docker images -q $docker_name 2> /dev/null)  
fi  
echo -e "${GREEN} ==> 开始充新构建 docker 镜像${RESET}"  
docker build -t $docker_name:$version .  
echo -e "${GREEN} ==> 构建完成启动容器${RESET}"  
if [[ $# -gt 0 ]] && [[ "$1" == "jk" ]]; then  
    echo -e "${BLUE} ==> 启动带监控的容器${RESET}"  
    docker run -d \  
        -e SPRING_PROFILES_ACTIVE=$profiles_active \  
        -e NACOS_ADDR=$nacos_addr \  
        -e SERVER_PORT=$server_port \  
        -e NACOS_NAMESPACE=$nacos_namespace \  
        -e JAVA_OPS="$jvm_min_memory $jvm_max_memory"  
        -Djava.rmi.server.hostname=$jk_hostname  
        -Dcom.sun.management.jmxremote  
        -Dcom.sun.management.jmxremote.port=$jk_port  
        -Dcom.sun.management.jmxremote.authenticate=false  
        -Dcom.sun.management.jmxremote.ssl=false" \  
        --name $docker_name \  
        --network host \  
        $docker_name:$version  
else  
    echo -e "${BLUE} ==> 启动不带监控的容器${RESET}"
```

```

docker run -d \
-e SPRING_PROFILES_ACTIVE=$profiles_active \
-e NACOS_ADDR=$nacos_addr \
-e SERVER_PORT=$server_port \
-e NACOS_NAMESPACE=$nacos_namespace \
-e JAVA_OPS="$jvm_min_memory $jvm_max_memory" \
--name $docker_name \
--network host \
$docker_name:$version

fi

echo -e "${GREEN} => 请执行 docker logs -f" $docker_name "查看启动情况${RESET}"

```

7.3.2.3.Docker 部署

将打包后的 jar 包、Dockerfile 和部署脚本放在待部署服务器同级目录

```

drwxr-xr-x  2 root root      4096 Aug 28 09:57 .
drwxr-xr-x 40 root root      4096 Sep  4 16:27 ..
-rw-r--r--  1 root root 119269563 Aug 15 15:51 15a4e88423eab063cb170cbdca5d56e
-rw-r--r--  1 root root     740 May 14 19:03 Dockerfile
-rw-----  1 root root 703178752 Aug 28 09:57 cmes-manager21.tar
-rw-r--r--  1 root root 165341598 Aug 28 16:19 cmes-service-manager.jar
-rw-r--r--  1 root root 106722928 May 16 10:40 cmes-service-manager.jar.bak
-rw-r--r--  1 root root 119269563 Aug 15 15:51 cmes-service-manager.zip
-rwxr-xr-x  1 root root    2486 May 16 16:14 deploy.sh*
-rw-r--r--  1 root root    2000 May 10 18:17 out.log
(base) root@k8s-node1:/home/wxy/cmes-dev/cmes-manager#

```

执行 bash deploy.sh 即可将服务部署成 docker 服务

7.4.业务发布

7.4.1.前端业务发布

7.4.1.1.应用发布

1. 发布配置

开发者可以通过 nginx 进行 CME 打包后的程序部署，可以直接访问服务即可。例如配置 nginx 如下：

```
server {  
    listen      8002;  
  
    server_name 127.0.0.1;  
    underscores_in_headers on;  
  
    #access_log  /var/log/nginx/host.access.log  main;  
    #cme 程序的发布地址  
    location / {  
        root   /usr/share/nginx/html/CME;  
        add_header Access-Control-Allow-Origin *;  
        add_header Cache-Control max-age=3600;  
        try_files $uri $uri/ /index.html;  
    }  
  
    #cme 的交互接口网关地址  
    location /cmeapi {  
        proxy_pass http://10.16.57.161:8088/cmeapi;  
        proxy_connect_timeout 2000;  
    }  
}
```

```

#cme 的地图服务地址

location /map {
    proxy_pass http://10.16.47.93:8001/map;
    proxy_connect_timeout 100;
}

#cme 的 COG 图层服务地址

location /CMEDATA {
    proxy_pass http://127.0.0.1:8001/CMEDATA;
    proxy_connect_timeout 100;
}

error_page 500 502 503 504 /50x.html;

location = /50x.html {
    root /usr/share/nginx/html;
}

}

```

2. 打包程序部署

将打包后的程序，部署到/usr/share/nginx/html/CME 目录下 并进行测试。

7.4.1.2. 部署限制

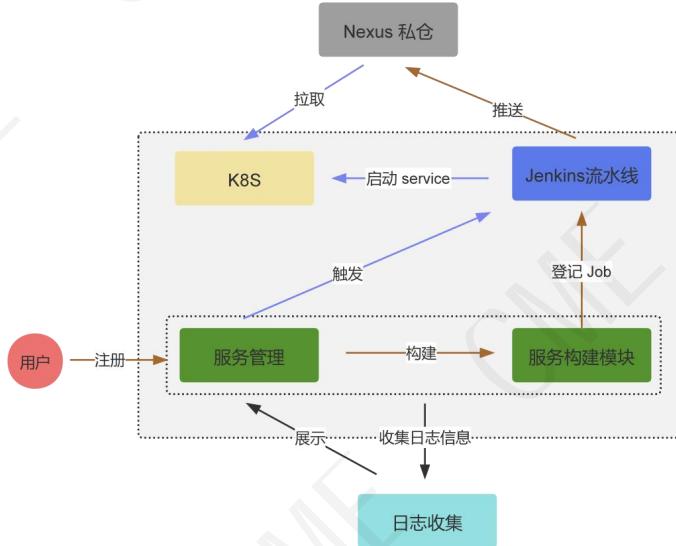
为了保证 MICAPS5 的统一运行和统一管理，CME 框架在发布的时候，需要部署在指定的服务器，否则无法正常访问。当前 CME 框架开发为体验版，为减少开发者的体验显示，目前 CME 开发者本地可直接运行和访问呢。1：开发环境可以直接访问，既 npm run dev 运行。2：本地部署可以直接访问，既 nginx 部署，本地通过 127.0.0.1 或 localhost 访问。3：如果是部署后，需要外部访问，需要配置部署的验证地址。/public/config/copyright.json

```
[ "10.0.74.105:12301", "106.120.80.181:12301", "111.205.114.94:12301",
"10.16.47.31:5173", "10.16.57.161:8002"]
```

该配置表示允许通过以上端口部署访问或者代理访问 CME 框架应用。

7.4.2.后端业务发布

7.4.2.1.介绍



方案提供了两种灵活的管理方式，以适应不同项目的需求：一种是允许平台直接管理源代码，另一种则是仅提供构建完成的文件。这两种方式都基于使用脚手架开发的项目：

- **服务元信息登记：**业务方需在平台上注册服务的基本信息，涵盖服务名称、版本号、资源配置、发布方式（如 kubernetes 或 Docker）、服务脚本等；
- **Jenkins 集成：**针对可以提供源码的业务服务，平台将使用 Jenkins 的流水线作为构建方式；针对无法提供源码，只能提供构建后的 Jar 等，需要业务提供编译后的文件和 Dockerfile 文件以及构建和发布脚本信息构建 Jenkins 的 Job，然后在由平台统一的调度；
- **服务操作：**此时业务方在平台就可以对服务进行操作，支持如下操作：
 - **构建：**平台将调用 Jenkins API 或执行构建脚本来打包项目，并输出构建详情。随后，利用 Dockerfile 将服务打包成 Docker 镜像
 - **推送：**此时平台会将打包好的镜像，推送为 docker 的私仓；
 - **启动：**平台从 docker 私仓中拉取对应的服务镜像信息，根据配置的服务

元信息启动为 docker 容器或者 k8s 中的 service;

7.4.2.2. 使用

具体使用步骤如下：

- 首先要创建凭据（即可拉取源码的 git 账号密码）



- 其中凭据 id 要保证唯一，并且不可以是中文，可以是如：gitlabtest 或 gitlab-prod 等这样的命名，凭据 id 不支持修改；
 - 用户名和密码是真实的具有拉取代码权限的 git 账号和密码；
 - 描述根据实际情况填写。
- 创建服务元数据

创建服务

* 服务名称	<input type="text"/>
* 服务ID	<input type="text"/>
* 应用名称	<input type="text"/> 请选择
* 服务类型	<input type="text"/> 请选择
* 镜像名称	<input type="text"/>
* 版本号	<input type="text"/> 请输入版本号
* 发布类型	<input type="text"/> 请选择
* 资源类型	<input type="text"/> git源码
* git地址	<input type="text"/>
* 凭据	<input type="text"/> 请选择
* 分支	<input type="text"/>

取消 提交

- 源码中要包含可正常打包服务的 Dockerfile 文件（前端项目要放在项目根目录，后端如果是多模块项目放在子模块根目录，否则也放在根目录）

- 脚手架后端 Dockerfile 参考

```
FROM openjdk:8

# 设置时区
RUN ln -sf /usr/share/zoneinfo/Asia/Shanghai /etc/localtime && \
echo 'Asia/Shanghai' >/etc/timezone

WORKDIR /

# 使用环境变量接收 JVM 参数
ARG JAVA_OPS

ENV JAVA_OPS=${JAVA_OPS:-"-Xms1024m -Xmx5120m"}

# copy jar
ADD target/*.jar app.jar

EXPOSE ${SERVER_PORT}
```

```
ENTRYPOINT ["sh", "-c", "java ${JAVA_OPS} \
-Djava.security.egd=file:/dev/.urandom -jar app.jar \
--spring.profiles.active=${SPRING_PROFILES_ACTIVE} \
--nacos.addr=${NACOS_ADDR} \
--server.port=${SERVER_PORT} \
--nacos.group=${NACOS_GROUP} \
--nacos.namespace=${NACOS_NAMESPACE}"]
```

7.4.2.2.1.脚手架后端项目部署 k8s 服务

1. 服务名称：服务名称要和 nacos 注册名一致（在脚手架启动类配置的名字），例如：cmes-auth，作为服务的唯一标识，创建时会同步为 jenkins 的构建任务名。
2. 服务类型：后端服务。
3. 镜像名称：程序打包后发送到私仓的镜像名，一般和服务名称一致即可。
4. 版本号：格式为：v0.0.1
5. 发布类型：k8s
6. 资源类型：git 源码
7. git 地址：项目的 git 仓库地址
8. 凭据 id：选择上面创建好的 git 凭据（即拉取 git 代码的账号密码）
9. 分支：如分支是 dev，这里填写*/dev

7.4.2.2.2.通过 git 源码部署前端项目部署 k8s 服务

1. 服务名称：前端项目名，作为唯一标识，创建时会同步为 jenkins 的构建任务名。

2. 服务类型：前端服务。
 3. 镜像名称：程序打包后发送到私仓的镜像名，一般和服务名称一致即可。
 4. 版本号：格式为：v0.0.1
 5. 发布类型：k8s
 6. 资源类型：git 源码
 7. git 地址：项目的 git 仓库地址
 8. 凭据 id：选择上面创建好的 git 凭据（即拉取 git 代码的账号密码）
 - 发布和部署
- 点击发布，查询状态，发布成功后可点击部署



7.4.2.3. 通过程序包部署 k8s 服务

该功能主要用于集成未发布到 git 源码的项目到 k8s 服务

1. 资源类型：程序包
2. 上传程序包举例：

后端项目：包含 jar 包和 Dockerfile（注意这个 Dockerfile 要在当前目录可打包镜像）

名称	修改日期	类型	大小
cmes-service-manager.jar	2024/8/26 14:47	Executable Jar File	187,304 KB
Dockerfile	2024/8/26 14:26	文件	1 KB

全选右键生成zip文件

3. 其他字段配置和 git 源码发布方式一致即可

7.4.2.4. 上传镜像部署 k8s 服务

主要用于一些特定镜像部署为 k8s 服务

1. 资源类型：Docker 镜像
2. yaml 举例：（以 geoserver 为例）
3. 需要修改的地方为 xxxx 的位置,如 geosever，直接替换所有“xxxx”为“geoserver”

配置如下：

```
apiVersion: v1  
  
kind: Service  
  
metadata:  
  
  name: xxxx-headless  
  
  namespace: application-fyqx-cmes  
  
  labels:  
  
    app: xxxx-headless  
  
spec:  
  
  type: ClusterIP  
  
  ports:  
  
    - port: 8080  
  
  name: server  
  
  targetPort: 8080  
  
  selector:  
  
    app: xxxx
```

```
apiVersion: apps/v1
kind: StatefulSet
metadata:
  name: geoserver
  namespace: application-fyqx-cmes
spec:
  serviceName: xxxx-headless
  replicas: 1
  template:
    metadata:
      labels:
        app: xxxx
    annotations:
      pod.alpha.kubernetes.io/initialized: "true"
    spec:
      affinity:
        podAntiAffinity:
          requiredDuringSchedulingIgnoredDuringExecution:
            - labelSelector:
                matchExpressions:
                  - key: "fyqx"
                    operator: In
                    values:
```

```
- cmes

topologyKey: "kubernetes.io/hostname"

containers:

- name: xxxx

imagePullPolicy: Always

image: 10.194.90.150:9091/xxxx:v1.0

resources:

requests:

memory: "2Gi"

cpu: "500m"

ports:

- containerPort: 8080

name: client

env:

- name: GEOSERVER_ADMIN_PASSWORD

value: "w@ng87631914"

- name: GEOSERVER_ADMIN_USER

value: "admin"

volumeMounts:

- name: geoserver-data

mountPath: "/opt/geoserver/data_dir"

imagePullSecrets:

- name: fyqx-cmes
```

```
nodeSelector:  
fyqx: cmes  
  
volumes:  
- name: xxxx-data  
  
hostPath:  
path: /usr/local/geoserver_data/  
type: DirectoryOrCreate  
  
selector:  
  
matchLabels:  
app: xxxx  
  
---  
  
apiVersion: v1  
  
kind: Service  
  
metadata:  
name: xxxx-ui  
  
namespace: application-fyqx-cmes  
  
spec:  
type: NodePort  
  
selector:  
app: xxxx  
  
ports:  
- name: http  
  
port: 8080
```

targetPort: 8080

第八章 nodePort: 28849 框架开发示例

8.1.MICAPS5 前端开发示例

8.1.1.在线操作手册

1.框架简介

框架是一个基于 Vue 3 和 Vite 的前端项目。它使用了一些流行的库和插件，如 CME2D、Element Plus、axios、pinia、vue-router 等，以提供丰富的功能和优化的开发体验。

2.项目启动

本项目只配置一种 npm 方式下载内部组件，yarn pnpm 用户自行配置在.npmrc 文件内默认指定了本项目私有 npm 仓库地址，无需修改本地源。

(1) 安装本项目依赖

```
npm install
```

(2) 启动 Vite 开发服务器。

```
npm run dev
```

(3) vite build 进行生产环境构建。

```
npm run build
```

(4) 启动 Vite 预览服务器，用于预览生产环境构建结果。

```
npm run preview
```

3.代码开发规范说明

遵循 Eslint + Periiter + Editconfig ,暂未配置代码提交规范，可自行考量。

遵循规定的目录结构，以便后期统一维护，示例代码可以自行根据业务需求调整。

CME* 组件，打包到私有源组件遵循 CME 组件开发规范，其他组件遵循各自规范。

4.项目说明

(1) 主要技术选型

Vue3 + js（支持 ts） + Vite + ElementPlus + mockjs + CME2D + Axios +

vue-router + pinia

(2) Icon 组件使用

本地 svg 下载到 plugins/icon 下面：

```
<svg-icon name="local-icon-print" size="18px" color="red" />
```

1) Api 真实接口请求说明

请求实例可在 message/request 目录下配置，使用方式参数 api 文件夹下设置。

```
//参考
import request from "@/message/request";

export function shopAdd(param) {
  return request({
    url: "/Data/goods.ashx",
    method: "get",| You, 上周 • 更新doc
    params: param,
  });
}
```

2) mockjs 模拟接口请求说明

模拟请求实例可在 message/mock 目录下配置，使用方式参数 api 文件夹下设置。

```
// 模拟配置 message/mock
/** get请求
 * 获取图层url
 */
Mock.mock(RegExp("/api/mockGetList" + ".*"), "get", (options) => {
  var str = options.url.slice(options.url.indexOf("?") + 1);
  var elem = QS.parse(str);
  let projection;
  switch (elem.projection) {
    default:
      projection = "4326";
  }
  console.log(projection, elem, "res");
  return Mock.mock({
    code: 200,
    data: [
      {
        url: `/data/${elem.element}/${elem.element}_${projection}.tif`,
      },
    ],
  });
});

// api文件夹下
//接口参考
import request from "@/message/request";

export default {
  layersAll(param) {
    return request({
      url: `/api/mockGetList`,
      method: "get",
      params: param,
    });
  },
};
```

8.1.2. 开发示例

1. 查看 npm 源

本项目只配置一种 npm 方式下载内部组件，yarn pnpm 用户自行配置。在.npmrc 文件内默认指定了本项目私有 npm 仓库地址，无需修改本地源。

查看 npm 源是否生效在终端输入：

npm config get registry

显示如下结果则说明成功：

http://10.0.74.105:12302/repository/npm-public/

2. 安装本项目依赖

npm install

3. 启动 Vite 开发服务器。

npm run dev

4.部分目录结构说明

```
|-- build
|   |-- CME-WindyBarb -单组件打包、发布、部署脚本配置文件夹（示例）
|   |-- deploy.js -单组件自动拷贝部署脚本（示例）
|   |-- pac.json -单组件配置文件（示例）
|   |-- prod.com.config.js -单组件打包配置文件（示例）
|-- public
|   |-- data -模拟数据（示例）
|   |-- pic -图层配置图标（示例）
|-- src -项目主体
|   |-- api -封装接口文件
|   |   |-- mockApi -mock 模拟接口文件（示例）
|   |   |-- maplist -普通接口文件（示例）
|   |-- assets -静态资源
|   |   |-- font -字体存放（示例）
|   |   |-- icons -svg 图标（示例）
|   |   |-- pic -图片存放（示例）
|   |   |-- style -主要样式存放（示例）
|   |-- components -组件化
|   |   |-- cme-application -基础组件
|   |   |   |-- mapControl -底图控制弹框组件（示例）
|   |   |   |-- RasterRender -单通道栅格数据渲染组件（示例）
|   |   |   |-- WindyBarb -风向杆渲染组件（示例）
|   |   |   |-- WindyStream -风流场渲染组件（示例）
|   |   |-- cme-base -基于 CMEsdk 封装的组件
|   |   |   |-- baseMap -生成 2Dmap 组件（示例）
|   |   |-- cme-ui -基础 UI 融合组件
|   |   |   |-- timeLine -时间轴组件（示例）
|   |   |-- settingControl -左侧工具组件（示例）
```

```

|     |-- layerSetting -图层控制图例控制组件（示例）
|     |-- layerManage -右侧要素展示组件（示例）
|     |-- headerNav -头部导航栏组件（示例）
|     |-- cms-plugins -基于扩展封装组件
|     |-- config -配置文件
|         |-- maplist -底图配置数据（示例）
|         |-- projection -投影配置数据（示例）
|         |-- toolbox -地图工具配置数据（示例）
|     |-- message -消息管理
|         |-- mock -mock 模拟接口消息配置（示例）
|         |-- request -axios 请求封装（示例）
|         |-- ws-request -websocket 消息封装（示例）
|     |-- plugins -扩展插件存放
|         |-- i18n -语言切换插件（示例）
|         |-- SvgIcon -svg 图标加载封装（示例）
|     |-- router -路由管理
|     |-- store -状态管理
|     |-- utils -通用工具
|     |-- views -主体业务页面
|         |-- home -主体业务页面
|     |-- App.vue -vue 入口文件
|     |-- main.js -整体配置入口文件

```

5.组件开发

组件开发一般分为基础组件、基础 UI 融合组件、基于 CMEsdk 封装的组件，3 大类，如果要开发基础组件就放置在 src/components/cme-application 内部，创建组件文件夹，构建自己的组件如 WindyBarb 组件，它是绘制地图风向杆的组件，在文件夹下它有自己的 index.vue 等其他属于组件的一些内部依赖，保持每个组件可以独立使用。

6.组件应用

组件应用分为自开发组件应用和示例组件应用，如自开发组件应用主要是使用 vue 父子组件挂载机制，组件通信方式使用的是 props、events、全局状态管理等所有 vue 通信方式。

8.1.3.组件集成示例

示例组件应用集成主要调用 CME 框架服务支持网站给出的组件示例集成步骤如下：

```
import { blendLayers } from 'CME2DCore' //色斑图
```

然后等地图加载完成后进行方法调用如色斑图：

```
let layers = new CME2DCore.blendLayers(map, {
    url: url,
})
layers._render(params).then(object => {
    layers.addCogeoLayer(params).then(layer => {
        map.addLayer(layer)
    })
})
```

8.1.4.框架发布示例

主要用配置命令 npm run build 进行打包，打包完成后生成 dist 文件夹，然后把 dist 放置到服务器上完成整体框架打包发布

8.1.5.组件打包

1.确认好需要上传打包的组件，在 Build 文件夹下构建每个组件的打包配置，如框架内部自带的 CME-WindyBarb 组件示例里面有 3 个文件分别是：

```
|   |-- CME-WindyBarb 独立组件文件
|   |   |-- deploy.js 上传组件脚本
|   |   |-- pac.json 组件的 package.json 说明文档
|   |   |-- prod.com.config 组件打包配置文件
```

2.构建完成打包组件所需的文件，在 package.json 构建单独组件的打包命令

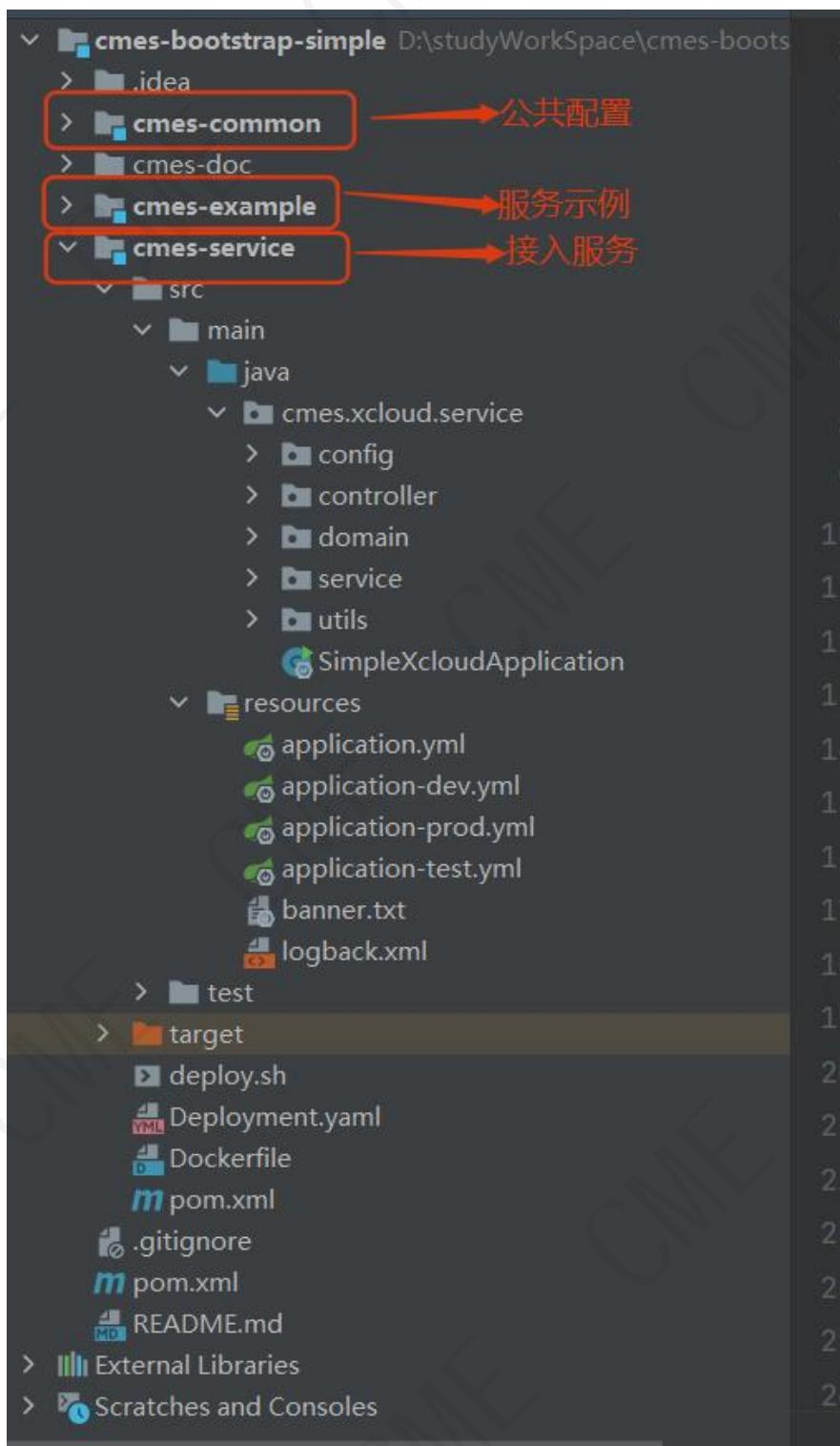
```
▶ 测试
"scripts": {
  "dev": "vite",
  "build": "vite build",
  "build_CME-WindyBarb": "vite build --mode production --config ./build/CME-WindyBarb/prod.com.config.js && node ./build/CME-WindyBarb/deploy.js"
  "preview": "vite preview"
},
```

3. 执行此命令，组件正常推送到私服完成组件打包

8.2.MICAPS5 后端开发示例

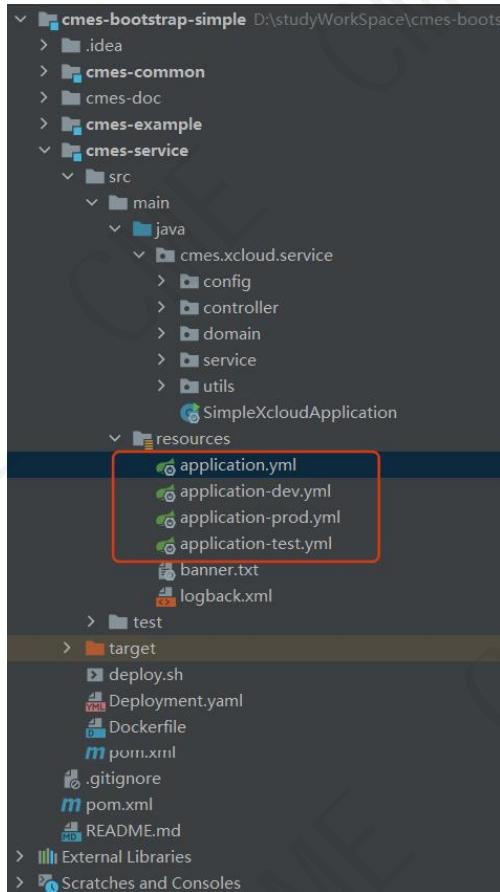
8.2.1.基础使用

8.2.1.1.项目简介



8.2.1.2. 接入配置

接入系统配置需要将配置按环境写入 yml 文件中

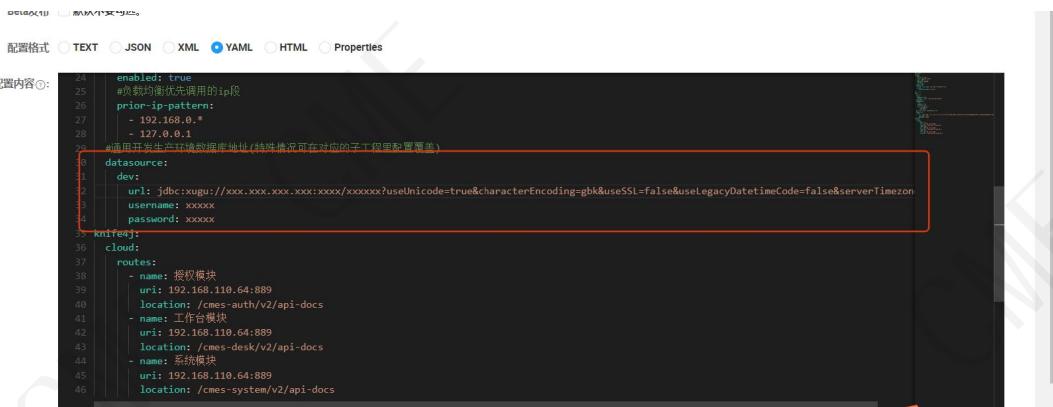


针对公共配置则可配置于线上 nacos

操作	已属应用	Group	Data ID
详情		DEFAULT_GROUP	cmes.yaml
详情		DEFAULT_GROUP	cmes-dev.yaml
详情		DEFAULT_GROUP	cmes-system.yaml
详情		DEFAULT_GROUP	cmes-auth.yaml
详情		DEFAULT_GROUP	cmes-gateway.yaml
详情		DEFAULT_GROUP	cmes-manager.yaml
详情		DEFAULT_GROUP	cmes-swagger.yaml
详情		DEFAULT_GROUP	cmes-function.yaml
详情		DEFAULT_GROUP	cmes-base-data
详情		DEFAULT_GROUP	cmes-business-oceannavigation.yaml

8.2.2.数据库

公有配置可参考 nacos 中的 spring.datasource



