

GIS Contest Training

iDeskop .NET Plugin & iObjects .NET Development

Jeffery Zhang

SuperMap GIS 10i Product System











iDesktop Plugin introduction
 iDesktop Develpment Configuration
 Demo



iObject Introduction
iObject Configuration
Demo



PART DI Software Preparation

IDE –Visual Studio



Downloads



Visual Studio 2019

Version 16.5

Release notes >

Full-featured integrated development environment (IDE) for Android, iOS, Windows, web, and cloud

Compare editions > How to install offline >

Community	Professional	Enterprise
Powerful IDE, free for students, open-source contributors, and individuals	Professional IDE best suited to small teams	Scalable, end-to-end solution for teams of any size
Free download	Free trial	Free trial
Download Preview \pm	Download Preview \pm	Download Preview 🛓

https://visualstudio.microsoft.com/vs/



PART D2 *SuperMap* iDesktop

SuperMap Software – SuperMap iDesktop .NET SuperM

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Registered Development Environment - VS installed before

Register/Unregister SuperMap iDesktop

Step	Prompt
✓ Check Visual Studio 2013 running	Not running
✓ Install plugin template to Visual Studio 2013	Install Visual Studio 2013 plugin template successful
🖌 Install Visual Studio 2013 reference addin	Install Visual Studio 2013 reference template successful
✓ Install CtrlAction template plugin to Visual St	Install Visual Studio 2013 CtrlAction template successful
🖌 Install register to Visual Studio 2013 toolbox	Install Visual Studio 2013 toolbox template successful
Reconfigure Visual Studio 2013 parameters	

- During the installation, the installation program will automatically run the registration tool to register.
- Similarly, the product will automatically unregistered when it is uninstalled.

Registered Development Environment - Manual configuration

] 〉 此	电脑 > Software (D:) > SuperMap > SuperMap iDesktop 10i > Tool	S
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_Get	7-zip.dll App.xml	2019/11/8 10:28 2019/11/8 10:22
NE [*]	 Compress.exe Compress.exe DEPENDS.EXE DEPENDS_x64.exe ExtractZip.exe gacutil.exe loading.mht mscoree.dll SuperMap.Desktop.LicenseInstaller.exe SuperMap.Desktop.LicenseInstaller.exe.config SuperMap.Tools.LicenseToolSetting.xml 	2019/11/8 10:29 2019/11/8 10:29 2019/11/8 10:29 2019/11/8 10:29 2019/11/8 10:29 2019/11/8 10:29 2019/11/8 10:29 2019/11/8 10:27 2019/11/8 10:27 2019/11/8 10:29
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SSD (D:)	SuperMap. Tools. Register Lemplate.exe. config SuperMap. Tools. ToolBoxSetting.xml SuperMap. Tools. VSAddin.dll UpdateUserExperiencePlanConfig.exe	2019/11/8 10:22 2019/11/8 10:29 2019/12/31 15:36 2019/12/31 15:38
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Run the program as an administrator

D:\SuperMap\SuperMap iDesktop 10i\Tools\SuperMap.Tools.RegisterTemplate.exe

Environment Configuration



	DesktopPlugin1 - Micro <u>E</u> DIT <u>V</u> IEW <u>P</u> ROJI ▼ ○ 쭵 ▼ 🏩 💾 💕	soft Visual Studio ECT <u>B</u> UILD <u>D</u> EBUG TEA <u>M</u> <u>T</u> OOLS TE <u>S</u> T AR <u>C</u> HITECTURE A <u>N</u> ALYZE <u>W</u> INDOW <u>H</u> ELP
O Server Explorer Toolbox Data Sources	DesktopPlugin1 Application Build Build Events Debug Resources Services Settings Reference Paths Signing Code Analysis	Configuration: Active (Debug) Platform: Active (X86) Start Action Start Action Start project Start external program: D:\SuperMap\SuperMap\ Start browser with UBL: Start Options Command line arguments: Working directory: Use remote machine Enable Debuggers Enable native code debugging Enable SQL Server debugging

