

( 7.7.5)

91

Web-  
 —  
 —  
 (      ).  
 —  
 —  
 —  
 —  
 —  
 Web-  
 .  
 .  
 Web-  
 .

’  
 :  
 — Web-      Adobe Flash Player.  
 ,      :  
 ,  
 .  
 :  
 widget-  
 ,      widget  
 6.0,

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# 1

```

        :
    _____
    _____
  
```

## 1.1

```

    - Flash , -
    5, . Widget
  
```

```

Flash.
  
```

```

    ,
    ,
    (true false),
    .
    .
  
```

## 1.2

```

        :
    _____
    _____
    _____
    _____
    _____
    _____
    GPX-
    Excel-
  
```

### 1.2.1

```

        :
    _____
    _____ API
  
```

#### 1.2.1.1

```

    ,
    .
  
```

#### 1.2.1.2 API

- ```

        :
    .
    login(success), success
    :
    • login (login, pass)-
    .
    ○ login - -
    ○ pass - -
  
```



- findExternalPipeKm(systemId, objected, km) –

```

        findExternalPipeKm (success), success
        :
    ○ systemId – – ( system_id
        gis_integration50.gate)
    ○ objectId – – ( obj_id
        gis_integration50.gate)
    ○ km – –

```

- findExternalPipePart (systemId, objected, km) –

```

        findExternalPipePart
        (success), success
        :
    ○ systemId – – ( system_id
        gis_integration50.gate)
    ○ objectId – – ( obj_id
        gis_integration50.gate)
    ○ beginkm – –
    ○ endkm – –

```

- getMapWidth() –

```

        null.

```

- getMapCenter() –

```

        null. WGS84.

```

- getMapPosition() –

```

    «ll= , &spn= – – , – –
    &z= – »
    null. WGS84.

```

- refreshLayer(layerName, params) –

```

    ○ layerName – -
    ○ params – XML
        <data ILI_INSPECTION_ID='123'/>.
        SYSTEM_ID, OBJ_ID,
        GIS_INTEGRATION50.GATE
        <data
        {KEY_FIELDS}={KEY_VALUES}/>

```

- clearLayer(layerName) –

```

    ○ layerName – -

```

- refreshModel(modelName, params) –

```

    (

```

```

    ○ modelName – -
    ○ params – XML
        <data ILI_INSPECTION_ID='123'/>

```

- clearModel(modelName) –

```

    ( )

```

```

    ○ modelName – -

```



- refreshMap(modelName, params) – ( )
  - modelName – -
  - params – XML <data ILI\_INSPECTION\_ID='123'/>
- clearMap(modelName) – ( )
  - modelName – -
- onObjectsInfo(objectsList) – .
- objectsList – XML – XML
 

```

      screen_x="      x" screen_y="      " y="      "
      id="..." cls="..." /> </data>,      x-      , y-      , cls
      –      , id –      , cls
      :      select      obj_id      from
      gis_integration50.gate where table_name = '{cls}' and key_values = '{id}';
      
```

### 1.2.3

:

API

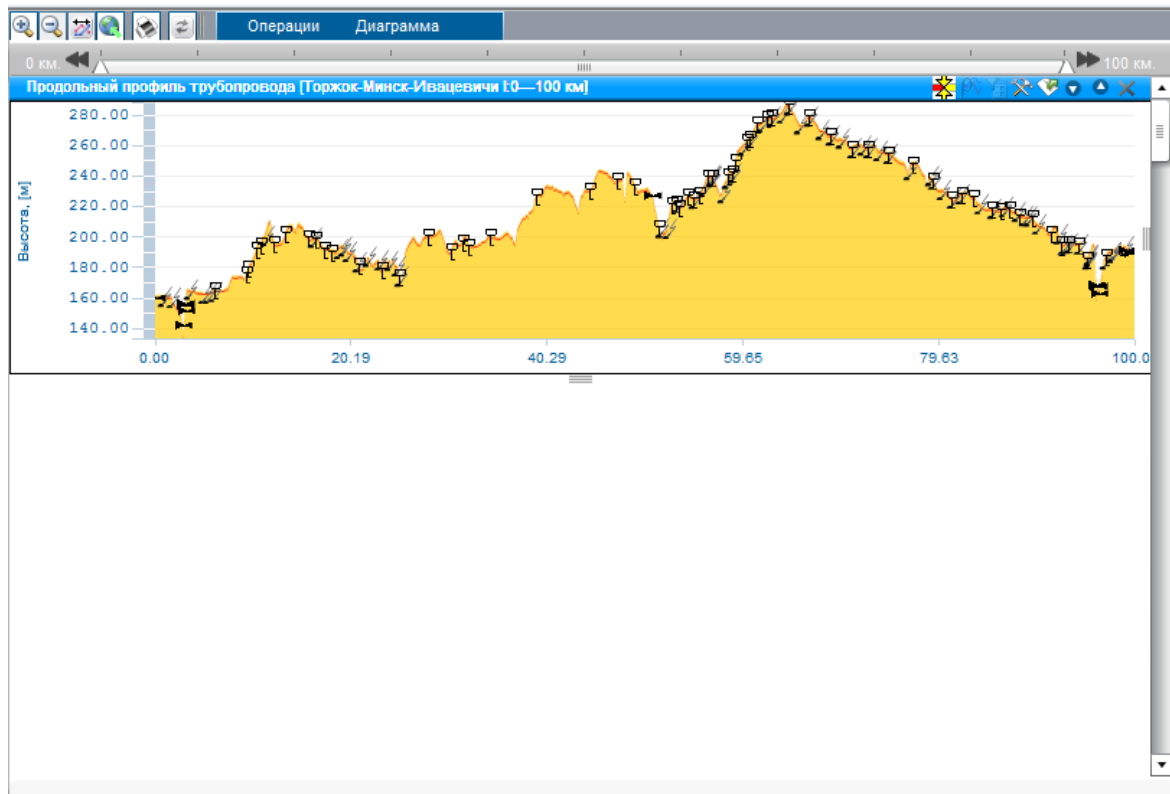
#### 1.2.3.1

:

( 1.1 ).

1.1 –

( 1.2 ).



1.2 –

,  
,  
, (MS Excel).

### 1.2.3.2

#### API

- showCAS(type, systemId, objectId, objectName, kmBegin, kmEnd) –  
onshowCAS(success),  
,
- type – : «MG» ( , «CORIDOR»  
( ), «ROUTE» ( )
- systemId – . ( system\_id  
gis\_integration50.gate).
- objectId – . ( obj\_id  
gis\_integration50.gate)
- kmBegin – . ( ,  
, kmEnd , )
- kmEnd – . ( ,  
, )

## 1.2.4

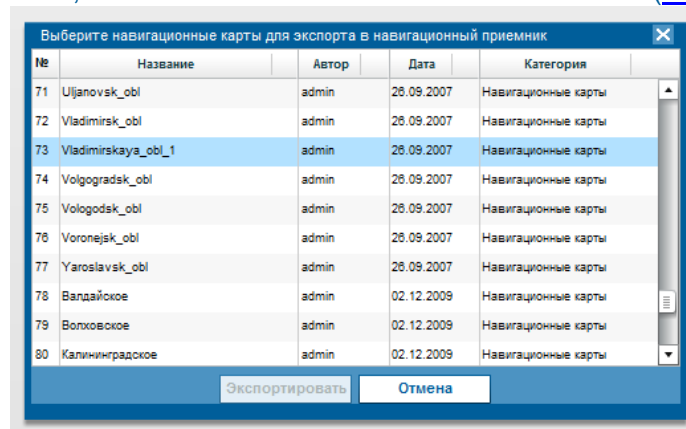
:

API

## 1.2.4.1

GPS

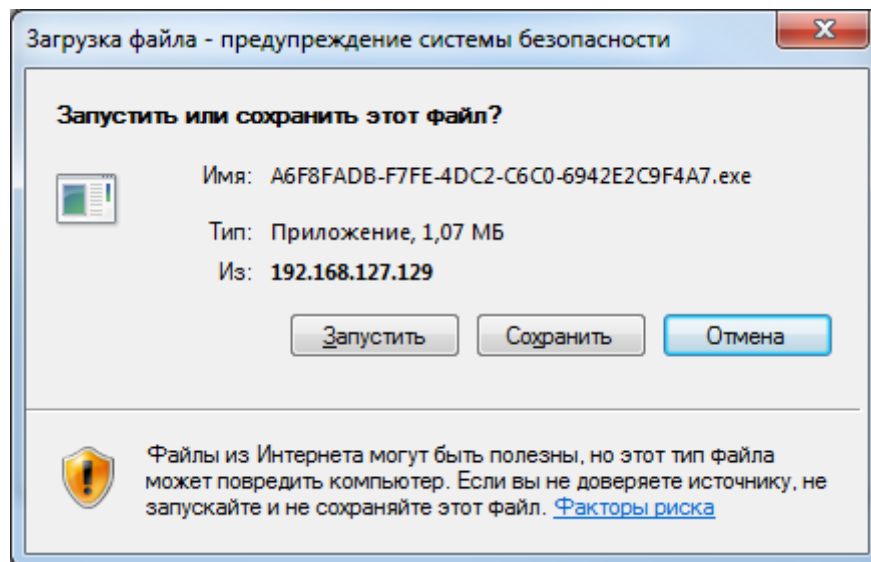
Garmin ( IMG)

( 1.3).

1.3 –

1.4 (

).



1.4 –

## 1.2.4.2

API

- exportIMG(systemId, objected) –

onexportIMG(success).

○ systemId – ( system\_id  
gis\_integration50.gate).

○ objectId – ( obj\_id  
gis\_integration50.gate)

1.2.5

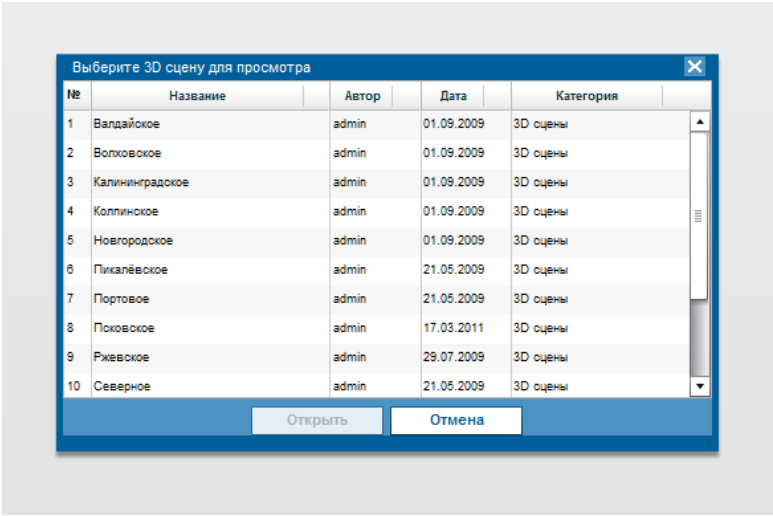
API

1.2.5.1

VRML

1.5)

VRML



1.5 – 3D-

1.2.5.2 API

- openVRML(systemId, objected) – onopenVRML (success).

○ systemId – ( system\_id  
gis\_integration50.gate).

○ objectId – ( obj\_id  
gis\_integration50.gate)

## 1.2.6 GPX-

:

### API

### 1.2.6.1

GPX (<http://www.topografix.com/gpx.asp>)

!

### 1.2.6.2 API

- exportGPX(systemId, objected) – GPX  
( ) –  
onexportGPX(success, params). params gpx-  
!
- systemId – ( system\_id  
gis\_integration50.gate).
- objectId – ( obj\_id  
gis\_integration50.gate)

## 1.2.7 Excel-

:

### API

### 1.2.7.1

excel-

### 1.2.7.2 API

- exportExcel(systemId, objected) – Excel-  
○ systemId – ( system\_id  
gis\_integration50.gate).
- objectId – ( obj\_id  
gis\_integration50.gate,

## 1.3

1. Flash swf.

2. .

3. .

4. widget.

```
<TASK><panel      id="MAPWIDGET"      url="Public/SWF/Modules/WidgetMap.SWF"
percentWidth="100"                      percentHeight="100"
reload="false"><settings><Models><model      name="PODS"      descr="
"      /></Models></settings></panel><panel      id="PROP"
url="Public/SWF/modules/PropertiesM.swf"      width="0"
percentHeight="100"><settings><editable>false</editable><title></title><w
idth>790</width><height>250</height></settings></panel></TASK>
```

5. `mapReady(true) takReady("mapReady", true) .`

6. ,

## 1.4

:

#

HTML + JavaScript

### 1.4.1 #

widget ( *Public/Data/Example/WidgetExample.zip*). C#,

:

1. MapWidgetWrapper.cs – widget

2. WidgetEventArgs.cs – , widget

3. SWF AxShockwaveFlashObjects

4. SWF :

```
OnReadyStateChange. AxShockwaveFlashObjects
ReadyState == 4. ,
```

4,

5. widget

```
.CallFunction AxShockwaveFlashObjects
<arguments><string> _ <invoke name=" _ ">
MapWidgetWrapper.cs _1</string></arguments></invoke>.
```

6. widget FlashCall. MapWidgetWrapper.  
( )  
\_widget\_FlashCall.