```

配置内容①:
24   enabled: true
25   #负载均衡优先调用的ip段
26   prior-ip-pattern:
27     - 192.168.0.#
28     - 127.0.0.1
29   #适用开发生产环境数据库地址(特殊情况下可在对应的子工程里配置简单)
30   datasource:
31     dev:
32       url: jdbc:mysql://xxx.xxx.xxx.xxx:xxxx?useUnicode=true&characterEncoding=gbk&useSSL=false&useLegacyDatetimeCode=false&serverTimezone=UTC
33       username: xxxx
34       password: xxxx
35   knife4j:
36   cloud:
37     routes:
38       - name: 普权模块
39         uri: 192.168.110.64:889
40         location: /cmes-auth/v2/api-docs
41       - name: 工作台模块
42         uri: 192.168.110.64:889
43         location: /cmes-desk/v2/api-docs
44       - name: 系统模块
45         uri: 192.168.110.64:889
46         location: /cmes-system/v2/api-docs

```

私有配置则可以配置于个人项目

8.2.3.接口文档

接口文档接入：

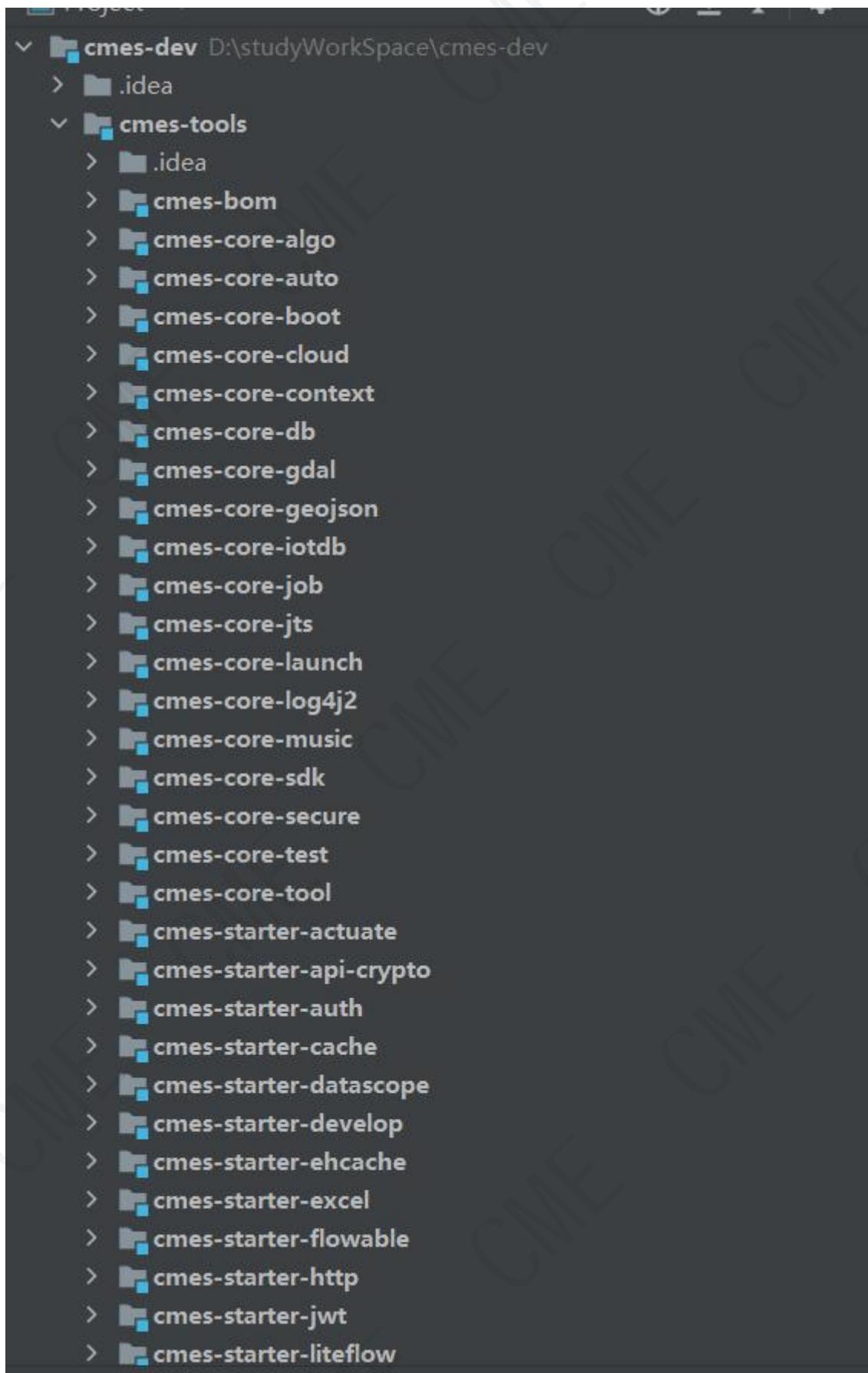
- 1, 注册 APIFox, 官网: <https://apifox.com/>
- 2, 寻找所在地 MICAPS5 管理员, 加入一体化 APIFox 项目

8.2.4.基础服务

项目提供包含权限, 角色, 用户, 登录, 机构, 菜单等相关项目, 详情请参考
一体化 APIFox 项目

8.2.5.扩展融入

拓展组件相关, 可引入 cmes-tools 项目后新增项目, 并发布私库, 即可引用:



8.2.6.后台组件开发规范

8.2.6.1.缩进和格式

- (1) 统一缩进：使用空格或制表符（Tab）进行缩进，但整个项目应保持一致。通常推荐使用 4 个空格作为缩进单位。
- (2) 大括号风格：对于大括号（{}）的放置，Java 社区中有多种风格（如 K&R 风格、Allman 风格等）。选择一种风格并在项目中保持一致。
- (3) 行宽限制：设置合理的行宽限制（如 80 或 120 个字符），过长的行应适当换行以提高可读性。

8.2.6.2.编码风格

- (1) 代码可读性：编写易于阅读的代码，避免使用过于复杂的表达式或结构。
- (2) 一致性：在整个项目中保持一致的编码风格，包括命名、缩进、空格使用等。
- (3) 避免硬编码：尽量使用常量或配置文件来管理可能变化的值，避免在代码中直接硬编码。

8.2.6.3.依赖管理

- (1) 使用构建工具：使用 Maven、Gradle 等构建工具来管理项目依赖。
- (2) 避免过度依赖：尽量减少对外部库的依赖，特别是那些重量级或不稳定的库。
- (3) 版本控制：在构建文件中明确指定依赖的版本号，避免因为依赖更新而导致的问题。

8.2.6.4.单元测试

- (1) 编写单元测试：为关键代码编写单元测试，确保代码的正确性和稳定性。
- (2) 测试覆盖率：尽量提高测试覆盖率，特别是对公共方法和关键逻辑的测试。
- (3) 持续集成：将单元测试集成到持续集成流程中，确保每次提交都通过测试。

8.2.6.5. 异常处理

- (1) 合理抛出异常：在方法签名中声明可能抛出的异常，并在适当的位置抛出异常。
- (2) 捕获并处理异常：在调用可能抛出异常的方法时，应捕获并处理这些异常，避免程序崩溃。
- (3) 避免吞没异常：捕获异常后应进行处理或记录日志，避免简单地吞没异常而不做任何处理。

第九章 模块开发示例

9.1.地图类组件

9.1.1 创建组件

(1) 新建文件夹，存放组件整体。

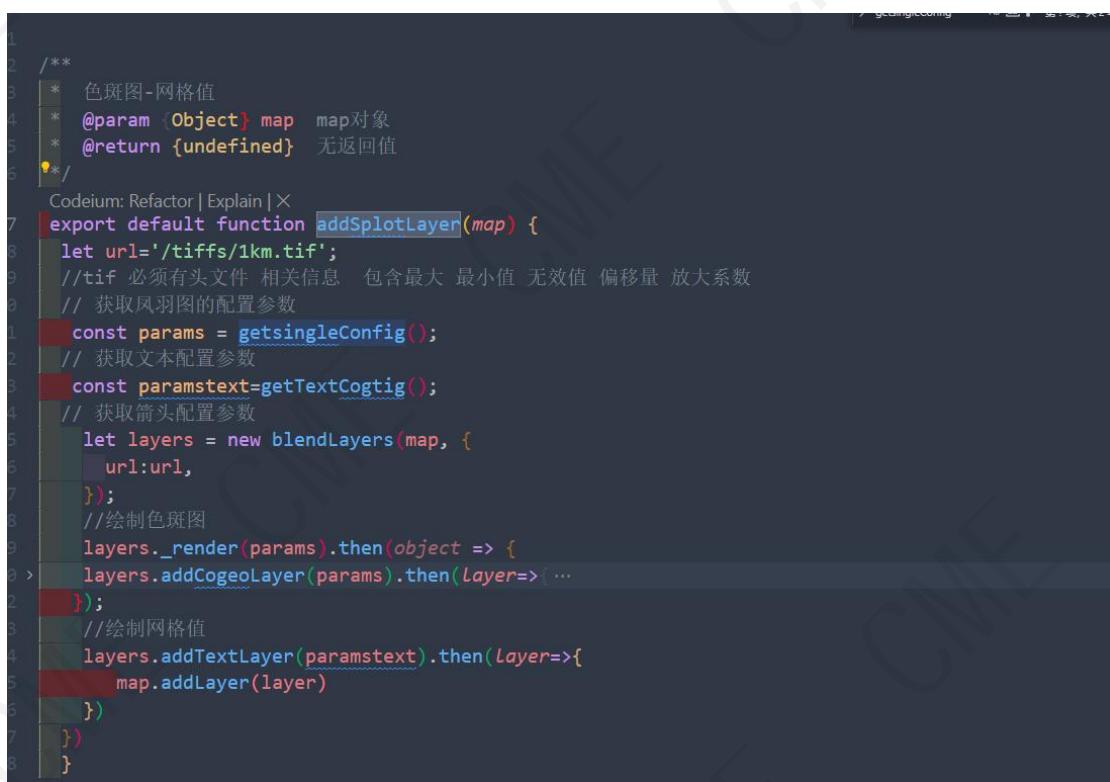
路径： src/components/cme-application/

(2) 创建该组件的主体文件，以 index.js 文件为例子。

路径： src/components/cme-application/GridRender-test/index.js

9.1.2 构建代码

(1) 在内部构建 js 代码调用 CME2D 或 CME3D，封装成可以应用地图的组件。最后以 export default 抛出函数方法如下：



```
1 /**
2  * 色斑图-网格值
3  * @param {Object} map map对象
4  * @return {undefined} 无返回值
5 */
6
7 Codeium: Refactor | Explain | X
8 export default function addSplotLayer(map) {
9     let url='/tiffs/1km.tif';
10    //tif 必须有头文件 相关信息 包含最大 最小值 无效值 偏移量 放大系数
11    // 获取风羽图的配置参数
12    const params = getsingleConfig();
13    // 获取文本配置参数
14    const paramstext=getTextCogtig();
15    // 获取箭头配置参数
16    let layers = new blendLayers(map, {
17        url:url,
18    });
19    //绘制色斑图
20    layers._render(params).then(object => {
21        layers.addCgeoLayer(params).then(Layer=>{
22            });
23    });
24    //绘制网格值
25    layers.addTextLayer(paramstext).then(Layer=>{
26        map.addLayer(layer)
27    })
28 }
29 }
```

```

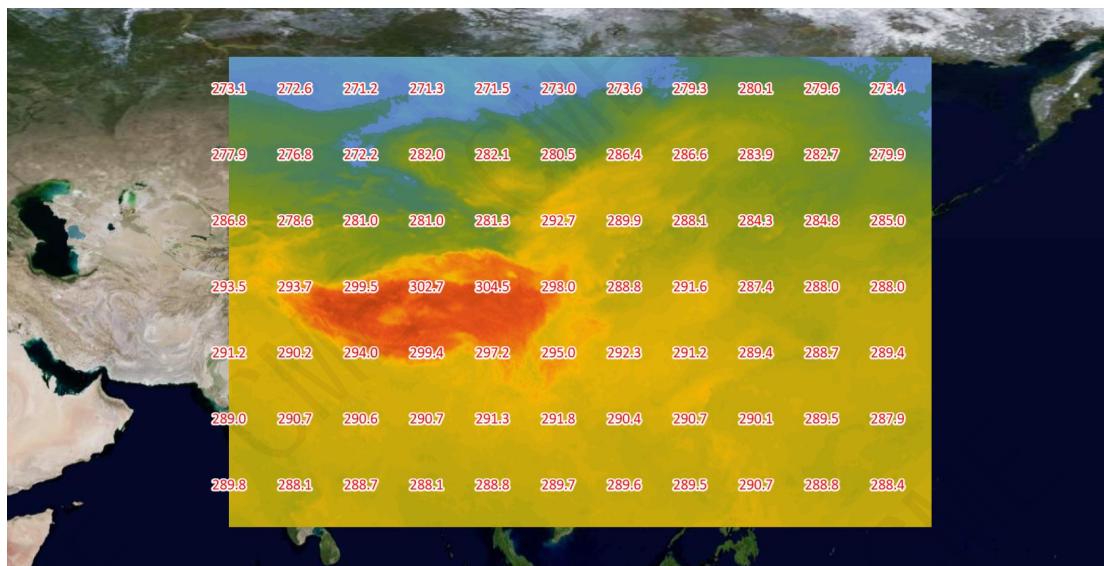
29 /**
30  * 获取单个tif图层的配置参数
31  * @returns {Object} params - 配置参数
32  * @property {string} layerName - 图层名称
33  * @property {number} opacity - 透明度
34  * @property {string} interpolation - 渐变 linear 区间 nearest 网格 grid
35  * @property {Array} colors - 颜色
36 */
37 Codeium: Refactor | Explain | X
38 function getSingleConfig() {
39   let params={
40     layerName: 'cogtifLayer',//图层名称
41     opacity: 1.0,//透明度
42     interpolation:"nearest",// 渐变 linear 区间 nearest 网格 grid
43     colors://颜色
44     [
45       [203, [115, 70, 105, 1]],
46       [218, [202, 172, 195, 1]],
47       [233, [162, 70, 145, 1]],
48       [248, [143, 89, 169, 1]],
49       [258, [157, 219, 217, 1]],
50       [265, [106, 191, 181, 1]],
51       [269, [100, 166, 189, 1]],
52       [273.15, [93, 133, 198, 1]],
53       [274, [68, 125, 99, 1]],
54       [283, [128, 147, 24, 1]],
55       [294, [243, 183, 4, 1]],
56       [303, [232, 83, 25, 1]],
57       [320, [71, 14, 0, 1]],
58     ]
59   }
60   return params;
61 }
62 /**
63  * 获取文本图层的配置参数
64  * @returns {Object} params - 配置参数
65  * @property {string} layerName - 图层名称
66  * @property {number} opacity - 透明度
67  * @property {Object} textStyle - 文本样式
68  * @property {Object} textStyle.Style - 文本样式
69  * @property {Object} textStyle.Style.text - 文本样式
70  * @property {string} textStyle.Style.text.Text.font - 字体
71  * @property {Object} textStyle.Style.text.Text.fill - 填充颜色
72  * @property {Object} textStyle.Style.text.Text.fill.Fill - 填充颜色
73  * @property {string} textStyle.Style.text.Text.fill.Fill.color - 填充颜色
74  * @property {Object} textStyle.Style.text.Text.stroke - 描边
75  * @property {Object} textStyle.Style.text.Text.stroke.Stroke - 描边
76  * @property {string} textStyle.Style.text.Text.stroke.Stroke.color - 描边颜色
77  * @property {number} textStyle.Style.text.Text.stroke.Stroke.width - 描边宽度
78 */
79 Codeium: Refactor | Explain | X
80 function getTextCotig(){
81   let params =
82   {
83     layerName: 'textLayer', //文本图层的图层名字,默认是栅格数据id名称加上_Text
84     opacity: 1, //透明度
85     textStyle: {
86       //网格值的样式
87       style: {
88         "text": {
89           "Text": {
90             "font": "18px Calibri sans-serif"
91           }
92         }
93       }
94     }
95   }
96   return params;
97 }

```

```
        "font": "18px Calibri,sans-serif",
        "fill": {
            "Fill": {
                "color": "#ff0000"
            }
        },
        "stroke": {
            "Stroke": {
                "color": "#ffffff",
                "width": 4
            }
        }
    },
    "text": {
        "font": "18px Calibri,sans-serif",
        "fill": {
            "Fill": {
                "color": "#000000"
            }
        },
        "stroke": {
            "Stroke": {
                "color": "#ffffff",
                "width": 4
            }
        }
    }
}
return params;
}
```

9.1.3 测试组件

(1) 在需要调用组件的代码中 import 导入方法，进行方法调用，测试能否效果：



9.1.4 打包上传

第一次发包时需要登录，后续在发布时，系统内是有登录证书则无需登录。
直接执行发布。

(1) 登录 npm 私服账号，在终端执行此命令

```
npm login -repository= http://cme.leonhan.com:3526/nexus/repository/npm-release/
```

```
终止批处理操作吗(Y/N)? y
PS E:\WeChat Files\WeChat Files\gaby0203\FileStorage\File\2024-12\cme2d-core(1)\cme2d-core-flj> npm login --repository= http://cme.leonhan.com:3526/nexus/repository/npm-r
elease/
npm notice Log in on http://cme.leonhan.com:3526/nexus/repository/npm-public/
Username: admin
Password: ■
```

依次输入账号、密码、邮箱。

账号: admin

密码: XXXXXXXX

邮箱: admin@example.org

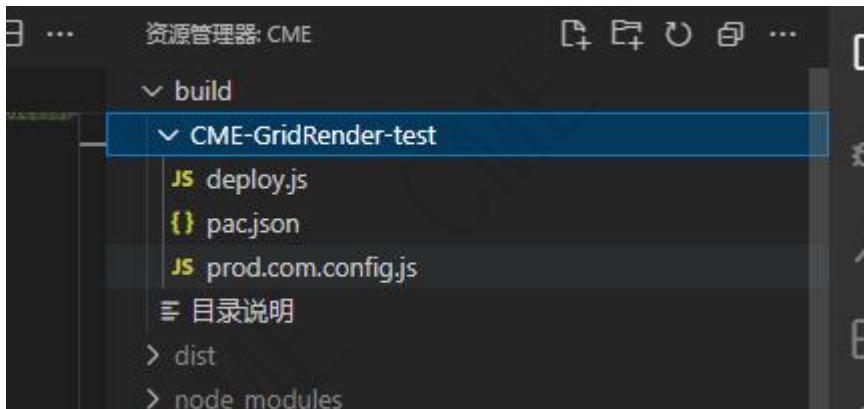
输入完成后，提示 Logged in as admin on XXXX 则登录成功

```
终止批处理操作吗(Y/N)? y
PS E:\WeChat Files\WeChat Files\gaby0203\FileStorage\File\2024-12\cme2d-core(1)\cme2d-core-flj> npm login --repository= http://cme.leonhan.com:3526/nexus/repository/npm-r
elease/
npm notice Log in on http://cme.leonhan.com:3526/nexus/repository/npm-public/
Username: admin
Password: Logged in on http://cme.leonhan.com:3526/nexus/repository/npm-public/.
PS E:\WeChat Files\WeChat Files\gaby0203\FileStorage\File\2024-12\cme2d-core(1)\cme2d-core-flj> ■
```

(2) 配置打包脚本

使用打包框架内置打包脚本模板进行修改默认属性。

路径：“项目/build/XXX”文件



里面默认自带三个文件分别是：

deploy.js-----自动发布包脚本

pac.json-----包的版本配置文件

prod.com.config.js-----打包配置文件

(3) 配置 pac.json 文件

此文件是为了发布组件而创建的，需要配置完整，当打包发布命令运行时会自动复制到打包生成的文件中。

```
{
  "name": "CME-GridRender-test", // 发布的包名，发布线上后，可以通过 npm install 该名称 来引用该包
  "version": "0.0.1", // 版本号
  "description": "CME-GridRender-test 色斑图组件", // 包描述
```

```

"main": "CME-GridRender-test.js", // 打包后的入口文件, 若不配置, 则在其他项目中就无法使用 import xx
from '包名'来引入组件, 只能以包名作为起点来指定相对路径

"scripts": { // 运行命令
    "test": "echo \"Error: no test specified\" && exit 1"
},
"keywords": [ // 包的关键词, 可以通过 npm 搜索你填写的关键词找到你的包
    "色斑图组件",
    "单通道 tiff 组件"
],
"author": "fy", // 作者
"private": false, // 是否设为私有包
"license": "ISC" // 代码授权许可
}

```

(4) 配置 prod.com.config.js 文件

此文件是为打包 vite 配置文件。

```

import { defineConfig } from "vite";
import path from "path";
import baseConfig from "../../vite.config"; // 主要用于 alias 文件路径别名

export default defineConfig({
    ...baseConfig,
    esbuild: {
        pure: ["console.log"], // 删除 console.log
        drop: ["debugger"], // 删除 debugger
    },
    // 打包配置
    build: {
        input: "../../src/components/cme-application/GridRender-test/index.js", // 只打包 引入及其依赖
        outDir: "CME-GridRender-test", // 输出文件名称
        minify: "esbuild", // 指定使用哪种混淆器
        lib: {
            entry: path.resolve(
                __dirname,
                "../../src/components/cme-application/GridRender-test/index.js"
            ), // 指定组件编译入口文件
            name: "CME-GridRender-test", // 包名字
            fileName: "CME-GridRender-test", // 文件名字
        }, // 库编译模式配置
        rollupOptions: {
            // 确保外部化处理那些你不想打包进库的依赖
            external: [
                "vue",
                "element-plus",
            ]
        }
    }
})

```

```

    "ol",
    "CME3D",
    "CME2D",
    "axios",
    "Cesium",
  ],
  output: {
    // 在 UMD 构建模式下为这些外部化的依赖提供一个全局变量
    manualChunks: undefined,
    globals: {
      vue: "Vue",
      ol: "ol",
      CME3D: "CME3D",
      CME2D: "CME2D",
      axios: "axios",
      Cesium: "Cesium",
    },
  },
},
},
},
},
);

```

(5) 配置 deploy.js 文件此文件是为打包 vite 配置文件。

```

// 导入依赖
import fs from "fs";
import { execa } from "execa";

// 拷贝文件
function copyFiles() {
  try {
    // 拷贝文件
    fs.copyFileSync(
      "build/CME-GridRender-test/pac.json",
      "CME-GridRender-test/package.json"
    );
    console.log("pac 文件拷贝成功!");
  } catch (error) {
    console.error("pac 文件拷贝失败:", error.message);
  }
}

// 跳转到发布目录
function cdPublishDir() {
  process.chdir("CME-GridRender-test");
}

// 发布到 npm

```

```

function publishNpm() {
  return execa("npm", ["publish"], {
    env: {
      ...process.env,
      // npm_config_registry: "http://10.0.74.105:12302/repository/npm-release/", //内网地址
      npm_config_registry: "http://111.205.114.94:12302/repository/npm-release/", //外网地址
    },
  });
}

// 执行任务
async function run() {
  copyFiles();
  cdPublishDir();
  await publishNpm();
}

export default run().catch((err) => {
  console.error(err);
  process.exit(1);
});

```

(6) 配置打包命令 在 package.json 里面进行配置。

```

you, 1分钟前 | 3 authors (You and others)
{
  "name": "baseframe",
  "private": true,
  "version": "0.0.0",
  "type": "module",
  // 调试
  "scripts": {
    "dev": "vite",
    "build": "vite build",
    "preview": "vite preview",
    "build_CME-GridRender-test": "vite build --mode production --config ./build/CME-GridRender-test/prod.com.config.js && node ./build/CME-GridRender-test/deploy.js"
  },
  "dependencies": {
    "@element-plus/icons-vue": "^2.3.1",
    "@typescript-eslint/eslint-plugin": "^7.12.0",
    "CME-GridRender": "^0.1.2",
    "CME-GridRender-test": "^0.0.2",
    "CME-IsolineRender": "^0.1.9",
    "CME-SiteLayer": "^0.0.2",
    "CME2D": "^1.0.42",
    "axios": "^1.5.0",
    "echarts": "^5.5.0",
    "element-plus": "2.4.3",
    "execa": "^8.0.1",
    "fs": "^0.0.1-security",
    "geobuf": "^3.0.2",
    "less-loader": "11.1.3",
    "mitt": "3.0.1",
    "nouislider": "15.7.2",
    "path": "0.12.7",
    "pbf": "3.2.1",
    "pinia": "2.1.7",
    "prettier": "3.2.5",
  }
}

```

在 scripts 对象里面增加打包上传执行脚本命令。

```

"build_CME-GridRender-test": "vite build --mode production
--config ./build/CME-GridRender-test/prod.com.config.js && node ./build/CME-GridRender-test/deploy.js"

```

vite build: 这是 Vite 框架提供的命令行工具，用于将你的项目构建（打包）成可以在生产环境中部署的静态文件。构建过程通常包括代码压缩、资源优化、代码分割等，以提高加载速度和运行效率。

--mode production: 这个参数指定了构建模式为生产模式（production）。在

Vite 中，你可以通过`--mode` 参数来指定构建时使用的环境变量模式。生产模式通常意味着会启用更严格的代码压缩和优化。

`--config ./build/CME-GridRender-test/prod.com.config.js`: 这个参数指定了 Vite 构建时使用的配置文件路径，这意味着 Vite 将使用这个自定义的配置文件来构建你的项目。

`node ./build/CME-GridRender-test/deploy.js`: 这个命令使用 Node.js 来执行一个名为 `deploy.js` 的脚本文件，这个脚本的具体作用是发布打包好的文件。

(7) 执行打包命令

执行配置好的命令 `npm run build_CME-GridRender-test`。

```
> baseframe@0.0.0 build_CME-GridRender-test
> vite build --mode production --config ./build/CME-GridRender-test/prod.com.config.js && node ./build/CME-GridRender-test/deploy.js

vite v5.2.6 building for production...
✓ 794 modules transformed.