D:\SuperMap\SuperMap iDesktop 10i\Bin\SuperMap Desktop.exe

Develop in Visual Studio





Customized Module - Modify the interface by configuration file



Customized Module





P13

Run and check your program

0 1 1 0 0 0 0 0 1 0 0		
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DesktopPlugin1	ra RibbonGroup	۵
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Custom the interface from iDesktop



Custom the interface by Environment Design SuperM



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	ShowSplashScreen Determines whether to show splash screen or not when the program is launched.			
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SuerMap Component: *.dll

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SuperMap.Desktop.Common.dll	2019/12/31 15:34
SuperMap.DataEx.dll	2019/12/27 18:51
SuperMap.Data.Topology.dll	2019/12/27 18:51
SuperMap.Data.TileStorage.dll	2019/12/27 18:51
SuperMap.Data.Processing.dll	2019/12/27 18:51
SuperMap.Data.dll	2019/12/27 18:51
SuperMap.Data.Conversion.dll	2019/12/27 18:51
SuperMap.Data.CloudLicense.dll	2019/12/27 18:51
SuperMap.Chart.dll	2019/12/27 18:51
SuperMap.Analyst.TrafficAnalyst.dll	2019/12/27 18:51
SuperMap.Analyst.TerrainAnalyst.dll	2019/12/27 18:51
SuperMap.Analyst.SpatialStatistics.dll	2019/12/27 18:51
SuperMap.Analyst.SpatialAnalyst.dll	2019/12/27 18:51
SuperMap.Analyst.NetworkAnalyst.dll	2019/12/27 18:51
SuperMap.Analyst.Navigation.dll	2019/12/27 18:51
SuperMap.Analyst.AddressMatching.dll	2019/12/27 18:51

D:\SuperMap\SuperMap iDesktop 10i\Bin

SuperMap

Add your own *.dll

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Compile and Copy the *.dll *.config *.pdb to *Bin-Plugins-TestPlugin* Set *AssemblyName* and *OnAction*

P18



Have a rest (10mins)



PART 03 *Objects*







Data Management





Data Processing





SuperMap Spatial Analysis





Mapping



Download \rightarrow **Product Packages**

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➢ Win-64

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> All (Sample code and data)

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https://www.supermap.com/en-us/html/down.html