### 1.4.3.2

```
<TASK>
  <panel id="MAPWIDGET" url="Public/SWF/Modules/WidgetMap.SWF" percentWidth="100"
percentHeight="100" reload="false">
    <settings>
      <Models>
        <model name="SELECTION" descr=" " />
        <model name="PODS" descr=" " />
      </Models>
      <switch target="PODS" name="C ">
        <model name="TR_MAPSHEM" descr=" "
onUserChanged="delete"/>
      </switch>
    </settings>
  </panel>
  <functional id="FPROP" url="Public/SWF/modules/ExternalProperties_FM.swf"/>
</TASK>
```

### 1.4.3.3

```
<TASK>
  <panel id="MAPWIDGET" url="Public/SWF/Modules/WidgetMap.SWF" percentWidth="100"
percentHeight="100" reload="false">
    <settings>
      <Models>
        <model name="PODS" descr=" " />
        <model name="POI" descr=" " />
      </Models>
    </settings>
  </panel>
</TASK>
```

### 1.4.3.4

**1:5000**

```
<TASK>
  <panel id="MAPWIDGET" url="Public/SWF/Modules/WidgetMap.SWF" percentWidth="100"
percentHeight="100" reload="false">
    <settings>
      <wsp_id>5015</wsp_id>
      <mixed_wsp_id></mixed_wsp_id>
      <raster_wsp_id></raster_wsp_id>
      <position x="30.3654628" y="59.9" zoom="13"/>
    </settings>
  </panel>
</TASK>
```

### 1.4.3.5

```
<TASK>
  <panel id="CAS" url="Public/SWF/modules/CAS_Module.swf" percentWidth="100"
percentHeight="100">
    <settings>
      <requestSource>SYS_SEM.xml</requestSource>
    </settings>
  </panel>
</TASK>
```

### 1.4.3.6

```
<TASK>
  <functional id="EXPORTIMG" url="Public/SWF/modules/ExportIMG_FM.swf"
percentWidth="0" percentHeight="0">
```



```

    <settings>
      <requestSource>SYS_SEM.xml</requestSource>
    </settings>
  </functional>
</TASK>

```

#### 1.4.3.7 VRML

```

<TASK>
  <functional      id="EXPORT3D"      url="Public/SWF/modules/ExportScene3D_FM.swf "
  percentWidth="0" percentHeight="0">
    <settings>
      <requestSource>SYS_SEM.xml</requestSource>
    </settings>
  </functional>
</TASK>

```

#### 1.4.3.8 GPX ( !)

```

<TASK>
  <functional      id="EXPORTGPX"      url="Public/SWF/modules/ExportGPX_FM.swf "
  percentWidth="0" percentHeight="0"></functional>
</TASK>

```

#### 1.4.3.9 Excel ( !)

```

<TASK>
  <functional      id="EXPORTEXCEL"      url="Public/SWF/modules/ExportExcel_FM.swf "
  percentWidth="0" percentHeight="0"></functional>
</TASK>

```

□

(SEM, GEO, GRID, EXPORT, DICT,  
POLICY, TREE)

(TREE)

(LIST)

(UITasks)

(PRELOAD.xml)

## 2.1 EXPORT, DICT, POLICY, TREE)

**(SEM, GEO, GRID,**

•

•

(CAS\_MATH)

(FILTER.xml)

### 2.1.1

WebSite\Core\Query

•

•

xml.

- \*\_SEM.xml –
- \*\_SYS\_SEM.xml –
- \*\_DICT.xml –
- \*\_GEO.xml –
- \*\_GRID.xml –
- \*\_EXPORT.xml –
- \*\_POLICY.xml –
- \*\_TREE.xml –

Excel

### 2.1.2

□

□

GEO

### 2.1.2.1

•

```

<root version="1.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <data id="1" comment="CanAccessObject" schema="CanAccessObject"
table="CanAccessObject">
    <select check="CanAccessObject('select')">
        ...
    </select>
    <insert check="CanAccessClass('insert')">
        ...
    </insert>
    <update check="CanAccessObject('update')">
        ...
    </update>
    <delete check="CanAccessObject('delete')">
        ...
    </delete>
  </data>
  <data id="2">
    ...
  </data>
  ...
</root>

```

```

data
.
4
: select,
insert, update delete.
.

```

```

1
:

```

- dbQuery -
- dbCommand -
- geoQuery -
- geoCommand -
- geoReader -
- xmlQuery - XML
- xmlCommand - XML-
- exslt - XSLT
- call -
- 
- boundaryCalculation -
- frequencyDistributionCalculation -
- regressionCalculation -
- graphicsSumCalculation -

```

var param,
.
var
, { - },
name -
default -
direction="Output"(
), postgresSQL
default,
:
<var name="ID" type="Int64" direction="Output" default="SELECT
max(COLUMN_NAME) id FROM TABLE_NAME"/>
.
,
.
param
:
name -
default -
source - XPath
type - (DateTime, Decimal, Double, Int32, Int64, String)
size -
direction - (Input, Output, InputOutput)
,
( , SQL XSLT ).
.
var param
{ - }.
PostgreSQL,
dbQuery, dbCommand, geoQuery, geoCommand
var.
var,
:
- :PARAM {PARAM}.
-
dbQuery, dbCommand, geoQuery, geoCommand /
- UTEService /
, dbQuery, dbCommand, geoQuery, geoCommand
start_ute_command
end_ute_command
( start_ute_command, end_ute_command)
ute_command UTEService:
<ute_command call="KM_ROUTE_Calc.xml" input="route_id={ID}"/>
call -

```

```

input - . " " /
      , var param

:
<start_ute_command>
  <ute_command call="KM_ROUTE_Calc.xml" input="route_id={ID};" />
</start_ute_command>

<end_ute_command>
  <ute_command call="KM_ROUTE_Calc.xml" input="route_id={ID};" />
</end_ute_command>

```

XML.

by\_row,

XML.

XML

### 2.1.2.2 GEO

GEO CAS\_\*\_GEO.xml,

- LINE\_ID –
- START\_FILTER –
- LABEL\_UNIT –
- LABEL –
- FILTERED\_CLASS –
- TYPE – (1D, 2D, interval)
  - 1D –
  - 2D –
  - interval –

### 2.1.3

[dbQuery](#)[dbCommand](#)[geoQuery](#)[geoCommand](#)[geoReader](#)[xmlQuery](#)[xmlCommand](#)

[exslt](#)  
[call](#)

2.1.3.1 dbQuery

```

:
  • idField - (

  • query - SQL

  ( gdb, mif, sqlite,..) GDAL:

:
<dbQuery idField="ID">
  <param name="FILTER" />
  <param name="COLUMN_LIST" default="ID,LABEL,TYPE" />
  <param name="LABEL_COLUMN" default="label" />
  <param name="ID_COLUMN" default="GUID" />
  <param name="STYLE_COLUMN" default="STYLE" />
  <param name="GDAL_FILE_NAME" default="IUST2_prepared.sqlite" />
  <param name="GDAL_FILE_TYPE" default="SQLite" />
  <param name="GDAL_LAYER_NAME" default="ambit_industry_ics_p" />
  <query> </query>
</dbQuery>
```

GDAL_FILE_NAME			<param name="GDAL_FILE_NAME" default="IUST2_prepared.sqlite" />
GDAL_FILE_TYPE			<param name="GDAL_FILE_TYPE" default="SQLite" />
GDAL_LAYER_NAME		mif	<param name="GDAL_LAYER_NAME" default="ambit_industry_ics_p" />
GEO_COLUMN		WKT( GEO_COLUMN)	<param name="GEO_COLUMN" default="WKT" />
STYLE_COLUMN		STYLE( STYLE_COLUMN)	<param name="STYLE_COLUMN" default="STYLE" />
ID_COLUMN		GUID, ID. ID gdal feature.GetFID(),	<param name="ID_COLUMN" default="GUID" />
LABEL_COLUMN		LABEL( LABEL_COLUMN )	<param name="LABEL_COLUMN" default="label" />

COLUMNS_LIST		,	<param name="COLUMN_LIST" default="ID,LABEL,TYPE" >
FILTER		"ID,LABEL"	FILTER="ID=123;LABEL= "

GDAL\_FILE\_TYPE

"PCIDSK"  
"PDF"  
"ESRI Shapefile"  
"MapInfo File"  
"UK .NTF"  
"OGR\_SDTS"  
"S57"  
"DGN"  
"OGR\_VRT"  
"REC"  
"Memory"  
"BNA"  
"CSV"  
"GML"  
"GPX"  
"KML"  
"GeoJSON"  
"OGR\_GMT"  
"GPKG"  
"SQLite"  
"WAsP"  
"OpenFileGDB"  
"XPlane"  
"DXF"  
"CAD"  
"Geoconcept"  
"GeoRSS"  
"GPSTrackMaker"  
"VFK"  
"PGDUMP"  
"OSM"  
"GPSBabel"  
"SUA"  
"OpenAir"  
"OGR\_PDS"  
"HTF"  
"AeronavFAA"  
"EDIGEO"  
"SVG"  
"Idrisi"  
"ARCGEN"  
"SEGUKOOA"  
"SEGY"  
"ODS"  
"XLSX"  
"SXF"  
"Selafin"  
"JML"  
"VDV"  
"TIGER"  
"AVCBin"  
"AVCE00"

### 2.1.3.2 dbCommand

- query – SQL

( . / UTEService 2.1.2.1) /

### 2.1.3.3 geoQuery

- idField –
- partField –
- geoField –

- query – SQL

WKB, SDO\_GEOMETRY

WKT.

( gdb, mif, sqlite,..)

GDAL:

```

:
<geoQuery idField="ID" geoField="WKB_GEOMETRY">
  <param name="FILTER" />
  <param name="COLUMN_LIST" default="TYPE" />
  <param name="ID_COLUMN" default="GUID" />
  <param name="LABEL_COLUMN" default="label" />
  <param name="STYLE_COLUMN" default="STYLE" />
  <param name="GEO_COLUMN" default="WKT" />
  <param name="GDAL_FILE_NAME" default="IUST2_prepared.sqlite" />
  <param name="GDAL_FILE_TYPE" default="SQLite" />
  <param name="GDAL_LAYER_NAME" default="ambit_industry_ics_p" />
</geoQuery>

```

2.1.3.1

UTEService / 2.1.2.1)

### 2.1.3.4 geoCommand

- proc –

- object – SQL
- part – SQL
- coord – SQL



```

WKT.
    object, part coord. object
,
part.
    'Y' 'N'
,
    coord.
proc
,
object coord.
    :
    • BoundsProcessor – XMIN, XMAX, YMIN, YMAX
    • BufProcessor – IdField,
    Query,
    • CSProcessor –
    • MetricsProcessor – COUNT, DIM GEOM_TYPE
    • WKBProcessor – WKB
    :
    • BufProcessor – IdField,
    Query,
    • LRSPProcessor – SEQ, BACK_SEQ MEASURE,
    • XYZProcessor – X,Y Z

```

### 2.1.3.5 geoReader

```

:
    • source –
    • type –
WKT
type:
"ESRI Shapefile";
"MapInfo File";
"UK .NTF";
"SDTS";
"TIGER";
"S57";
"DGN";

```

```

"VRT" ;
"REC" ;
"Memory" ;
"BNA" ;
"CSV" ;
"NAS" ;
"GML" ;
"GPX" ;
"KML" ;
"GeoJSON" ;
"GMT" ;
"PGeo" ;
"PCIDSK" ;
"XPlane" ;
"AVCBin" ;
"AVCE00" ;
"DXF" ;
"Geoconcept" ;
"GeoRSS" ;
"GPSTrackMaker" ;
"VFK" ;
"PGDump" ;
"GPSBabel" ;
"SUA" ;
"OpenAir" ;
"PDS" ;
"WFS" ;
"HTF" ;
"AeronavFAA" ;
"Geomedia" ;
"EDIGEO" ;
"GFT" ;
"SVG" ;
"CouchDB" ;
"Idrisi" ;
"ARCGEN" ;
"SEGUkOOA" ;
"SEGY"

```

### 2.1.3.6 *xmlQuery*

- ```

:
• source –
• xpath – XPath

```
- source xpath .  
xpath.

### 2.1.3.7 *xmlCommand*

- ```

:
• source –
• template –
:
• transform – XSLT

```

```

transform, (
    template
XSLT
:
<?xml version="1.0" encoding="utf-8"?>
<xsl:stylesheet
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:msxsl="urn:schemas-microsoft-com:xslt"
exclude-result-prefixes="msxsl">
<xsl:output method="xml" indent="yes"/>

{0}

<xsl:template match="@* | node()">
<xsl:copy>
<xsl:apply-templates select="@* | node()" />
</xsl:copy>
</xsl:template>

{1}

</xsl:stylesheet>
XSLT {0}
XSLT {1}.
transform

```

### 2.1.3.8 *exslt*

```

:
• xsltPath - XSLT
• xmlPath - XML
XSLT
(
).

```

### 2.1.3.9 *call*

```

:
• task -
• by_row -
task by_row WCF. XML
false XML
.
.
.

```

### 2.1.4

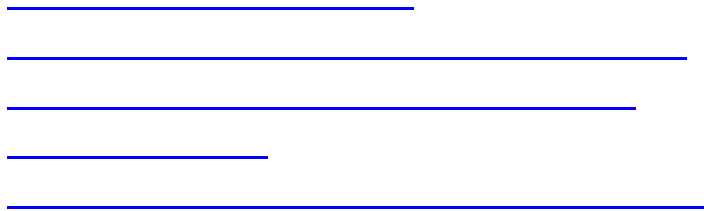
```

,
( )
( ),
: « »
( - ).
:
,

```

**2.1.5****(CAS\_MATH)**

:

**2.1.5.1**

```

    ,
    :
    ,
    ,
    • GROUP_OFFSET ( Y )
    • GRAPH_OFFSET ( Y )
    • AXIS_OFFSET ( )
    • START_KM ( )
    • FINISH_KM ( )
    • X_SCALE ( X - )
    • Y_MIN ( - Y Y_MIN) -
    • Y_MAX ( )
    • HEIGHT ( , , Y_MIN Y_MAX)
    • COSMETIC_ELEMENT_N -
    ,
    ;
    ,
    , X_SCALE=1 , START_KM FINISH_KM.
    Y_MIN, Y_MAX HEIGHT Y.
    ,
    ,
    ,
    COSMETIC_ELEMENT_N - , 0,
    ( ; )
    default="topology={line,point,polygon};coord=x1,y1,x2,y2; style={
    Default_STYLE.xml}"

```

**2.1.5.2**

```

    :
    .

```

- QUERY QUERY1, QUERY2, ..., QUERY{n} – ( ),  
(CAS\_PODS\_CAS\_ILI\_GEO.xml#CAS\_ILI\_KBD)
  - DISTANCE\_TOLERANCE – ,  
( 0.000001)
  - NEED\_GROUP – ,  
data  
:
- 1) FrequencyDistributionCalculation
    - SIGMA –
    - VALUABLE\_SIGMAS\_COUNT – ,  
SIGMA,  
( 3)
    - SEGMENTS\_COUNT\_PER\_SIGMA –  
SIGMA
  - 2) BoundaryCalculation
    - BOUNDING\_VALUE – ( )
    - CUT\_TYPE – (0- , 1- , 2- , 3- )
  - 3) GistogramCalculation
    - SEGMENT\_LENGTH – ( )
  - 4) CorrelationCalculation
    - EXCLUDE\_ZERO – ,
  - 5) GraphicsSumCalculation
    - QUERY1 ... QUERY{n} ( X  
– )
    - A\_COEF A\_COEF0 ... A\_COEF{n} – Ai
    - [COEF\_QUERY] –  
.  
A\_COEF{n}.
  - 6) RegressionCalculation
    - QUERY1 ... QUERY{n} ,
    - CRITERION\_QUERY – ( ,  
data  
Query{n})
    - EXCLUDE\_ZERO – ,

HIGH\_ACCURACY –

false.