CME-GridRender-test/CME-GridRender-test.js      0.07 kB | gzip: 0.09 kB
CME-GridRender-test/raw-CcdGkjn8q.js            0.14 kB | gzip: 0.14 kB
CME-GridRender-test/deflate-Be2Arps5.js          0.21 kB | gzip: 0.18 kB
CME-GridRender-test/packbits-DaUD6MLm.js         0.55 kB | gzip: 0.31 kB
CME-GridRender-test/webimage-D2c098k3.js          0.81 kB | gzip: 0.42 kB
CME-GridRender-test/basedecoder-Qm25PwVp.js       2.07 kB | gzip: 0.82 kB
CME-GridRender-test/lzw-B0VmEDy.js               2.68 kB | gzip: 0.94 kB
CME-GridRender-test/jpeg-DWfUpLwy.js             15.23 kB | gzip: 4.54 kB
CME-GridRender-test/lenc-CRL0gJIn.js              47.22 kB | gzip: 11.44 kB
CME-GridRender-test/pako.esm-C3kYPGGQ.js          71.06 kB | gzip: 17.85 kB
CME-GridRender-test/decoder-UiB3jIRh.js           75.32 kB | gzip: 25.15 kB
CME-GridRender-test/index-CneBmKId.js            330.41 kB | gzip: 89.70 kB
CME-GridRender-test/CME-GridRender-test.umd.cjs    400.67 kB | gzip: 129.02 kB
✓ built in 12.80s
pac文件拷贝成功!
* 终端将被任务重用，按任意键关闭。
```

执行成功，组件上传完毕。

9.2.非地图类

9.2.1. 创建组件

(1) 新建文件夹，存放组件整体。

路径： `src/components/cme-application/`

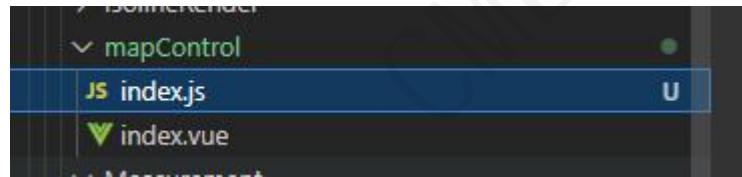
(2) 创建该组件的主体文件，以 `index.vue` 文件为例。

路径： `src/components/cme-application/mapControl/index.vue`

(3) 创建该组件的抛出文件，以 `index.js` 文件为例。

路径：

`src/components/cme-application/mapControl/index.js`



9.2.2. 构建代码

(1) 在内部构建 vue 组件代码，例如构建一个图层控制弹框组件：

```
rc > components > cme-application > mapControl > index.vue - Official > {} template > div.handler-pop > div.Edit_Tool > div.Tool
You, 3个月前 | 1 author (You)
1  <template>
2    <!-- 底图操作弹框 -->
3    <div class="handler-pop" v-if="props.showPop">
4      <!-- 头部 -->
5      <div class="setting_header">
6        <span class="text">地图控制 </span>
7        <svg-icon @click="operation" color="#000" class="gaunbi" name="right-layer-setting-close" width="20px"
8          height="20px" style="cursor: pointer;">
9          </svg-icon>
10     </div>
11     <div class="Edit_Tool">
12       <div class="Tool">
13         <div class="Tool_top">
14           <span>底图切换</span>
15         </div>
16         <div class="Tool_content1">
17           <div class="radio-group">
18             <el-select v-model="mapurl" placeholder="Select" style="width: 100%" @change="switchMap">
19               <el-option v-for="item in mapdatas" :key="item.url" :label="item.name" :value="item.url" />
20             </el-select>
21           </div>
22         </div>
23       </div>
24       <div class="Tool"> You, 3个月前 * 增加分屏功能
25         <div class="Tool_top">
26           <span>切换投影</span>
27         </div>
28         <div class="Tool_content1">
29           <div class="radio-group">
30             <el-select v-model="mapProjectionData" placeholder="Select" style="width: 100%" @change="switchProjection">
31               <el-option v-for="item in mapProjection" :key="item.url" :label="item.name"
32                 :value="item.value" />
33             </el-select>
34           </div>
35         </div>
36       </div>
37       <div class="Tool">
38         <div class="Tool_top">
39           <span>地图分屏</span>
40         </div>
41       </div>

```

(2) 在内部构建 index.js 抛出代码，例如：

```
import MapControl from "./index.vue"; // 引入 vue 主文件
// 图层控制组件

MapControl.install = function (Vue) {
  // 第一个参数就是引入组件中的 name 属性，所以每个组件都需要 name
  // 第二个参数为抛出 vue 实例
  Vue.component("MapControl", MapControl);
};

// 抛出实例
export { MapControl };
```

9.2.3. 测试组件

(1) 测试在 main.js 引入组件使用 use 挂载组件。

```
import { MapControl } from "./components/cme-application/mapControl/index.js";
const store = createPinia(); //pinia实例
export const app = createApp(App);
for (const [key, component] of Object.entries(ElementPlusIconsVue)) {
    app.component(key, component);
}
app.use(MapControl);
```

(2) 调用封装组件的 name 名称放置到 vue 里进行标签引入。

```
<template>
    <div class="time-axis-page">
        <MapControl:drawers="false"></MapControl>
    </div>
</template>
```

9.2.4. 打包上传

(1) 打包上传可以参照地图类组件打包上传一样的使用方式，有一点不同非地图类打包，引入的是组件的 index.js 抛出的实例文件，地图类引入的是组件本体 js 文件。

```
/* @Description: CME-WindyBarb组件打包配置 */
import { defineConfig } from "vite";
import vue from "@vitejs/plugin-vue";
import path from "path";
import baseConfig from "../../vite.config"; // 主要用于alias文件路径别名

export default defineConfig({
    ...baseConfig,
    esbuild: {
        pure: ["console.log"], // 删除 console.log
        drop: ["debugger"], // 删除 debugger
    },
    // 打包配置
    build: {
        input: "../../src/components/cme-application/MeteoMap/index.js", // 只打包 引入及其依赖
        outDir: "CME-MeteoMap", //输出文件名
        // minify: "esbuild", // 指定使用哪种混淆器
        minify: false, // 关闭代码压缩
        sourcemap: true, // 生成源代码映射文件
        lib: {
            entry: path.resolve(
                __dirname,
                "../../src/components/cme-application/MeteoMap/index.js"
            ), //指定组件编译入口文件
            name: "CME-MeteoMap",
            fileName: "CME-MeteoMap",
        }, //库编译模式配置
        rollupOptions: {
            // 确保外部化处理那些你不想打包进库的依赖
            external: [
                "vue",
                "element-plus",
                "ol",
                "CME3D",
                "CME2DCore"
            ]
        }
    }
});
```

第十章 业务算法开发

算法应尽可能通过优化数据结构和算法逻辑，提高算法执行效率，减少时间和空间使用，以保证算法开发运行及维护的统一高效。考虑算法的时间复杂度和空间复杂度，使用尽量选择高效的算法；避免不必要的重复计算或循环，尽量优化代码逻辑；如果可能，考虑并行化或并发执行来提高算法的效率。

10.1. 数据结构及服务接口

业务算法开发除使用数字基座中标准格式数据外，还可以使用数字网格等业务算法定义的 MICAPS5 业务算法标准数据格式，具体定义如下：

10.1.1. 站点数据结构

站点统一数据格式 STDA 底层为特定格式 pandas.DataFrame 数据结构，支持 pandas 和 Pystark 等 API。STA 数据包括 6 维维度信息(高度、时间、预报时效、站点、经度、纬度)以及若干数据列，同时包括 6 个基础数据属性(数据单位、要素名、预报时效单位、时间时区、高度类型及要素起止时间)。

坐标信息部分										数据部分	
层次	level	起报时间	预报时效	站号	经度	纬度				ECMWF	CMA-GFS
							time	dtime	id	lon	lat
0	0	2019-01-01 08:00:00	24	54512	101.1	31.0			74	74	
1	0	2019-01-01 20:00:00	12	54513	102.0	32.0			85	85	
2	850	2019-01-01 08:00:00	12	54511	100.0	30.0			56	56	
3	850	2019-01-01 20:00:00	24	54514	103.0	33.0			64	64	

□ 主要属性：

dtimes_units: 预报时效单位小时或分钟 (默认hour; minute)

units: 数据单位(默认None)

time_type: 时区类型(默认UT; BT)

time_bounds: 要素时间起止(默认[0,0]即瞬时量, 24h降水为[-24,0])

model_var: 模式及要素信息, 默认为None

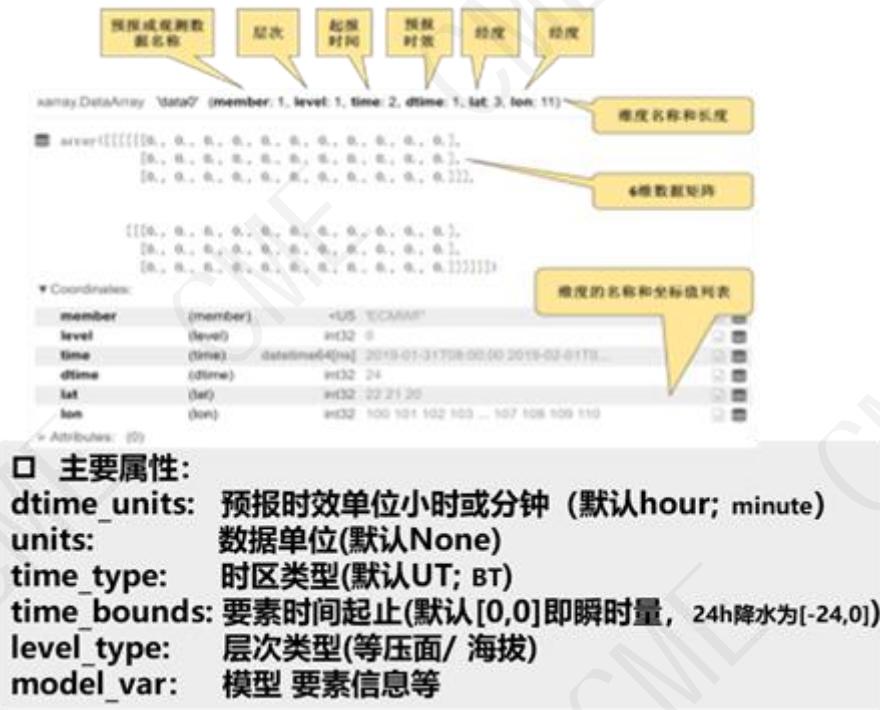
Level_type: 高度信息类型, 默认为等压面

```
1.      +-----+-----+
2.      | Name          | Datatype   |
3.      +=====+=====+
4.      | level        | np.float32 |
5.      +-----+-----+
6.      | time         | np.datetime64[ns] |
7.      +-----+-----+
8.      | dtime        | np.int32    |
9.      +-----+-----+
10.     | id           | np.int32    |
11.     +-----+-----+
12.     | lon          | np.float32 |
13.     +-----+-----+
14.     | lat          | np.float32 |
15.     +-----+-----+
16.     | data0        | np.float32 |
17.     +-----+-----+
18.     | [data1.....] | np.float32 |
19.     +-----+-----+
```

图 10.1 站点统一数据格式 STDA 示例，包含具体维度、属性及各维度数据类型

10.1.2.网格数据结构

网格统一数据 GRD 格式底层为特定格式 `Xarray.DataArray` 数据结构，支持 `netcdf4` 和 `xarray` 等 API。GRD 数据包括 6 维维度信息(高度、时间、预报时效、成员、经度、纬度)以及若干数据场,同时包括 6 个基础数据属性(数据单位、要素名、预报时效单位、时间时区、高度类型及要素起止时间)



1.	+-----+-----+	+-----+-----+
2.	Name	Datatype
3.	+=====+=====+=====+=====+	+=====+=====+=====+=====+
4.	member	np.float32
5.	+-----+-----+	+-----+-----+
6.	level	np.float32
7.	+-----+-----+	+-----+-----+
8.	time	np.datetime64[ns]
9.	+-----+-----+	+-----+-----+
10.	dtimes	np.int32
11.	+-----+-----+	+-----+-----+
12.	lat	np.float64
13.	+-----+-----+	+-----+-----+
14.	lon	np.float64
15.	+-----+-----+	+-----+-----+
16.	data0	np.float32
17.	+-----+-----+	+-----+-----+

图 10.2 网格统一数据格式 GRD 示例

10.1.3. 其他气象数据结构

- **卫星数据**：包含卫星 ID、位置、观测类型（如红外、可见光等）、时间戳、高度等。

- **雷达数据**：包括事件 ID、类型（如台风、暴雨）、位置、时间范围、影响区域等。

- **线条数据**：包括事件 ID、类型（如台风、暴雨）、位置、时间范围、影响区域等。

10.1.4. 数据服务接口

为打通流程内、模块间、从预报到诊断到检验的一体化数据服务，开发了业务算法标准格式数据接口库，实现业务算法标准数据格式的读写及计算等各项功能。

业务算法标准格式数据接口库特点包括：稳定高效的内核，适用于后处理算法场景；合理数据坐标及属性，提升可读性；全面的读写接口，多源数据访问；高效的插值、堆叠、转换等功能函数及高效的压缩存储能力等。

用户可通过接口完成业务算法标准格式数据的创建/读写/修改/计算及保存等常规操作。

业务算法标准格式数据接口库 meteva_base 安装代码如下

```
pip install meteva_base
```

项目代码库地址：https://github.com/guoyunqian/meteva_base

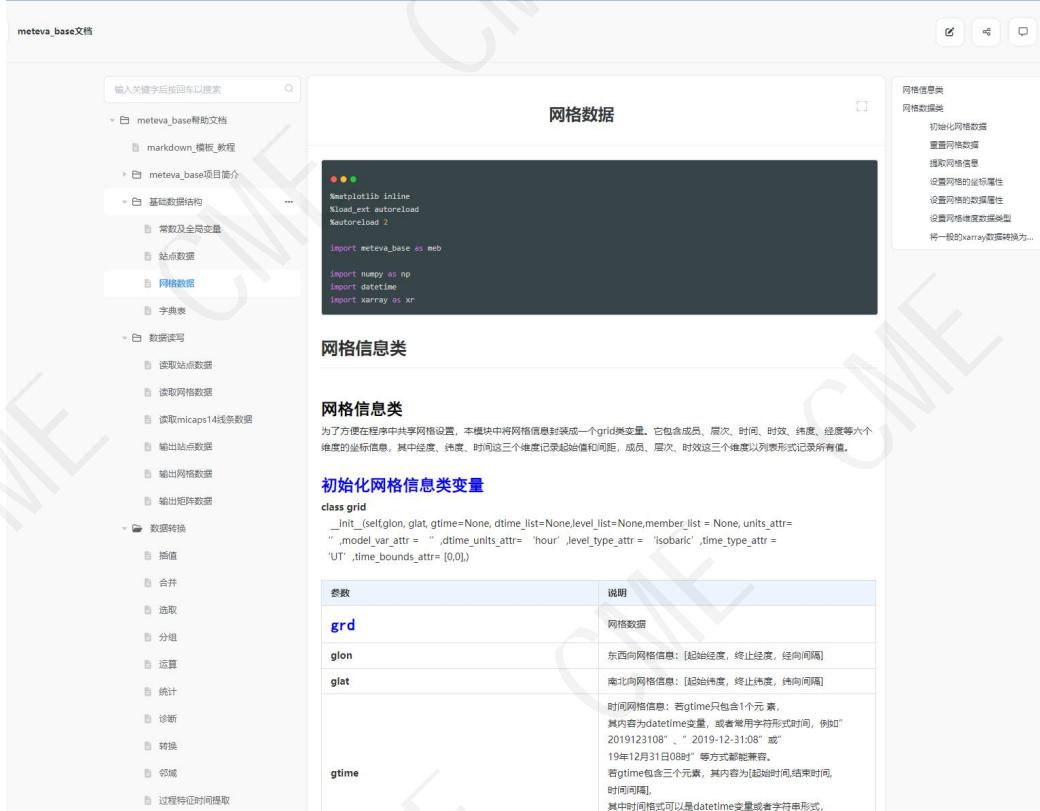


图 10.2 统一基础数据指南(showdoc)

该数据接口库功能包括基础数据结构、数据 IO 读写、数据转换以及其他工具类函数等四大类。

基础数据信息及接口指南：<https://www.showdoc.com.cn/metevabase/>

(1) 基础数据结构包含站点、网格基础数据的细节及初始化，维度及属性设置等功能，共计 30 个函数；

(2) 数据 IO 读写包括从 micaps、nc、雷达卫星、天擎、分布式 GDS、文本等常见来源的数据到统一基础数据结构间的 IO 读写功能，共计约 120 个函数

(3) 数据转换包括网格站点插值、合并、选取、分组、统计及诊断等多种常用气象处理方法，共计约 250 个函数

其他工具中包括文件路径处理、时间处理、grib 处理、可视化及颜色处理等常用功能，共计约 200 个函数

10.2.分类

10.2.1 业务算法分类

业务算法主要是数字网格预报算法，指常用的常用诊断分析、统计后处理及主客观融合等数字预报函数库模块，提供基础的数字预报功能支持。大致分为以下 11 类。

(1) 数据 IO

对多源数据读写的支撑，包含一些函数，用于将多源输入数据和输出结果与统一网格预报数据格式的转换。

(2) 诊断算法

用于从原始数据中诊断新的气象要素变量。如天气现象、cobb 融化比等。

(3) 观测处理算法

提供多源观测数据(站点、探空、雷达、卫星等)质控及其他相关处理的算法。

(4) 降尺度算法

提供将时空粗分辨率的数据降尺度到更精细的分辨率功能。

(5) 临近算法

提供基于实况数据的临近(0-3h)预报算法。

(6) 偏差订正算法

提供单一模式的校准模型，消除系统偏差，使其更接近真实观测值。

(7) 多源融合及概率算法

将多个模型/多时效的输出进行自适应融合，以提高预报的准确性。

(8) 灾害及极端预报算法

包括极端事件(极端强降水、再现期)及客观灾害事件(高温、寒潮、地质水文等)预报算法。

(9) 主客观融合及协调算法

提供主观预报/灾害预报预警与客观预报融合，以及多气象要素间、站点格点预报间相互协调的算法。

(10) 检验算法

与多源预报相关的产品检验算法，包括站点、格点及目标检验等。

(11) 辅助算法

包含一些辅助函数或数据，用于支持其他模块的运行，如地形掩码、地理信息计算、数据复制或裁剪等。

为统一管理符合规范的算法插件(Plugins),按照算法种类,给算法类规定统一的前缀名，具体对应如下：

算法种类	算法前缀
数据 I/O	<i>IO_</i> , <i>in/output module</i>
诊断算法	<i>Der_</i> , <i>derive variabes module</i>
降尺度算法	<i>Dsc_</i> , <i>space/time downscale module</i>
观测处理算法	<i>Obs_</i> , <i>Observation adjustment module</i>
临近算法	<i>Now_</i> , <i>nowforecasting module</i>
偏差订正算法	<i>Cal_</i> , <i>single-models calibration modules</i>
多源融合及概率算法	<i>Mul_</i> , <i>multi-models and probability calibration modules</i>
灾害及极端预报算法	<i>Ext_</i> , <i>extreme event module</i>
主客观融合及协调算法	<i>Mer_</i> , <i>Merge and Consistense module</i>
检验算法	<i>Ver_</i> , <i>Verification module</i>

辅助算法

Anc_, ancillaries module

例如：

基于多源融合的短中期降水预报：Mul_MaitPrecipitation24H()

基于地形的降水降尺度：Dsc_PrecipitationDownScaleByTopo()等。

10.2.2 算法包分类

为统一业务逻辑，提高开发效率，降低验收应用门槛，同时加强算法复用性，建议将相关的算法插件(PLUGINS)及其他基础/工具函数打包为一个独立的算法包(Package)，用于最后成果共享应用。

工程项目开发的算法成果，验收前原则上需要以算法包的形式，上传至气象中心算法库中。上传算法库需开源，并带运行或编译环境说明。原则上，算法库在气象中心内部公开共享，但由管理团队对算法库读写、修改权限进行统一控制。

算法包应包含：经过测试和优化的算法插件(Plugins)；简洁的 API 调用接口；详细的文档和示例代码。算法包内具体内容及目录结构需按规范要求。

上传算法包时，需同时提供算法包内所有算法插件的功能简介，模板如下表

算法插件	功能(尽量详细)	路径
<i>IO_ReadNcFromCmadaas</i>	从天擎读取 NC 文件，返回标准网格数据	/src/read/readgrid.py
<i>Cal_SoilTemperMax24h</i>	基于模式及 站点实况，生成订正后的土壤日最高温	/src/cal/calsoiltemp.py
.....		

算法包上传后，审核组成员会审查代码及命名、文档的合规性(详见算法规范)，如不合规提出修改建议。通过代码审核后，算法包正式入中心算法库。

为支持算法包的统一管理及复用，按算法主要功能将算法包分为以下 6 类。在算法包上传前，需按照类型进行统一的命名调整。具体如下：

（1）数据 IO 及预处理

包括对多源数据读写、解码、转换计算的支撑；多源观测数据(卫星、雷达等)的质控、拼接等预处理等算法包。

（2）诊断

包括多种诊断量计算及相应可视化等算法包。

（3）统计后处理

包括多基于模式的统计后处理订正及气象要素确定性/概率客观订正算法(单模式)。

（4）多源融合及一致调整

包括多源、多时效融合，站点网格融合，主客观融合，多要素一致性等算法包。

（5）灾害及极端

包括极端事件(极端强降水、再现期)及灾害事件(高温、寒潮、地质水文等)的客观预报预警等算法包。

（6）检验

与多源预报相关的产品检验算法包。

算法包种类	算法包前缀
数据 IO 及预处理	<i>MetIO_</i>
诊断	<i>MetDig_</i>
统计后处理	<i>MetCal_</i>
多源融合及一致 调整	<i>MetBlend_</i>
灾害及极端	<i>MetExt_</i>
检验	<i>MetEva_</i>

例如：

雷达数据预处理及诊断包： *MetDig_Radar*、

多源融合降水预报：*MetBlend_Precipitation* 等

10.3. 版本管理

算法版本使用语义版本控制（Semantic Versioning），如‘1.0.0’。版本号格式为主版本号.次版本号.修订号，其中：

- (1) 主版本号：有重大变更，可能不兼容的更新。
- (2) 次版本号：新增功能，兼容性良好的更新。
- (3) 修订号：小的修复和改进，完全兼容的更新。

算法库版本更新，应附带详细的更新记录，包括算法更改，效果评估，贡献人等信息。

10.4. 算法插件命名

算法应使用有意义且简洁的名称，便于理解和记忆。

代码中的函数 function 及类(插件)class 等的命名，应严格依照 Python 编码规范(PEP8 等)。

模块应尽量使用小写命名，首字母保持小写，尽量不要用下划线(除非多个单词，且数量不多的情况)。

正确的模块名

```
1. import decoder
2. import html_parser
```

不推荐的模块名

```
1. import Decoder
```

类名应使用驼峰(CamelCase)命名风格，首字母大写，私有类可用一个下划线开头。

```
1. class AnimalFarm(Farm):
2.     pass
3. class _PrivateFarm(Farm):
4.     pass
```

可以将相关的类和函数放在同一个模块里，不像 JAVA，没必要限制一个类

一个模块。

函数名一律小写，如有多个单词，用下划线隔开；

```
1. def run():
2.     pass
3.
4. def run_with_env():
5.     pass
```

私有函数在函数前加一个下划线_；

```
1. def _private_func():
2.     pass
```

变量名尽量小写，如有多个单词，用下划线隔开；

常量采用全大写，如有多个单词，使用下划线隔开；

全局变量，一般认为凡是全局的，都是常量，应该始终使用全大写。

```
1. GLOBAL_PUBLIC = "G1"
2. _GLOBAL_PRIVATE = "G2"
3.
4. class Person:
5.     _GLOBAL_IN_CLASS = 'G3'
```

10.5. 算法代码编写规范

10.5.1. 代码编写规范

遵循 PEP 8 代码风格，确保代码规范和一致。具体 PEP8 风格请查看
<https://blog.csdn.net/ratsniper/article/details/78954852>.

在 vscode 或 pycharm 等现代 IDE 界面化编程工具中，推荐使用 Flake8 等工具进行 Python 代码规范检查。

安装 VS Code 扩展： 在 VS Code 中，打开扩展面板（Ctrl+Shift+X 或 Cmd+Shift+X），搜索并安装以下扩展：

- **Python:** 微软官方的 Python 扩展，提供基本 Python 支持。

- **Flake8:** 用于集成 Flake8 的扩展，提供代码检查功能。
- **PyLint:** 用于集成 Pylint 的扩展，提供更深入的代码分析功能。

使用 Flake8 检查代码

- **手动检查：** 右键单击您的代码文件，选择 "Run Linting" 即可运行 Flake8 检查。
- **自动检查：** VS Code 会在您保存代码文件时自动运行 Flake8 检查，并会在代码编辑器中显示错误和警告。

10.5.2. 算法开发者建议

最小单位进行函数（基础函数）方法编写，目标功能应当单一；减少基础函数中逻辑分支，使更容易通过代码测试，并且更容易维护。

在插件等模块中，尽量只以简单的处理方法调用为主，最好只调用插件中其他方法；同时，针对需求更好地定义最简单插件。

如果一项功能可以做成函数 api 时，就不要做成其他(比如类等)。

利用内联注释等功能，加强代码可读性。比如在做复杂数组或多维数据集操作时，需要考虑对非专业开发人员的可读性。

确保函数和类经过了单元准确性测试，并在函数和方法接口上使用类型注释 (type annotations)。

本应该是函数的东西就要写成函数，而不是类(即基本功能尽量以函数形式，如果合适在插件 plugins 层级再使用类)

模块化代码编写，当有很多相关代码(如总计>5000 行)时，可以考虑制作作为模块，为后续扩展提供便利。另外，当功能需要不止一个函数来完成时，可以类和方法的方式进行插件式搭建处理。

注意使用简单数据结构，如推荐使用 32 位浮点数(非 64 位)

10.5.3. 注释

使用 docstring 进行注释，详细说明函数和类的作用及使用方法。以下是一些简单的

块注释 “#”号后空一格，段落件用空行分开（同样需要“#”号）

行注释 至少使用两个空格和语句分开，注意不要使用无意义的注释。

建议：

- 在代码的关键部分(或比较复杂的地方), 能写注释的要尽量写注释
- 比较重要的注释段, 使用多个等号隔开, 可以更加醒目, 突出重要性

文档注释（Docstring） 作为文档的 Docstring 一般出现在模块头部、函数和类的头部, 这样在 python 中可以通过对象的`_doc_`对象获取文档. 编辑器和 IDE 也可以根据 Docstring 给出自动提示. 文档注释以 "''' 开头和结尾, 首行不换行, 如有多行, 末行必需换行, 以下是 Google 的 docstring 风格示例

不要在文档注释复制函数定义原型, 而是具体描述其具体内容, 解释具体参数和返回值等

文档注释不限于中英文, 但不要中英文混用

文档注释不是越长越好, 通常一两句话能把情况说清楚即可

模块、公有类、公有方法, 能写文档注释的, 应该尽量写文档注释

10.5.4. 强化私有 private 概念

算法应采用最小知识原则, 对外暴露的东西越少越好。即编写中：

- 实例属性, 一般定义成 `private` 的
- `class` 类中, 对外提供的方法越少越好
- `module`, 对外提供的接口越少越好
- `package`, 对外提供的 `module` 越少越好

翻译成代码如下：

1. 项目布局

```
1.package/
2.    __init__.py
3.    _private_mod.py
4.    public_mod.py
```

2. 某模块内容

```
1. public_mod.py
```

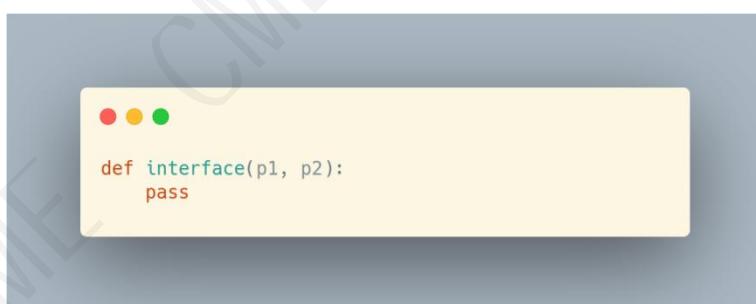
```
2. PUBLIC_GLOBAL = 'G1'  
3. PRIVATE_GLOBAL = 'G2'  
4. class _Class:  
5.     pass  
6. class PublicClass:  
7.     _PRIVATE_GLOBAL = 'G3'  
8.  
9.     def __init__(self, name, age):  
10.        self._name = name  
11.        self._age = age  
12.    def public_method(self):  
13.        pass  
14.    def _private(self):  
15.        pass
```

最后，也要注意关注公开接口的复杂性，最好提供用户意义清晰的，尽量少的必选参数。如下：

最好的接口是这样的，调用者可以简单上手应用



次等接口是这样的



最大忍受限度的接口是这样的



不可接受的接口是这样的



**kwargs 等字典类参数应尽量少地使用，某些流行库有这样的问题，极大地增加了调用者的心理负担，反映了接口设计者的懒惰。

10.5.5.工具函数及接口

开发过程中，可能会写一些帮助(工具)函数和方法，这些方法存放位置应遵循下面原则：

- 情况 1：在多个模块中使用的函数。在这种情况下，函数应该位于一个共享位置，例如 utilities.py。
- 情况 2：在一个模块中由多个类使用的函数。该函数应该位于任何一个类之外，但在模块内部。
- 情况 3：仅在单个类中使用的函数。应该将其保留在类内部；如果该函数不使用 self，则可以作为静态方法(@staticmethod)。

10.5.6.日志及运维

Python 提供了内置的 logging 模块，可以用于记录日志信息。通过在代码中

添加适当的日志语句，可以记录算法的运行状态、输入参数、输出结果等关键信息。可以设置不同的日志级别（如 DEBUG、INFO、WARNING、ERROR 等）来控制日志的详细程度；

算法中使用 try-except 语句捕获异常，并将异常信息记录到日志中。这样可以及时发现和处理潜在的错误和异常情况；

使用性能监控工具来测量算法的执行时间、内存占用等指标。Python 提供了 time 模块和 sys 模块，可以用于测量代码的执行时间和内存占用情况。还可以使用第三方库如 psutil、memory_profiler 等来更详细地监控算法的性能；

使用可视化工具来展示算法的执行过程和结果。可以使用 matplotlib、seaborn 等库来绘制图表，展示算法的数据流、变化趋势等信息

合理应用上述技术可帮助开发者及时发现问题和异常，优化算法的性能，并提供可靠的日志信息用于调试和分析。

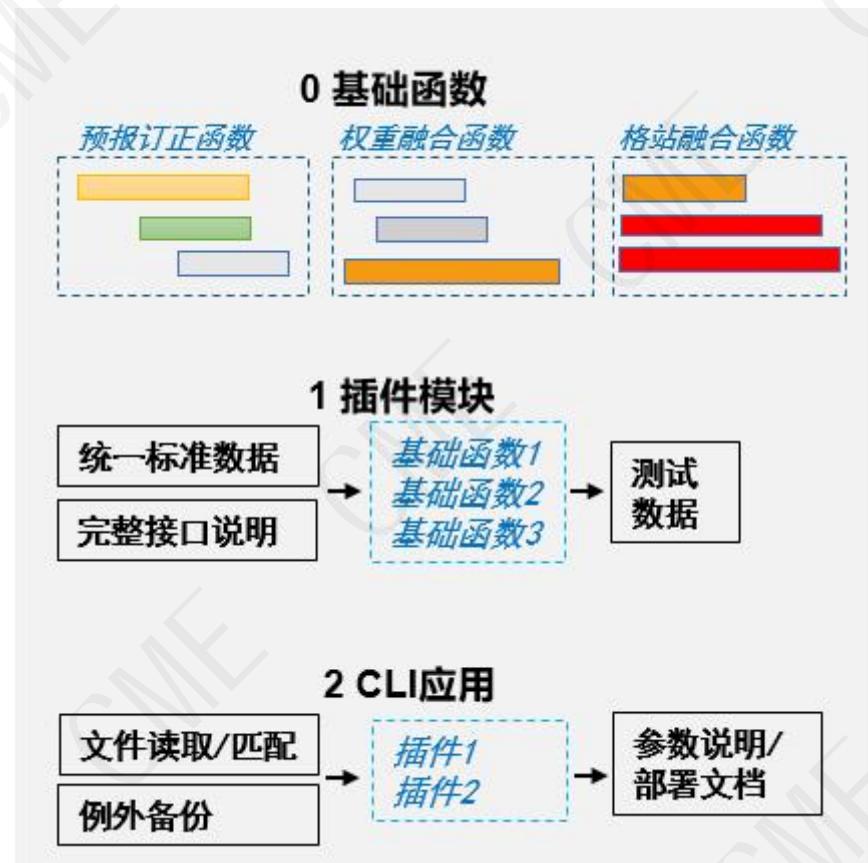
10.5.7. 算法包通用文件目录结构

为了提高代码可读性和维护性，算法包开发需遵循以下文件和目录结构：

- (1) src/ 目录存放源代码，小写字母和下划线命名源代码文件。
- (2) test/ 目录存放测试用例文件，以 test_ 开头的同名代码。
- (3) docs/ 目录存放算法相关文档，用描述性命名相关描述文件(如 sorting_algorithm.pdf 等),确保文档内容清晰。
- (4) resource/ 目录存放算法所需的资源文件(地形、站点表等)。
- (5) utils/ 目录存放公共工具函数。
- (6) cli/ 目录存放基于相关算法构建的 CLI 应用，不同功能(见第七章)的 CLI 采用不同前缀进行区分。
- (7) nbs/ 目录存放 notebook 算法示例代码。
- (8) env/ 目录存放算法包运行时所依赖环境包，推荐使用 pip(requirements.txt)或 conda(environment.yml)的自动部署工具。部署表中应标明执行不同任务时必装和选装的环境。
- (9) license 算法包对应的 License 项目授权。
- (10) setup.py pip 安装算法包的对应安装配置列表。

10.6. 算法的模块化设计

模块化设计是 python 算法设计的基本要求，通过将代码分解为更小型的、有明确功能和目标的模块，可以促进代码重复利用、提升可读性、可维护性、灵活性及可扩展性。在一体化算法的构建中，我们推荐采取 内部函数->功能函数/工具函数->插件式(Plugins)模块的分级架构，达到统一模块结构、更高效、可扩展可维护性更强的、更方便复用和部署的目的。



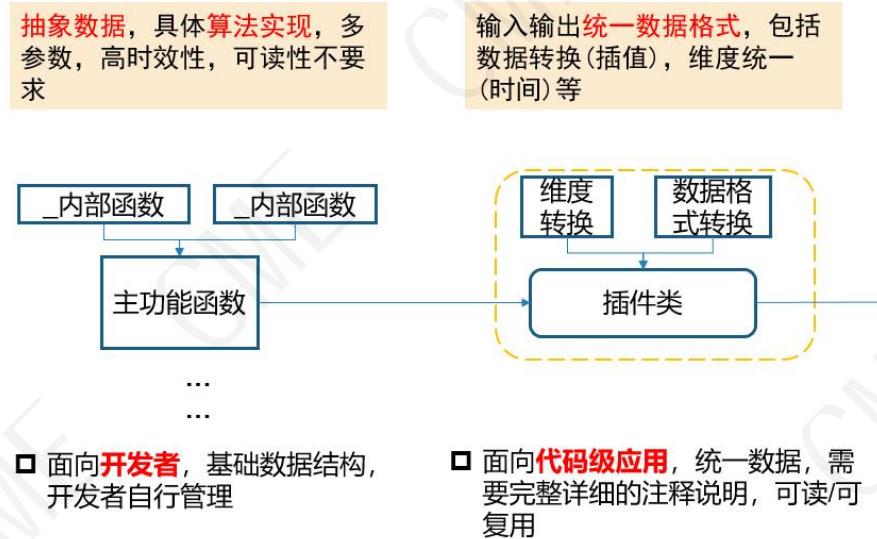


图 10.4 算法模块化设计示意图

上图所示为三种基本模块化结构(内部函数、功能函数/工具函数、插件式功能)及模块间关系，下面将对每种结构的输入输出、功能划分及编写规范进行具体说明。

10.6.1. 内部函数/基础函数

完成某个特定目标的计算，或者进行单一功能的数据处理等功能，可以用基础函数的方式进行模块化。基础函数编写过程也应该遵循 PEP8 的规范。

一般来说，基础函数应只对应一个目标，不同目标应在不同基础函数中完成；其输入输出应为最基础的 python 数据结构，如列表、集合、numpy 数组等，尽量不依赖更高级的数据结构，如 pandas, xarray 等；

如果基础函数只在一个模块中进行引用，推荐使用形如 `_func()` 的内部函数命名方法，这样可以避免函数被其他模块引用可能导致的混乱或错误，另外也可以最小化模块功能的暴露。

10.6.2. 主功能函数/工具函数

功能函数一般是一个完整的、单一目标的气象类算法的实现，基于若干基础/内部函数的组合及调度。如频率匹配算法、卡尔曼滤波订正、格站融合算法等。

功能函数是后续更复杂的插件类模块及 CLI 应用组件的基础支撑。

一般来说，功能函数对应一个具体的气象类目标，如坐标转换、插值、降尺度订正、诊断等；为提升功能函数的复用性，其输入输出应为最基础的 python 数据结构，如列表、集合、numpy 数组等，尽量不依赖更高级的数据结构，如 pandas，xarray 等。另外，功能函数应有一些必要的注释及文档说明，简要介绍函数功能、输入参数及作用、函数返回等，为开发者和其他用户提供必要的说明。

部分功能函数如果在插件类模块中的多个位置、或多个模块中进行了引入复用，建议将其作为工具函数进行管理。工具函数的保存位置，根据其作用范围进行如下设定：

情况 1：在多个模块中使用的函数。在这种情况下，函数应该位于一个共享位置，例如 utilities.py。

情况 2：在一个模块中由多个类使用的函数。该函数应该位于任何一个类之外，但在模块内部。

情况 3：仅在单个类中使用的函数。应该将其保留在类内部；如果该函数不使用 self，则可以作为静态方法。

10.6.3. 插件类 Plugin

结合若干相关的主功能函数及工具函数，共同完成某个独立任务(如空间降尺度、多源融合、概率订正等)，同时调整输入输出为统一的标准数据(第 1 节)，这样的模块即为一个独立的**插件类 Plugin**。可以看到，插件类面向的是算法中功能复用的场景，因此需要统一输入输出数据(网格/站点/线条)，要有完整详细的接口注释说明，让用户可以清晰了解功能并进行复用。

在代码层面，插件类 Plugin 应该是一个用于特定目的复杂算法或算法集，通常以类(class)方式提供使用；插件(类)应通过 __init__() 方法进行初始参数的设置，并使用 process() 方法进行调用；同时，要求输入和输出数据必须为通用基础数据(第 1 节)。例如使用：