Introduction to the installation package

👔 Supe	erMap <mark>i</mark> Obj	jects .NET	Online Help)					- 0	×		
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Technic	al Support	t			I he progra	amming re	eference p	rovides the	e definition and implementation classes of base object models provided by SuperMap iObjects .NET.	\sim		
Install (Guide				Name	enaces				- 18		
Getting	Started					spaces						
Produc	t Introduct	tion			Names	pace			Description			
Develo Contro Sample FAQ	per Guide Introducti Code Intro	ion oduction			<u>SuperM</u>	lap.Analys	st.Navigat	<u>ion</u>	With the continuous improvement of traffic network data specifications, data content is constantly enriched, path analysis also need to support the standardization of geospatial data products. So we add a navigation analysis module, so we add a navigation analysis module that provides data compilation of standardized geospatial data products and path analysis based on data compilation results.	I		
SuperMap iObjects .NET Programming Refe			Refe spa Jam	SuperMap.Analyst.NetworkAnalyst			<u>kAnalyst</u>	The NetworkAnalyst module. Network analysis, as an import part of spatial analysis, is dedicated to network related application models and functions such as bus transfer analysis, transportation network analysis etc.				
Sup	erMap.Ana	alyst.Spati	alAnalyst Na	mes	<u>SuperM</u>	SuperMap.Analyst.SpatialAnalyst		<u>Analyst</u>	The SpatialAnalyst module. Functions for basic spatial analysis, such as buffer analysis, overlay analysis, surface analysis, etc., are provided in this module.			
Sup	erMan Ana	alvst Terra	in∆nalvst Na	me	SuperMap.Analyst.SpatialStatistics			Statistics	The SpatialStatistics module.			
Sup Sup	erMap.Ana erMap.Ana	alyst.Traffi	cAnalyst Nar	nes	<u>SuperM</u>	lap.Analys	st.Terrain/	<u>Analyst</u>	The TerrainAnalyst module. Functions related to terrain analysis, such as mesh generation, etc., are encapsulated in TerrainAnalyst module.			
 SuperMap.Chart Namespace SuperMap.Chart.Conversion Namespace SuperMap.Data Namespace SuperMap.Data.Conversion Namespace SuperMap.Data.Processing Namespace 			ace ace	SuperM	lap.Analys	st.TrafficA	<u>nalyst</u>	Provides functionalities like bus transfer analysis, query the bus lines that passes certain bus station, query the bus stations of certain bus line. Supports multiple kinds of bus line and station settings, like bus ticket price, departure time and departure interval. It also provides the setting of the bus lines and stations to avoid, the prior bus lines and stations, the tolerance for merging stations, the tolerance for snapping stations, the maximum walking distance, transfer strategy and preference settings, and the support of walking line when transfer.				
Sup	eriviap.Dati erMan Det	a Tapalas	age Namesp	ace	SuperM	lap.Chart			The Chart module.			
Sup	erMap.Lay	out Name	space		SuperM	lap.Chart.	Conversio	<u>on</u>	The namespace provides interfaces related to nautical chart data conversion, including nautical chart import and output.			
📚 Sup 📚 Sup	erMap.Map erMap.Plot	pping Nar t Namespa	nespace ace		SuperM	lap.Data			The Data module, which is a core module independant of the product. It provies rovides full manipulation and processing for spatial data as well as the attributes.			
📚 Sup	erMap.Rea erMap.Rea	llspace Na Ilspace.Ne	mespace tworkAnalys	st N	<u>SuperM</u>	lap.Data.(Conversio	n	This namespace provides interfaces for data conversion. Supported data formats include MIF, TAB, SHP, WOR, DXF, DWG, PNG, TIFF, GRD etc.			
🔶 Sup	erMap.Rea	lspace.Sp	atialAnalyst	Nan	SuperM	lan Data I	Processing	1	Provides functions for creating caches for 3D data			
🔶 Sup	erMap.Rea	lspace.Th	reeDDesign	er N	SuperM	lan Data 1	FileStorag	•	The TileStorage module			
📚 Sup	erMap.UI N	lamespac	e		SuperM	lap.Data.	Fopology	<u> </u>	The topology module that provides functions such as topology validation, topology processing and topology processing atc.			
<				>	SuperM	lap.Layou	t		The Layout module provides functions for map layout and printing.	\sim		

Help Document: API Reference

- > Sample Code
- > Sample Data
- > Install the configuration file:
 - ➢ Install_x64.bat
 - > Install_x86.bat



Configuration and Development steps

- 1. Run *Install_x86.bat* to register iObjects development tools in Visual Studio
- 2. Develop in the Visual Studio: New a project
- 3. Compile and Run