### 2.1.5.3

,  
 :  
 • frequencyDistributionCalculation ( )  
 • boundaryCalculation ( )  
 • gistogramCalculation ( )  
 • correlationCalculation ( )  
 • regressionCalculation ( )  
 • graphicsSumCalculation ( )  
 •

XML :

```
<root attribute1="value1" attribute2="value2" ... >
  <data attribute1="value1" attribute2="value2" ... />
</root>
```

,  
 XML  
 root, root

data data  
 :  
 1) GROUP\_OFFSET, GRAPH\_OFFSET AXIS\_OFFSET  
 0  
 2) X\_SCALE 1  
 3) data  
 (GROUP\_OFFSET, GRAPH\_OFFSET, AXIS\_OFFSET, X\_SCALE, HEIGHT,  
 QUERY), data  
 , data,  
 data

### 2.1.5.4

:  
 \_\_\_\_\_  
 - CAS MATH.xml#BOUNDARY\_CALC  
 \_\_\_\_\_  
 2  
 \_\_\_\_\_  
 \_\_\_\_\_

#### 2.1.5.4.1

- CAS\_MATH.xml#BOUNDARY\_CALC

```
<data id="BOUNDARY_CALC" comment=" " >
  <select>
    <boundaryCalculation by_row="true">
      <var name="QUERY" default="CAS_MATH.xml#FREQUENCY_DISTRIBUTION_CALC" />
      <var name="NEED_GROUP" default="false"/>
      <var name="BOUNDING_VALUE" default="2.9" />
      <var name="CUT_TYPE" default="0"/>
      <var name="DISTANCE_TOLERANCE" default="0.000001"/>
      <var name="GROUP_OFFSET" default="0"/>
      <var name="GRAPH_OFFSET" default="-2037"/>
      <var name="AXIS_OFFSET" default="0"/>
      <var name="HEIGHT" default="50"/>
      <var name="X_SCALE"/>
    </boundaryCalculation>
  </select>
</data>

XML- :
```

```
<root USER_ID="1" USER_LOGIN="user" PODS_USER="user">
  <data QUERY="CAS_PODS_CAS_ILI_GEO.xml#CAS_ILI_KBD" BOUNDING_VALUE="2.9" CUT_TYPE="0"
X_SCALE="1000" >
    <data/>
  </data>
</root>
```

CAS\_PODS\_CAS\_ILI\_GEO.xml#CAS\_ILI\_KBD :

```
<root USER_ID="1" USER_LOGIN="user" PODS_USER="user">
  <data BOUNDING_VALUE="2.9" CUT_TYPE="0" GROUP_OFFSET="0" GRAPH_OFFSET="0"
AXIS_OFFSET="0" />
</root>
```

#### 2.1.5.4.2

- CAS\_MATH.xml#BOUNDARY\_CALC

```
XML- :

<root USER_ID="1" USER_LOGIN="user" PODS_USER="user">
  <data QUERY="CAS_PODS_CAS_ILI_GEO.xml#CAS_ILI_KBD" BOUNDING_VALUE="2.9" CUT_TYPE="0"
LINE_ID="1300003" START_KM="57" FINISH_KM="284" X_SCALE="1000" >
    <data X_SCALE="300" />
  </data>
</root>
```

CAS\_PODS\_CAS\_ILI\_GEO.xml#CAS\_ILI\_KBD :

```
<root USER_ID="1" USER_LOGIN="user" PODS_USER="user">
  <data BOUNDING_VALUE="2.9" CUT_TYPE="0" LINE_ID="1300003" START_KM="57"
FINISH_KM="284" X_SCALE="1" GROUP_OFFSET="0" GRAPH_OFFSET="0" AXIS_OFFSET="0" />
</root>
```

#### 2.1.5.4.3

2

- CAS\_MATH.xml#BOUNDARY\_CALC

```
XML- :

<root USER_ID="1" USER_LOGIN="user" PODS_USER="user">
```

```

<data QUERY="CAS_MATH.xml#FREQUENCY_DISTRIBUTION_CALC" BOUNDING_VALUE="9.0"
CUT_TYPE="0" LINE_ID="1300003" START_KM="57" FINISH_KM="284" X_SCALE="1000" >
  <data QUERY="CAS_PODS_CAS_ILI_GEO.xml#CAS_ILI_KBD" SIGMA="40.0" X_SCALE="450" >
    <data/>
  </data>
</data>
</root>

```

#### CAS\_MATH.xml#FREQUENCY\_DISTRIBUTION\_CALC

```

<data id="FREQUENCY_DISTRIBUTION_CALC" comment=" ">
  <select>
    <frequencyDistributionCalculation by_row="true">
      <var name="QUERY" default="CAS_PODS_CAS_ILI_GEO.xml#CAS_ILI_KBD"/>
      <var name="NEED_GROUP" default="false"/>
      <var name="SIGMA" default="40"/>
      <var name="SEGMENTS_COUNT_PER_SIGMA" default="10"/>
      <var name="VALUABLE_SIGMAS_COUNT" default="3"/>
      <var name="DISTANCE_TOLERANCE" default="0.000001"/>
      <var name="GROUP_OFFSET" default="0"/>
      <var name="GRAPH_OFFSET" default="-2038"/>
      <var name="AXIS_OFFSET" default="0"/>
      <var name="HEIGHT" default="50"/>
      <var name="X_SCALE"/>
    </frequencyDistributionCalculation>
  </select>
</data>

```

#### 1 CAS\_MATH.xml#FREQUENCY\_DISTRIBUTION\_CALC

:

```

<root USER_ID="1" USER_LOGIN="user" PODS_USER="user">
  <data QUERY="CAS_PODS_CAS_ILI_GEO.xml#CAS_ILI_KBD" SIGMA="40.0" LINE_ID="1300003"
START_KM="57" FINISH_KM="284" X_SCALE="1" GROUP_OFFSET="0" GRAPH_OFFSET="0"
AXIS_OFFSET="0" BOUNDING_VALUE="9.0" CUT_TYPE="0">
    <data/>
  </data>
</root>

```

#### 2 CAS\_PODS\_CAS\_ILI\_GEO.xml#CAS\_ILI\_KBD

:

```

<root USER_ID="1" USER_LOGIN="user" PODS_USER="user">
  <data SIGMA="40.0" LINE_ID="1300003" START_KM="57" FINISH_KM="284" X_SCALE="1"
GROUP_OFFSET="0" GRAPH_OFFSET="0" AXIS_OFFSET="0" BOUNDING_VALUE="9.0" CUT_TYPE="0">
  </data>
</root>

```

#### 2.1.5.4.4

#### CAS\_MATH.xml#REGRESSION\_CALC:

```

<data id="REGRESSION_CALC" comment=" ">
  <select>
    <regressionCalculation by_row="true">
      <var name="CRITERION_QUERY" />
      <var name="EXCLUDE_ZERO" default="false"/>
      <var name="HIGH_ACCURACY" default="false"/>
      <var name="DISTANCE_TOLERANCE" default="0.000001"/>
    </regressionCalculation>
  </select>
</data>

```

:

```

<root USER_ID="1" USER_LOGIN="user" PODS_USER="user">
  <data QUERY1="UNIT_TEST_DATA.xml#FACTOR1_DATA"
QUERY2="UNIT_TEST_DATA.xml#FACTOR2_DATA"
CRITERION_QUERY="UNIT_TEST_DATA.xml#CRITERION_QUERY" />

```



```
</root>
```

```
:
```

```
<root>
```

```
  <data A_COEF0="7.0173872" A_COEF1="15.0033901" A_COEF2="25.13090734"
  DETERMINATION_COEFFICIENT="0.6532917" />
</root>
```

#### 2.1.5.4.5

CAS\_MATH.xml#GRAPHICS\_SUM\_CALC:

```
<data id="GRAPHICS_SUM_CALC" comment="
)">
  <select>
    <graphicsSumCalculation by_row="true">
      <var name="DISTANCE_TOLERANCE" default="0.000001"/>
    </graphicsSumCalculation>
  </select>
</data>
```

```
:
```

```
<root USER_ID="1" USER_LOGIN="user" PODS_USER="user">
  <data QUERY1="UNIT_TEST_DATA.xml#FACTOR1_DATA"
  QUERY2="UNIT_TEST_DATA.xml#FACTOR2_DATA" A_COEF0="7.0173872" A_COEF1="15.0033901"
  A_COEF2="25.13090734" />
</root>
```

```
:
```

```
<root>
<data WKT="LINESTRING(57 16866.816923288079,58 23520.448403351216,59 19213.946579838146,60
36123.790363798747,61 24351.773852499096,62 23255.796764716411,63 13549.496523911828,64
10330.410995844009,65 11327.064923220811,66 35123.137434086369,156 34021.565413752367)/">
</root>
```

#### 2.1.5.4.6

```
,
```

```
:
```

```
<root USER_ID="1" USER_LOGIN="user" PODS_USER="user">
  <data QUERY1="UNIT_TEST_DATA.xml#FACTOR1_DATA"
  QUERY2="UNIT_TEST_DATA.xml#FACTOR2_DATA"
  COEF_QUERY="CAS_MATH.xml#REGRESSION_CALC" >
    <data QUERY1="UNIT_TEST_DATA.xml#FACTOR1_DATA"
    QUERY2="UNIT_TEST_DATA.xml#FACTOR2_DATA"
    CRITERION_QUERY="UNIT_TEST_DATA.xml#CRITERION_DATA" />
  </data>
</root>
```

#### 2.1.5.5

```
.
```

```
:
```

```
Math_Calc_Memory_Reserve – (
50000000 ).
```

```
Boundary_Calc_Bytes_Per_Coordinate – ( , 2000).
```

Frequency\_Distribution\_Calc\_Bytes\_Per\_Coordinate - , (2000).

Frequency\_Distribution\_Calc\_Bytes\_Per\_Step - , (200).

Gistogram\_Calc\_Bytes\_Per\_Coordinate - ( , 2000).

Regression\_Calc\_Max\_Factors\_Count - , .

### 2.1.6 (FILTER.xml)

:

```

_____
/
_____
_____

```

#### 2.1.6.1

ID, ,  
 WebSite\Core\Query\Filter.xml  
 FILTER\_DATA\_BY\_ID (   
 FILTER.xml#FILTER\_DATA\_BY\_ID)

#### 2.1.6.2 /

:

```

<root USER_ID="1">
  <data ORIGINAL_QUERY="UNIT_TEST_DATA.xml#SOURCE_DATA"
  FILTER_QUERY="UNIT_TEST_DATA.xml#FILTER_DATA" MIN_FIELD="1" MAX_FIELD="3"
  COMMON_PARAMS="CMN">
    <data PARAM1="1" PARAM2="2"/>
    <data PARAM1="2" PARAM2="3"/>
  </data>
</root>

```

:

UNIT\_TEST\_DATA.xml#SOURCE\_DATA

```

<root USER_ID="1">
  <data COMMON_PARAMS="CMN" PARAM1="1" PARAM2="2"/>
</root>

```

UNIT\_TEST\_DATA.xml#FILTER\_DATA

```

<root USER_ID="1">
  <data COMMON_PARAMS="CMN" PARAM1="2" PARAM2="3"/>
</root>

```

**FIELD** < MIN\_FIELD **FIELD** > MAX\_FIELD.

#### 2.1.6.3

1. ORIGINAL\_QUERY ,  
 .

2. **FILTER\_QUERY** ,  
 .  
 MIN\_\*="..." MAX\_\*="..." :  
 a. \* - ,  
 b. ( , ,  
 ).  
 c. ( , MAX\_\* - )  
 d. MIN\_\* - , MAX\_\* -  
 e. MIN\_\*, MAX\_\* ,  
 f. , , ,  
 .
3. **ORIGINAL\_QUERY** ID,  
 .
4. **FILTER\_QUERY** ID,  
 .
5. root root  
**ORIGINAL\_QUERY FILTER\_QUERY**
6. , **ORIGINAL\_QUERY, FILTER\_QUERY** MIN\_\* MAX\_\*  
 data **ORIGINAL\_QUERY**  
**FILTER\_QUERY.**
7. data **ORIGINAL\_QUERY,**  
 - **FILTER\_QUERY.**
8. **FILTER\_QUERY,** ID .
9. (**ORIGINAL\_QUERY**) ID .