```
1. code:: python
2.
3. Abc = ABC(para1=1, para2=2) #实例化插件类
```

4. Abc. process(griddata, stadata) #插件类主功能调用

请参阅例如 BasicThreshold 类 <https://github.com/metoppv/improver/blob/master/lib/improver/threshold.py>。

类名使用诸如 **PascalCase** (驼峰结构)写法<<https://en.wikipedia.org/wiki/PascalCase>>，而不使用_连词。

插件类中的变量名和函数名使用 诸如 **snake_case**(小写/连词符_)写法

<https://en.wikipedia.org/wiki/Snake_case>。

插件类不强制需要`__repr__()`或`__str__()`方法，上述方法可以定义 print(插件类)时的输出，但在有必要时，可以在现有代码中加入这些内部方法。

以下是一个插件类模块的定义及内部结构示例：

```

1. """module for MyPlugin."""
2. import warnings
3. from iris.cube import Cube
4. class MyPlugin(object):
5. """
6. Title sentence to describe purpose of MyPlugin.
7. Further description to help create a meaningful docstring.
8. """
9. # Simple variables can be passed into the init method.
10.
11. def init(self, simple_variable: float) -> None:
12. """Description of what's done in init.
13. e.g. set up processing for MyPlugin.
14. Args:
15. simple_variable:
16. A simple variable to demonstrate how a variable is passed to
17. the init method.
18. """
19. self.simple_variable = simple_variable
20.
21. @staticmethod
22. def my_static_method(cube: Cube, multiplier: int = 2) -> Cube:
23. """Description of what my_static_method is trying to do.
24. Args:
25. cube:
26. An example cube for processing by my_static_method.
27. multiplier:
28. An argument with a default value.
29. Returns:

```

```
30. Output cube after manipulation.

31. """
32. new_cube = cube * multiplier
33. return new_cube
34.
35. @staticmethod
36. def my_static_method_multiple_returns(cube: Cube) -> Tuple[float, float]:
37.     """Description of what my_static_method_multiple_returns
38.     is trying to do.
39. Args:
40. cube:
41. An example cube for processing.
42. Returns:
43. - The max value of the cube data.
44. - The min value of the cube data.
45. """
46. max_value = cube.data.max()
47. min_value = cube.data.min()
48. return max_value, min_value
49.
50. def _my_private_method(cube: Cube) -> str:
51.     """Description of what _my_private_method is trying to do.
52. As this is a private method, taking only an argument already
53. defined in the doc-string of the calling method, we do not
54. need to define the input argument again.
55. Returns:
56. The name of the diagnostic within the cube.
57. """
58. return cube.name()
59.
60. def my_method(self, multiplier: float) -> float:
61.     """Description of what my_method is trying to do.
62. This method uses the instance of the class, and therefore
63. shouldn't be a static method.
64. Args:
65. multiplier:
66. A multiplier.
67. Returns:
68. The multiplied value.
69. Raises:
70. ValueError: If the value exceeds the allowed
71. upper limit of 100.
72. ValueError: If the value is below or equal to
73. zero.
```

```

74. Warns:
75. Warning: If the value is outside of the
76. expected range (> 0 and <= 50).
77. References:
78. Bauer, P., Thorpe, A., Brunet, G. (2015) The quiet
79. revolution of numerical weather prediction.
80. Nature, Vol 525, pp 47-55
81. """
82. updated_simple_variable = (self.simple_variable * 2) / 3
83. if updated_simple_variable > 100:
84.     msg = (
85.         "An updated simple variable of {} exceeds "
86.         "the allowable upper limit of 100.".format(updated_simple_variable)
87.     )
88.     raise ValueError(msg)
89. elif updated_simple_variable > 50:
90.     msg = (
91.         "The updated simple variable of {} "
92.         "is higher than expected. "
93.         "Expected range is > 0 and <= 50.".format(updated_simple_variable)
94.     )
95.     raise warnings.warn(msg)
96. elif updated_simple_variable <= 0:
97.     msg = (
98.         "An updated simple variable of {} is "
99.         "below the allowable lower limit of 0.".format(updated_simple_variable)
100.)
101. raise ValueError(msg)
102. return updated_simple_variable
103.
104.
105. def process(self, cube: Cube) -> Cube:
106.     """Description for what's done in the process method.
107. Args:
108.     cube:
109. An example cube for processing.
110. Returns:
111. Output cube after multiplying the input cube by the
112. simple variable.
113. """
114. # Inline comments can be added, if required.
115. cube = self.my_static_method(cube)
116. (max_val, min_val) = self.my_static_method_multiple_returns(cube)
117. new_cube = cube

```

```

118.if min_val > 0.0 and max_val < 100.0:
119.new_simple_variable = self.my_method()
120.new_cube = cube * new_simple_variable
121. return new_cube

```

10.7. 算法文档

算法中应有适当的文档介绍，包括算法介绍、理论背景、使用指南、API 文档等，确保用户能够方便地了解和使用算法。

10.7.1. 接口注释

在算法接口的设计中，特别是主要功能函数及插件类(Plugins)的初始化(`__init__`函数)中，需有详细文档注释，举例如下：

- (1) Args: 必需参数。
- (2) Keyword Args: 关键字参数。
- (3) Raises: 引发的异常。
- (4) Returns: 函数或方法返回的变量。
- (5) References: 可用文档的链接。
- (6) Warns: 引发的警告

示例如下，一个数据转化(等经纬度—>等距)的插件类(Plugins)

```

1.     class TransMetevaToCube(PostProcessingPlugin):
2.         """
3.             插件类：将 meteva 格点(xarray.DataArray)转为 cube 格式(标准投影插值转换流程,包括等经纬度及等距投影)
4.         """
5.         def __init__(self,
6.                      darray: xr.DataArray,
7.                      spatial_grid: str = 'latlon',
8.                      to_grid_info: Optional[dict] = None,
9.                      bounds = None
10.                     ) -> Cube:
11.                         """
12.                             Args:
13.                                 darray (xarray.da): Meteva_base griddata (xarray data read by meteva_base python lib).
14.                                 spatial_grid: 'latlon' # 转换为等经纬度投影('latlon')或等距网格 ('equalarea'),默认为 latlon
15.                                 to_grid_info: 转换到数据的网格信息, 有两种模式构建:

```

```

16.          01. meteva_base.grid 网格信息类(https://www.showdoc.com.cn/metevabase/10266280656401547)
17.          同时完成插值和转换，只支持转为等经纬度 CUBE
18.          02. 转换至 CUBE 网格信息字典 grid_dict
19.          持转换为等经纬度与等距两种投影形式 CUBE。模板如下
20.          grid_dict = { 'dlon':10000, 'dlat':10000, #数据 xy 间隔(等经纬度单位°, 等距单位 m)
21.                      'slon':70, 'slat':0, #起始点经纬度(ccrs.PlateCarree()中对应起始点坐标)
22.                      'nlon':701, 'nlat':601 #x/y 方向格点数
23.                  } 默认为等经纬度原始数据网格范围和分辨率
24.          bounds: 预报要素的 time point 范围, 如 var = past 1h percipitation, 则 bounds=[-1,0]
25.          Return:
26.          cube: Iris.Cube, 等经纬度或等距投影的 CUBE 网格数据
27.          """
28.          self.grd = darray
29.          self.spatial_grid = spatial_grid
30.          self.to_grid_info = to_grid_info
31.          self.bounds = bounds
32.          return None

```

10.7.2.类型注释

类型注释（Type Hint/Annotation）从 Python 3.5 版本开始成为 Python 的一部分，由于 python 中默认不用定义变量及类型，这在大型算法的搭建或测试中容易引起误解或错误。因此，算法规范中要求，在主要功能函数和插件类(Plugins)中，参数和返回值必须有相应的类型注释 <https://docs.python.org/3/library/typing.html>.

下面是一个简单的示例，展示了一个接受字符串并返回字符串的函数的类型注释。

```

1... code:: python
2.
3. def greeting(name: str) -> str:
4.     return 'Hello ' + name

```

可以从 typing 库中，试用其他的复杂类型注释类型 Types. 例如：

下面函数的输入参数为一个列表，对应类型注释为 typing 库中的 List 参数

```

1. from typing import List
2.
3. def first_in_list_of_str(list_of_str: List[str]) -> str:
4.     return list_of_str[0]

```

如果一个参数(argument)或返回值(return)可以包含多类型 multiple types，试

用 typing 库中的 Union 参数

```

1. from typing import List, Union
2.
3. def length_of_str_or_list(arg: Union[str, List[str]]) -> int:
4.     return len(arg)

```

如果函数或方法有多个返回值，那么用 typing 库中 Tuple 类型。在文本注释中用需要列表列出返回值具体意义(in rst/markdown style).

```

1. from typing import Tuple
2.
3. def first_and_last(list_of_str: List[str]) -> Tuple[str, str]:
4.     """First and last items.
5.
6.     Args:
7.         list_of_str:
8.             A list of strings.
9.
10.    Returns:
11.        - First item.
12.        - Second item.
13.    """
14.    return list_of_str[0], list_of_str[-1]

```

10.8.算法测试

编写单元测试和集成测试，确保算法功能的正确性和稳定性。

测试覆盖常见使用场景和边界情况，确保算法在各种情况下都能正常工作。

10.8.1.单元测试

单元测试通过将函数或类的输出与预期的内存结果进行比较，来测试单个函数和类。CLI（命令行界面）接受测试使用已知的好输入文件来验证行为是否符合预期。

当从函数逻辑上看不能直接理解结果，以及未被其他单元测试覆盖时，应添加单元测试。单元测试应包括：

- (1) 通常使用具有预期元数据和维度的代表性输入进行测试（与“load”

模块强制执行的一致）。

- (2) 在可能的情况下，使用集中的测试
- (3) 考虑插件的最可能使用情况，并确保这些情况在单元测试中得到体现。
- (4) 考虑可能的边界情况，例如具有不同输入维度的网格数据。
- (5) 确保在良好情况下生成正确的输出。
- (6) 确保根据需要引发异常。

类的单元测试应该在单独的文件中，包含在类之外的函数测试应该在以源文件命名的测试文件中。单元测试中应使用 numpy 数组等插件来生成测试数据，并检查函数或类的结果是否符合预期。

10.8.2. 单元测试结构

类的单元测试应该在单独的文件中，命名为：test_<class name in camel case>.py。每个类的这些文件应该在一个名为源文件名的子目录中。例如，DayNightMask 在 utilities/solar.py 中 --> 对应的单元测试路径为 nimm_tests/utilities/solar/test_DayNightMask.py。每个子目录必须有一个 __init__.py。

包含在类之外的函数的测试应该在以源文件命名的测试文件中。

例如，utilities/spatial.py-->对应单元测试 nimm_tests/utilities/test_spatial.py。

IMPROVER 中的新单元测试应遵循 pytest 样式。这包括：

- 不要用测试类
- 测试被编写为函数
- 测试数据由 fixtures 提供

所有单元测试应在文档字符串中有一个首行标题，格式如下：

```
1. .. code:: python
2. """Test the thing."""
```

10.8.3. 单元测试中的 Numpy 数组

在单元测试中，通常会添加 Numpy 数组来检查插件是否生成了预期的结果。在单元测试中，下面的示例说明了如何包含 Numpy 数组，以使其与 pep8 和 pylint 兼容。

示例：

示例中，与使用默认打印选项打印 Numpy 数组相比，已经删除了空格。

```
1. .. code:: python
2. expected = np.array([[1., 1., 1., 1., 1.],
3.                      [1., 0.88888889, 0.88888889, 0.88888889, 1.],
4.                      [1., 0.88888889, 0.88888889, 0.88888889, 1.],
5.                      [1., 0.88888889, 0.88888889, 0.88888889, 1.],
6.                      [1., 1., 1., 1., 1.]])
```

可以使用以下代码来打印一个兼容的 Numpy 数组：

```
1. .. code:: python
2. np.set_printoptions(formatter={'float': lambda x: "{0:0.6f}".format(x)})
3. print repr(expected)
```

10.8.4. 单元快速测试

算法包应提供对应的单元测试数据及快速测试函数或脚本，可以“一句话”快速对某算法或功能函数进行测试，验证结果正确性。

具体的测试数据可以在算法包中携带，或者由语句随机生成。快速测试脚本读入相关测试数据，运行对应算法，生成算法结果并输出。通过 print() 或数据可视化方式向用户呈现最终输出，并描述其结果合理性。

10.8.5. 接口说明文档

建议开发者在算法开发成熟后，编写对应的说明文档，可以帮助其他开发者理解及应用。说明文档建议包括以下元素：

算法名称和目的：明确指出算法的名称和主要目的，以便读者了解算法的用

途和应用场景。

输入和输出：描述算法的输入和输出，包括输入参数的类型、格式和范围，以及输出结果的类型和格式。如果有多个输入或输出，应该清晰地列出每个参数和结果的含义。

算法步骤：逐步描述算法的执行过程。可以使用文字、伪代码或流程图等方式来说明每个步骤的操作和顺序。尽量保持描述简洁、清晰和易于理解。

时间复杂度和空间复杂度：分析算法的时间复杂度和空间复杂度，以评估算法的效率和资源消耗。可以在文档中说明算法的最坏情况时间复杂度（Big-O 表示法）和空间复杂度，并讨论其优缺点。

算法示例：提供一个或多个具体的示例来演示算法的使用方法和效果。示例可以包括输入数据、预期输出和实际运行结果，以帮助读者更好地理解算法的功能和效果。

边界条件和异常处理：说明算法在边界条件下的行为和处理方式。指出算法对于异常情况的处理方法，如输入错误、越界等。

可选参数和定制选项：如果算法有可选参数或定制选项，应该明确说明它们的含义、用法和默认值。同时，应该说明如何根据不同的需求来调整算法的行为。

示例代码和测试用例：提供一些示例代码和测试用例，以帮助读者理解和验证算法的正确性。示例代码可以包括函数定义、参数设置和调用示例，测试用例可以覆盖常见的输入情况。

参考文献和引用：如果你参考了其他文献或算法，请在文档中提供相应的引用和参考文献列表。这有助于读者进一步学习和了解相关的背景知识。

总之，一体化算法说明文档应该清晰、简洁、易于理解，并提供足够的信息和示例，提高代码可读性/可维护性及可复用性。

10.9. 算法代码审核

10.9.1. 统一代码审核及管理

气象中心成立统一的算法管理审核团队，搭建中心算法库并负责统一算法库的管理。算法开发者将更新后的算法包统一提交至算法库。

算法包提交前，应包含相应的 license 开源协议许可文件

(<https://segmentfault.com/a/1190000041599305>)。推荐使用 GPL3(开源)或 BSD2/3(修改后闭源，授权推广)等开源协议许可。

原则上算法包每次更新后，应根据 pypi 相关功能，打包为 pip 等在线安装包。

为方便各算法包中不同算法的复用和衔接，管理团队将对计算主要基础依赖包(numpy/scipy/pandas/sklearn/xarray/cartopy 等)版本范围进行限制，算法应在统一版本的基础依赖环境上适配并正常运行。

审核团队负责算法包的审核 review，包括代码及命名、文档的合规性，如不合规提出修改建议。开发者应继续修改算法包直至通过审核。

10.9.2. 审核注意事项

代码提交前需经过同行评审，确保代码质量。

使用代码审查工具，方便团队协作和代码管理。

代码库拟采用基于 git 的拉取请求方式(pull request)进行代码的更新/审核及版本发布。"git pull"用于从远程仓库获取最新代码，而"git pull request"用于提交自己的代码变更并请求合并到主分支。这两个命令在多人协作开发中非常常用，可以帮助团队成员保持代码同步，并进行代码的审查和合并。

拉取请求(pull&request)中，情况允许时对代码库进行较小的拉取请求（低于几百行），而不是较大的拉取请求（千行或更多）。非常大的拉取请求很难进行审查，可能会导致错误，但有时对于更高效或更有雄心的更改是必要的。总的来说，开发者应该考虑一个变更是否变得较大 (> 800 行)，是否可以提交一系列较小、独立的 PR，以便更容易进行审查。如果大于此大小，审查者应该自行决定是否要求将 PR 拆分。

* 花时间进行审查：每小时不要超过 500 行代码的审查速度

* 不要一次审查超过 400 行代码，或连续一小时以上

10.10. 算法打包发布

使用标准的打包工具，确保算法可以方便地安装和使用。

提供版本发布日志，详细记录每个版本的变更和更新内容。

原则上算法包每次更新后，应根据 pypi 相关功能，打包为 pip 等在线安装包。

包括提供算法依赖环境包，推荐使用 pip(requirements.txt)或 onda(environment.yml) 的自动部署工具。部署表中应标明执行不同任务时必装和选装的环境。

附件 A：业务应用组件化设计及应用思路

以远洋导航业务应用为例，组件化设计业务开发思路如下：

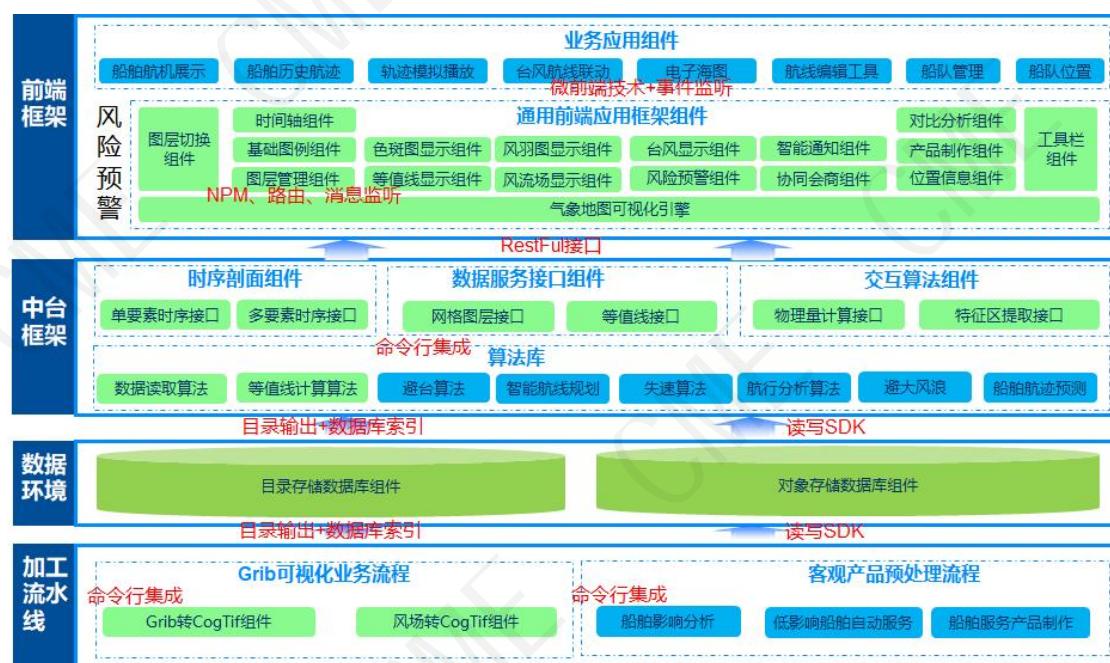
1.需求概述

基于全球模式数据和主客观预报产品，实现针对服务船舶的影响分析与气象导航服务，主要需求包括：

- 1) 实现全球海洋模式数据地图加载显示，支持各要素按照时间顺序轮播显示，支持各要素进行图层切换，支持各要素图例切换渲染方案；
- 2) 实现台风数据加载显示；
- 3) 实现台风海洋海上大风、大浪、海雾等主客观预报产品加载显示；
- 4) 实现导航船舶、船队、航线数据加载显示与交互分析；
- 5) 实现服务船舶影响分析及航线再规划。
- 6) 制作导航专用服务产品服务船舶。

2.组件化需求分析

系统整体组件化设计包括 5 大类，平台通用组件、数据处理组件、服务接口组件、前端功能组件和业务算法组件。根据业务需求分析，远洋导航场景适合使用 MICAPS5 风险预警模板。



1) 平台类通用组件包括数据库组件、调度组件、微服务组件、地图服务组件和前端应用框架组件。功能组件设计图中绿色部分为 MICAPS5 中已有的组件，业务可以直接应用或对接数据，蓝色部分组件需要业务开发者自行开发。

- 数据库组件：基于天擎非结构化存储体系和对象存储体系，实现 CogTif 数据、矢量数据存储。
 - 调度框架组件：基于加工流水线实现组件化调度。
 - 微服务框架组件：包括 Nacos 注册中心和网关等。
 - 地图服务组件：包括地图底图和地图矢量图层服务。
 - 前端应用框架组件：集成可视化引擎、图层切换、时间轴、功能组件和图例、工具栏等，提供基础开发应用能力，并支持通过配置集成业务组件的能力。
- 2) 数据服务类组件包括 Grib 转 CogTif 组件、风场转 CogTif 组件两个组件，CogTif 为具有内置金字塔结构的气象数据。
- Grib 转 CogTif 组件：实现温压湿降水能见度等各要素以单场单要素形式转为 CogTif 文件；
 - 风场转 CogTif 组件：实现 U 风和 V 风转为 CogTif 文件。
 - 服务接口组件包括等值线计算接口组件、时序剖面接口组件和交互算法接口组件。
 - 等值线计算接口组件：提供针对气压等要素进行等值线及平滑处理。
 - 时序剖面接口组件：针对气象格点数据的格点穿透提取数据，支持时间穿透、空间穿透、要素穿透和任意剖面穿透多种。
 - 交互算法接口组件：面向前端提供用户交互计算的服务接口，物理量计算接口组件和特征区提取接口组件两类。
- 3) 可视显示类组件包括地图引擎、框架功能组件以及工具业务预警分析业务组件。

- 气象可视化引擎组件：提供基础的地图服务、投影转换、基础的气象数据地图叠加方法封装。
- 图层切换组件：提供气象单要素、综合图的控制显示与切换组件，通过图层切换组件，可以实现对于该要素的各类显示方式的定义。

- 时间轴组件：支持通过标准参数实现地图要素数据的数据切换、时间播放、键盘操作等。
 - 图层管理组件：通过图层管理组件，用户可以显示、隐藏、调整图层高度和透明度、渲染方案等。
 - 等值线组件：提供等值线调用显示控制的组件。
 - 色斑图显示组件：提供色斑图数据调用显示控制的组件。
 - 风羽显示组件：提供风羽图调用显示控制的组件。
 - 风流场显示组件：提供风流场调用显示控制的组件。
 - 基础图例组件：提供温压湿风降水能见度等主要气象要素多个渲染方案的多个图例组件，用户可以定义可选择图例进行渲染。
 - 台风显示组件：显示当前和历史台风实况路径、预报路径及各预报机构的预报路径。
 - 主观产品显示组件：台风海洋系统制作发布的大风大浪和海雾等各类海洋主客观预报产品。
 - 智能通知组件：系统自动订阅主客观产品制作通知和主观产品影响通知，提示服务人员重点服务内容。
 - 协同会商组件：支持服务人员通过在线协同的方式，与台海预报员进行沟通交流评估灾害影响。
 - 工具栏组件：提供各种 VUE、微前端工具组件的集成管理功能。
 - 对比分析组件：提供不同要素、不同启报时间、不同模式的对比分析功能。
 - 产品制作组件：提供在线截屏、产品图制作、矢量数据下载等功能，并支持数据发布到业务产品库。
 - 位置信息组件：支持调用后端时序图接口服务进行在线渲染数据。
- 4) 导航服务专业功能组件。
- 船舶航线展示组件：船舶航线展示，导航业务专用，业务定制开发。
 - 船舶历史轨迹组件：船舶历史轨迹显示与查看，导航业务专用，业务定制开发。
 - 航线轨迹模拟播放组件：根据时间轴动态播放航线轨迹，导航业务专用，业务定制开发。

- 台风路径与航线距离联动组件：台风路径与船舶航线距离联动分析功能，导航业务专用，业务定制开发。
 - 电子海图展示组件：电子海图地图功能，导航业务专用，业务定制开发。
 - 航线编辑工具箱组件：航线规划调整工具功能，导航业务专用，业务定制开发。
 - 船队管理组件：管理船队船舶信息功能，导航业务专用，业务定制开发。
 - 船队船舶位置组件：按照船队查看船舶位置功能，导航业务专用，业务定制开发。
- 5) 业务算法组件包括物理量计算接口组件和特征区提取接口组件两类。
- 船舶影响分析组件：根据一定业务规则，分析主客观预报灾害落区对船舶的影响，形成服务建议，导航业务专用，业务定制开发。
 - 低影响船舶自动服务组件：根据一定业务规则，结合船舶信息，分析灾害落区对船舶航行影响，获取低影响船舶信息，并根据流程调用船舶服务产品制作组件，导航业务专用，业务定制开发，导航业务专用，业务定制开发。
 - 船舶服务产品制作组件：根据服务产品格式和内容要求，算法自动生成船舶服务产品，导航业务专用，业务定制开发。

附件 B：组件需求设计说明书样例

1、组件元数据表

序号	元数据分类	中文名称	样例
1	基础描述信息	组件中文名称	格点填图
2		组件英文名称	Grid Diagram Component
3		组件版本号	V1.0
4		组件版本描述	基于格点数据实现各类实况预报栅格、网格数据地图渲染功能。
5		组件分类	基础组件
6		组件标签	CFC
7		组件简介	基于格点数据实现各类实况预报栅格、网格数据地图渲染功能，数据包括雷达组网拼图、卫星云图、实况分析产品和各类预报模式数据。
8	版权信息	组件开发者	XXX
9		开发者所属单位	气象中心
10		组件注册时间	2023-11-08
11		开发者联系方式	12345678998
12		组件维护者	XXX
13		维护者所属单位	气象中心
14		维护者联系方式	010-12345678
15	应用描述信息	组件技术方案	--
16		组件准入评估报告	--
17		组件输入参数	中文名：输入参数 英文名：InPara 类型：文本
18		组件输出参数	中文名：输出参数 英文名：OutPara 类型：JPG
19		组件开发语言	JavaScript
20		操作系统	Windows 10
21		组件依赖环境	Vue3
22		运行所需资源	4C8G
23		使用说明	--
24		调用示例	--
25	扩展信息	扩展信息	--

2、组件技术方案

组件名称	格点填图组件
组件需求	基于格点数据实现各类实况预报栅格、网格数据地图渲染功能，数据包括雷达组图拼图、卫星云图、实况分析产品和各类预报模式数据。
功能性要求	1: 支持按照图例渲染； 2: 支持 WebGL、等值面、真实值三种渲染模式； 3: 支持根据图例调整渲染阈值； 4: 支持按照时间、高度层进行切换或轮播。 5: 支持对无效值处理，渲染结果正确。
非功能性要求	1: 渲染数据准确。 2: 支持多种区域、多种分辨率数据可视化显示。 3: 用户交互操作在 1s 内完成。 4: 支持高并发操作，100 用户同时操作。
组件依赖	1: 二维地图引擎 V1.0 2: Tif 网格数据服务接口 V1.0 3: 开发脚手架（含时间轴组件、图层控制组件和高度层组件）
组件设计	格点填图组件为浏览器端功能应用组件，开发采用 JavaScript 语言开发，通过 VUE 开发脚手架，封装成功能组件。 业务应用可通过 NPM 方式，集成到项目中，进行功能组件调用。
组件配置接口	1: 调用方法 This.\$refs.ref 绑定的名字. AddSpotLayer (paramsConfig) 2: 功能接口设计 Map 地图对象 Object config 图层配置参数 Object 3: 数据接口设计 parmas.url 表示 tif 对应的地址的地址，参考： http://ip:port/datacode/起报时间/要素/文件名 文件名规则如下：datacode_起报时间_要素_预报时间_高度层_投影.tif
调用示例	<pre> <script setup lang="ts"> import DasMap from "DasMap/DasMap.js" import { getCurrentInstance, ComponentInternalInstance } from 'vue' const { proxy } = getCurrentInstance() as ComponetInternalInstance // import DasMap from "../../DMap/index.js" let Map: any; function initMap() { Map = new DasMap({ target: "map", view: { center: [110.945951, 39.465262], projection: "EPSG:4326", zoom: 5, // resolution }, }); } </script></pre>

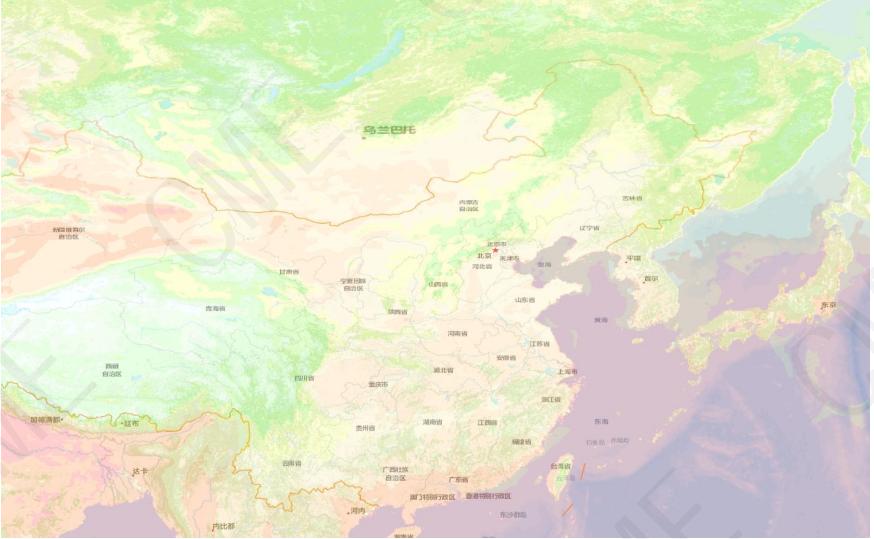
```