Environment Configuration

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Manual Configuration

lame 🔺	Namespace	Assembly Name	Version	Directory	
olorButton	SuperMap.UI	SuperMap.UI.Controls	7.0.0.0	d:\supermap\supermap-iobjectsdotnet-10.0.1-18027-76100-all\bin	
ayer3DsTree	SuperMap.UI	SuperMap.UI.Controls	7.0.0.0	d:\supermap\supermap-iobjectsdotnet-10.0.1-18027-76100-all\bin	
ayersControl	SuperMap.UI	SuperMap.UI.Controls	7.0.0.0	d:\supermap\supermap-iobjectsdotnet-10.0.1-18027-76100-all\bin	
ayersTree	SuperMap.UI	SuperMap.UI.Controls	7.0.0.0	d:\supermap\supermap-iobjectsdotnet-10.0.1-18027-76100-all\bin	
Лар	SuperMap.Mapping	SuperMap.Mapping	7.0.0.0	d:\supermap\supermap-iobjectsdotnet-10.0.1-18027-76100-all\bin	
/apControl	SuperMap.UI	SuperMap.Mapping	7.0.0.0	d:\supermap\supermap-iobjectsdotnet-10.0.1-18027-76100-all\bin	
/lapLayout	SuperMap.Layout	SuperMap.Layout	7.0.0.0	d:\supermap\supermap-iobjectsdotnet-10.0.1-18027-76100-all\bin	
/apLayoutControl	SuperMap.UI	SuperMap.Layout	7.0.0.0	d:\supermap\supermap-iobjectsdotnet-10.0.1-18027-76100-all\bin	
1 apNavigationControl	SuperMap.UI	SuperMap.UI.Controls	7.0.0.0	d:\supermap\supermap-iobjectsdotnet-10.0.1-18027-76100-all\bin	
ceneControl	SuperMap.UI	SuperMap.Realspace	7.0.0.0	d:\supermap\supermap-iobjectsdotnet-10.0.1-18027-76100-all\bin	
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uperMap



– Mapping CustomInteraction LayerAdding LayerManage ManualEdit MapEagleEye MapOutput MapProperty MeasureMap PixelToMap SelectionDisplay ThemeDotDensityDisplay ThemeGraduatedSymbolDisplay ThemeGraphDisplay ThemeLabelRangeDisplay ThemeMemoryDataDisplay ThemeRangeDisplay ThemeUniqueDisplay UniformStyleThemeLabel 🚊 Realspace Analysis3D Animation AssociatingMapAndScene Billboard Bubble DynamicLayer FacilityAnalyst3D FlyManager MeasureScene ModelingAndAnalyst NodeAnimation OpenScene OSGB Particle PathAnalysis ProfileAnalyst SwipeSetting Symbol3DDisplay TerrainAnalyst Theme3DDisplay DynamicStretching OutputElevation Skeleton2GeoMode13D 🛓 Layout 🗄 NetworkAnalyst + Processing 🛓 - Conversion 🛓 Spatial Analyst 🗄 TerrainAnalysis 🛓 Topology 🗄 - Chart

🛨 - Data

Sample Code

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- Animation - AssociatingMapAndScene	Introduction									
Bubble	The sample demonstrates how to build 3D r	The sample demonstrates how to build 3D network dataset, and how to create flow directions for network datasets.								
- Jynamı clayer - Facili tyAnalyst3D - FlyManager	The sample demonstrates how to perform c	closest upstream facilities and downstr	eam tracing analysis in a 3D environment.							
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Sample Data



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41 个项目									1

SuperMap

Create your own project

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1	SuperMap.Analyst.Navigation.dll	2019/12/27 19:05	应用程序扩展	326 KB			
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狊 此电脑	SuperMap.Chart.dll	2019/12/27 19:05	应用程序扩展	1,392 KB			
🧊 3D 对象	SuperMap.Data.CloudLicense.dll	2019/12/27 19:05	应用程序扩展	257 KB			
🛃 视频	SuperMap.Data.Conversion.dll	2019/12/27 19:05	应用程序扩展	1,215 KB			
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💺 Windows-SSD (SuperMap.Mapping.dll	2019/12/27 19:05	应用程序扩展	6,624 KB			
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🥪 Data (E:)	SuperMap.Realspace.dll	2019/12/27 19:05	应用程序扩展	10,346 KB			
Personal (F:)	SuperMap.Realspace.NetworkAnalyst.dll	2019/12/27 19:05	应用程序扩展	2,895 KB			
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	SuperMap.Realspace.ThreeDDesigner.dll	2019/12/27 19:05	应用程序扩展	741 KB			
✓ 网络	SuperMap.UI.Controls.dll	2019/12/27 19:05	应用程序扩展	4,222 KB			
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Compile platform





Change compiled platform

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Sample Demo: Load the Map



Sample Demo: Load 3D Scene

LoadScene

Sample Demo: Load 3D Cache