## 2.2

:  
 \_\_\_\_\_ (**LAYERS**)  
 \_\_\_\_\_ (**STYLE**)  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (**baseLayers**)

### 2.2.1 (LAYERS)

:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ **dataProvider**  
 \_\_\_\_\_ **layer**  
 \_\_\_\_\_ **layer**

### 2.2.1.1

WebSite\Core\Query

\*\_Layers.xml

```

:
<root version="5.5.0.0" descr=" " name="POI">
  <dataProvider type="layers" source="POI_SUB_LAYERS.xml"/>
  <dataProvider type="style" source="POI_STYLE.xml"/>

  <layer id="WEB50_POI_POINT" comment="WEB50.POI_POINT" descr=" "
projection="EPSG:4284" type="common" labelField="NAME" classField="TYPE_CL" spacing="common"
zoomMin="0" zoomMax="12" cover="false" fitMap="false" order="5" visible="true" topology="point">
  <dataProvider type="propertiesPanel" source="ALL_PROP_LIST.xml#WEB50_POI_POINT" />
  <dataProvider type="style" source="POI_STYLE.xml#WEB50_POI_POINT" />
  <dataProvider type="semantic" source="POI_SEM.xml#WEB50_POI_POINT" />
  <dataProvider type="spatial" source="POI_GEO.xml#WEB50_POI_POINT" />
</layer>
  <layer id="WEB50_POI_TRACK" comment="WEB50.POI_TRACK" descr=" " projection="EPSG:4284"
zoomMin="0" zoomMax="18" type="common" labelField="NAME" classField="TYPE_CL" spacing="common"
cover="false" fitMap="false" order="10" visible="true" topology="line" >
  <dataProvider type="propertiesPanel" source="ALL_PROP_LIST.xml#WEB50_POI_TRACK" />
  <dataProvider type="style" source="WEB50_POI_TRACK" />
  <dataProvider type="semantic" source="POI_SEM.xml#WEB50_POI_TRACK" />
  <dataProvider type="spatial" source="POI_GEO.xml#WEB50_POI_TRACK" />
</layer>
</root>

```

### 2.2.1.2

```

name - ( );
descr - ( ) ( );
version - ( ).

```

### 2.2.1.3

**dataProvider**

```

dataProvider,
( type="style"),
( type="layers") (
).

```

```

<dataProvider type="layers" source="POI_SUB_LAYERS.xml"/>

```

```

, url .
( ),
.

```

### 2.2.1.4

**layer**

```

id - ( ).
!
descr - ( ,
) ( ).
;
order - ( );
visible - - ( ) (
);
topology - : point, line,polygon.
( );

```

```

projection - http://spatialreference.org/ref/ -
42 (EPSG:4284), «EPSG:5807», WGS84
(EPSG:900913) ( );

type - system|common|user.
( );

labelField - ( );

classField - ( );

spacing - ; common - ,
,
( );
cover - , (
, ) (
( );
fitMap - , ( ) ( );
zoomMin - , ( 0
20-24 - ) ( ).
, 0, NaN, -1.;
zoomMax - , ( 1
20-24 - ) ( ).
, NaN, -1;
! zoomMin, zoomMax ,
,
,
,

```

### 2.2.1.5 *layer*

```

        (
            type
        ).
    <dataProvider type="..." source="..." />
        source FILE_NAME.EXT#id,
    URL. id,
    dataProvider type.
    29.10.2013 :
    <dataProvider type="propertiesPanel" source="ALL_PROP_LIST.xml#WEB50_POI_POINT"
/> -
    <dataProvider type="style" source="POI_STYLE.xml#WEB50_POI_POINT" /> -
    <dataProvider type="semantic" source="POI_SEM.xml#WEB50_POI_POINT" /> -

```



```

<MIStyle>
  <!--                               MapInfo -->
  <data>
  </data>
</MIStyle>
<IMGStyle>
  <!--                               IMG -->
  <data type0=""
        type1=""
        type2="" />
</IMGStyle>
<VRMLStyle>
  <!--                               VRML      -->
  <data process=""
        viewpoint="">
  </data>
</VRMLStyle>
</Style>

```

- **id**="" —

- **descr**="" —
- **short\_name**="" —
- **comment**="" -

- **<value></value>** -

- STYLE,
- TYPE,
- ,
- - ,
- - .

- **<zoomMin></zoomMin>** —

( ' 0 25). -

- **<zoomMax></zoomMax>** —

( ' 0 25). -

- 

- 

-

id <value> ,

:

1 <zoomMin>25</zoomMin><zoomMax>16</zoomMax>...,

2 <zoomMin>15</zoomMin><zoomMax>9</zoomMax>...,

3 <zoomMin>8</zoomMin><zoomMax>8</zoomMax>...,

4 <zoomMin>25</zoomMin><zoomMax>16</zoomMax>....

#### 2.2.2.2

:

•

•

**Well-known form.**

•



1.

	XML	
	<IconStyle> <Icon>	
	<href>Public/assets/image.png</href>	
	<form>bitmap</form>	Bitmap –
	<size>16</size>	- 16.
	</Icon>	
	<rotation>R_ANGLE</rotation>	JS - 0.
	</IconStyle>	
	<b>Well-known form</b>	
	<IconStyle> <Icon>	
	<form>triangle</form>	triangle – circle – square – star – cross – X - X
	<size>16</size>	- 16
	</Icon>	
	<color>FF000000</color>	FF000000
	<outline>1</outline>	0 – 1 – - 0.
	<rotation>R_ANGLE</rotation>	JS - 0.
	</IconStyle>	
	<IconStyle> <Icon>	JS
	<form>symbol</form>	JS
	<font>url</font>	URL ( )
	<position>number</position>	
	<size>16</size>	- 16
	</Icon>	
	<color>FF000000</color>	FF000000
	<outline>1</outline>	0 – 1 – - 0.
	<haloColor>FFFFFFFF</haloColor>	FFFFFFFF. JS
	<rotation>R_ANGLE</rotation>	JS - 0.

	</IconStyle>	
--	--------------	--

:

```

<Style      id="PODS_CLOSURE"      schema="PODS"      table="CLOSURE"      comment="PODS.CLOSURE"
descr="      " short_name="      " topology="1">
  <!--      4.3 C1100037 -->
  <zoomMin>0</zoomMin>
  <zoomMax>1500</zoomMax>
  <IconStyle>
    <Icon>
      <href>Public/assets/CLOSURE.png</href>
      <form>bitmap</form>
      <size>16</size>
    </Icon>
    <color>FF000000</color>
    <outline>0</outline>
  </IconStyle>
</Style>

```

### Well-known form

```

<Style      table="ILI_DATA_JUNCTION"      schema="PODS"      id="PODS_ILI_DATA_JUNCTION"
comment="PODS.ILI_DATA_JUNCTION">
  <zoomMin>NaN</zoomMin>
  <zoomMax>NaN</zoomMax>
  <IconStyle>
    <Icon>
      <form>triangle</form>
      <size>10</size>
    </Icon>
    <color>FFFFFFFF</color>
    <outline>1</outline>
  </IconStyle>
</Style>

```

### 2.2.2.3

:

•

•

,

2.

	XML	
	<LineStyle>	
	<color>FF000000</color>	FF000000
	<width>1</width>	
	<perpendicularOffset>0</perpendicularOffset>	0.
	<pattern>	
	<join>miter  <u>round</u>  bevel</join>	miter – round – bevel –
	<caps>butt  <u>round</u>  square</caps>	butt – round – square –
,	<marker-start><IconStyle/></marker-start>	JS
,	<marker-mid step="0"> <IconStyle/></marker-middle>	step 0, JS
,	<marker-end><IconStyle/></marker-end>	JS
	<dasharray>1 1</dasharray>	
	</pattern>	
	</LineStyle>	
,	<LineStyle> <color>FF000000</color> </LineStyle>	( )

#### 2.2.2.4

.	<LineStyle> <color>FF000000</color> <width>1</width> </LineStyle> <LineStyle> <color>FFFFFFF</color> <width>5</width> </LineStyle>	.
.	<PolyStyle>	
.	<color>FF000000</color>	, FF000000.
	<fill>0</fill>	1: 0:
	<outline>1</outline>	
.	<fillPattern> <u>solid</u>  bitmap</fillPattern>	solid bitmap JS
	<fillUrl>/Public/assets/FillPatterns/style1.png</fillUrl>	JS png.

### 2.2.2.5

```

-      (LabelStyle):
-          LABEL. (Arial, 10)
-          ,
-          ,
-          LABEL
-          <LabelStyle/>, 0 LabelStyle/auto.

```

4.

	<LabelStyle>	
	<zoomMin>NaN</zoomMin> <zoomMax>NaN</zoomMax>	
	<color>FF000000</color>	
	<fontSize>10</fontSize>	
	<bold>0</bold> <italic>0</italic> <underline>1</underline>	
	<duplicate>1</duplicate>	
	<overlap>1</overlap>	
	<align>middle top bottom left right center</align>	
	<fontFamily>Arial</fontFamily>	
	<scale>true false</scale>	
	<rotation>R_ANGLE</rotation>	

:

<LabelStyle>  
<zoomMin>NaN</zoomMin>  
<zoomMax>NaN</zoomMax>

```

        <color>FF000000</color>
        <fontSize>10</fontSize>
        <bold>0</bold>
        <italic>0</italic>
        <underline>1</underline>
        <duplicate>1</duplicate>
        <overlap>1</overlap>
    </LabelStyle>

```

### 2.2.2.6 *IMG-*

```

<IMGStyle>
    <!--                                IMG -->
    <data name=" " <!--                                -->
        type0=" " <!--                                -->
        type1=" " <!--                                -->
        type2=" " /> <!--                                -->
</IMGStyle>

```

### 2.2.2.7 *VRML-*

```

<VRMLStyle>
    <!--                                VRML -->
    <data process=" " <!--                                -->
        viewpoint=" "
        table=" " > <!--
    -->
    </data>
</VRMLStyle>

```

### 2.2.2.8 *MapInfo*

```

                                MapInfo (      MI_STYLE)
                                :

<MIStyle>
    <!--                                MapInfo -->
    <data> Font("Times New Roman CYR",257,10,5263440,16777215)</data>
</MIStyle>

                                :

<MIStyle>
    <!--                                MapInfo -->
    <data> Symbol(46,255,12,"UZgrunt_bolota",1,0)</data>
</MIStyle>

```

### 2.2.3

«  
», : dbQuery, dbCommand, xmlQuery,  
xmlCommand, exslt.

### 2.2.4

«  
», : geoQuery, geoCommand, geoReader,  
xmlQuery, xmlCommand, exslt.

### 2.2.5 *(baseLayers)*

:

---

layer



extlayer**2.2.5.1**

WebSite\Core\Query

*layersUrl.*

```

<root version="5.5.1.1">
  <layer id="{MapId}" type="{MapType}">
    ...
    <properties>
      ...
    </properties>
  </layer>
  <extlayer id="{MapId}" type="{MapType}">
    ...
    <layer id="{MapId}" type="{MapType}">
      ...
      <properties>
        ...
      </properties>
    </layer>
    <layer ...>
      ...
    </layer>
  </ extlayer >
  <layer ...>
    ...
  </layer>
</root>

```

**2.2.5.2***layer*gis.map.layer.OSMLayer –gis.map.layer.OSMMultiLayer –gis.map.layer.DynamicWmsLayer – WMSgis.map.layer.WMSCadastre –org.openscales.core.layer.osm.Mapnik – OpenStreetorg.openscales.core.layer.Layer –gis.map.layer.RosLayer – WMS

gis.map.layer.XYZ –  
OSM TMS,

**2.2.5.2.1**

&lt;layer/&gt; -

id="MapId" –

```

type="MapType" -
gis.map.layer.OSMLayer, gis.map.layer.DynamicWmsLayer, gis.map.layer.WMSCadastre,
org.openscales.core.layer.osm.Mapnik, org.openscales.core.layer.Layer, gis.map.layer.RosLayer

(
):

<name> </name> -
<isBaseLayer>true</isBaseLayer> -
true.

<visible>true</visible> -
true.

<projection>EPSG:900913</projection> -
, EPSG:900913.

<proxy></proxy> -
(
).

:

<properties/> -

:

<showInfo/> -
: true

<layers/> - C
" ,"

<rasterLayers/> - C
" ," « »

<zoomLevels/> -
: 20

```

#### 2.2.5.2.2 gis.map.layer.OSMLayer –

```

:

<url>{SERVER}/Public/Data/Maps/TileTrees/Default/</url> -
{SERVER},

<extension>.png</extension> -
, .png

:

<layer id="MapGenTiles" type="gis.map.layer.OSMLayer">
  <name> </name>
  <url>{SERVER}/Public/Data/Maps/TileTrees/Default/</url>
  <isBaseLayer>true</isBaseLayer>
  <visible>true</visible>
  <projection>EPSG:900913</projection>
  <proxy></proxy>
  <extension>.png</extension>
  <properties>
    <showInfo>true</showInfo>
    <layers>M_1;M_5;M_10;M_25;M_100;M_200;M_1K;M_R;M_W</layers>
    <zoomLevels>22</zoomLevels>
  </properties>
</layer>

```

#### 2.2.5.2.3 gis.map.layer.OSMMultiLayer –

```

! ( EPSG:3395)
EPSG:900913.
ECW
:
<urls/> - ,
<url/> <rasterUrl/>
<url>{SERVER}/Public/Data/Maps/TileTrees/Default/</url> -
{SERVER},
<rasterUrl>{SERVER}/Public/Data/Maps/TileTrees/PodsRaster/</rasterUrl> -
« »
:
extension=".png" - , .png
opacity="number" - ( 0 1).
useInterimTilesOnError="false" - , true
false. false.
notInterimTilesOnErrorLevels ,
( )
:
useEmail="true" -
true false. false.
useEmailFullAttach="true" - , true false.
( )
true.
zouitURL="http://pkk5.rosreestr.ru/api/features/" -
cadastreURL="http://pkk5.rosreestr.ru/api/features/" -
:
<layer id="MixedTiles" type="gis.map.layer.OSMMultiLayer">
  <name> </name>
  <isBaseLayer>true</isBaseLayer>
  <visible>true</visible>
  <projection>EPSG:900913</projection>
  <proxy></proxy>
  <properties>
    <showInfo>true</showInfo>
  </properties>
  <layers>M_1;M_5;M_10;M_25;M_100;M_200;M_1K;M_R;M_W</layers>
  <zoomLevels>22</zoomLevels>
</properties>
<urls>
  <url extension=".png" opacity="0.8" > {SERVER}/Public/Data/Maps/TileTrees/Default/</url>
  <url extension=".png" opacity="0.2" > {SERVER}/Public/Data/Maps/TileTrees/Default1/</url>
</urls>
</layer>

```

#### 2.2.5.2.4 gis.map.layer.DynamicWmsLayer –

WMS

```

:
<url>WmsServicePage.aspx/WmsOperation</url> - WMS
( ).