baseLayers: [
  {
    layerName: "zhitu",
    isDefault: true,
    layerType: "GaoDe",
    layerUrl:
      "http://map.geoq.cn/ArcGIS/rest/services/ChinaOnlineCommun
      ity/MapServer/tile/{z}/{y}/{x}",
    },
    ],
  });
}

onMounted(() => {
  initMap();
  /**
   * 添加多通道卫星的方法
   * @param parmas
   * @param parma.normalize 表示是否是多通道, //是否多通道 true 表示是
   多通道, false 表示单通道
   * @param parma.opacity 表示是图层透明度 范围 0-1
   * @param parma.zIndex 图层的位置, zIndex 越大, 图层的显示的优先级越高
   * @param parmas.url 表示 tif 对应的地址, 这个地址可以使相对地址或者绝
   对地址, 要注意跨域
   * @param parma.radio 数字 1 或者 2 是渐变颜色还是分段颜色显示
   * @param parma.scala 表示颜色拉伸的系数
   * @param parma.legend 表示是否渲染的颜色 是个数值。每个数组集合, 比如
   数值集合里面 [0.01, [255, 255, 255, 0]], 0.01 表示数值, [255, 255, 255,
   0] 表示对应的颜色和透明度
  */
  let config = JSON.parse(
    `{"layerName": "ecLayer", \
    "Opacity":0.4,"showHide":true,"radio":2,"zIndex":1, \
    "oldUrl":"src/package/spot/Data/spot/CMAGFS_2023082100_TEM_202
    3083015_0_4326.tif", \
    "scala":100}`
  );
  let legend = [
    [-60, [128, 0, 124, 1]],
    [-36, [128, 0, 124, 1]],
    [-32, [0, 47, 134, 1]],
    [-28, [26, 92, 166, 1]],
    [-24, [32, 117, 210, 1]],
    [-20, [60, 160, 240, 1]],
    [-16, [117, 207, 255, 1]],
  ];
}

```

```
[ -12, [ 151, 255, 244, 1]],  
[ -8, [ 189, 249, 255, 1]],  
[ -4, [ 242, 255, 255, 1]],  
[ 0, [ 223, 255, 217, 1]],  
[ 4, [ 196, 255, 183, 1]],  
[ 8, [ 186, 254, 131, 1]],  
[ 12, [ 252, 254, 156, 1]],  
[ 16, [ 255, 243, 196, 1]],  
[ 20, [ 255, 220, 168, 1]],  
[ 24, [ 255, 175, 117, 1]],  
[ 28, [ 253, 135, 132, 1]],  
[ 32, [ 236, 91, 95, 1]],  
[ 35, [ 255, 51, 51, 1]],  
[ 40, [ 255, 51, 51, 1]],  
];  
let dateStore = {  
    projective: "4326", // 坐标系  
};  
let params = {  
    config: { ...config },  
    legend: legend,  
    dateStore: dateStore,  
};  
let paramsConfig={  
map:Map,  
parmas:params  
}  
// that.map.addEcLayer(params);  
let lyr= proxy.$refs.spot.AddSpotLayer(paramsConfig);  
  
console.log("色斑图");  
console.log(lyr);  
console.log("色斑图");  
  
});  
</script>  
<template>  
    <div class="test_typhoon" id="map"></div>  
    <SpotLayer ref="spot" />  
</template>  
<style lang="scss">  
.test_typhoon {  
    width: 100%;  
    height: 100%;
```

	<pre> } </style></pre>
效果示例	

附件 C：基础组件设计说明标准

组件名称	二维地图引擎组件
组件需求	CME（Cloud Micaps Engineer）是一个针对气象、海洋数据的二三维 Web 端可视化引擎，集成基础气象展示形式，包含通用地图服务，地图投影、矢量渲染、栅格渲染、气象标绘、专题制作、剖面分析、三维展示等功能，CME 包含 map、view、layers、Control、Interactions、Sources and formats、Projections 等，目前实现了 map、view、layers、常用的 Projections 等功能，其中 Control、Interactions、Sources and formats、剖面分析、三维展示在开发中。
功能要求	1: 支持基础的地理功能，封装成 SDK 提供服务。 2: 支持气象专用的数据底层高效渲染，包括地面填图、等值线、网格、风羽、风流场等。 3: 支持基础的标绘功能组件。
非功能性要求	1: 渲染数据准确。 2: 支持多种区域、多种分辨率数据可视化显示。 3: 用户交互操作在 1s 内完成。
组件依赖	基础地图服务 Openlayers8.1
组件设计	组件为浏览器端功能应用组件，开发采用 JavaScript 语言开发，通过 VUE 开发脚手架，封装成功能组件。 业务应用可通过 NPM 方式，集成到项目中，进行功能组件调用。

1. 基础功能典型示例

1.1. 地图引擎基础功能组件

1) 二维地图引擎组件

a) 组件示例

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>加载地图</title>
    <link rel="stylesheet" href="/demo.css" />
```

```
</head>

<body>

    <div id="map"></div>

    <script type="text/javascript" src="/libs/cme2d.js"></script>
    <script type="text/javascript" src="/libs/cme-core.umd.cjs"></script>
    <script type="text/javascript">

        const { Map:olmap, View, source, layer } = window.CME2D;

        function initMap(mapEl) {

            const map = new olmap({
                target: mapEl,//挂载实例
                layers: [
                    new layer.Tile({
                        source: new source.XYZ({
                            url: 'http://10.0.54.106:8080/windy/{z}/{x}/{y}.png' //内网地址
                            // url:
                            // 'http://10.0.54.106:8080/windy/{z}/{x}/{y}.png' //外网地址
                        })
                    })
                ],
                view: new View({ //地图视图
                    center: [106, 35],
                    projection: "EPSG:4326",
                    zoom: 5,
                    wrapX: true,
                }),//地图设置
                controls: [],//取消地图操作
            });
        }
    </script>

```

```
    return map;
}

let mapObj = null;

window.onload = function () {
    const mapEl = document.querySelector('#map');

    mapObj = initMap(mapEl);
}

</script>
</body>
</html>
```

b)组件效果



2)基础 wmts 图层组件

a)组件示例

```
<!doctype html>
<html lang="en">
    <head>
        <meta charset="UTF-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
```

```
<title>底图加载-WMTS 地图</title>
<link rel="stylesheet" href="/demo.css" />
</head>

<body>
  <div id="map"></div>
  <script type="text/javascript" src="/libs/cme2d.js"></script>
  <script type="text/javascript">
    const {
      Map,
      View,
      source,
      layer,
      extent,
      format,
      style,
      proj,
      tilegrid,
    } = window.CME2D

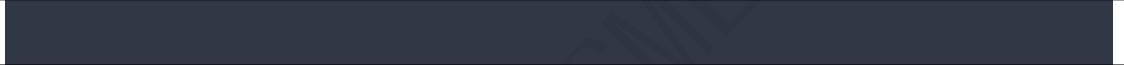
    let mapObj
    function initMap(mapEl) {
      const map = new Map({
        target: mapEl, //挂载实例
        layers: [],
        view: new View({
          //地图视图
          center: [106, 35],
          projection: 'EPSG:4326',
          zoom: 5,
          wrapX: true,
        }), //地图设置
        controls: [], //取消地图操作
      })
      return map
    }

    function addLayer(map) {
      let source = getWmtsSource(map)
      let wmtsLayer = new layer.Tile({
        source: source,
      })
      map.addLayer(wmtsLayer)
    }
  </script>
</body>
```

```
function getWmtsSource(map) {
    // const epsg = "EPSG:4326";
    let epsg = map.getView().getProjection().getCode()
    // 获取投影坐标系
    const projection = proj.projections.get(epsg)
    // 获取当前地图的边界框
    const projectionExtent = projection.getExtent()
    const size = extent.getWidth(projectionExtent) / 256
    const length = 19
    const resolutions = new Array(length)
    const matrixIds = new Array(length)
    for (let i = 0; i < length; i += 1) {
        const pow = Math.pow(2, i)
        resolutions[i] = size / pow
        matrixIds[i] = i
    }
    const wmtsSource = new source.WMTS({
        url:
'http://t3.tianditu.com/img_c/wmts?tk=7baeffb96bf61861b302d0f963cfda66'
,
        layer: 'img',
        style: 'default',
        matrixSet: 'c',
        format: 'tiles',
        wrapX: true,
        tileGrid: new tilegrid.WMTS({
            origin: extent.getTopLeft(projectionExtent),
            resolutions,
            matrixIds,
        }),
    })
}

return wmtsSource
}

window.onload = function () {
    mapObj = initMap('map')
    addLayer(mapObj)
}
</script>
</body>
</html>
```



a)组件效果



3)地图底图切换

a)组件示例

```
<!DOCTYPE html>
<html lang="en">

  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>底图切换</title>
    <link rel="stylesheet" href="/demo.css" />
  </head>

  <body>
    <div id="map"></div>
    <div class="panel">
      <p class="line">
        切换底图
        <select id="maplist">
          <option value="windy">windy 风格底图</option>
          <option value="satellite">瓦片底图</option>
        </select>
      </p>
    </div>
  </body>

```

```

<script type="text/javascript" src="/libs/cme2d.js"></script>
<script type="text/javascript">
    const { Map, View, source, layer } = window.CME2D;

    function initMap(mapEl) {
        const map = new Map({
            target: mapEl, //挂载实例
            layers: [
                new layer.Tile({
                    source: new source.XYZ({
                        url: 'http://10.0.54.106:8080/windy/{z}/{x}/{y}.png' //内网地址
                        // url:
                    'http://111.205.114.224:8080/windy/{z}/{x}/{y}.png' //外网地址
                })
            ],
            view: new View({ //地图视图
                center: [106, 35],
                projection: "EPSG:4326",
                zoom: 5,
                wrapX: true,
            }), //地图设置
            controls: [], //取消地图操作
        });
        return map;
    }

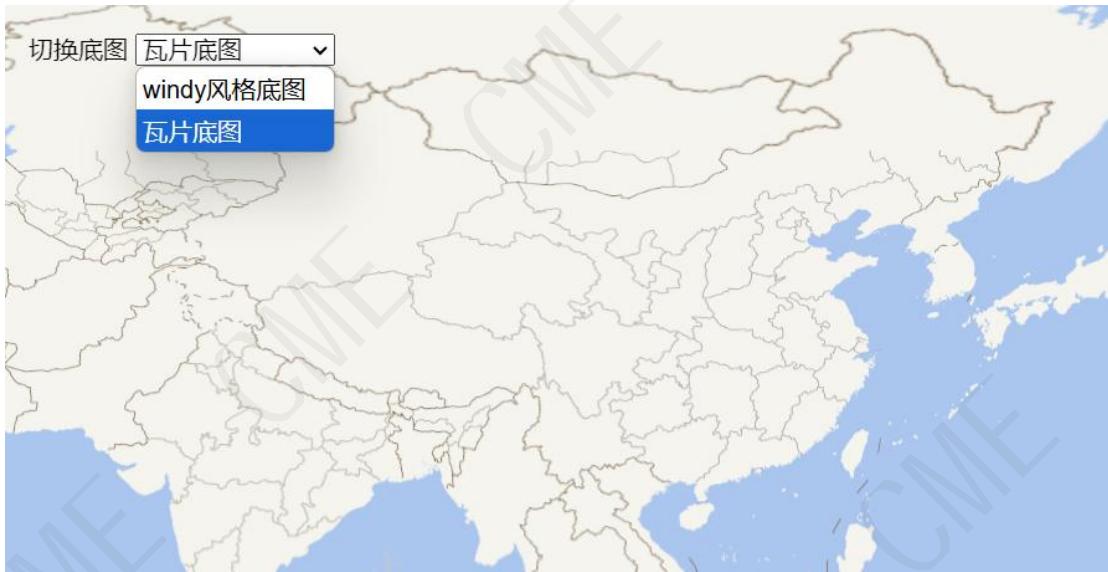
    let mapObj = null;
    window.onload = function () {
        const mapEl = document.querySelector('#map');
        mapObj = initMap(mapEl);
    }
    // 点击按钮时设置地图中心点
    document.querySelector('#maplist').addEventListener('change', (e) =>
{
    const value = e.target.value;
    mapObj.getAllLayers().forEach(l => mapObj.removeLayer(l));
    if (value === 'windy') {
        const layerWindy = new layer.Tile({
            source: new source.XYZ({
                url: 'http://10.0.54.106:8080/windy/{z}/{x}/{y}.png' //内网地址
            })
    })
}

```

```
    });
    mapObj.addLayer(layerWindy);
} else {
    const layerVec = new layer.Tile({
        source: new source.XYZ({
            url:
'http://10.1.64.154/DataServer?T=vec_w&x={x}&y={y}&l={z}'
        })
    });
    mapObj.addLayer(layerVec);
}
});
</script>
</body>

</html>
```

b)组件效果



1. 气象图层功能组件典型示例

1) 风羽图渲染组件

a) 组件示例

```
<!doctype html>
<html lang="en">
```

```
<head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />
    <title>底图切换</title>
    <link rel="stylesheet" href="/demo.css" />
</head>

<body>
    <div id="map"></div>
    <script type="text/javascript" src="/libs/cme2d.js"></script>
    <script type="text/javascript"
src="/libs/cme-core.umd.cjs"></script>
    <script type="text/javascript">
        const { Map: olmap, View, source, layer } = window.CME2D
        let map
        const { blendLayers, style } = window.CMECore
        function initMap(mapEl) {
            const map = new olmap({
                target: mapEl, //挂载实例
                layers: [
                    new layer.Tile({
                        source: new source.XYZ({
                            url: 'http://10.0.54.106:8080/windy/{z}/{x}/{y}.png',
// 内网地址
                        }),
                    }),
                    ],
                view: new View({
                    //地图视图
                    center: [106, 35],
                    projection: 'EPSG:4326',
                    zoom: 5,
                    wrapX: true,
                }), //地图设置
                controls: [], //取消地图操作
            })
            return map
        }
        let mapObj = null
        window.onload = function () {
            const mapEl = document.querySelector('#map')
            mapObj = initMap(mapEl)
```

```
mapObj.once('postrender', function () {
    multiLayer(mapObj)
})
}

const options = { center: [106, 35], zoom: 4 }
function multiLayer(map) {
    let url = '/tiffs/2024081200_100_WIND_850_6.tif'
    // 获取风羽图的配置参数
    const params = getMultiConfig()
    // 获取文本配置参数
    const paramstext = getTextCogtig()
    // 获取箭头配置参数
    const paramsArrow = getArrowCogtig()
    let layers = new blendLayers(map, {
        url: url,
    })
    //绘制色斑图
    layers._render(params).then((object) => {
        layers.addCogeoLayer(params).then((layer) => {
            map.addLayer(layer)
        })
        //绘制网格值
        layers.addTextLayer(paramstext).then((layer) => {
            map.addLayer(layer)
        })
        //绘制风向杆
        layers.addArrowLayer(paramsArrow).then((layer) => {
            map.addLayer(layer)
        })
    })
}
function getMultiConfig() {
    let params = {
        interpolation: 'grid', // 渐变 linear 区间 nearest 网格
grid
        layerName: 'multiCogtifLayer',
        opacity: 0.9,
        zIndex: 14,
        colors: [
            [0, [82, 71, 141, 1]],
            [1, [85, 78, 177, 1]],
            [2, [80, 87, 184, 1]],
            [4, [67, 105, 196, 1]],
            [6, [64, 160, 180, 1]],
        ]
    }
    return params
}
```

```
[8, [78, 193, 103, 1]],
[10, [104, 209, 79, 1]],
[12, [157, 221, 68, 1]],
[16, [195, 226, 51, 1]],
[18, [247, 122, 9, 1]],
[20, [251, 60, 60, 1]],
[24, [0, 0, 0, 1]],
[30, [217, 66, 114, 1]],
[36, [147, 23, 78, 1]],
[42, [43, 0, 1, 1]],
[24, [194, 3, 0, 1]],
[30, [217, 66, 114, 1]],
[36, [147, 23, 78, 1]],
[42, [43, 0, 1, 1]],
],
}
return params
}
function getTextCogtig() {
let params = {
layerName: 'textLayer',

precision: 1, //格网数据显示的小数点的精度
opacity: 1, //透明度
// maxZoom: 15, // 最大缩放级别
zIndex: 200, //图层层级
// showTextRange: range,
distanceArrow: 80, //距离
textStyle: {
// //文本样式
Style: {
text: {
Text: {

font: '18px Calibri,sans-serif',
fill: {
Fill: {
color: '#ff0000',
},
},
stroke: {
Stroke: {
color: '#ffffff',
width: 4,
```

```
        },
        },
        },
        },
        },
        },
        }
    }

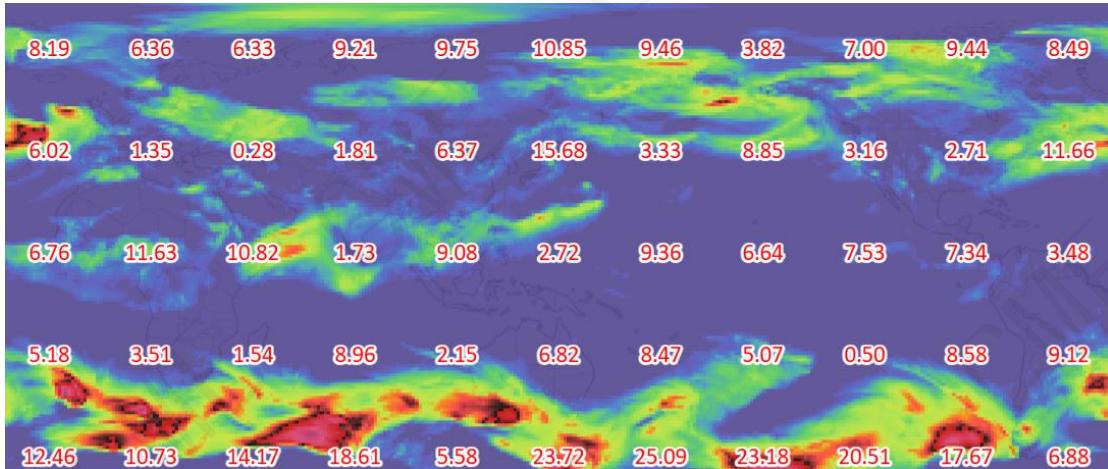
    return params
}

function getArrowCogtig() {
    let params = {
        layerName: 'arrowLayer',
        windType: 'arrow', // arrow 表示箭头 wind 表示风向杆
        zIndex: 1002,
        style1: {
            Style: {
                image: {
                    cme_style_FontSymbol: {
                        radius: 18,
                        displacement: [0, 0],
                        color: 'rgba(0,0,0,200)'
                    },
                    },
                    },
                    },
                    },
                    },
                    }

    return params
}

// 点击按钮时设置地图中心点
</script>
</body>
</html>
```

b)组件效果



2)温度-渐变渲染组件

a)组件示例

```

<!DOCTYPE html>
<html lang="en">

  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>底图切换</title>
    <link rel="stylesheet" href="/demo.css" />
  </head>
  <body>
    <div id="map"></div>
    <script type="text/javascript" src="/libs/cme2d.js"></script>
    <script type="text/javascript"
src="/libs/cme-core.umd.cjs"></script>
    <script type="text/javascript">
      const { Map:olmap, View, source, layer } = window.CME2D;
      const { blendLayers, style } = window.CMEECore;
      function initMap(mapEl) {
        const map = new olmap({
          target: mapEl,//挂载实例
          layers: [
            {
              type: "raster",
              source: "china-topo-vector"
            }
          ]
        });
        const view = new View({
          center: [110, 35],
          zoom: 4
        });
        map.setView(view);
        map.addLayer(blendLayers);
        map.setLayerStyle(style);
      }
      initMap(document.getElementById("map"));
    </script>
  </body>
</html>

```

```
new layer.Tile({
    source: new source.XYZ({
        url:
'http://10.0.54.106:8080/windy/{z}/{x}/{y}.png'    // 内网地址
    })
}),
],
view: new View({ //地图视图
    center: [106, 35],
    projection: "EPSG:4326",
    zoom: 5,
    wrapX: true,
}), //地图设置
controls: [], //取消地图操作
});
return map;
}
let mapObj = null;
window.onload = function () {
    const mapEl = document.querySelector('#map');
    mapObj = initMap(mapEl);
    mapObj.once('postrender', function () {
        singleLayer(mapObj)
    })
}
function singleLayer(map) {
    let url = "/data/TEM/TEM_4326.tif";
    // 获取色斑图配置信息
    const params = getsingleConfig()
    // 获取文本配置参数
    const paramstext = getTextCogtig()

    let layers = new blendLayers(map, {
        url: url,
    })
    //绘制色斑图
    layers._render(params).then(object => {
        layers.addCogeoLayer(params).then(layer => {
            map.addLayer(layer)
        })
        // // //绘制网格值
        layers.addTextLayer(paramstext).then(layer => {
```

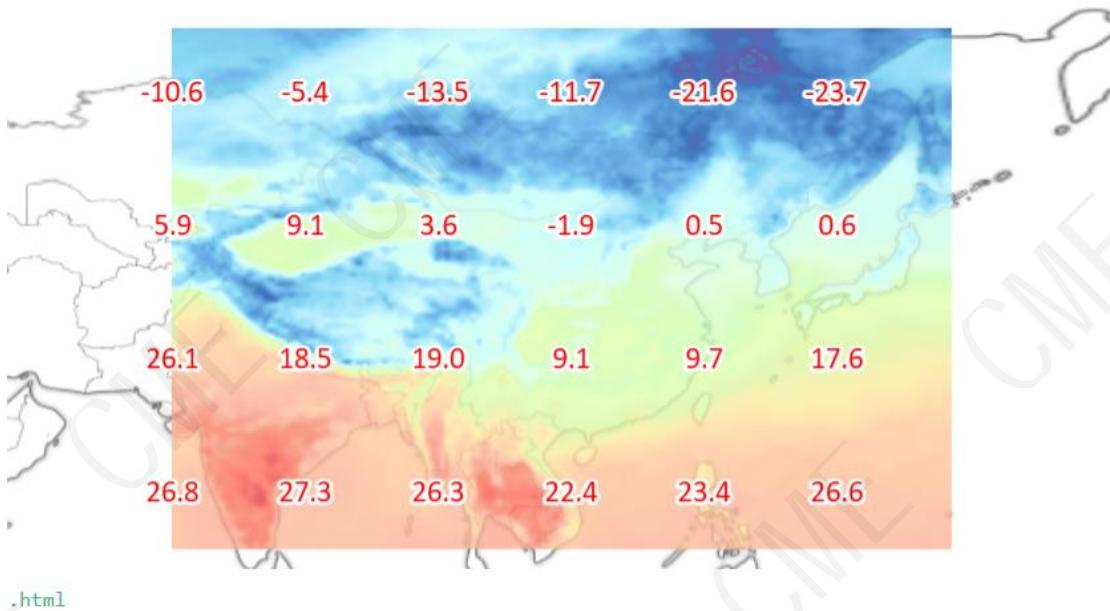
```
    map.addLayer(layer)
  })
})
}
}

function getsingleConfig() {
  let params = {
    layerName: 'cogtifLayer',//必须有，而且必须是唯一值
    opacity:0.8,
    interpolation: 'linear', // 渐变 linear 区间 nearest 网格 grid
    colors: [
      [-36, [128, 0, 124]],
      [-32, [0, 47, 134]],
      [-28, [26, 92, 166]],
      [-24, [32, 117, 210]],
      [-20, [60, 160, 240]],
      [-16, [117, 207, 255]],
      [-12, [151, 255, 244]],
      [-8, [189, 249, 255]],
      [-4, [242, 255, 255]],
      [0, [223, 255, 217]],
      [4, [196, 255, 183]],
      [8, [186, 254, 131]],
      [12, [252, 254, 156]],
      [16, [255, 243, 196]],
      [20, [255, 220, 168]],
      [24, [255, 175, 117]],
      [28, [253, 135, 132]],
      [32, [236, 91, 95]],
      [35, [255, 51, 51]],
      [37, [201, 1, 1]],
      [40, [153, 51, 1]],
      [100, [71, 14, 0]]
    ],
  }
  return params
}

function getTextCogtig() {
  let params = {
    layerName: 'textLayer',//必须有，而且必须是唯一值
    zIndex: 100, //层级
    opacity: 1, //透明度
    zIndex:100,
    textStyle: {//样式
      style: {
        color: 'black',
        font-size: 14px,
        font-weight: bold
      }
    }
  }
  return params
}
```

```
text: {
  Text: {
    font: '18px Calibri,sans-serif',
    fill: {
      Fill: {
        color: '#ff0000',
      },
    },
    stroke: {
      Stroke: {
        color: '#ffffff',
        width: 4,
      },
    },
  },
},
return params
}
</script>
</body>
</html>
```

b)组件效果



3) 温度-区间渲染组件

a)组件示例

```
<!DOCTYPE html>
<html lang="en">

  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>底图切换</title>
    <link rel="stylesheet" href="/demo.css" />
  </head>
  <body>
    <div id="map"></div>
    <script type="text/javascript" src="/libs/cme2d.js"></script>
    <script type="text/javascript"
src="/libs/cme-core.umd.cjs"></script>
    <script type="text/javascript">
      const { Map:olmap, View, source, layer } = window.CME2D;
      let map
      const { blendLayers, style } = window.CMECore;
      function initMap(mapEl) {
        map = new olmap({
          view: new View({
            center: [110, 35],
            zoom: 4
          })
        });
        map.setTarget(mapEl);
        map.addLayer(style);
        map.addLayer(blendLayers);
      }
    </script>
  </body>