```

```

<layer id="VectorMap" type="gis.map.layer.DynamicWmsLayer">
  <name>VectorMap</name>
  <isBaseLayer>false</isBaseLayer>
  <visible>false</visible>
  <projection>EPSG:900913</projection>
  <url>WmsServicePage.aspx/WmsOperation</url>
  <properties>
    <showInfo>true</showInfo>
    <layers>M_1;M_5;M_10;M_25;M_100;M_200;M_1K;M_R;M_W</layers>
    <zoomLevels>22</zoomLevels>
  </properties>
</layer>

```

#### 2.2.5.2.5 gis.map.layer.WMSCadastre –

```

<url> http://maps.rosreestr.ru/ArcGIS/services/CadastreNew/CadastreWMS/MapServer/WMSServer?</url> -
WMS ( ).
<layers>5,6,8,10,11,12,13,15,16,17,18,19</layers> -
<restURL>http://pkk5.rosreestr.ru/arcgis/rest/services/Cadastre/Cadastre/MapServer/ex
port?</restURL> - JS
<zouitURL>http://pkk5.rosreestr.ru/arcgis/rest/services/Cadastre/ZONES/MapServer/exp
ort?layers=show:4</zouitURL> - JS
<bordersGKNURL>http://pkk5.rosreestr.ru/arcgis/rest/services/Cadastre/BordersGKN/M
apServer/export?layers=show:32,33</bordersGKNURL> - JS
<thematicURL>http://pkk5.rosreestr.ru/arcgis/rest/services/Cadastre/Thematic/MapServ
er/export?layers=show:6,7,13,14</thematicURL> - JS

```

```

<layer id="KADASTR" type="gis.map.layer.WMSCadastre">
  <name>KADASTR</name>
  <url>http://maps.rosreestr.ru/ArcGIS/services/CadastreNew/CadastreWMS/MapServer/WMSServer?</url>
  <layers>5,6,8,10,11,12,13,15,16,17,18,19</layers>
  <styles>default,default,default,default,default,default,default,default,default,default</styles>
  <isBaseLayer>false</isBaseLayer>
  <visible>false</visible>
  <projection>EPSG:3857</projection>
  <proxy></proxy>
</layer>

```

#### 2.2.5.2.6 org.openscales.core.layer.osm.Mapnik – OpenStreet

```

<layer id="OSMapnikLayer" type="org.openscales.core.layer.osm.Mapnik">
  <name>OpenStreetMap</name>
  <isBaseLayer>false</isBaseLayer>
  <visible>false</visible>
  <projection>EPSG:900913</projection>
  <proxy></proxy>
</layer>

```

### 2.2.5.2.7 org.openscales.core.layer.Layer –

```
<layer id="emptyLayer" type="org.openscales.core.layer.Layer">
  <name>                </name>
  <isBaseLayer>false</isBaseLayer>
  <visible>false</visible>
  <srsCode>EPSG:900913</srsCode>
  <proxy></proxy>
</layer>
```

### 2.2.5.2.8 gis.map.layer.RosLayer –

WMS

```
<url>WmsServicePage.aspx/WmsOperation</url> - WMS
( ).
```

```
<layer id="RosMap" type="gis.map.layer.RosLayer">
  <name>                </name>
  <url>WmsServicePage.aspx/WmsOperation</url>
  <isBaseLayer>true</isBaseLayer>
  <visible>true</visible>
  <projection>EPSG:900913</projection>
  <properties>
    <showInfo>true</showInfo>
    <layers>M_1;M_5;M_10;M_25;M_100;M_200;M_1K;M_R;M_W</layers>
  </properties>
</layer>
```

### 2.2.5.2.9 gis.map.layer.XYZ –

OSM, TMS

```
Proj4js
! SAS.Planet, ( EPSG:3395),
EPSG:900913
```

```
<layer id="YANDEX_MAPS_SCHEMA_OSM" type="gis.map.layer.XYZ">
  <name>                </name>
  <url> https://vec0{1-
3}.maps.yandex.net/tiles?l=map&x={x}&y={y}&z={z}&scale=1&lang=
ru_RU</url>
  <projection>EPSG:3395</projection>
</layer>

<layer id="YANDEX_MAPS_SCHEMA_TMS" type="gis.map.layer.XYZ">
  <name>                </name>
  <!-- SAS.Planet-->
  <url>{SERVER}/Public/Data/Maps/TileTrees/YandexVector/{z}/{x}/{-y}.jpg</url>
  <projection>EPSG:3395</projection>
</layer>
```

### 2.2.5.3 *extlayer*

```

        :
        _____
        |gis.map.layer.ExtMultiLayer – _____|layer
        |_____|
2.2.5.3.1
    <layer/> - _____,
        :
        id="MapId" – _____,
        type="MapType" – _____ :
gis.map.layer.OSMLayer, _____gis.map.layer.DynamicWmsLayer, _____gis.map.layer.WMSCadastre,
org.openscales.core.layer.osm.Mapnik, org.openscales.core.layer.Layer, gis.map.layer.RosLayer
        ( _____ ):
    <name> _____ </name> - _____,
    <isBaseLayer>true</isBaseLayer> - _____
        true.
        .

```

2.2.5.3.2 *gis.map.layer.OSMLayer* – \_\_\_\_\_, \_\_\_\_\_ **layer**  
 \_\_\_\_\_ layer \_\_\_\_\_ layer.

## 2.3 (TREE)

```

        :
        _____

```

### 2.3.1

```

        WebSite\Public\Modules\Tree _____ xml.
        ______TREE,
        :
        <?xml version="1.0" encoding="utf-8"?>
        <dataset name="{ _____ }" >
            <group comment="{comment}">
                <invoke id="{ invoke_id }" type="{event_type}" event_name="{event_name}" icon="{ ICON_PATH
}icon.png" [tooltip="{tooltip}"]>
                    [<var name="{ param_name }" value="{ param_value }"/>]
                    ...
                </invoke>
            </group>

            <tree max_items="3">
                [<context_menu run_invoke="{invoke_id}" param_name="{param_value}"/>]
                <level format="{format}" icon="Public/assets/2.png" max_items="5" checkbox_type="childBased">
                    [<query source="{source_path}" param="value" />]
                    [<context_menu run_invoke="{invoke_id}" param_name="{param_value}"/>]
                    [<on_check run_invoke="{invoke_id}" param_name="{param_value}"/>]
                    [<on_uncheck run_invoke="{invoke_id}" param_name="{param_value}"/>]
                    <level...
                </level>
                ....
            </tree>
        </dataset>
        :

```

- `<dataset > </dataset>` - ,
  - o `name=" " -`
  - `<group > </group>` - , 1-.. , ,
    - o `comment=" 2" -`
- `<invoke > </invoke>` - / /..
  - o `id="treeRefresh" - id`
  - o `event_name= ( , control.events.TreeEvent)`
  - o `type= «local|global», «local»,`  
`«global» -`
  - o `tooltip=" 1" - tooltip ( )`
  - o `icon="{ICON_PATH}/tool1.png" - ({ICON_PATH}-`  
`http://site.com/...`
  - o `<var name="var4" value="4" /> <invoke>`
    - `name="var4" -`
    - `value="4" - ,`
    - `<tree > </tree> -`
  - o `toolbarStyle="toolbarStyle" -`
  - o `toolbarStyle="toolbarButtonStyle" -`
    - `<context_menu/> -`
  - o `run_proc_name="tree_refresh" -`  
`<invoke>`
  - o `var2="{table}" -`  
`<invoke>; {table} -`  
`, «{table}».`
- `<level> </level>` -
  - o `format="{ { } " -`  
`{ } - {table}, + ,`
  - o `levelParams="layerId=WEB_POI_POINT;eventName=MyEvent" -`  
`layerId, «;»`
  - o `icon="{ }" - ,`

```

o "{OPENSACLE}" - openscales,

o "{
    ,
}" - {Style.icon}, {icon}

o "Public/assets/Catalog.png" -

o max_items="5" -

o checkbox_type="" - checkbox. - " (
    ), 'none' (
    ), 'childBased' (
    )

• <context_menu/> -

o run_proc_name="tree_refresh" -
    <invoke>

o var2="{table}" -
    <invoke>; {table} -

    , «{table}».

! <context_menu/>

• <on_check run_invoke="tool1" var2="3" /> -
    <context_menu/> ,

• <on_uncheck run_invoke="check" /> -
    <context_menu/> ,

• <query source="{
    }" params... ></query> -
    <level>.

o source - "TREE.xml#EXAMPLE_STYLE"

o params -
    var1="11"

:

<?xml version="1.0" encoding="utf-8"?>
<dataset name="
    /
">
    <group comment="
        " >
        <invoke id="gridTool" type="global" event_name="FULL_GRID_EVENT_ID"
            tooltip="
                "
            icon="Public/assets/GRID.png">
            <var name="gridId" value="DEFAULT_GRID" />
        </invoke>
        <invoke id="gridTool1" type="global" event_name="createObject"
            tooltip="
                "
            icon="Public/assets/addObject.png">
            <var name="gridId" value="DEFAULT_GRID" />
        </invoke>
        <invoke id="gridTool2" type="global" event_name="createObject"
            tooltip="
                "
            icon="Public/assets/addObject.png">
            <var name="gridId" value="DEFAULT_GRID" />
        </invoke>
        <invoke id="checkBoxTool" type="global" event_name="checkBoxEvent"
            tooltip="
                /
                "
        >

```



```

        <var layerParams="" />
    </invoke>
</group>
    <tree toolbarStyle="toolbarStyle" toolbarButtonStyle="toolbarButtonStyle"
icon="Public/assets/root.ico" max_items="20">
        <level format="{descr}" icon="OPENSACLE" levelParams="layerId=WEB50_POI_POINT"
layerId="WEB50_POI_POINT" max_items="20">
            <query source="TREE_POI.xml#BASE_STYLE" TABLE_NAME="POI_POINT" > </query>
            <context_menu run_invoke="gridTool" gridId="{table}_LIST" />
            <context_menu run_invoke="gridTool1" gridId="{table}_LIST" />
            <on_check run_invoke="checkBoxTool" layerParams="layerId=WEB50_POI_TRACK;" />
            <on_uncheck run_invoke="checkBoxTool" layerParams="layerId=WEB50_POI_TRACK;" />
        </level>
        <level format="{descr}" icon="OPENSACLE" levelParams="layerId=WEB50_POI_TRACK"
layerId="WEB50_POI_TRACK" max_items="20">
            <query source="TREE_POI.xml#BASE_STYLE" TABLE_NAME="POI_TRACK" > </query>
            <context_menu run_invoke="gridTool" gridId="{table}_LIST" />
            <context_menu run_invoke="gridTool1" gridId="{table}_LIST" />
            <on_check run_invoke="checkBoxTool" layerParams="layerId=WEB50_POI_TRACK;" />
            <on_uncheck run_invoke="checkBoxTool" layerParams="layerId=WEB50_POI_TRACK;" />
        </level>
    </tree>
</dataset>

```

:

```

<?xml version="1.0" encoding="utf-8"?>
<dataset name="" version="5.4.0.0">
    <group comment="">
        <invoke id="showFilter" type="global" event_name="FULL_GRID_ROUGH_FILTER" tooltip="
(
)" icon="Public/assets/GRID.png">
            <var name="gridId" value="DEFAULT_GRID" />
            <var name="requestId" value="PODS_DICT.xml#PODS_ILI_INSPECTION" />
            <var name="variableName" value="ILI_INSPECTION_ID" />
            <var name="winTitle" value="" />
            <var name="maxRecords" value="5" />
        </invoke>
    </group>
    <tree max_items="20" toolbarStyle="toolbarStyle" toolbarButtonStyle="toolbarButtonStyle">
        <level format="{descr}" icon="OPENSACLE" max_items="20" checkbox_type=""
levelParams="layerId=PODS_ILI_DATA;">
            <query source="TREE.xml#BASE_STYLE" TABLE_NAME="ILI_DATA" FILE_NAME="PODS_INSP_STYLE.xml" />
            <context_menu run_invoke="showFilter" gridId="PODS_{table}_LIST" />
        </level>
    </tree>
</dataset>

```

```
<var name="gridId" value="DEFAULT_GRID" /> -
```

```
<var name="requestId" value="PODS_DICT.xml#PODS_ILI_INSPECTION" /> -
```

```
<var name="variableName" value="ILI_INSPECTION_ID" /> - ,
```

```
<var name="winTitle" value="" /> -
```

```
<var name="maxRecords" value="5" /> -
```

```
<var name="filter" value="ILI_INSP_FILTER,PI_CP_INSP_FILTER,..." /> -
```

,

value.