```

```
const map = new olmap({
    target: mapEl, //挂载实例
    layers: [
        new layer.Tile({
            source: new source.XYZ({
                url:
                    'http://10.0.54.106:8080/windy/{z}/{x}/{y}.png' // 内网地址
            })
        })
    ],
    view: new View({ //地图视图
        center: [106, 35],
        projection: "EPSG:4326",
        zoom: 5,
        wrapX: true,
    }), //地图设置
    controls: [], //取消地图操作
});
return map;
}
let mapObj = null;
window.onload = function () {
    const mapEl = document.querySelector('#map');
    mapObj = initMap(mapEl);
    mapObj.once('postrender', function () {
        singleLayer(mapObj)
    })
}
function singleLayer(map) {
    let url = "/data/TEM/TEM_4326.tif";
    // 获取色斑图配置信息
    const params = getsingleConfig()
    // 获取文本配置参数
    const paramstext = getTextCogtig()
    // 获取箭头配置参数
    let layers = new blendLayers(map, {
        url: url,
    })
    //绘制色斑图
    layers._render(params).then(object => {
        layers.addCogeoLayer(params).then(layer => {
            map.addLayer(layer)
        })
    })
}
```

```
// // //绘制网格值
layers.addTextLayer(paramstext).then(layer => {
    map.addLayer(layer)
})
})
}
}

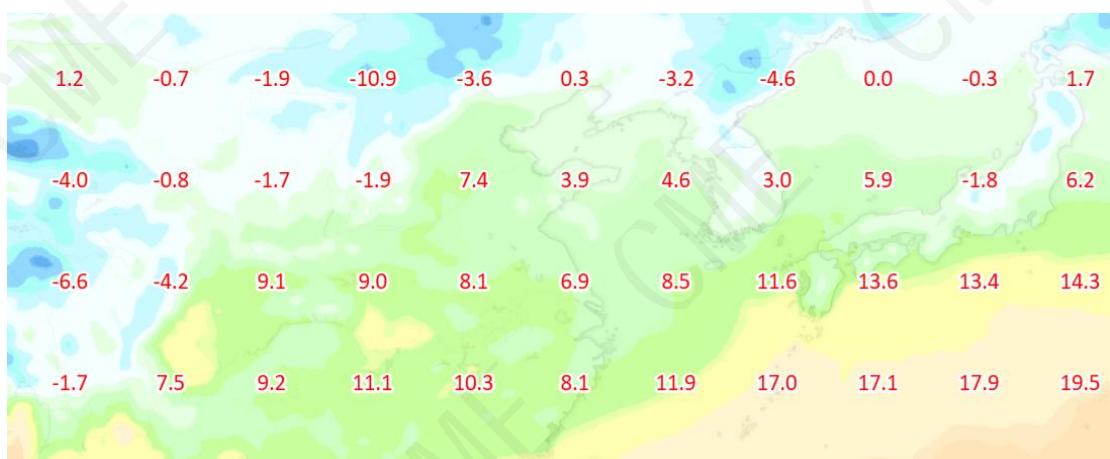
function getsingleConfig() {
    let params = {
        layerName: 'cogtifLayer',//必须有，而且必须是唯一值
        opacity: 0.8,
        interpolation: 'nearest', // 渐变 linear 区间 nearest 网格 grid
        colors: [
            [-36, [128, 0, 124]],
            [-32, [0, 47, 134]],
            [-28, [26, 92, 166]],
            [-24, [32, 117, 210]],
            [-20, [60, 160, 240]],
            [-16, [117, 207, 255]],
            [-12, [151, 255, 244]],
            [-8, [189, 249, 255]],
            [-4, [242, 255, 255]],
            [0, [223, 255, 217]],
            [4, [196, 255, 183]],
            [8, [186, 254, 131]],
            [12, [252, 254, 156]],
            [16, [255, 243, 196]],
            [20, [255, 220, 168]],
            [24, [255, 175, 117]],
            [28, [253, 135, 132]],
            [32, [236, 91, 95]],
            [35, [255, 51, 51]],
            [37, [201, 1, 1]],
            [40, [153, 51, 1]],
            [100, [71, 14, 0]]
        ],
    }
    return params
}
}

function getTextCogtig() {
    let params = {
        layerName: 'textLayer',//必须有，而且必须是唯一值
        opacity: 1, //透明度
        zIndex: 100, //层级
        textStyle: {

```

```
// //文本样式
Style: {
    text: {
        Text: {
            font: '18px Calibri,sans-serif',
            fill: {
                Fill: {
                    color: '#ff0000',
                },
            },
            stroke: {
                Stroke: {
                    color: '#ffffff',
                    width: 4,
                },
            },
        },
    },
    return params
}
</script>
</body>
</html>
```

b)组件效果



4) 温度-栅格渲染组件

a) 组件示例

```
<!DOCTYPE html>
<html lang="en">

  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>底图切换</title>
    <link rel="stylesheet" href="/demo.css" />
  </head>
  <body>
    <div id="map"></div>
    <script type="text/javascript" src="/libs/cme2d.js"></script>
    <script type="text/javascript"
src="/libs/cme-core.umd.cjs"></script>
    <script type="text/javascript">
      const { Map:olmap, View, source, layer } = window.CME2D;
      const { blendLayers, style } = window.CMECore;
      function initMap(mapEl) {
        const map = new olmap({
          target: mapEl, //挂载实例
          layers: [
            new layer.Tile({
              source: new source.XYZ({
                url:
'http://10.0.54.106:8080/windy/{z}/{x}/{y}.png' // 内网地址
              })
            })
          ],
          view: new View({ //地图视图
            center: [106, 35],
            projection: "EPSG:4326",
            zoom: 5,
            wrapX: true,
          }), //地图设置
          controls: [], //取消地图操作
        });
        return map;
      }
    </script>
  </body>
</html>
```

```
}

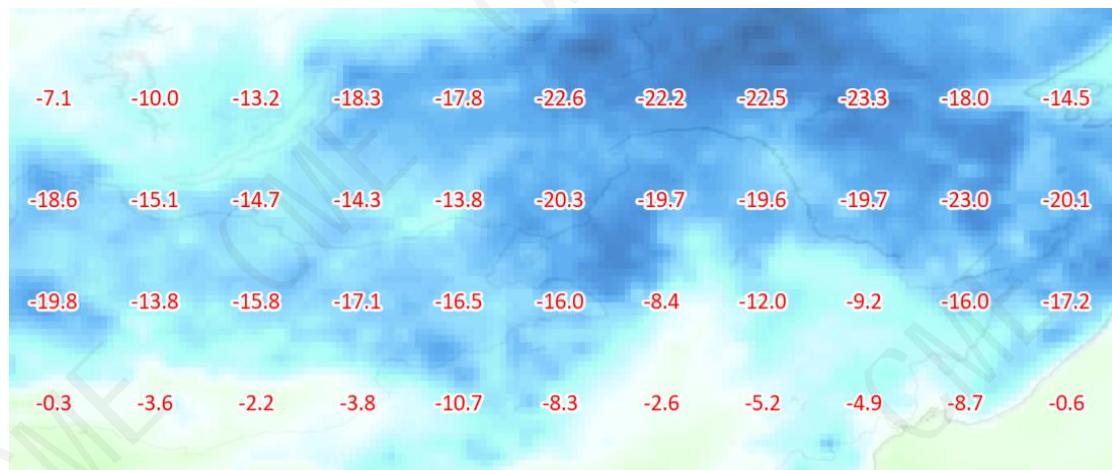
let mapObj = null;
window.onload = function () {
    const mapEl = document.querySelector('#map');
    mapObj = initMap(mapEl);
    mapObj.once('postrender', function () {
        singleLayer(mapObj)
    })
}
function singleLayer(map) {
    let url = "/data/TEM/TEM_4326.tif";
    // 获取色斑图配置信息
    const params = getsingleConfig()
    // 获取文本配置参数
    const paramstext = getTextCogtig()
    // 获取箭头配置参数
    // const paramsArrow=getArrowCogtig();
    let layers = new blendLayers(map, {
        url: url,
    })
    //绘制色斑图
    layers._render(params).then(object => {
        layers.addCogeoLayer(params).then(layer => {
            map.addLayer(layer)
        })
        // // //绘制网格值
        layers.addTextLayer(paramstext).then(layer => {
            let option = {
                gridLayer: {
                    range: {
                        min: 10,
                        max: 20,
                    },
                },
            }
            map.addLayer(layer)
        })
    })
}
function getsingleConfig() {
    let params = {
        layerName: 'cogtifLayer',//必须有，而且必须是唯一值
        opacity: 0.8,
```

```
interpolation: 'grid', // 渐变 linear 区间 nearest 网格 grid
colors: [
  [-36, [128, 0, 124]],
  [-32, [0, 47, 134]],
  [-28, [26, 92, 166]],
  [-24, [32, 117, 210]],
  [-20, [60, 160, 240]],
  [-16, [117, 207, 255]],
  [-12, [151, 255, 244]],
  [-8, [189, 249, 255]],
  [-4, [242, 255, 255]],
  [0, [223, 255, 217]],
  [4, [196, 255, 183]],
  [8, [186, 254, 131]],
  [12, [252, 254, 156]],
  [16, [255, 243, 196]],
  [20, [255, 220, 168]],
  [24, [255, 175, 117]],
  [28, [253, 135, 132]],
  [32, [236, 91, 95]],
  [35, [255, 51, 51]],
  [37, [201, 1, 1]],
  [40, [153, 51, 1]],
  [100, [71, 14, 0]]
],
},
return params
}
function getTextCogtig() {
let params = {
  layerName: 'textLayer',//必须有，而且必须是唯一值
  zIndex: 100, //层级
  opacity: 1, //透明度
  textStyle: { //文本样式
    Style: {
      text: {
        Text: {
          font: '18px Calibri,sans-serif',
          fill: {
            Fill: {
              color: '#ff0000',
            },
          },
        },
        stroke: {
      
```

```
        Stroke: {
          color: '#ffffff',
          width: 4,
        },
      },
    },
  },
},
}

return params
}
</script>
</body>
</html>
```

b)组件效果



5)雷达-渐变渲染组件

a)组件示例

```
<!DOCTYPE html>
<html lang="en">
```

```
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>底图切换</title>
    <link rel="stylesheet" href="/demo.css" />
</head>
<body>
    <div id="map"></div>
    <script type="text/javascript" src="/libs/cme2d.js"></script>
    <script type="text/javascript"
src="/libs/cme-core.umd.cjs"></script>
    <script type="text/javascript">
        const { Map:olmap, View, source, layer } = window.CME2D;
        const { blendLayers, style } = window.CMECore;
        function initMap(mapEl) {
            const map = new olmap({
                target: mapEl,//挂载实例
                layers: [
                    new layer.Tile({
                        source: new source.XYZ({
                            url:
'http://10.0.54.106:8080/windy/{z}/{x}/{y}.png' // 内网地址
                            // url:
'http://111.205.114.224:8080/windy/{z}/{x}/{y}.png' // 外网地址
                            })
                ],
                view: new View({ //地图视图
                    center: [106, 35],
                    projection: "EPSG:4326",
                    zoom: 5,
                    wrapX: true,
                }),//地图设置
                controls: [],//取消地图操作
            });
            return map;
        }
        let mapObj = null;
        window.onload = function () {
            const mapEl = document.querySelector('#map');
            mapObj = initMap(mapEl);
            mapObj.once('postrender', function () {
                addRadarLayer(mapObj)
            })
        }
    </script>
</body>
```

```
        })
    }

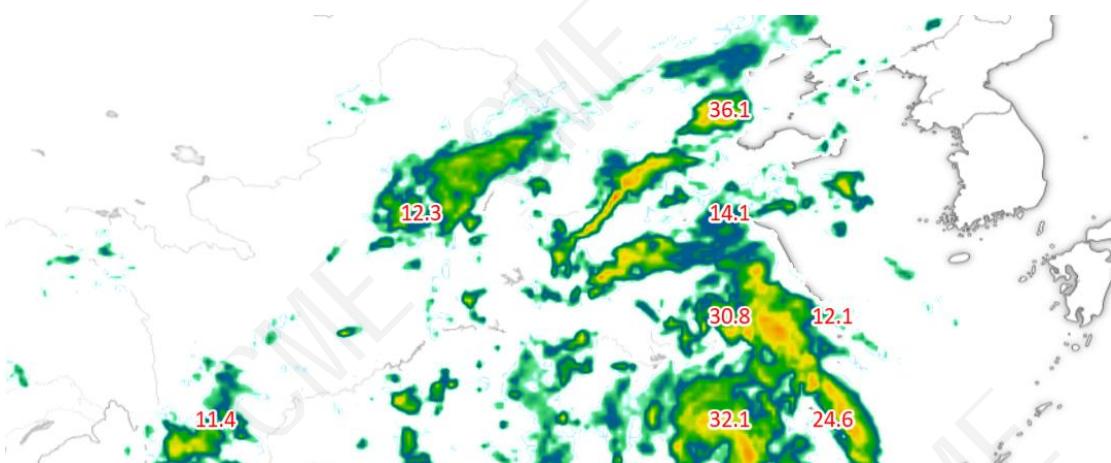
    function addRadarLayer(map) {
        let url = "/data/radar/RADA_CREF_20230728120000_4326.tif"; // 雷达图
        // 获取风羽图的配置参数
        const params = getSingleConfig()
        // 获取文本配置参数
        const paramstext = getTextCogtig()
        // 获取箭头配置参数
        // const paramsArrow = getArrowCogtig();
        let layers = new blendLayers(map, {
            url: url,
        })
        // 绘制色斑图
        layers._render(params).then(object => {
            layers.addCogeoLayer(params).then(layer => {
                map.addLayer(layer)
            })
            // // // 绘制网格值
            layers.addTextLayer(paramstext).then(layer => {
                let option = {
                    gridLayer: {
                        range: {
                            min: 10,
                            max: 20,
                        },
                    },
                }
                map.addLayer(layer)
            })
        })
    }
}

function getSingleConfig() {
    let params = {
        layerName: 'cogtifLayer',
        opacity: 1.0,
        interpolation: 'linear', // 渐变 linear 区间 nearest 网格 grid
        zIndex: 14,
        colors: [
            [0.01, [255, 255, 255, 0]],
            [5.0, [161, 212, 255]],
            [10.0, [0, 236, 0]],
        ],
    }
}
```

```
[15.0, [0, 0, 255]],
[20.0, [0, 200, 0]],
[25.0, [0, 141, 0]],
[30.0, [255, 255, 0]],
[35.0, [231, 192, 0]],
[40.0, [252, 144, 0]],
[45.0, [255, 0, 0]],
[50.0, [214, 0, 0]],
[55.0, [192, 0, 0]],
[60.0, [255, 0, 240]],
[65.0, [120, 0, 132]],
[70.0, [173, 144, 240]]
],
}
return params
}
function getTextCogtig() {
let params = {
layerName: 'textLayer',
range: {
min: 10,
max: 100,
},
opacity: 1, //透明度
zIndex: 200, //图层层级
textStyle: {
// //文本样式
Style: {
text: {
Text: {
font: '18px Calibri,sans-serif',
fill: {
Fill: {
color: '#ff0000',
},
},
stroke: {
Stroke: {
color: '#ffffff',
width: 4,
},
},
},
},
},
},
},
};
```

```
        },
        },
        },
    }
    return params
}
</script>
</body>
</html>
```

b)组件效果



6)雷达-栅格渲染组件

a)组件示例

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
```

```
initial-scale=1.0">
    <title>底图切换</title>
    <link rel="stylesheet" href="/demo.css" />
</head>
<body>
    <div id="map"></div>
    <script type="text/javascript" src="/libs/cme2d.js"></script>
    <script type="text/javascript"
src="/libs/cme-core.umd.cjs"></script>
    <script type="text/javascript">
        const { Map:olmap, View, source, layer } = window.CME2D;
        const { blendLayers, style } = window.CMECore;
        function initMap(mapEl) {
            const map = new olmap({
                target: mapEl, //挂载实例
                layers: [
                    new layer.Tile({
                        source: new source.XYZ({
                            url:
'http://10.0.54.106:8080/windy/{z}/{x}/{y}.png' // 内网地址
                        })
                    })
                ],
                view: new View({ //地图视图
                    center: [106, 35],
                    projection: "EPSG:4326",
                    zoom: 5,
                    wrapX: true,
                }), //地图设置
                controls: [], //取消地图操作
            });
            return map;
        }
        let mapObj = null;
        window.onload = function () {
            const mapEl = document.querySelector('#map');
            mapObj = initMap(mapEl);
            mapObj.once('postrender', function () {
                addRadarLayer(mapObj)
            })
        }
        function addRadarLayer(map) {
            let url="/data/radar/RADA_CREF_20230728120000_4326.tif"; //雷达图
        }
    
```

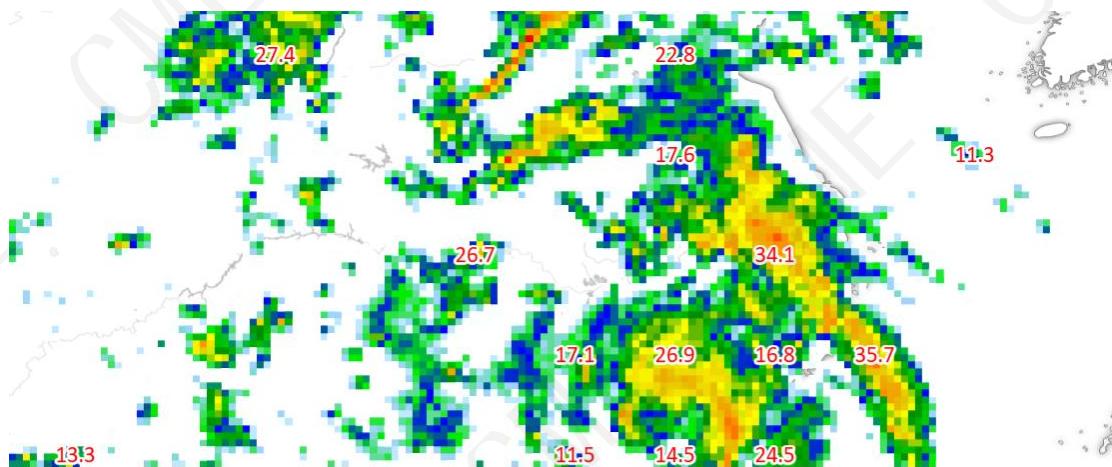
```
// 获取风羽图的配置参数
const params = getsingleConfig()
// 获取文本配置参数
const paramstext = getTextCogtig()
// 获取箭头配置参数
// const paramsArrow=getArrowCogtig();
let layers = new blendLayers(map, {
    url: url,
    ...
})
//绘制色斑图
layers._render(params).then(object => {
    layers.addCogeoLayer(params).then(layer => {
        map.addLayer(layer)
    })
    // // //绘制网格值
    layers.addTextLayer(paramstext).then(layer => {
        let option = {
            gridLayer: {
                range: {
                    min: 10,
                    max: 20,
                },
                ...
            }
        }
        map.addLayer(layer)
    })
})
})
}
function getsingleConfig() {
    let params = {
        layerName: 'cogtifLayer',
        opacity: 1.0,
        interpolation: 'grid', // 渐变 linear 区间 nearest 网格 grid
        zIndex: 14,
        colors: [
            [0.01, [255, 255, 255, 0]],
            [5.0, [161, 212, 255]],
            [10.0, [0, 236, 0]],
            [15.0, [0, 0, 255]],
            [20.0, [0, 200, 0]],
            [25.0, [0, 141, 0]],
            [30.0, [255, 255, 0]],
            ...
        ]
    }
}
```

```
[35.0, [231, 192, 0]],
[40.0, [252, 144, 0]],
[45.0, [255, 0, 0]],
[50.0, [214, 0, 0]],
[55.0, [192, 0, 0]],
[60.0, [255, 0, 240]],
[65.0, [120, 0, 132]],
[70.0, [173, 144, 240]]
],
}
return params
}

function getTextCogtig() {
let params = {
layerName: 'textLayer',
range: {
min: 10,
max: 100,
},
opacity: 1, //透明度
zIndex: 200, //图层层级
textStyle: {
// //文本样式
Style: {
text: {
Text: {
font: '18px Calibri,sans-serif',
fill: {
Fill: {
color: '#ff0000',
},
},
stroke: {
Stroke: {
color: '#ffffff',
width: 4,
},
},
},
},
},
},
},
},
},
},
},
}
}
```

```
    return params  
}  
</script>  
</body>  
</html>
```

b) 组件效果



7) 雷达-区间渲染组件

a) 组件示例

```
<!DOCTYPE html>  
<html lang="en">  
  
<head>  
  <meta charset="UTF-8">  
  <meta name="viewport" content="width=device-width,  
initial-scale=1.0">  
  <title>底图切换</title>  
  <link rel="stylesheet" href="/demo.css" />  
</head>  
  
<body>  
  <div id="map"></div>
```

```

<script type="text/javascript" src="/libs/cme2d.js"></script>
<script type="text/javascript"
src="/libs/cme-core.umd.cjs"></script>
<script type="text/javascript">
    const { Map:olmap, View, source, layer } = window.CME2D;
    const { blendLayers, style } = window.CMECore;
    function initMap(mapEl) {
        const map = new olmap({
            target: mapEl, //挂载实例
            layers: [
                new layer.Tile({
                    source: new source.XYZ({
                        url:
'http://10.0.54.106:8080/windy/{z}/{x}/{y}.png' // 内网地址
                        // url:
'http://111.205.114.224:8080/windy/{z}/{x}/{y}.png' // 外网地址
                    })
                })
            ],
            view: new View({ //地图视图
                center: [106, 35],
                projection: "EPSG:4326",
                zoom: 5,
                wrapX: true,
            }), //地图设置
            controls: [], //取消地图操作
        });
        return map;
    }
    let mapObj = null;
    window.onload = function () {
        const mapEl = document.querySelector('#map');
        mapObj = initMap(mapEl);
        mapObj.once('postrender', function () {
            addRadarLayer(mapObj)
        })
    }

    function addRadarLayer(map) {
        let url="/data/radar/RADA_CREF_20230728120000_4326.tif"; //雷达图
        // 获取风羽图的配置参数
        const params = getsingleConfig()
        // 获取文本配置参数
        const paramstext = getTextCogtig()
    }

```

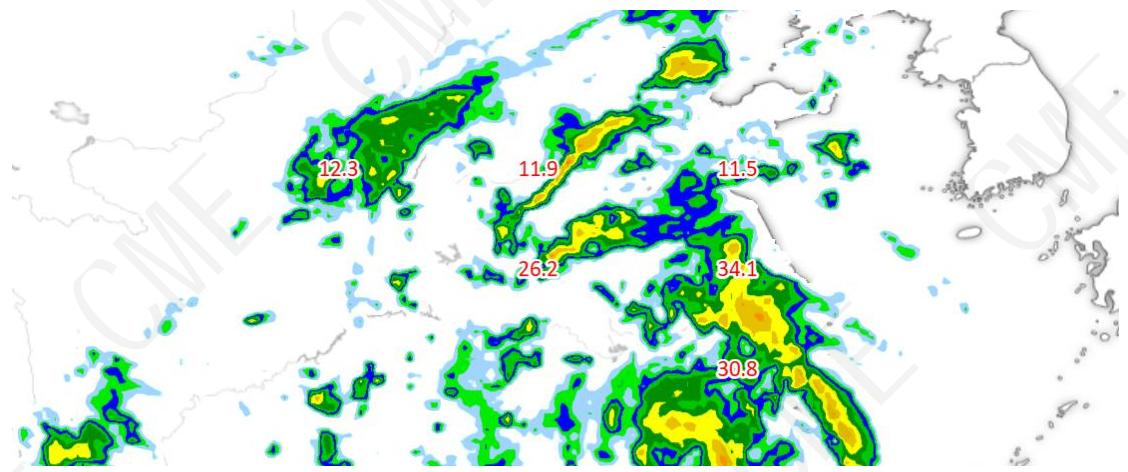
```
// 获取箭头配置参数
// const paramsArrow=getArrowCogtig();
let layers = new blendLayers(map, {
    url: url,
})
//绘制色斑图
layers._render(params).then(object => {
    layers.addCogeoLayer(params).then(layer => {
        map.addLayer(layer)
    })
    // // //绘制网格值
    layers.addTextLayer(paramstext).then(layer => {
        let option = {
            gridLayer: {
                range: {
                    min: 10,
                    max: 20,
                },
            },
        }
        map.addLayer(layer)

    })
})
})
}
function getsingleConfig() {
    let params = {
        layerName: 'cogtifLayer',
        opacity: 1.0,
        interpolation: 'nearest', // 渐变 linear 区间 nearest 网格 grid
        zIndex: 14,
        colors: [
            [0.01, [255, 255, 255, 0]],
            [5.0, [161, 212, 255]],
            [10.0, [0, 236, 0]],
            [15.0, [0, 0, 255]],
            [20.0, [0, 200, 0]],
            [25.0, [0, 141, 0]],
            [30.0, [255, 255, 0]],
            [35.0, [231, 192, 0]],
            [40.0, [252, 144, 0]],
            [45.0, [255, 0, 0]],
            [50.0, [214, 0, 0]],
            [55.0, [192, 0, 0]],
        ]
    }
}
```

```
[60.0, [255, 0, 240]],  
[65.0, [120, 0, 132]],  
[70.0, [173, 144, 240]]  
],  
}  
return params  
}  
function getTextCogtig() {  
let params = {  
layerName: 'textLayer',  
range: {  
min: 10,  
max: 100,  
},  
  
opacity: 1, //透明度  
zIndex: 200, //图层层级  
textStyle: {  
// //文本样式  
style: {  
text: {  
Text: {  
font: '18px Calibri,sans-serif',  
fill: {  
Fill: {  
color: '#ff0000',  
},  
},  
stroke: {  
Stroke: {  
color: '#ffffff',  
width: 4,  
},  
},  
},  
},  
},  
},  
},  
},  
}  
return params  
}  
</script>  
</body>  
</html>
```



b)组件效果



附件 D：数据服务接口标准

1.cogtif 数据获取

1) 获取 cogtif 指定模式的所有资料编码

接口地址	http://ip:port/cmes-base-fileservice/file/v1/manage mode/getCogTifDatacodes				
接口协议	http	调用方式		Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	mode	String	是	资料类型	模式, nafp(模式),surf(地面实况), 选填参数
响应结构 类型	数据实体				
成功返回	<pre>{ "code": 200 "success": true, "data": ["CMA_GFS_FIOCOM_NC_ORIG", "//中国气象局地球系统数值预报中心 CMA-GFS 全球海洋气象数值预报子系统产品 (0.1°)\" CMA_GFS_FIOCOM_NC_SFC\", "//中国气象局地球系统数值预报中心 CMA-GFS 全球海洋气象数值预报子系统产品 (0.1°)\" ECMF_C1D_ANA_ANEA\", "//欧洲中心大气模式确定性预报高分分析产品 (D1D 全球 \ ECMF_C1D_ANA_GLB\", \"//欧洲中心大气模式确定性预报高分分析产品 (D1D 全球 \ ECMF_C1D_FOR_ANEA\", \"//欧洲中心大气模式确定性预报高分分析产品 (D1D 全球 \ ECMF_C1D_FOR_GLB\", \"//欧洲中心大气模式确定性预报高分分析产品 (D1D 全球 \ FTM_GER_ANA_GLB\", \"//德国天气模式全球预报产品 \" FTM_HIGH_C2P_ANA_GLB\", \"//欧洲中心海浪模式确定性预报产品原始文件 (C2P) \ FTM_HIGH_EC_ANA_GLB\", \"//欧洲中心大气模式确定性预报高分辨率产品原始文件 (D1D) \ FTM_HIGH_EC_FOR_GLB\", \"//欧洲中心大气模式确定性预报高分辨率产品原始文件 (D1D) \ \" GRAPESBCGZ_ANA_CHN\", \"//中国华南短临模式 GRAPES_3km 中国华南区域分析产品 \ GRAPESBCGZ_ANA_GD\", \"//中国华南短临模式 GRAPES_3km 中国华南区域分析产品 \ GRAPESBCGZ_ANA_SCN\", \"//中国华南短临模式 GRAPES_3km 中国华南区域分析产品 \ \" GRAPESBCGZ_FOR_CHN\", \"//中国华南短临模式 GRAPES_3km 中国华南区域预报产品 \ GRAPESBCGZ_FOR_GD\", \"//中国华南短临模式 GRAPES_3km 中国华南区域预报产品 \ GRAPESBCGZ_FOR_SCN\", \"//中国华南短临模式</pre>				

	<pre> "GRAPES_3km 中国华南区域预报产品 \"GRAPESBCSH_ANA_CHN\", "GRAPESBCSH_ANA_ECN", "GRAPESBCSH_ANA_SWC", "GRAPESREPS_FTM_ENS_CHN", "//CMA 区域集合预报 \"GRAPESTYM_ANA_ASIV\", //中国气象局台风模式 CMA-TYM 原始文件 (0.09° × 0.09°) \ GRAPESTYM_FOR_ASIV", //中国气象局台风模式 CMA-TYM 原始文件 (0.09° × 0.09°) \ "GRAPES_GFS_ANA,GLB", //GRAPES_GFS 0.25 度原始分辨率产品原始文件 "GRAPES_GFS_FOR,GLB", //GRAPES_GFS 0.25 度原始分辨率产品原始文件 \ GRAPES_MESO_ANA_CHN", //中国气象局区域模式 CMA-MESO 数值预 报产品原始文件 (0.03×0.03) "GRAPES_MESO_FOR_CHN", //中国气象局区域模式 CMA-MESO 数值预报产品原始文件 (0.03×0.03) \ NWFD_SCMOC_ANA_CHN", //中国智能网格国家级格点预报指导产品 (陆面预报产品) \ NWFD_SCMOC_ANA_OCBU", //中国智能网格国家级格点预报指导产品 (陆面预报产品) \ NWFD_SNWFD_ANA_CHN" //中 国智能网格全国格点预报服务产品 (全国 逐时滚动)], "msg": "操作成功" } </pre>
--	--

2) 获取 cogtif 所有的模式

接口地址	http://ip:port/cmes-base-fileservice/file/v1/manage mode/getCogTifModels				
接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	-	-	-	-	-
响应结构 类型	数据实体				
成功返回	<pre> { "code": 200, "success": true "data": ["nafp", //模式 \"rada\", //雷达 \"sate\", //卫星 \"surf\" //地面站"], "msg": "操作成功" } </pre>				

3) 获取 cogtif 指定资料编码的要素

接口地址	http://ip:port/cmes-base-fileservice/file/v1/manage/mode/getCogTifElements				
接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	dataCode	string	是	资料编码	ECMF_ANA,GLB
	member	string	否	元素(非必填)	1
响应结构 类型	数据实体				
成功返回	<pre>{ "code": 200, "success": true, "data": ["TMP", //温度 "WIND", "MSL", "SH", //比湿 "GH", //位势高度 "TMP_2M", //两米温度 "10U", //10米东西风 "10V", //10米南北风 "U", //东西风 "V" //南北风], "msg": "操作成功" }</pre>				

4) 获取 cogtif 指定资料编码的集合预报成员列表

接口地址	http://ip:port/cmes-base-fileservice/file/v1/manage/mode/getCogTifMembers				
接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	dataCode	string	是	资料编码	ECMF_ANA,GLB
响应结构 类型	数据实体				
成功返回	{				

	<pre> "code": 200, "success": true, "data": [-1], "msg": "操作成功" } </pre>
--	--

5) 获取 cogtif 指定资料编码和要素的所有层次类型

接口地址	http://ip:port/cmes-base-filleservice/file/v1/manage/mode/getCogTifLevelTypes				
接口协议	http	调用方式		Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	dataCode	string	是	资料编码	CMA3_MESO_FOR_CH N
	member	string	否	成员集合	
	element	string	否	要素	BLI
响应结构 类型	数据实体				
成功返回	<pre> { "code": 200, "success": true, "data": ["0", //地面或大气底层。通常表示与地表相关的数据，如温度、湿度等 "1", // "100", //海平面。数据值相对于海平面。 "101", //云底高度。表示云的底部高度。 "102", //由地面到云顶的高度。表示大气中云的厚度。 "103", //云顶高度。表示云的顶部高度。 "105", //对流层顶。通常表示对流层的顶部高度。 "106", //等压面。数据值相对于等压面。 "200", //水平层面。 "204", //表示在等压面上的特定压力。 "211" //局地气压面。相对于地面或者海平面的特定气压。], "msg": "操作成功" } </pre>				

6) 获取 cogtif 指定资料编码、要素和指定层次类型的所有高 度层

接口地址	http://ip:port/cmes-base-fileservice/file/v1/manage/mode/getCogTifMembers				
接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	dataCode	string	是	资料编码	CMA_MESO_FOR_CHN
	member	string	否	成员集合	
	element	string	是	要素	GHT
	levelType	string	是	层次类型	100
响应结构 类型	数据实体				
成功返回	<pre>{ "code": 200, "success": true, "data": [100000, 97500, 95000, 92500, 90000, 85000, 80000, 75000, 70000, 65000, 60000, 55000, 50000, 45000, 40000, 35000, 30000, 25000, 20000, 15000, 10000], "msg": "操作成功" }</pre>				

	}
--	---

7) 获取 cogtif 起报时间列表接口

接口地址	http://ip:port/cmes-base-filbservice/file/v1/manage/mode/getCogTifStartTimes				
接口协议	http	调用方式	Get		
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	dataCode	string	是	资料编码	CMA_MESO_FOR_CHN
	member	string	否	成员集合	
	element	string	是	要素	GHT
	levelType	string	是	层次类型	100
	level	string	是	层级	10000
	startTime	string	否	开始时间	20241110230000
	endTime	string	否	结束时间	
响应结构 类型	数据实体				
成功返回	<pre>{ "code": 200, "success": true, "data": ["20241128030000", "20241128000000", "20241127210000", "20241127180000", "20241127150000", "20241127120000", "20241127090000", "20241127060000", "20241127030000", "20241127000000", "20241126210000", "20241126180000", "20241126150000", "20241126120000", "20241126090000", "20241126060000", "20241126030000"] }</pre>				

	<pre> "20241126000000", "20241125210000", "20241125180000", "20241125150000", "20241125120000", "20241125090000", "20241125060000", "20241125030000", "20241125000000", "20241124210000", "20241124180000", "20241124150000", "20241124120000", "20241124090000", "20241124060000", "20241124030000", "20241124000000"], "msg": "操作成功" } </pre>
--	--

8) 获取 cogtif 指定起报时间的预报时间列表接口

接口地址	http://ip:port/cmes-base-fileservice/file/v1/manage/mode/getCogTifForecastTimes				
接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	dataCode	string	是	资料编码	CMA_MESO_FOR_CHN
	member	string	否	成员集合	
	element	string	是	要素	GHT
	levelType	string	是	层次类型	100
	level	string	是	层级	10000
	startTime	string	是	起报时间	20241128030000
响应结构 类型	数据实体				
成功返回	<pre> { "code": 200, "success": true, "data": [</pre>				

	<pre>1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36], "msg": "操作成功" }</pre>
--	---

9) 获取 cogtif 数据接口

注*: 当知道资料编码, 要素, 层次类型, 层级, 起报时间, 预报时次时, 直接调用这个接口, 获取 cogtif

接口地址	http://ip:port/cmes-base-fileservice/file/v1/manage/mode/getCogTiff				
接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	dataCode	string	是	资料编码	CMA_MESO_FOR_CHN
	member	string	否	成员集合	
	element	string	是	要素	GHT
	levelType	string	是	层次类型	100
	level	string	是	层级	10000
	startTime	string	是	起报时间	20241128030000
	forecastTime	string	是	预报时次	1
响应结构 类型	数据实体				
成功返回	<pre>{ "code": 200, "success": true, "data": "http://10.20.64.109/NAFP/CMA_MESO_FOR_CHN/2024/2024-11-28/2411280647 05074244_CMA_MESO_FOR_CHN_GHT_20241128030000_1_100_100000_10-2 0-64-109.tif", "msg": "操作成功" }</pre>				

2. 剖面穿透

1) 获取 tile 起报时间列表接口

接口地址	http://ip:port/cmes-base-iotdb/cmeapi/v1/layer/model/getTileStartTimes				
接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	dataCode	string	是	资料编码	CMA_MESO_FOR_CHN

	member	string	否	成员集合	
	element	string	是	要素	GHT
	levelType	string	是	层次类型	100
	level	string	是	层级	10000
	startDate	string	否	起报时间	20241128030000
	endDate	string	否	预报时次	
响应结构 类型	数据实体				
成功返回	<pre>{ "code": 200, "success": true, "data": ["20241128030000", "20241128000000"], "msg": "操作成功" }</pre>				

2) 获取 tile 指定起报时间的预报时间列表接口

接口地址	http://ip:port/cmes-base-iotdb/cmeapi/v1/layer/model/getTileForecastTimes				
接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	dataCode	string	是	资料编码	CMA_MESO_FOR_CHN
	member	string	否	成员集合	
	element	string	是	要素	GHT
	levelType	string	是	层次类型	100
	level	string	是	层级	10000
	startDate	string	否	起报时间	20241128030000
响应结构 类型	数据实体				
成功返回	<pre>{ "code": 200, "success": true, "data": {</pre>				

	<pre>"level": "10000", "levelType": "100", "member": "", "startTime": "20241128030000", "dataCode": "CMA_MESO_FOR_CHN", "forecastTimes": ["1", "2", "3", "4", "5", "6", "7", "8", "9", "10", "11", "12", "13", "14", "15", "16", "17", "18", "19", "20", "21", "22", "23", "24", "25", "26", "27", "28", "29", "30", "31", "32", "33", "34", "35", "36"], "element": "GHT"</pre>
--	--

	<pre>{ "msg": "操作成功" }</pre>
--	--------------------------------

3)格点起报时间序列的点穿透

接口地址	http://ip:port/cmes-base-iotdb/cmeapi/v1/layer/model/findStartTimeSeriesByPoint				
接口协议	http	调用方式	Get		
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	dataCode	string	是	资料编码	CMA_MESO_FOR_CHN
	member	string	否	成员集合	
	elements	string	是	多要素	GHT,TMP
	levelType	string	是	层次类型	100
	level	string	是	层级	10000
	startTimes	string	是	起报时间, 多个用逗号隔开	20241128000000,20241128030000
	forecastTime	string	是	预报时次	3
	lon	string	是	经度	77
	lat	string	是	维度	12
响应结构 类型	数据实体				
成功返回	<pre>{ "code": 200, "success": true, "data": [{ "GHT": 15934.258, "TMP": 203.5286, "time": "20241128000000" }, { "GHT": 15931.736, "TMP": 203.65654, "time": "20241128030000" }] }</pre>				

	<pre> "msg": "操作成功" } </pre>
--	------------------------------------

4)格点预报时间序列的点穿透

接口地址	http://ip:port/cmes-base-iotdb/cmeapi/v1/layer/model/findForecastTimeSeriesByPoint				
接口协议	http	调用方式	Get		
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	dataCode	string	是	资料编码	CMA_MESO_FOR_CHN
	member	string	否	成员集合	
	elements	string	是	多要素	GHT,TMP
	levelType	string	是	层次类型	100
	level	string	是	层级	10000
	startTime	string	是	起报时间	20241128000000,20241128030000
	forecastTimeS	string	是	预报时间，多个用逗号隔开	1,2,3,4,5,6,7,8,9,10,11,12,13,14
	lon	string	是	经度	94.16609774710412
	lat	string	是	维度	31.399322650538473
响应结构类型	数据实体				
成功返回	<pre> { "code": 200, "success": true, "data": [{ "GHT": 16122.568, "TMP": 210.20438, "time": "20241128040000" }, { "GHT": 16111.177, "TMP": 210.44763, "time": "20241128050000" }, { ... }] } </pre>				

	<pre> "GHT": 16109.536, "TMP": 210.87355, "time": "20241128060000" }, { "GHT": 16112.69, "TMP": 211.0705, "time": "20241128070000" }, { "GHT": 16112.156, "TMP": 210.66888, "time": "20241128080000" }, { "GHT": 16112.326, "TMP": 210.13347, "time": "20241128090000" }, { "GHT": 16120.9795, "TMP": 210.10715, "time": "20241128100000" }, { "GHT": 16116.565, "TMP": 209.66164, "time": "20241128110000" }, { "GHT": 16115.807, "TMP": 209.75803, "time": "20241128120000" }, { "GHT": 16114.264, "TMP": 209.56926, "time": "20241128130000" }, { "GHT": 16115.666, "TMP": 209.75179, "time": "20241128140000" }, </pre>
--	--

	<pre>{ "GHT": 16112.445, "TMP": 209.68076, "time": "20241128150000" }, { "GHT": 16115.45, "TMP": 209.59843, "time": "20241128160000" }, { "GHT": 16114.924, "TMP": 209.87683, "time": "20241128170000" }], "msg": "操作成功" }</pre>
--	---

5)格点的高度层序列的点穿透

接口地址	http://ip:port/cmes-base-iotdb/cmeapi/v1/layer/model/findLevelSeriesByPoint			
接口协议	http	调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍
	dataCode	string	是	资料编码 CMA_MESO_FOR_CHN
	member	string	否	成员集合
	elements	string	是	多要素 GHT,TMP
	levelType	string	是	层次类型 100
	levels	string	是	层级 10000,15000,20000,2500 0,30000,35000,40000,450 0,50000,55000,60000,65 00,70000,75000,80000,8 5000,90000,92500,95000, 97500,100000
	startTime	string	是	起报时间 20241128030000
	forecastTime	string	是	预报时间 3
	lon	string	是	经度 94.16609774710412

	lat	string	是	维度	31.399322650538473
响应结构 类型	数据实体				
成功返回	<pre>{ "code": 200, "success": true, "data": [{ "GHT": 136.60457, "level": "'100000", "TMP": 296.45862 }, { "GHT": 16415.436, "level": "'10000", "TMP": 198.39655 }, { "GHT": 14014.803, "level": "'15000", "TMP": 208.92827 }, { "GHT": 12202.908, "level": "'20000", "TMP": 221.76627 }, { "GHT": 10716.519, "level": "'25000", "TMP": 233.05435 }, { "GHT": 9454.161, "level": "'30000", "TMP": 239.46849 }, { "GHT": 8364.588, "level": "'35000", "TMP": 243.83907 }] }</pre>				

	<pre> "GHT": 7402.6494, "level": "`40000`", "TMP": 248.87482 }, { "GHT": 6536.062, "level": "`45000`", "TMP": 254.03139 }, { "GHT": 5745.725, "level": "`50000`", "TMP": 258.58624 }, { "GHT": 5018.6196, "level": "`55000`", "TMP": 262.76245 }, { "GHT": 4343.9395, "level": "`60000`", "TMP": 266.82346 }, { "GHT": 3713.7546, "level": "`65000`", "TMP": 270.8428 }, { "GHT": 3120.932, "level": "`70000`", "TMP": 275.35693 }, { "GHT": 2559.7373, "level": "`75000`", "TMP": 279.6752 }, { "GHT": 2027.0348, "level": "`80000`", "TMP": 283.31506 }, </pre>
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	<pre>{ "GHT": 1520.6637, "level": ``85000``, "TMP": 286.3395 }, { "GHT": 1037.8706, "level": ``90000``, "TMP": 289.64627 }, { "GHT": 804.2414, "level": ``92500``, "TMP": 291.59097 }, { "GHT": 575.321, "level": ``95000``, "TMP": 293.60715 }, { "GHT": 352.763, "level": ``97500``, "TMP": 295.05334 }], "msg": "操作成功" }</pre>
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6)格点预报时间时间和高度序列的点穿透

接口地址	http://ip:port/cmes-base-iotdb/cmeapi/v1/layer/model/findLevelSeriesByPoint				
接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	dataCode	string	是	资料编码	CMA_MESO_FOR_CHN
	member	string	否	成员集合	
	elements	string	是	多要素	GHT,TMP
	levelType	string	是	层次类型	100
	levels	string	是	多层次	10000,15000,20000,2500

					0,30000,35000,40000,450 00,50000,55000,60000,65 000,70000,75000,80000,8 5000,90000,92500,95000, 97500,100000
	startTime	string	是	起报时间	20241128030000
	forecastTime s	string	是	多预报时 间	1,2,3,4,5,6,7,8,9,10,11,12, 13,14
	lon	string	是	经度	94.166097747104
	lat	string	是	维度	17
响应结构 类型	数据实体				
成功返回	<pre>{ "code": 200, "success": true, "data": { "times": ["20241128040000", "20241128050000", "20241128060000", "20241128070000", "20241128080000", "20241128090000", "20241128100000", "20241128110000", "20241128120000", "20241128130000", "20241128140000", "20241128150000", "20241128160000", "20241128170000"], "data": [[[15914.369, 15911.677, 15908.436, 15905.591, 15910.057, 15912.627, 15913.279,]]] } }</pre>				

	<p>15908.365, 15910.506, 15902.964, 15901.766, 15900.445, 15896.25, 15891.323], [13506.143, 13503.135, 13494.203, 13490.169, 13492.057, 13493.347, 13490.682, 13485.209, 13484.354, 13478.143, 13473.414, 13470.198, 13465.287, 13457.828], [11779.114, 11774.759, 11760.708, 11757.797, 11756.917, 11755.709, 11751.001, 11747.136, 11742.928, 11738.062, 11732.368, 11727.157, 11721.284, 11713.449], [10401.834, 10398.264, 10383.519,</p>
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	<p>10381.724, 10381.401, 10380.0625, 10375.449, 10372.478, 10365.8955, 10360.312, 10354.639, 10349.619, 10343.49, 10337.031], [9232.165, 9229.256, 9214.861, 9213.079, 9212.936, 9211.741, 9207.751, 9205.727, 9199.079, 9193.586, 9187.839, 9183.571, 9177.97, 9172.049], [8201.78, 8200.021, 8186.288, 8184.625, 8184.12, 8182.9736, 8179.1025, 8177.5596, 8171.21, 8165.9, 8160.345, 8156.468, 8151.419, 8145.8467],</p>
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	<pre>[7278.1885, 7277.893, 7264.749, 7263.0366, 7262.189, 7260.796, 7257.186, 7255.8193, 7249.3076, 7243.9023, 7238.151, 7234.3813, 7229.518, 7224.354 , [6440.0815, 6440.704, 6428.062, 6426.509, 6425.2666, 6423.8867, 6420.288, 6419.093, 6412.5205, 6407.0757, 6401.0605, 6397.1377, 6392.5884, 6387.521 , [5670.8213, 5671.9204, 5659.425, 5657.864, 5656.8135, 5655.443, 5652.101, 5651.307, 5645.001, 5640.069, 5634.124,</pre>
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	<p>5630.426, 5626.235, 5621.388], [4960.2607, 4961.3853, 4948.8193, 4947.0615, 4946.2183, 4945.084, 4941.7373, 4941.6514, 4935.855, 4931.684, 4926.344, 4923.05, 4919.3145, 4914.5723], [4302.129, 4303.3916, 4290.53, 4288.497, 4287.669, 4286.389, 4282.8677, 4283.0386, 4277.6484, 4273.9355, 4269.1514, 4266.203, 4262.5693, 4257.9326], [3689.6873, 3690.6538, 3677.7046, 3675.3083, 3674.3403, 3672.6694, 3668.935,</p>
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	<p>3669.084, 3663.6528, 3659.847, 3655.191, 3652.2024, 3648.5264, 3643.9104], [3115.4014, 3115.7764, 3102.702, 3099.8975, 3098.8289, 3096.7156, 3092.777, 3092.7957, 3087.2063, 3083.2017, 3078.3726, 3075.1882, 3071.425, 3066.874], [2573.2275, 2573.0757, 2559.6873, 2556.4915, 2555.2383, 2552.7546, 2548.6729, 2548.5874, 2542.8955, 2538.8535, 2534.003, 2530.9036, 2527.2068, 2522.8489], [2059.38, 2058.9246, 2045.2449,</p>
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	<p>2041.6016, 2040.1133, 2037.4652, 2033.4363, 2033.412, 2027.7156, 2023.7914, 2019.1062, 2016.3801, 2013.0469, 2009.045], [1572.1228, 1571.4691, 1558.0038, 1554.275, 1552.9486, 1550.4694, 1546.5931, 1546.6644, 1541.221, 1537.5864, 1533.1697, 1530.8069, 1527.7723, 1524.0325], [1116.6125, 1115.7646, 1102.3606, 1098.6199, 1097.3992, 1095.1003, 1091.6848, 1092.0573, 1087.0663, 1083.7688, 1079.5005, 1077.4148, 1074.6149, 1071.037],</p>
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	<pre>[900.6171, 898.59, 884.6114, 880.98846, 879.9292, 877.6922, 874.45374, 875.08954, 870.22034, 867.0712, 862.77856, 860.8167, 858.0575, 854.5142 , [689.2578, 686.1242, 671.58093, 668.0697, 667.15845, 664.98627, 661.9295, 662.8155, 658.06085, 655.0609, 650.7356, 648.9023, 646.1836, 642.6777 , [482.34805, 478.12558, 463.03302, 459.62625, 458.87308, 456.76797, 453.87515, 455.00354, 450.37204, 447.51218, 443.1706,</pre>
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	<pre> 441.44745, 438.77277, 435.3069], [279.6905, 274.3887, 258.76456, 255.47124, 254.85902, 252.81729, 250.10304, 251.4675, 246.95319, 244.22615, 239.86226, 238.2436, 235.61919, 232.18037], [201.60538, 202.31963, 202.12555, 202.2455, 202.1319, 202.45348, 202.93015, 202.96564, 203.08003, 203.11726, 203.35478, 203.26375, 203.19644, 203.47682], [204.12158, 204.04173, 204.85327, 204.95026, 205.41444,</pre>
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	<p>205.64214, 205.73395, 205.56677, 205.8607, 205.67801, 205.96913, 206.2885, 206.43874, 206.61037], [207.61964, 207.6701, 207.90027, 207.63423, 207.66669, 207.85114, 208.04306, 207.96315, 208.46228, 208.55515, 208.5479, 208.61743, 208.7243, 208.56622], [214.94283, 214.80872, 214.81735, 214.79025, 214.69362, 214.63878, 214.50203, 214.32677, 214.48022, 214.53326, 214.5547, 214.44464, 214.4016, 214.2281], [224.12607,</p>
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	<p>223.95961, 223.83249, 223.81783, 223.8503, 223.84346, 223.77986, 223.63342, 223.5605, 223.4948, 223.46935, 223.33864, 223.21234, 223.13219], [232.7848, 232.45636, 232.29906, 232.28566, 232.38017, 232.4033, 232.36716, 232.28967, 232.28957, 232.27083, 232.28404, 232.23685, 232.14465, 232.06062], [239.98491, 239.64104, 239.5068, 239.48692, 239.59074, 239.64137, 239.61192, 239.56866, 239.63039, 239.6647, 239.75241, 239.78479, 239.71465,</p>
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	<pre> 239.65239], [246.5136, 246.30716, 246.2004, 246.1615, 246.18008, 246.18971, 246.15935, 246.06451, 246.04764, 245.98706, 246.02602, 246.02611, 245.93155, 245.88707], [252.47116, 252.387, 252.39124, 252.40787, 252.32631, 252.24957, 252.19316, 251.98807, 251.81125, 251.58879, 251.43564, 251.30128, 251.1532, 251.10097], [256.89032, 256.8499, 256.94345, 257.0393, 256.99316, 256.97055, 256.9943, 256.8049, 256.60168,</pre>
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	<p>256.34494, 256.08023, 255.90366, 255.78285, 255.73218], [260.01517, 260.04282, 260.08847, 260.25946, 260.30527, 260.42606, 260.50403, 260.4574, 260.39163, 260.285, 260.14633, 260.08057, 260.05692, 260.04675], [263.04626, 263.27338, 263.2828, 263.45914, 263.50168, 263.71796, 263.79486, 263.84586, 263.90863, 263.9818, 264.04413, 264.12183, 264.1628, 264.15988], [266.53268, 266.8345, 266.93494, 267.11755, 267.18442,</p>
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	<p>267.39755, 267.50162, 267.575, 267.65543, 267.73288, 267.81732, 267.8677, 267.88943, 267.8312], [270.18347, 270.40567, 270.6002, 270.83362, 270.97824, 271.14145, 271.1961, 271.214, 271.2574, 271.2348, 271.17566, 271.01276, 270.86285, 270.69693], [273.5291, 273.61496, 273.66107, 273.86804, 273.91962, 273.94937, 273.878, 273.81543, 273.80637, 273.71066, 273.55743, 273.34006, 273.13293, 272.93793], [274.67944,</p>
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	<p>274.59225, 274.3525, 274.1882, 273.9024, 273.67664, 273.49695, 273.43024, 273.10693, 272.90314, 272.74503, 272.59213, 272.45255, 272.39838], [268.49744, 269.90738, 270.62427, 270.48694, 270.3051, 270.22055, 269.99216, 269.6752, 269.5242, 269.34555, 269.38748, 269.24356, 269.19556, 269.15698], [269.90176, 271.3197, 272.03897, 271.90176, 271.71793, 271.63394, 271.40417, 271.08554, 270.93362, 270.75394, 270.7957, 270.65167, 270.60318,</p>
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	<pre> 270.56494], [271.27563, 272.70084, 273.42416, 273.2859, 273.1015, 273.01596, 272.7853, 272.4647, 272.3125, 272.1317, 272.17392, 272.02963, 271.9805, 271.94125], [272.62036, 274.05264, 274.77936, 274.63995, 274.45468, 274.36948, 274.1374, 273.8155, 273.66263, 273.48114, 273.52338, 273.37787, 273.32907, 273.28888], [273.93784, 275.37674, 276.10764, 275.96777, 275.78094, 275.69507, 275.46286, 275.13873, 274.98563,</pre>
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	<pre> 274.8023, 274.8449, 274.69882, 274.6498, 274.60956]], "elements": ["GHT", "TMP"], "levels": [``10000``, ``15000``, ``20000``, ``25000``, ``30000``, ``35000``, ``40000``, ``45000``, ``50000``, ``55000``, ``60000``, ``65000``, ``70000``, ``75000``, ``80000``, ``85000``, ``90000``, ``92500``, ``95000``, ``97500``, ``100000``] }, "msg": "操作成功" } </pre>
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7)格点起报时间和高度序列的点穿透

接口地址	http://ip:port/cmes-base-iotdb/cmeapi/v1/layer/model/findStartTimeAndHeightSeries ByPoint
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接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	dataCode	string	是	资料编码	CMA_MESO_FOR_CHN
	member	string	否	成员集合	
	elements	string	是	多要素	GHT,TMP
	levelType	string	是	层次类型	100
	levels	string	是	多层级	10000,15000,20000,2500 0,30000,35000,40000,450 00,50000,55000,60000,65 000,70000,75000,80000,8 5000,90000,92500,95000, 97500,100000
	startTimes	string	是	多起报时间	20241128000000,202411 28030000
	forecastTime	string	是	预报时间	5
	lon	string	是	经度	94.166097747104
	lat	string	是	维度	17
响应结构类型	数据实体				
成功返回	<pre>{ "code": 200, "success": true, "data": { "times": ["20241128050000", "20241128080000"], "data": [[[15924.088, 15930.356], [13511.797, 13517.356], [11791.936, 11808.208]]] } }</pre>				

	<pre> 11795.617], [10420.193, 10418.302], [9251.515, 9247.035], [8223.877, 8218.721], [7300.59, 7295.289], [6459.2314, 6454.0664], [5686.613, 5682.3135], [4974.757, 4970.618], [4314.913, 4310.299], [3699.0613, 3693.9104], [3121.767, 3115.9287], [2578.7324,</pre>
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	<pre> 2572.3484], [2070.665, 2064.2334], [1600.3638, 1593.7186], [1160.2969, 1152.9891], [949.2375, 941.0192], [742.4828, 733.4984], [540.06836, 530.33307], [341.81595, 331.33902]], [[202.72816, 203.13089], [203.74425, 202.96243], [206.44206, 207.42769], </pre>
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	<pre>[214.62225, 215.32362 , [223.77432, 223.9203 , [232.22316, 232.35017 , [240.48042, 240.48775 , [247.70328, 247.57707 , [253.26755, 252.94832 , [257.2511, 257.41617 , [261.1227, 261.3733 , [264.61237, 264.90167 , [267.65472, 268.04242 , [269.84988, 269.96924 ,</pre>
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    "``20000``",  
    "``25000``",  
    "``30000``",  
    "``35000``",  
    "``40000``",  
    "``45000``",  
    "``50000``",
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	<pre> "55000", "60000", "65000", "70000", "75000", "80000", "85000", "90000", "92500", "95000", "97500", "100000"], }, "msg": "操作成功" } </pre>
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8)格点高度序列的线穿透

接口地址	http://ip:port/cmes-base-iotdb/cmeapi/v1/layer/model/findLevelSeriesByLine				
接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	dataCode	string	是	资料编码	CMA_MESO_FOR_CHN
	member	string	否	成员集合	
	elements	string	是	多要素	GHT,TMP
	levelType	string	是	层次类型	100
	levels	string	是	多层级	10000,15000,20000,2500 0,30000,35000,40000,450 0,50000,55000,60000,65 00,70000,75000,80000,8 5000,90000,92500,95000, 97500,100000
	startTime	string	是	起报时间	20241128030000
	forecastTime	string	是	预报时间	3
	geo	string	是	经度	LINESTRING (72 13, 100 30, 113 47)
	num	integer	是	维度	2

	sp	integer	否	是否返回地形剖切，0不返回，1返回	0
响应结构类型	数据实体				
成功返回	<pre>{ "code": 200, "success": true, "data": { "times": ["20241128050000", "20241128080000"], "data": [[[15924.088, 15930.356], [13511.797, 13517.356], [11791.936, 11795.617], [10420.193, 10418.302], [9251.515, 9247.035], [8223.877, 8218.721], [7300.59, 7295.289], [6377.367, 6373.035]]] } }</pre>				

	<pre>[6459.2314, 6454.0664 , [5686.613, 5682.3135 , [4974.757, 4970.618 , [4314.913, 4310.299 , [3699.0613, 3693.9104 , [3121.767, 3115.9287 , [2578.7324, 2572.3484 , [2070.665, 2064.2334 , [1600.3638, 1593.7186 , [1160.2969, 1152.9891 , [949.2375, 941.0192 ,</pre>
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	<pre>[742.4828, 733.4984 , [540.06836, 530.33307 , [341.81595, 331.33902 , [202.72816, 203.13089 , [203.74425, 202.96243 , [206.44206, 207.42769 , [214.62225, 215.32362 , [223.77432, 223.9203 , [232.22316, 232.35017 , [240.48042, 240.48775 , [247.70328,</pre>
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	<pre> 247.57707], [253.26755, 252.94832], [257.2511, 257.41617], [261.1227, 261.3733], [264.61237, 264.90167], [267.65472, 268.04242], [269.84988, 269.96924], [267.04633, 267.01562], [263.3407, 263.7204], [262.58752, 263.6971], [263.84155, 264.87595], [265.40195,</pre>
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	<pre> 266.3795], [266.71732, 267.69968], [268.00623, 268.99295]], "elements": ["GHT", "TMP"], "levels": [``10000``, ``15000``, ``20000``, ``25000``, ``30000``, ``35000``, ``40000``, ``45000``, ``50000``, ``55000``, ``60000``, ``65000``, ``70000``, ``75000``, ``80000``, ``85000``, ``90000``, ``92500``, ``95000``, ``97500``, ``100000``] }, "msg": "操作成功" }</pre>
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9)格点开始时间序列的线穿透

接口地址	http://ip:port/cmes-base-iotdb/cmeapi/v1/layer/model/findStartTimeSeriesByLine				
接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	dataCode	string	是	资料编码	CMA_MESO_FOR_CHN
	member	string	否	成员集合	
	elements	string	是	多要素	GHT,TMP
	levelType	string	是	层次类型	100
	level	string	是	层级	10000
	startTimes	string	是	多起报时间	20241128000000,20241128030000
	forecastTime	string	是	预报时间	3
	geo	string	是	经度	LINESTRING (72 13, 100 30, 113 47)
	num	integer	是	维度	1.2
响应结构 类型	数据实体				
成功返回	<pre>{ "code": 200, "success": true, "data": { "geos": ["POINT(72.0 13.0)", "POINT(73.02574501826608 13.622773761090118)", "POINT(74.05149003653216 14.245547522180235)", "POINT(75.07723505479824 14.868321283270353)", "POINT(76.10298007306432 15.49109504436047)", "POINT(77.1287250913304 16.113868805450586)", "POINT(78.15447010959647 16.736642566540702)", "POINT(79.18021512786255 17.359416327630818)", "POINT(80.20596014612863 17.982190088720934)", "POINT(81.23170516439471 18.60496384981105)", "POINT(82.25745018266079 19.22773761090117)", "POINT(83.28319520092687 19.85051137199129)", "POINT(84.30894021919295 20.473285133081408)", "POINT(85.33468523745903 21.096058894171527)", "POINT(86.3604302557251 21.718832655261647)", "POINT(87.38617527399119 22.341606416351766)"] } }</pre>				

	<pre>"POINT(88.41192029225726 22.964380177441885)", "POINT(89.43766531052334 23.587153938532005)", "POINT(90.46341032878942 24.209927699622124)", "POINT(91.4891553470555 24.832701460712244)", "POINT(92.51490036532158 25.455475221802363)", "POINT(93.54064538358766 26.078248982892482)", "POINT(94.56639040185374 26.701022743982602)", "POINT(95.59213542011982 27.32379650507272)", "POINT(96.6178804383859 27.94657026616284)", "POINT(97.64362545665196 28.569344027252964)", "POINT(98.66937047491804 29.192117788343083)", "POINT(99.6951154931841 29.814891549433206)", "POINT(100.51227560934879 30.669898873763806)", "POINT(101.24121573843375 31.62312827333644)", "POINT(101.97015586751871 32.576357672909076)", "POINT(102.69909599660367 33.52958707248171)", "POINT(103.42803612568864 34.482816472054346)", "POINT(104.1569762547736 35.43604587162698)", "POINT(104.88591638385856 36.389275271199615)", "POINT(105.61485651294352 37.34250467077225)", "POINT(106.34379664202848 38.295734070344885)", "POINT(107.07273677111343 39.24896346991752)", "POINT(107.80167690019839 40.202192869490155)", "POINT(108.53061702928333 41.15542226906279)", "POINT(109.25955715836828 42.108651668635424)", "POINT(109.98849728745324 43.06188106820806)", "POINT(110.71743741653819 44.015110467780694)", "POINT(111.44637754562315 44.96833986735333)", "POINT(112.1753176747081 45.92156926692597)", "POINT(112.90425780379306 46.874798666498606)", "POINT(113.0 47.0)"], "times": ["20241128000000", "20241128030000"], "data": [[[16505.158, 16529.059, 16370.058, 16402.059, 16443.457,</pre>
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10)格点预报时间序列的线穿透

接口地址	http://ip:port/cmes-base-iotdb/cmeapi/v1/layer/model/findForecastTimeSeriesByLine				
接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	dataCode	string	是	资料编码	CMA_MESO_FOR_CHN
	member	string	否	成员集合	
	elements	string	是	多要素	GHT,TMP
	levelType	string	是	层次类型	100
	level	string	是	层级	10000
	startTime	string	是	起报时间	20241128030000
	forecastTime	string	是	多预报时	3

	s		间	
	geo	string	是	经度 LINESTRING (81 13, 102 30, 113 47)
	num	integer	是	维度 0.2
响应结构 类型	数据实体			
成功返回	<pre>{ "code": 200, "success": true, "data": { "geos": ["POINT(81.0 13.0)", "POINT(83.48718358626395 15.013434331737486)", "POINT(85.9743671725279 17.02686866347497)", "POINT(88.46155075879186 19.040302995212457)", "POINT(90.94873434505581 21.053737326949943)", "POINT(93.43591793131976 23.06717165868743)", "POINT(95.92310151758372 25.080605990424914)", "POINT(98.41028510384767 27.0940403221624)", "POINT(100.89746869011162 29.107474653899885)", "POINT(102.96779553946713 31.49568401554011)", "POINT(104.7061996295704 34.18230851842699)", "POINT(106.44460371967368 36.86893302131388)", "POINT(108.18300780977695 39.555557524200765)", "POINT(109.92141189988024 42.242182027087644)", "POINT(111.65981598998351 44.92880652997453)", "POINT(113.0 47.0)"], "times": ["20241128040000", "20241128050000", "20241128060000", "20241128070000", "20241128080000", "20241128090000", "20241128100000", "20241128110000", "20241128120000", "20241128130000", "20241128140000", "20241128150000", "20241128160000", "20241128170000"] } }</pre>			

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	<p>194.23637, 197.20638, 194.53038, 195.90837, 197.31137, 193.73238, 194.52838, 197.38338, 199.05338, 196.93338</p> <p>], [200.46562, 204.21562, 200.90863, 204.65163, 200.67262, 203.97963, 199.87863, 203.06563, 200.05362, 201.59363, 204.55063, 199.47162, 201.22162, 203.08263, 205.14163, 202.19063</p> <p>], [207.14955, 209.16055, 206.80655, 208.99855, 206.65355, 207.86554, 207.23454, 209.33655, 204.96754, 207.95555, 207.70454, 206.07655, 207.64655, 209.12454,</p>
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11)格点体裁切

接口地址	http://ip:port/cmes-base-iotdb/cmeapi/v1/layer/model/findDataByExtent			
接口协议	http		调用方式	Get
参数列表	参数名称	参数类型	是否必须	参数介绍
	dataCode	string	是	资料编码 CMA_MESO_FOR_CHN

	member	string	否	成员集合	
	elements	string	是	多要素	GHT
	levelType	string	是	层次类型	100
	level	string	是	层级	10000
	startTime	string	是	起报时间	20241128030000
	forecastTime	string	是	预报时间	3
	extent	string	是	extent的四点坐标(x经度(min),y纬度(min),x经度(max),y纬度(max))	75,13,78,20
	format	string	是	格式	json
响应结构 类型	数据实体				
成功返回	<pre>{ "code": 200, "success": true, "data": { "geos": [["POINT(75.0 20.0)", "POINT(75.03 20.0)", "POINT(75.06 20.0)", "POINT(75.09 20.0)", "POINT(75.12 20.0)", "POINT(75.15 20.0)", "POINT(75.18 20.0)", "POINT(75.21 20.0)", "POINT(75.24 20.0)", "POINT(75.27 20.0)", "POINT(75.3 20.0)", "POINT(75.33 20.0)", "POINT(75.36 20.0)", "POINT(75.39 20.0)", "POINT(75.42 20.0)", "POINT(75.45 20.0)", "POINT(75.48 20.0)", "POINT(75.51 20.0)", "POINT(75.54 20.0)", "POINT(75.57 20.0)", "POINT(75.6 20.0)", "POINT(75.63 20.0)", "POINT(75.66 20.0)", "POINT(75.69 20.0)", "POINT(75.72 20.0)", "POINT(75.75 20.0)", "POINT(75.78 20.0)", "POINT(75.81 20.0)", "POINT(75.84 20.0)", "POINT(75.87 20.0)", "POINT(75.9 20.0)", "POINT(75.93 20.0)", "POINT(75.96 20.0)", "POINT(75.99 20.0)", "POINT(76.02 20.0)", "POINT(76.05 20.0)", "POINT(76.08 20.0)", "POINT(76.11 20.0)", "POINT(76.14 20.0)", "POINT(76.17 20.0)", "POINT(76.2 20.0)", "POINT(76.23 20.0)", "POINT(76.26 20.0)", "POINT(76.29 20.0)", "POINT(76.32 20.0)", "POINT(76.35 20.0)", "POINT(76.38 20.0)", "POINT(76.41 20.0)", "POINT(76.44 20.0)", "POINT(76.47 20.0)", "POINT(76.5 20.0)", "POINT(76.53 20.0)", "POINT(76.56 20.0)", "POINT(76.59 20.0)", "POINT(76.62 20.0)", "POINT(76.65 20.0)", "POINT(76.68 20.0)", "POINT(76.71 20.0)", "POINT(76.74 20.0)", "POINT(76.77 20.0)", "POINT(76.8 20.0)", "POINT(76.83 20.0)", "POINT(76.86 20.0)", "POINT(76.89 20.0)", "POINT(76.92 20.0)", "POINT(76.95 20.0)"]] } }</pre>				


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    "level" : [ ``10000`` ]
},
"msg" : "操作成功"
}
```