:

```

<?xml version="1.0" encoding="utf-8"?>
<dataset name="" version="5.4.0.0">
    <group comment="">

```



```

        propertyPanelName="WEB50_POI_POINT"
        excelTemplateName="WEB50_POI_POINT_LIST"
        dataRequest="POI_GRID.xml#WEB50_POI_POINT"
        totalRecordsRequest="POI_GRID.xml#WEB50_POI_POINT_CNT">
<!--      -->
<grids:buttons>
    <picPutton:GridButton source="../../Public/assets/filter.png"
        height = "16" width="16"
        tooltip=" "
        clickEvent="gridFilterEvent"
        isEnabled="true">
    </picPutton:GridButton >
</grids:buttons>
<grids:columns>
<!--      -->
<columns:AllCheckBoxGridColumn columnWidthMode="fixed" width="15" sortable="false"
selectedKeyField="ID"/>
    <!--      -->
    <columns:GridColumn headerText=" " width="200" dataField="DESCR"
itemRenderer="ru.corelight.view.renderer.StringRenderer" filterComparisionType="string"
editable="false"
filterRenderer="ru.corelight.view.controls.dynamicFilter.MultiFilterControl"/>
    <!--      -->
    <columns:GridColumn headerText = "X" dataField = "X" width="200"
filterComparisionType = "number"
filterRenderer="ru.corelight.view.controls.dynamicFilter.MultiFilterControl"
itemRenderer="ru.corelight.view.renderer.NumberRenderer?format=3"/>
    <!--      -->
    <columns:GridColumn headerText="TIME_STAMP" dataField="TIME_STAMP"
filterComparisionType="date"
filterRenderer="ru.corelight.view.controls.dynamicFilter.MultiFilterControl"
itemRenderer=" ru.corelight.view.renderer.DateRenderer?format=DD.MM.YY JJ:NN:SS"/>
    <!--      -->
    <columns:GridColumn headerText="IS_PUBLIC" dataField="IS_PUBLIC"
filterComparisionType="boolean"
filterControl="com.flexicious.controlsTriStateCheckBox" itemRenderer="
ru.corelight.view.renderer.BooleanRenderer?eventType=events.ShowAlertEvent;eventDat
a={scale:2, title:' '}}"/>
    <!--      -->
    <columns:GridColumn headerText=" " width="100" dataField="STATUS_ID"
sortField="STATUS_ID_LBL"
itemRenderer="ru.corelight.view.renderer.BufferRenderer?filterRequestId=POI_DICT.xml#WE
B50_B_STATUS_REF" filterComparisionType="array"
filterRequestId="POI_DICT.xml#WEB50_B_STATUS_REF" editable="false"
filterRenderer="ru.corelight.view.controls.dynamicFilter.InListControl"/>
    <!--      -->
    <columns:GridColumn headerText="ON_MAP" dataField="ON_MAP" itemRenderer="
ru.corelight.view.renderer.ButtonRenderer?propertyValue=true,
eventType=events.ShowAlertEvent;eventData={scale:2, title:' '}}"/>
    <!--      -->
    <columns:GridColumn headerText="LINK" itemRenderer="
ru.corelight.view.renderer.LinkRenderer?title=
;
eventType=events.ShowAlertEvent;eventData={scale:2, title:' '}}"/>
    <!--      -->
    <columns:GridColumn headerText="IMAGE" itemRenderer="
ru.corelight.view.renderer.ImageRenderer?propertyName='ON_MAP';
propertyValue=true;path=images/print.png;eventType=events.ShowAlertEvent;eventData
={scale:2, title:' '}}"/>
    <!--      -->
    < columns:GridColumn headerText = " " width="10" sortable="false"
itemRenderer="ru.corelight.view.renderer.ImageRenderer?path=Public/assets/showOnCa
s.png;eventName=showOnCASEHZEvent;task=cas_ehz_intens;toolTip=
;openNewWnd=true"
    <!--      (
    <!--      ) -->

```

```

<columns:GridColumn headerText="" width="0" sortable="false" editable="false"
columnWidthMode="percent"/>
</grids:columns>
</grids:Grid >

```

### 2.4.2

```

<grids:Grid xmlns:grids="ru.corelight.grids.*" xmlns:columns="ru.corelight.grids.columns.*" -
,
:
enableFilters="true" -
enableCopy="true" -
enableFooters="false" - footer
enablePaging="true" -
enablePrint="true" -
percentWidth="100" percentHeight="100" -
( , width height)
pagerPosition="bottomMiddle" -

pageSize="50" -
initialSortField="ID" -
initialSortAscending="true" -

footerRowHeight="60" - footer
filterPageSortMode="server" - (
)
pagerRenderer="view.controls.TablePagerControl" - (
)
pagerRowHeight="50" -
allowMultipleSelection="true" -
styleName="dgInfoForm" - ,
:
id="grid1" - ,
percentWidth="100" percentHeight="100" -
( , width height)
propertyPanelName="WEB50_POI_POINT" -
excelTemplateName="WEB50_POI_POINT_LIST" - excel
lockedColumnCount="6" -

```

### 2.4.3

```

,
,
<grids:buttons>
<picPutton:GridButton
source="Public/assets/picture.png" -
tooltip=" " -

```

```

width="16" -
height="16" -
clickEvent="clickEventName" - (
: , (...)
isEnabled="null|length|false|true" -
null,length,

true|false - /
null -
length -
selectedObjects="this" -
selectedObjects
>
</picPutton:GridButton

```

#### 2.4.4

```

<columns:GridColumn
headerText=" " - (
dataField="NAME" - ( ! )
filterComparisionType="string" - (
string|number|boolean|array|date)
filterRenderer="view.controls.dynamicFilter.MultiFilterControl" -
(
view.controls.dynamicFilter.MultiFilterControl ru.corelight.view.controls.dynamicFilter.InListControl -
)
itemRenderer="ru.corelight.view.renderer.StringRenderer" -
(
ru.corelight.view.renderer.StringRenderer| ru.corelight.view.renderer.DateRenderer|
ru.corelight.view.renderer.NumberRenderer)
width="200" -
sortable="false" - , true.
false
<columns:AllCheckBoxGridColumn
columnWidthMode="fixed" -
width="15" sortable="false"
selectedKeyField="ID" - ,

```

#### 2.4.5

```

<columns:GridColumn headerText="TIME_STAMP" dataField="TIME_STAMP"
filterComparisionType="date"
filterRenderer="ru.corelight.view.controls.dynamicFilter.MultiFilterControl"
itemRenderer="ru.corelight.view.renderer.DateRenderer?format=DD.MM.YY JJ:NN:SS" />

itemRenderer="ru.corelight.view.renderer.DateRenderer?format=DD.MM.YY JJ:NN:SS"

```

## 2.4.6

```
<columns:GridColumn headerText="" width="10" sortable="false"
itemRenderer="ru.corelight.view.renderer.ImageRenderer?path=Public/assets/exportGPX.png
;eventName=ru.corelight.business.events.ExportToGPXEvent;toolTip=GPX"
editable="false"/>
```

```
headerText="" —
```

```
width="10" —
```

```
itemRenderer="ru.corelight.view.renderer.ImageRenderer?path=Public/assets/exportGPX.png
;eventName=ru.corelight.business.events.ExportToGPXEvent;toolTip=GPX" —
path=Public/assets/exportGPX.png — ,
, ;
```

## 2.4.7

```
<columns:GridColumn headerText="" width="100" dataField="STATUS_ID"
sortField="STATUS_ID_LBL"
itemRenderer="ru.corelight.view.renderer.BufferRenderer?filterRequestId=POI_DICT.xml#WE
B50_B_STATUS_REF" filterComparisonType="array"
filterRequestId="POI_DICT.xml#WEB50_B_STATUS_REF" editable="false"
filterRenderer="ru.corelight.view.controls.dynamicFilter.InListControl"/>
itemRenderer="ru.corelight.view.renderer.BufferRenderer?filterRequestId=POI_DICT.xml#WE
B50_B_STATUS_REF":
```

```
filterRequestId=POI_DICT.xml#WEB50_B_STATUS_REF —
```

```
CODE, DESCR
```

```
filterRenderer="ru.corelight.view.controls.dynamicFilter.InListControl" —
```

```
sortField="STATUS_ID_LBL" —
```

```
(
```

```
)
```

## 2.4.8

```
(itemRenderer="ru.corelight.view.renderer.NumberRenderer")
<colorValidation>,
<colorValidation mode="row|cell" min="
max=" " color=" (hex RGB)"
critical=" " preload="true|false" type=" number|string " />
<colorValidation>:
- mode — "row" —
"cell" —
- min —
- max —
«+/-infinity» -
- color — RGB
https://www.colorschemer.com/color-picker/
- critical —
- preload — "true" —
; "false" —
false.
- type — : "string" —
min max; "number" —
"number".
```

"min" "max".

## 2.5

:

(ALL\_PROP\_LIST)

(\*.mxml)

### 2.5.1

1. 

```

        ).
        SYS_PROP.xml#PROP_LIST
        CLASS_ID={
        -
        }. {
        <dataProvider type="propertiesPanel"
        source="ALL_PROP_LIST.xml#{
        -
        }"/>.
        dataProvider'
        propertiesPanel
        :

        <data id="PODS_ROUTE">
        <panel descr="
        " source="PODS_ROUTE"
        dataRequest="PODS_SEM.xml#PODS_ROUTE" default="true" order="1"/>
        <panel descr="
        " source="PODS_INTERNAL_COATING_ROUTE"
        dataRequest="GAZPROM_SYS_SEM.xml#PODS_INTERNAL_COATING_ROUTE" order="2"/>
        <panel descr="
        " source="PODS_COMMENTS" order="3"/>
        </data>

        descr
        dataRequest -
        (
        (
        ); order -
        ,
        ); default -
        ,
        )
        (<data/>)
        {
        -
        }.mxml
    
```
2. 

```

        .
        -
        .
        ,
        .
    
```
3. 

```

        (@default='true')
        CLASS_ID ID (
        ), FILTER=" ID = {
        -
        }"
    
```
4. 

```

        ID,
        SYS_OBJ_ID={ID
        }.
    
```
5. 

```

        dataRequest,
        .
    
```
6. 

```

        ,
        (
        -
        ).
        SYS_OBJ_ID={ID
        }
    
```

## 2.5.2

## (ALL\_PROP\_LIST)

WebSite\Core\Query\ALL\_PORP\_LIST.xml

```
<data id="WEB50_POI_POINT">
  <panel descr=" " source="WEB50_POI_POINT"
dataRequest="POI_SEM.xml#WEB50_POI_POINT" default="true" order="1" />
  <panel descr=" " source="WEB50_POI_COORD_POINT"
dataRequest="POI_SEM.xml#WEB50_POI_COORD_POINT" order="15" />
</data>
```

```
« » ,
« » ,
.
data id –
panel:
- descr ;
- source ;
- dataRequest – , ;
- default – , ( );
- order – ( , ) ,
, )
```

## 2.5.3

## web.config

```
<clientSettings> :
<!-- , )-->
<!-- Docs, Save, Undo, Delete, ExportGpx, ShowOnMap,
FindRoute, BufferCustom, ExportToExcel, Back, Forward -->
<!-- -->
<add key="map_deny_prop_buttons" value=" _ " />
<!-- -->
<add key="cas_deny_prop_buttons" value=" _ " />
<!-- -->
<add key="schema_deny_prop_buttons" value=" _ " />
<!-- -->
<add key="grid_deny_prop_buttons" value=" _ " />
, « _ »
```

1. Docs –
2. Save –
3. Undo –
4. Delete –
5. ExportGpx – GPX/KML
6. ShowOnMap –
7. FindRoute –
8. BufferCustom –
9. ExportToExcel – Excel
10. Back –
11. Forward –

Web.config:

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
```



## 2.5.4 (\*.mxml)

WebSite\Public\Modules\Form\ .mxml

```
<DATA_EDIT_FORM xmlns="view.data.*" xmlns:controls="view.controls.*"
xmlns:mx=http://www.adobe.com/2006/mxml title=" " width="760"
ext_data_id="POI_EXPORT.xml#POI_POINT" excelTemplate="POI_POINT">
<mx:VBox width="760">
    <mx:HBox percentWidth="100">
...
        </mx:HBox>
    </mx:VBox>
    <validatorsArray>
        <controls:DefaultStringValidator source="{MAIL}" property="text" enabled="false"
minLength="1" requiredFieldError=" ' ' . "
tooShortError=" ' ' . " />
...
    </validatorsArray>
</DATA_EDIT_FORM>
```

```

DATA_GRID_FORM,
    SYS_DOCUMENT_LIST.xml,
    <select script> SYS_SEM.xml#DOCUMENT_LIST </selectScript>:
    <DATA_GRID_FORM percentWidth="100" percentHeight="100" horizontalScrollPolicy="off"
verticalScrollPolicy="off" xmlns="view.data.*" xmlns:controls="view.controls.*"
xmlns:mx="http://www.adobe.com/2006/mxml">
        <DataGridWithScript id="DATA_GRID" percentWidth="100" percentHeight="100"
styleName="dgInfoForm">
            <columns>
                <mx:DataGridColumn headerText=" " dataField="CTIME" />
                <mx:DataGridColumn headerText=" " dataField="USERNAME" />
                <mx:DataGridColumn headerText=" " dataField="CATEGORY" />
                <mx:DataGridColumn headerText=" " dataField="DESCR" />
            </columns>
        </DataGridWithScript>
    </DATA_GRID_FORM>

```

```

</columns>
<selectScript>SYS_SEM.xml#DOCUMENT_LIST</selectScript>
<insertScript>SYS_SEM.xml#DOCUMENT_LIST</insertScript>
<updateScript> UPDATE </updateScript>
<deleteScript>SYS_SEM.xml#DOCUMENT_LIST</deleteScript>
</DataGridWithScript>
</DATA_GRID_FORM>

:

width –

title –
ext_data_id – Excel (
).

excelTemplate – Excel
readOnly ( ) –
INSERT, UPDATE DELETE

excelTooltip ( ) –

:

<mx:VBox> -

<validatorsArray> -
, e-mail,

<insertIfEmpty>true< insertIfEmpty > ( ) –
SELECT ( ),
INSERT UPDATE.
,

width="760">.
<mx:VBox

```

- **VBox** –

([http://help.adobe.com/ru\\_RU/FlashPlatform/reference/actionscript/3/mx/containers/VBox.html](http://help.adobe.com/ru_RU/FlashPlatform/reference/actionscript/3/mx/containers/VBox.html))

- **HBox** –

([http://help.adobe.com/ru\\_RU/FlashPlatform/reference/actionscript/3/mx/containers/HBox.html](http://help.adobe.com/ru_RU/FlashPlatform/reference/actionscript/3/mx/containers/HBox.html))

- **Text** –

([http://help.adobe.com/ru\\_RU/FlashPlatform/reference/actionscript/3/mx/controls/Text.html](http://help.adobe.com/ru_RU/FlashPlatform/reference/actionscript/3/mx/controls/Text.html))

- **TextInput** –  
([http://help.adobe.com/ru\\_RU/AS3LCR/Flash\\_10.0/fl/controls/TextInput.html](http://help.adobe.com/ru_RU/AS3LCR/Flash_10.0/fl/controls/TextInput.html))
- **NumberInput** –
- **ComboBox** –  
([http://help.adobe.com/ru\\_RU/AS3LCR/Flash\\_10.0/fl/controls/ComboBox.html](http://help.adobe.com/ru_RU/AS3LCR/Flash_10.0/fl/controls/ComboBox.html))
- ([http://help.adobe.com/ru\\_RU/AS3LCR/Flash\\_10.0/fl/controls/Button.html](http://help.adobe.com/ru_RU/AS3LCR/Flash_10.0/fl/controls/Button.html))
- :
- 1. , ComboBox.  
: <mx:Button id="BTN\_LIST\_LINE\_ID"  
selectedField="PODS\_LINE" enabled="false" styleName="refList" toolTip="  
" width="16" height="16"/>, id  
BTN\_LIST\_<id ComboBox'a >, selectedField  
, styleName="refList".  
.  
ComboBox  
(  
)  
).
- 2. , ComboBox.  
: <mx:Button  
id="BUTTON\_GROUND\_BED\_EVENT\_ID" selectedField="PODS\_GROUND\_BED"  
enabled="false" styleName="refObject" toolTip="  
" width="16" height="16"/>, id  
BUTTON\_<id ComboBox'a >, selectedField  
, styleName=" refObject ".  
.  
ComboBox'e.
- 3. , IMG- , WRML-  
: <mx:Button  
id="BTN\_FILE\_FILE\_NAME" enabled="false" selectedField="WEB50\_LIB\_DOC"  
label=" " width="120" height="22" tabIndex="5"/>, id  
BTN\_FILE\_<id TextInput FileInput  
>, 3D- , IMG-  
DOC\_VERSION\_ID DOC\_ID,  
DOC\_TYPE\_ID, (37 – 3D- , 38 –  
IMG- , 41 - ).  
.  
– .
- **DateField** –  
([http://help.adobe.com/ru\\_RU/FlashPlatform/reference/actionsript/3/mx/controls/DateField.html](http://help.adobe.com/ru_RU/FlashPlatform/reference/actionsript/3/mx/controls/DateField.html))
- **CheckBox** –  
([http://help.adobe.com/ru\\_RU/AS3LCR/Flash\\_10.0/fl/controls/CheckBox.html](http://help.adobe.com/ru_RU/AS3LCR/Flash_10.0/fl/controls/CheckBox.html))
- **FileInput** – <controls:FileInput id="FILE\_NAME" width="225" height="20"  
fileFilterDescription=" " fileFilterExtension="\*.\*)" uploadPath="LIB\  
tabIndex="4"/> . TextInput  
.  
fileFilterExtension  
( , «\*.\*) -  
«\*.png,\*.jpg,\*.bmp» -  
)  
fileFilterDescription  
( «\*.\*) « » , «\*.png,\*.jpg,\*.bmp»  
« »). uploadPath  
, web.config «DATA\_PATH».
- xmlns:components="ru.corelight.view.components.\*"
- **FilterPopUpButton:**



#### 2.5.4.3.2 DefaultNumberValidator

[http://help.adobe.com/ru\\_RU/FlashPlatform/reference/actionscript/3/mx/validators/NumberValidator.html](http://help.adobe.com/ru_RU/FlashPlatform/reference/actionscript/3/mx/validators/NumberValidator.html)

defaultValue,

#### 2.5.4.3.3 DefaultEmailValidator

[http://help.adobe.com/ru\\_RU/FlashPlatform/reference/actionscript/3/mx/validators/EmailValidator.html](http://help.adobe.com/ru_RU/FlashPlatform/reference/actionscript/3/mx/validators/EmailValidator.html)

defaultValue,

#### 2.5.4.3.4 DefaultDateValidator

[http://help.adobe.com/ru\\_RU/FlashPlatform/reference/actionscript/3/mx/validators/DateValidator.html](http://help.adobe.com/ru_RU/FlashPlatform/reference/actionscript/3/mx/validators/DateValidator.html)

defaultValue,

#### 2.5.4.3.5 ComboBoxValidator

[http://help.adobe.com/ru\\_RU/FlashPlatform/reference/actionscript/3/mx/validators/Validator.html](http://help.adobe.com/ru_RU/FlashPlatform/reference/actionscript/3/mx/validators/Validator.html)

- notAllowedValues –
- notAllowedError –
- notDefaultError –

## 2.6 ( *UITasks* )

---



---



---

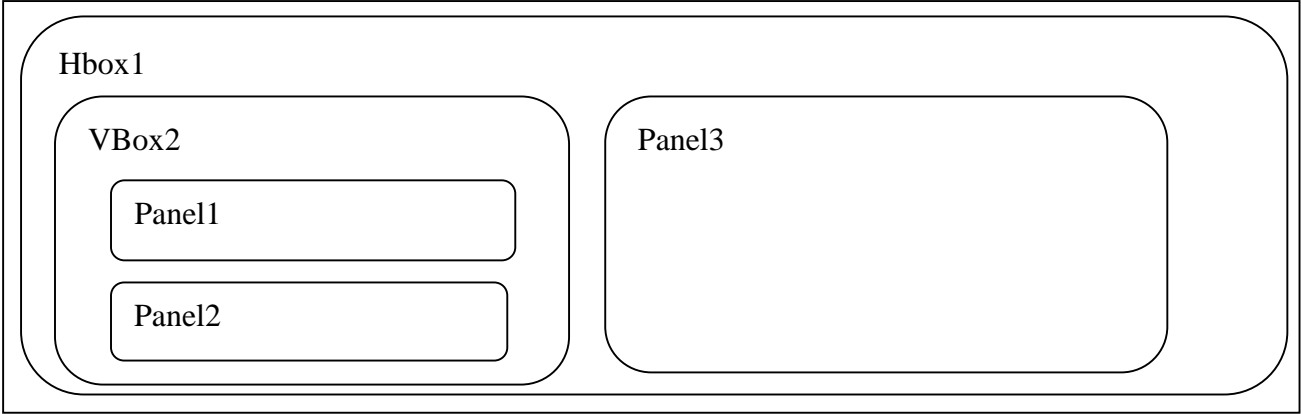
2.6.1

```
panel,      – functional.
URL
URL

<panel>  <functional>
id="MAIN_LIST"
percentWidth="100"
percentHeight="70"
reload="false"

<panel>  <functional>
<settings>

<hbox percentWidth="100" percentHeight="100"/> -
<vbox id="vBox" percentWidth="30" percentHeight="100">
```



2.6.2

(B\_ROLE\_TO\_TASKS)

(web50.b\_user\_public, web50.b\_role).

WebSite\Core\IUTasks\B\_ROLE\_TO\_TASKS.xml.

```

<role id="1" name="USER">
  <tasks>
    <task name="MULT_MAIN" mdl="main_js.html" descr=" " order="1" type=" " mask="8"/>
    <task name="MULT_MAIN_FLASH" mdl="Public/SWF/Map_55.swf" descr=" " order="5"
type="main" default="true" />
    <task name="ADM_LIB_DOC" mdl="LIB_DOC" descr=" " order="6" type="main" />
    <task name="ILI_WIDGET" mdl="main_js.html" descr=" " order="2" type=" " />
    <task name="MAIN_WIDGET" mdl="main_js.html" descr=" " order="3" type=" " />
    <group descr=" " order="4">
      <task name="CMN_HELP" mdl="Public/Help/help_JS/index.html" descr=" " _JS"
order="1" type="user" newWnd="true" auth="false" />
      <task name="CMN_HELP_F" mdl="Public/Help/help_flash/index.html" descr=" " _Flash"
order="2" type="user" newWnd="true" auth="false" />
      <task name="CMN_HISTORY" mdl="Public/Help/History/index.html" descr=" "
" order="3" type="user" newWnd="true" auth="false" />
      <task name="CMN_CONTACTS" mdl="Public/Help/CONTACTS/index.html" descr=" "
order="4" type="user" newWnd="true" auth="false" />
    </group>
    <task name="USER_OFFICE" descr=" " order="1001" type="user" />
    <task name="GRID" mdl="Public/SWF/Grid_55.swf" descr=" " order="10001" type=" " />
    <task name="CAS" mdl="Public/SWF/Cas_55.swf" descr=" (FLASH)" order="10002"
type=" " />
    <task name="CAS_JS" mdl="cas.html" descr=" (JS)" order="10002" type=" " />
    <task name="VIDEOPLAYER_WIDGET" mdl="Public/SWF/VideoPlayer_55.swf" descr=" "
order="10003" type=" " />
    <task name="EXPORT_GPX" mdl="Public/SWF/WidgetExportGPX_55.swf" descr=" " GPX"
order="10004" type=" " />
    <task name="EXPORT_IMG" mdl="Public/SWF/WidgetExportIMG_55.swf" descr=" " IMG"
order="10005" type=" " />
    <task name="EXPORT_WRL" mdl="Public/SWF/WidgetExportWRL_55.swf" descr=" " WRL"
order="10006" type=" " />
    <task name="EXPORT_EXCEL" mdl="Public/SWF/WidgetExportExcel_55.swf" descr=" "
Excel" order="10007" type=" " />
  </tasks>
</role>
<role id="1045" name="EDITOR">
...
</role>
</data>

```

```

          role          id ( _____
        )          name ( _____
    ).
    role          tasks.
(task)          (group),
:
- descr -
- order -
:
- name -
- type -          main -
, user -
- mask -          «      »
          ,
          -
          ,
- mdl -

```

```

- newWnd - , , , - false
            true false.
- auth - , , , hash
url , , true false. - true

```

### 2.6.3

```

:
_____
_____
_____
_____HTML_____
_____
_____GPX_____

```

#### 2.6.3.1

```

, xml-
, WMS.
:
<panel id="MAPSERVICE" percentWidth="100" percentHeight="70" reload="false">
  <settings>
    <layersUrl>baseLayers.xml</layersUrl> <!-- -->
    <showPipeLineButton>true</showPipeLineButton> <!-- -->
    <vectorEditing>true</vectorEditing> <!-- -->
    <label text=" " font="Times" font-size="12" left=" " right="10"
top=" " bottom="10" />
    <!-- , .png -->
    <hideButtons>ExportImage</hideButtons>
    <requestSource>SYS_SEM.xml</requestSource>
  <!-- . true false -->
    <add key="MAP_Lock_Redraw" value="false"/>
  <!-- , -->
    <add key="MAP_Info_Radius" value="5"/>
  <!-- , 0 MAP_Num_Zoom_Levels -->
    <add key="MAP_Centering_Min_Zoom" value="18"/>
  <!-- -->
    <add key="MAP_Matrix_DX" value="10"/>
  <!-- Y -->
    <add key="MAP_Matrix_DY" value="10"/>
  <!-- ( ) ( ), -->
    <add key="MAP_Label_Len_Ratio" value = "1.5"/>
  <!-- -->
    <add key="MAP_Len_Ratio" value = "0.001"/>
  <!-- -->
    <add key="MAP_Label_Font_Ratio" value = "0.7131"/>
  <!-- , -->
    <add key="MAP_Label_Repeat_Ratio" value = "0.8"/>
  <!-- -->
    <add key="MAP_Label_Font_Ratio" value = "0.9"/>
  <!-- , -->
    <add key="MAP_Label_Repeat_Ratio" value = "0.8"/>

```



```

<!-- ( ) -->
<add key="MAP_Label_Cut_Tolerance" value = "15"/>
<!-- MAP_Label_Draw_Type="cut" -->
<add key="MAP_Label_Cut_Ratio" value = "0.1"/>
<!-- ( , ) along, cut.
    "cut" -->
<add key="MAP_Label_Draw_Type" value = "cut"/>
<!-- x,y ( ) -->
<add key="MAP_Label_Offset" value = "0"/>
<!-- -->
<add key="GPS_Track_Limit" value="500"/>
<!-- GPX- -->
<add key="Table_Max_Export" value="1000"/>
,