3. 雷达数据解析

1) 获取所有雷达站点

接口地址	http://ip:port/cmes-base-radaranalysis/cmeapi/v1/radar-analysis/getStation				
接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
响应结构 类型	数据实体				

成功返回	{ "code": 200, "success": true, "data": [{ "stationId": "Z9851", "stationName": "贵阳", "city": "贵阳市", "province": "贵州省", "lon": "106.7278", "lat": "26.5889", "height": "1220.9", "dualPolarization": false, "band": "C" }, { "stationId": "Z9856", "stationName": "铜仁", "city": "铜仁市", "province": "贵州省", "lon": "109.2175", "lat": "27.8222", "height": "757.6", "dualPolarization": false, "band": "C" }, { "stationId": "Z9451", "stationName": "哈尔滨国家", "city": "哈尔滨市", "province": "黑龙江省", "lon": "127.2422", "lat": "45.9808", "height": "167", "dualPolarization": false, "band": "C" }], "msg": "操作成功" }
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2) 获取雷达数据时间列表

接口地址	http://ip:port/cmes-base-radaranalysis/cmeapi/v1/radar-analysis/getTimeList				
接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	stationTime	string	否	站点时间 格式: yyyyMMd dHH	
	stationId	string	否	产品	Z9851
	pageNo	string	是	页码	1
	pageSize	string	是	页数	10
响应结构 类型	数据实体				
成功返回	<pre>{ "code": 200, "success": true, "data": { "records": [{ "stationId": "Z9851", "time": "20241128121232", "fileName": "Z_RADR_I_Z9851_20241128121232_O_DOR_SAD_CAP_FMT.bin.bz2" }, { "stationId": "Z9851", "time": "20241128113005", "fileName": "Z_RADR_I_Z9851_20241128113005_O_DOR_SAD_CAP_FMT.bin.bz2" }, { "stationId": "Z9851", "time": "20241128112447", "fileName": "Z_RADR_I_Z9851_20241128112447_O_DOR_SAD_CAP_FMT.bin.bz2" }, { "stationId": "Z9851", "time": "20241128104220", "fileName": "Z_RADR_I_Z9851_20241128104220_O_DOR_SAD_CAP_FMT.bin.bz2" }] } }</pre>				

	<pre> "Z_RADR_I_Z9851_20241128104220_O_DOR_SAD_CAP_FMT.bin.bz2" }, { "stationId": "Z9851", "time": "20241128095435", "fileName": "Z_RADR_I_Z9851_20241128095435_O_DOR_SAD_CAP_FMT.bin.bz2" }, { "stationId": "Z9851", "time": "20241128091209", "fileName": "Z_RADR_I_Z9851_20241128091209_O_DOR_SAD_CAP_FMT.bin.bz2" }, { "stationId": "Z9851", "time": "20241128082424", "fileName": "Z_RADR_I_Z9851_20241128082424_O_DOR_SAD_CAP_FMT.bin.bz2" }, { "stationId": "Z9851", "time": "20241128073639", "fileName": "Z_RADR_I_Z9851_20241128073639_O_DOR_SAD_CAP_FMT.bin.bz2" }, { "stationId": "Z9851", "time": "20241128065412", "fileName": "Z_RADR_I_Z9851_20241128065412_O_DOR_SAD_CAP_FMT.bin.bz2" }, { "stationId": "Z9851", "time": "20241128060628", "fileName": "Z_RADR_I_Z9851_20241128060628_O_DOR_SAD_CAP_FMT.bin.bz2" }], "total": 99 }, "msg": "操作成功" } </pre>
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3) 获取雷达产品

接口地址	http://ip:port/cmes-base-radaranalysis/cmeapi/v1/radar-analysis/getProductList				
接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	fileName	string	否	文件名	Z_RADR_I_Z9851_2024 1128121232_O_DOR_SA D_CAP_FMT.bin.bz2
	time	string	否	时间	20241128121232
	stationId	string	是	站点 id	Z9851
响应结构 类型	数据实体				
成功返回	<pre>{ "code": 200, "success": true, "data": [{ "id": 1, "name": "dBТ" }, { "id": 2, "name": "dBZ" }, { "id": 3, "name": "V" }, { "id": 4, "name": "W" }, { "id": 7, "name": "ZDR" }, { "id": 9, "name": "CC" }] }</pre>				

	<pre> "id": 10, "name": "DP" }, { "id": 11, "name": "KDP" }], "msg": "操作成功" } } </pre>
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4)根据雷达产品获取仰角层

接口地址	http://ip:port/cmes-base-radaranalysis/cmeapi/v1/radar-analysis/getEleList				
接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	fileName	string	否	文件名	Z_RADR_I_Z9851_2024 1128121232_O_DOR_SA D_CAP_FMT.bin.bz2
	time	string	否	时间	20241128121232
	stationId	string	是	站点 id	Z9851
	productId	string	是	产品 id	1
响应结构 类型	数据实体				
成功返回	<pre> { "code": 200, "success": true, "data": [0.5, 1.5, 2.4, 3.4, 4.3, 6.0, 9.9, 14.6, 19.5], "msg": "操作成功" } </pre>				

5) 解析雷达数据

接口地址	http://ip:port/cmes-base-radaranalysis/cmeapi/v1/radar-analysis/parse/data				
接口协议	http		调用方式	Get	
参数列表	参数名称	参数类型	是否必须	参数介绍	示例
	fileName	string	否	文件名	Z_RADR_I_Z9851_20241128121232_O_DOR_SA D_CAP_FMT.bin.bz2
	time	string	否	时间	20241128121232
	stationId	string	是	站点 id	Z9851
	productId	string	是	产品 id	1
	layerIndex	string	是	层次	
响应结构类型	数据实体				
成功返回	..\Downloads\Z_RADR_I_Z9851_20241128121232_O_DOR_SA D_CAP_FMT.bin				

附件 E：数据服务接口标准

1. 资料清单

资料大类	资料名称	资料编码
地面资料	CMPAS 中国逐小时降水实时产品	CMPAS_1KM_RT_ANA_CHN
	CMPAS 中国逐小时降水相态实时产品	CMPAS_1KM_RT_ANA_CHN
	CMPAS 产品-逐 10 分钟 累计降水量产品 (5km)	CMPA_5KM_A10MIN_FOR_CHN
	CMPAS 产品-逐 10 分钟降水产品 (5km)	CMPA_5KM_10MIN_FOR_CHN
模式资料	中国逐小时极大风实时产品	NAFP_HRCLDAS_1KM_RT_GUST_ANA_CHN
	HRCLDAS 中国逐小时温湿风实时产品	HRCLDAS_1KM_RT_ANA_CHN
	CODAS 全球 0.25° x0.25” 逐日海冰密集度融合实况分析产品	OCEN_CODAS_GLB_0P25
	智能网格强对流客观短时站点确定性预报产品	NWFD_SCMOC_FOR_CHN
	中国智能网格国家级格点预报指导产品 (海区预报产品)	NWFD_SCMOC_OCBU_FOR_CHN
	全球 10km/3h 有效波	ART_INTERIM_ANA_GLB

	高多源融合实况分析产品（V1.0）	
	中国智能网格全国格点预报服务产品（全国逐时滚动）	NAFP_NWFD_FOR_CH
	智能网格省级格点预报订正产品	NWFD_SPCC_ANA_BCCD
	GRAPES_GFS 0.25 度原始分辨率产品原始文件	CMA_GFS_ANA_GLB CMA_GFS_FOR_GLB
	中国气象局地球系统数值预报中心 CMA-GFS 全球海洋气象数值预报子系统产品（0.1°）	CEMC_CMA_GFS_FIOCOM_ANA_ORIG CEMC_CMA_GFS_FIOCOM_FOR_ORIG CEMC_CMA_GFS_FIOCOM_ANA_SFC CEMC_CMA_GFS_FIOCOM_FOR_SFC
	中国气象局地球系统数值预报中心 CMA-GFS 海浪子系统预报产品	CMA_GFS_SWW3_FOR_GLB CMA_GFS_SWW3_ANA_GLB
	中国气象局区域模式 CMA-MESO 数值预报产品原始文件（0.03 × 0.03）	CMA_MESO_FOR_CHN CMA_MESO_ANA_CHN
	中国气象局台风模式 CMA-TYM 原始文件（0.09° × 0.09°）	CMA_TYM_ANAASI、 CMA_TYM_FORASI
	中国气象局区域集合模式 CMA-REPS 产品原始文件-集合预报	NAFP_CMAREPS_0P10_ENS_CHN

	欧洲中心大气模式集合预报产品原始文件（C3E）	ECMWF_C3E_ENSEMBLE_ENS_ASI ECMWF_C3E_ENSEMBLE_ENS_GLB
	欧洲中心大气模式确定性预报高分辨率产品原始文件（D1D）	ECMWF_D1D_ANA_GLB ECMWF_D1D_FOR_GLB
	欧洲中心大气模式确定性预报高分分析产品（C1D 全球）	ECMWF_C1D_ANA_ANEA ECMWF_C1D_ANA_GLB ECMWF_C1D_FOR_ANEA ECMWF_C1D_FOR_GLB
	欧洲中心大气模式集合预报派生产品原始文件（C3Y）	ECMWF_C3Y_ENSEMBLE_FOR_GLB
	欧洲中心海浪模式确定性预报产品原始文件（C2P）	ECMWF_C2P_ENSEMBLE_ANA_GLB ECMWF_C2P_ENSEMBLE_FOR_GLB
	欧洲中心海浪模式确定性预报产品原始文件（D2P）	ECMWF_D2P_ENSEMBLE_ANA_GLB ECMWF_D2P_ENSEMBLE_FOR_GLB
	欧洲中心海浪模式集合预报产品（C4U）	ECMWF_C4U_ENSEMBLE_FOR_GLB ECMWF_C4U_ENSEMBLE_ANA_GLB
	美国 GFS 全球预报系统产品(原始文件 0.25 × 0.25)	NCEP_GFS_0P25_ANA_GLB NCEP_GFS_0P25_FOR_GLB
	美国 NCEP 全球实时海洋预报系统（RTOFS）产品	NCEP_RTOFS_KWBC_FOR_GLB
	美国 NCEP 全球集合预报系统产品（0.5 ×	NCEP_GFS_0P50_ENS_GLB

	0.5)	
全球表面实况分析-逐3小时产品	NAFP_ART_SFC_GLB_3HOR_PROD	
全球表面实况分析-逐日产品	NAFP_ART_SFC_GLB_DAY_PROD	
全球表面实况分析-逐月产品	NAFP_ART_SFC_GLB_MONTH_PROD	
全球大气实况分析-逐6小时产品	NAFP_ART_ATM_GLB_6HOR_PROD	
全球大气实况分析-逐日产品	NAFP_ART_ATM_GLB_DAY_PROD	
全球大气实况分析-逐月产品	NAFP_ART_ATM_GLB_MONTH_PROD	
中国第一代全球大气再分析-逐6小时产品	NAFP_CRA_CRA40_6HOUR_ANA_GLB	
中国第一代全球大气再分析-逐日产品	NAFP_CRA_CRA40_DAY_ANA_GLB	
中国第一代全球大气再分析-逐日产品	NAFP_CRA_CRA40_DAY_ANA_GLB	
中国第一代全球大气再分析-逐月产品	NAFP_CRA_CRA40_MON_ANA_GLB	
中国第一代全球陆面再分析-逐3小时产品	NAFP_CRA_CRA40LAND_3HOUR_ANA_GLB	
中国第一代全球陆面再分析-逐日产品	NAFP_CRA_CRA41LAND_DAY_ANA_GLB	
中国第一代全球陆面再分析-逐月产品	NAFP_CRA_CRA42LAND_MON_ANA_GLB	
中国华东区域模式-中国区域预报产品	GRAPESBCSH_FOR_CHN GRAPESBCSH_FOR_ECN	

		GRAPESBCSH_FOR_SWC
	中国华南短临模式 GRAPES_3km 中国 华南区域预报产品	GRAPESBCGZ_FOR_CHN GRAPESBCGZ_FOR_GD GRAPESBCGZ_FOR_SCN
	中国华南短临模式 GRAPES_3km 中国 华南区域分析产品	GRAPESBCGZ_ANA_CHN GRAPESBCGZ_ANA_GD GRAPESBCGZ_ANA_SCN
	德国天气模式全球预 报产品	FTM_GER_FOR_GLB
	全球逐日海冰密集度 融合 CODAS 实况分 析产品（0.25×0.25）	OCEN_CODAS_GLB_0P25
雷达	天气雷达拼图系统 V3.0 组网组合反射率 产品	RADA_L3_MST_CREF_QC
	天气雷达拼图系统 V3.0 组网三维反射率 因子产品	RADA_L3_MST_PRE_3REF_QC
	天气雷达拼图系统 V3.0 组网回波顶高产 品	RADA_L3_MST_ECHO_TOP_QC
	天气雷达拼图系统 V3.0 组网液态垂直累 积含水量产品	RADA_L3_MST_WATER_CTAI_N_QC
	天气雷达拼图系统 V3.0 单站混合扫描反 射率产品	RADA_L3_ST_PD_REF_QC
	天气雷达拼图系统 V3.0 单站回波顶高产	RADA_L3_ST_PD_ECHO_TOP_QC

	品	
	天气雷达拼图系统 V3.0 单站 1 小时降水 估测产品	RADA_L3_ST_PD_PRE_1H_QC
	天气雷达拼图系统 V3.0 单站三维反射率 因子产品	RADA_L3_ST_PD_3REF_QC
	天气雷达拼图系统 V3.0 单站雨强产品	RADA_L3_ST_PD_RZ_QC
	天气雷达拼图系统 V3.0 单站液态垂直累 积含水量产品	RADA_L3_ST_PD_WATER_CTAI_N_QC
	天气雷达拼图系统 V3.0 质量控制后天气 雷达基数据	RADA_L3_ST_PD_BASE_QC
卫星	成像仪全圆盘 1KML1 数据	NSMC_FY4B_AGRI_L1_GLB
	水汽 1 通道云导风产 品(全圆盘/标称)	NSMC_FY4B_AGRI_L1_GLB
	水汽 2 通道云导风产 品(全圆盘/标称)	NSMC_FY4B_AGRI_L1_GLB
	水汽($7.42 \mu m$)云导风 产品(全圆盘)	NSMC_FY4B_AGRI_L1_GLB
	红外云导风产品(全圆 盘/标称)	NSMC_FY4B_AGRI_L1_GLB
	云顶高度实时产品(全 圆盘/标称)	NSMC_FY4B_AGRI_L1_GLB
	FY-3D 微波成像仪 L1 数据(升/降轨)	SATE_ORB_1LEVEL_F3D

MWRI 海面风速轨道产品(升/降轨)	SATE_FY3D_MERSI_GBAL_L3_5000M
MWRI 海面风速日产品(全球)	SATE_FY3D_MERSI_GBAL_L3_5000M
MWRI 海面风速旬产品	SATE_FY3D_MERSI_GBAL_L3_5000M
MWRI 海面风速月产品	SATE_FY3D_MERSI_GBAL_L3_5000M
TSHS 大气温湿度廓线/稳定性指数/位势高度产品	SATE_YX_2LEVEL_F3D
FY-3D 微波温度计 L1 数据	SATE_ORB_1LEVEL_F3D
WindRAD 海面风矢量轨道产品(升/降轨)	SATE_NSNC_FY3E_WRAD_L2L3_ORG
GNOS 海面风速产品	SATE_NSNC_FY3E_GNOS_L2L3_ORG
MULSS 海温融合日产品	SATE_FY3F_MULSS_L2_GLB_MUP
MWRI 海面风速轨道产品(升/降轨)	SATE_NSNC_FY3G_MWRI_L2_ORG
MWRI 海面风速日产品(全球)	SATE_NSNC_FY3G_MWRI_L2_ORG
PMR 降水率轨道产品(升/降轨)	SATE_FY3G_PMR_L2_GLB_MUP
成像仪全圆盘 500ML1 数据	SATE_HIMAWARI_H09_FLDK_NC
成像仪全圆盘 1000ML1 数据	SATE_HIMAWARI_H09_FLDK_NC
短波红外 2000M(1.6)	SATE_HIMAWARI_H09_FLDK_HSD

	微米)	
短波红外 2000M(2.3 微米)	SATE_HIMAWARI_H10_FLDK_HSD	
短波红外 2000M(3.9 微米)	SATE_HIMAWARI_H11_FLDK_HSD	
高层水汽 2000M(6.2 微米)	SATE_HIMAWARI_H12_FLDK_HSD	
中层水汽 2000M(6.9 微米)	SATE_HIMAWARI_H13_FLDK_HSD	
低层水汽 2000M(7.3 微米)	SATE_HIMAWARI_H14_FLDK_HSD	
长波红外 2000M(8.6 微米)	SATE_HIMAWARI_H15_FLDK_HSD	
长波红外 2000M(9.6 微米)	SATE_HIMAWARI_H16_FLDK_HSD	
长波红外 2000M(10.4 微米)	SATE_HIMAWARI_H17_FLDK_HSD	
长波红外 2000M(11.2 微米)	SATE_HIMAWARI_H18_FLDK_HSD	
长波红外 2000M(12.4 微米)	SATE_HIMAWARI_H19_FLDK_HSD	
长波红外 2000M(13.3 微米)	SATE_HIMAWARI_H20_FLDK_HSD	
增强图, 0.64 微米 可 见光	SATE_HIMAWARI_H09_FLDK_NC	
增强图, 10.4 微米 长 波红外	SATE_HIMAWARI_H09_FLDK_NC	
增强图, 6.2 微米 高 层水汽	SATE_HIMAWARI_H09_FLDK_NC	

	合成图：真彩	SATE_HIMAWARI_H09_FLDK_NC
	合成图：自然色	SATE_HIMAWARI_H09_FLDK_NC
	合成图：夜间微物理	SATE_HIMAWARI_H09_FLDK_NC
	合成图：白天微物理	SATE_HIMAWARI_H09_FLDK_NC
	全色可见光 1000M (0.6~0.9 微米)	SATE_MET10_SEVIRI_L1_DISK_FDI
	可见光 1000M (0.635 微米)	SATE_MET10_SEVIRI_L2_DISK_FDI
	可见光 1000M (0.81 微米)	SATE_MET10_SEVIRI_L3_DISK_FDI
	短波红外 1000M(1.64 微米)	SATE_MET10_SEVIRI_L4_DISK_FDI
	中波红外 3000M(3.92 微米)	SATE_MET10_SEVIRI_L5_DISK_FDI
	高层水汽 3000M(6.25 微米)	SATE_MET10_SEVIRI_L6_DISK_FDI
	低层水汽 3000M(7.35 微米)	SATE_MET10_SEVIRI_L7_DISK_FDI
	长波红外 3000M(8.70 微米)	SATE_MET10_SEVIRI_L8_DISK_FDI
	长波红外 3000M(9.66 微米)	SATE_MET10_SEVIRI_L9_DISK_FDI
	长波红外 3000M(10.8 微米)	SATE_MET10_SEVIRI_L10_DISK_FDI
	长波红外 3000M(12.0 微米)	SATE_MET10_SEVIRI_L11_DISK_FDI
	长波红外 3000M(13.4 微米)	SATE_MET10_SEVIRI_L12_DISK_FDI

可见光 2000M (0.47 微米)	SATE_GOS18_ABI_L1B_DISK_FDI
可见光 2000M (0.64 微米)	SATE_GOS18_ABI_L2B_DISK_FDI
可见光 2000M (0.86 微米)	SATE_GOS18_ABI_L3B_DISK_FDI
近红外 2000M (1.37 微米)	SATE_GOS18_ABI_L4B_DISK_FDI
近红外 2000M (1.60 微米)	SATE_GOS18_ABI_L5B_DISK_FDI
近红外 2000M (2.24 微米)	SATE_GOS18_ABI_L6B_DISK_FDI
中波红外 2000M (3.9 微米)	SATE_GOS18_ABI_L7B_DISK_FDI
高层水汽 2000M (6.2 微米)	SATE_GOS18_ABI_L8B_DISK_FDI
中层水汽 2000M (6.9 微米)	SATE_GOS18_ABI_L9B_DISK_FDI
低层水汽 2000M (7.3 微米)	SATE_GOS18_ABI_L10B_DISK_FDI
长波红外 2000M (8.4 微米)	SATE_GOS18_ABI_L11B_DISK_FDI
长波红外 2000M (9.6 微米)	SATE_GOS18_ABI_L12B_DISK_FDI
长波红外 2000M (10.3 微米)	SATE_GOS18_ABI_L13B_DISK_FDI
长波红外 2000M (11.2 微米)	SATE_GOS18_ABI_L14B_DISK_FDI
长波红外 2000M (12.3 微米)	SATE_GOS18_ABI_L15B_DISK_FDI

	微米)	
	长波红外 2000M(13.3 微米)	SATE_GOS18_ABI_L16B_DISK_FDI