<!-- ( ) -->
<add key="MAP_Legend_Width" value = "190"/>
<!-- 1- .
. ( ), GEO
-->
<add key="MAP_First_Diagram_Offset" value = "7"/>
<!-- , GEO , . ( -->
<add key="MAP_Diagram_Offset" value = "3"/>

<Models>
<!-- canRaster - , ,
-->
<model name="COSMETIC" descr=" " onTaskChanged="delete"
onUserChanged="delete"/> <!-- ,
-->
</Models>
<!-- -->
<overviewMap>
<height>100</height><!-- -->
<width>150</width><!-- -->
<baseLayers>baseRasterLayers.xml</baseLayers><!-- , -->
. 1- -->
<showOverviewMap>true</showOverviewMap><!-- true|false . , -->
-->
</overviewMap>

<!-- -->
<isMaximized>true</isMaximized> <!-- -->
<!-- . : id - , default - ,
- , title - ( , ) ,
topFilterId - ( ). -->
<tree id="PODS_EQUIP_LIST" default="true" title=" "
topFilterId="lpuFilter">
<templateUrl>Public/Modules/Tree/PODS_EQUIP_TREE.xml</templateUrl> <!--
-->
<brokenImageSkin>Public/assets/NaN.png</brokenImageSkin> <!-- ,
-->
<iconWidth>16</iconWidth> <!-- , -->
<iconHeight>16</iconHeight> <!-- , -->
</tree>
<tree id="PODS_ILI_LIST" default="true" title=" , "
topFilterId="iliFilter">
<templateUrl>Public/Modules/Tree/PODS_ILI_TREE.xml</templateUrl>
<brokenImageSkin>Public/assets/NaN.png</brokenImageSkin>
<iconWidth>16</iconWidth>
<iconHeight>16</iconHeight>
</tree>
<topFilter id="lpuFilter" dataSource="WEB50_TOP_FILTER"/> <!--
. dataSource - -->
<topFilter id="iliFilter" dataSource="TOP_FILTER_ILI"/>
<!-- -->

```

```

<!-- -->
<requestTrackPoints>LIB_DOC_GEO.xml#LIB_DOC_GEO_VIDEO</requestTrackPoints> <!--
-->
<title> </title> <!-- -->
<x>5</x> <!-- -->
<y>540</y> <!-- y -->
<width>300</width> <!-- -->
<height>200</height> <!-- -->
<enableEmbed>true</enableEmbed> <!--
( false, )-->
<displayLayer>COSMETIC_Layers.xml#LIB_DOC_GEO_VIDEO_OBJECT</displayLayer> <!--
, (
-->
<!-- -->
<position x="30.3654628" y="59.9" zoom="10"/> <!--
-->
<label text=" " font="" font-size="" left="10" right=""
top="10" bottom=""/> <!-- . Font - ,
font-size- , left, right, top, bottom -
2
\n (для xml - \n ; для json - \\n) -->
</settings>
</panel>

```

```

1. <position/>
2. showInfoEmptyMap *.json
showInfoEmptyMap:
1)
2)
" _comment": " ,
"ppanel":{
"showSystemInfo":false,
" _comment": " ,
"showInfoEmptyMap":false
},
:
- true - ,
- false - .
- true
:
: map_tech_schema_vtd.json, map_tech_schema.json, sto_shurf_schema.json, sto_forecast.js
n

```

### OpenScale

```

/ :
<panel id="MAPSERVICE" percentWidth="100" percentHeight="70" reload="false">
<settings>
<layersUrl>baseLayers.xml</layersUrl> <!-- -->
<showPipeLineButton>true</showPipeLineButton> <!--
-->
<requestSource>SYS_SEM.xml</requestSource>
<Models>
<model name="COSMETIC" descr=" " onTaskChanged="delete"
onUserChanged="delete"/>
<model name="POI" descr=" " onUserChanged="delete"/>
</Models>
</settings>
</panel>

```

```

(
    ,
    ,
    ),
    <startupScenario>
        ,
        <tree>.
        «openLayers»
        (
            )
            «type»
            ,
            .
            • «top» -
            • «middle» -
            «
            »)
            • «top,middle» -
            ,
            <startupScenario openLayers="
                <filter type="top,middle" topDataSource="
                    _1,
                    _2,...">
                    "
                    middleDataSource="
                    " />
                <!--
                <OpenTables> -->
                <openTables>
                <!--
                <!-- «title»
                .
                <OpenTable> -->
                -->
                <openTable
                title="{descr}"
                gridId="
                levelParams="layerId=
                _LAYERS_ #
                ">
                <query
                source="COMMON_TREE.xml#LAYER_STYLE_BASE"
                LAYER_ID="
                " FILE_NAME="
                " />
                </openTable>
                </openTables>
            </startupScenario>

```

	EditGeometryChooser
	EditGeometryControl
	MoveGeometry
/	CopyPasteGeometry
	LinkGeometry
	AddObject
	MapLayers
" "	MeasureChooser
" "	ShareChooser
" , "	ExportImageChooser
	PrintImage
" "	MapViewChooser
	UserMenu
	MeasureLine
	MeasurePolygon
	PipeLength
	PipeDirection
	LinkMap
	SendMail
	ExportImage
	ClearCosmetic
	FullMap
	History
	History
(	BufferZoneAll
/ , )	PrevSite
	ZoomSlider
	NavigateRoute

	MapCenterPoint
	MapCentering
" "	MapInfo
" "	DSP
	OverviewMap
	FindRoute
	SearchAddress
	SearchOnMap

### 2.6.3.2

```

<panel id="GRID" url="Public/SWF/modules/WidgetGridM.swf" percentWidth="50"
percentHeight="100">
  <settings>
    <rendererStyle>Public/css/default/gridStatus.css</rendererStyle> <!-- css
    -->
    <template>POI_POINT</template>
    <data source="POI_GRID.xml#POI_POINT"> <!-- -->
      <params FILTER="ID = 2"/> <!-- -->
    </data>
  </settings>
</panel>

```

### 2.6.3.3

```

<panel id="PROP" url="Public/SWF/modules/PropertiesM.swf" width="0" percentHeight="100">
  <settings>
    <title></title>
    <width>790</width> <!-- ширина окна, опционально -->
    <height>250</height> <!-- высота окна, опционально -->
    <dataSource>SYS_PROP.xml#PROP_LIST</dataSource> <!-- id-запроса на получение
списка дополнительных вкладок -->
    <add key="Show_System_Info" value="false" /> <!--флаг отображения системных полей-->
    <empty>>false</empty> <!-- флаг отображения пустой формы для создания объекта -->
    <template>POI_POINT</template>
    <data source="POI_SEM.xml#POI_POINT"> <!-- идентификатор запроса на данные -->
      <params FILTER="ID = 2"/> <!-- дополнительные параметры в запрос -->
    </data>
  </settings>
</panel>

```

### 2.6.3.4

#### HTML(Flash)

```

<functional id="SHOW_HELP" url="Public/SWF/modules/Help_FM.swf" percentWidth="0"
percentHeight="0">
  <settings>
    <navigateURL>Public/Help/index.html</navigateURL> <!--
url -->
  </settings>
</functional>

```

### 2.6.3.5

#### HTML(JS)

```

HTML B_ROLE_TO_TASKS.xml
<task name="CMN_HELP" mdl="Public/Help/help_JS/index.html" descr=" _JS" order="1"
type="user" newWnd="true" auth="false" />
mdl - url

```

### 2.6.3.6

```
<functional id="DOCUMENT_PREVIEW" url="Public/SWF/modules/DocumentPreview_M.swf"
reload='true' percentWidth='0' percentHeight='0'>
  <settings>
    <requestLibDoc>LIB_DOC_SEM.xml#LIB_DOC</requestLibDoc> <!--
    -->
  </settings>
</functional>
```

### 2.6.3.7 GPX

```
<functional id="EXPORTGPX" url="Public/SWF/modules/ExportGPX_FM.swf" percentWidth="0"
percentHeight="0">
  <settings>
<!-- -->
    <add key="GPS_Track_Limit" value="500"/>
<!-- GPX- -->
    <add key="Table_Max_Export" value="1000"/>
  </settings>
</functional>
```

## 2.7 (PRELOAD.xml)

WebSite\Core\Query\PRELOAD.xml

```
<root version="5.4.0.4">
  <data name="LPU_ACCESS_FILTER" provider="PODS_POLICY.xml#PODS_LPU" />
</root>
```

```
data
data
name –
provider –
CODE
:
```

## 2.8 C JS

### 2.8.1 C JS

```
JS (js css )
gulp node.js
gulpfile.js.
build.bat
```

### 2.8.2

```

JS
    lang.js.
    ,
    ,
    ,..
    (
    )
    : gis_
    js_
    = '
    ';
var gis_postloader_1 = '
    .';
    ,
    WebSite/ui/html.
    lang.js,
    *.html
    WebSite/ui/html.

```

## 2.9

### 2.9.1

```

06.03.17 15:00:00 [INFO] EmailChecker.exe.
06.03.17 15:00:00 [INFO] WebSite\Public\Data\ROSREESTR\COL_DICT.xml
06.03.17 15:00:00 [INFO] WebSite\Public\Data\TAB\
06.03.17 15:00:00 [INFO] WebSite \Public\Data\UploadedFiles
06.03.17 15:00:00 [INFO] ( ' ) 2 : " |12:02:17
06.03.17 15:00:00 [INFO] c:\GIS_WEB60\Log 2 :
- rosreestr.log
- rosreestr_session.log

```

## 2.9.2

File Name	File Size	File Type	File Date	File Path
check_email.bat	1,024 bytes	Batch File	1/1/2016 1:00:00 PM	C:\GIS_WEB60\Tasks\Rosreestr\
COL_DICT.xml	1,024 bytes	XML File	1/1/2016 1:00:00 PM	C:\GIS_WEB60\Tasks\Rosreestr\
emailchecker.config	1,024 bytes	Configuration File	1/1/2016 1:00:00 PM	C:\GIS_WEB60\Tasks\Rosreestr\
EmailChecker.exe	1,024 bytes	Executable File	1/1/2016 1:00:00 PM	C:\GIS_WEB60\Tasks\Rosreestr\
EmailChecker.pdb	1,024 bytes	PDB File	1/1/2016 1:00:00 PM	C:\GIS_WEB60\Tasks\Rosreestr\
EmailChecker.vshost.exe	1,024 bytes	Executable File	1/1/2016 1:00:00 PM	C:\GIS_WEB60\Tasks\Rosreestr\
EmailChecker.vshost.exe.manifest	1,024 bytes	Manifest File	1/1/2016 1:00:00 PM	C:\GIS_WEB60\Tasks\Rosreestr\
FlexCel.dll	1,024 bytes	DLL File	1/1/2016 1:00:00 PM	C:\GIS_WEB60\Tasks\Rosreestr\
Newtonsoft.Json.dll	1,024 bytes	DLL File	1/1/2016 1:00:00 PM	C:\GIS_WEB60\Tasks\Rosreestr\
rosreestr.xls	1,024 bytes	Excel File	1/1/2016 1:00:00 PM	C:\GIS_WEB60\Tasks\Rosreestr\

EmailChecker.exe -  
 rosreestr.xls -  
 Newtonsoft.Json.dll - JSON  
 FlexCel.dll - excel  
 check\_email.bat - :  
 - "c:\GIS\_WEB60\" -  
 - "http://127.0.0.1/web55/servertaskservice.asmx/SendMailWithAttachment?" -

- 1) check\_email.bat 15
- 2) emailchecker.config ,
- 3) web.config baseLayers.xml

### 2.9.3 emailchecker.config

```
<!-- . -->
<add key="Send_Mail_Service_Url"
value="http://127.0.0.1/web55/servertaskservice.asmx/SendMailWith2Attachments?" />
<!-- . -->
<add key="App_Path" value="c:\GIS_WEB60\" />
<!-- . -->
<add key="Data_Path" value="Public\Data\" />
<!-- pop3 -->
<add key="ROSREESTR_POP3_Server" value=" " />
<!-- -->
<add key="ROSREESTR_POP3_Login" value=" " />
<!-- -->
<add key="ROSREESTR_POP3_Pass" value=" " />
<!-- -->
<add key="ROSREESTR_OBJECTS_LIMIT" value="2" />
<!-- ( ROSREESTR_Error_Message, -->
>
<add key="ROSREESTR_TEST_REQUEST_TIMEOUT" value="15000" />
<!-- , -
( )-->
<add key="ROSREESTR_Interval" value="15" />
<!-- -->
<add key="ROSREESTR_Test_Url" value="http://pkk5.rosreestr.ru/api/features/1" />
<!-- - -->
<add key="ROSREESTR_Proxy_Url" value="https://proxy.anonymster.com/browse.php?u=" />
<!-- -->
<add key="ROSREESTR_Callback_Title" value=" {0} " />
<add key="ROSREESTR_Callback_Message" value=" {0},
" />
<add key="ROSREESTR_Error_Message" value="
." />
```

## 2.10

/  
 /  
 ( , )  
 , .NET Framework  
 4.0  
 dotNetFx40\_Full\_x86\_x64.exe

### 2.10.1

!  
 .  
 TilesCleanerTool.exe delete -q " \_ \_ " \_  
 delete  
 -q , "[y/n]"  
 \_ \_ ,  
 \_ ( ),  
 \_ ,

TilesCleanerTool.exe delete -q "e:\Mapnik\17\" 1710 .png

TilesCleanerTool.exe delete "e:\Mapnik\17\" 1710 .png

.  
 TilesCleanerTool.exe merge -q " \_ \_ 1" " \_ \_ 2"  
 merge  
 -q , "[y/n]"  
 \_ \_ 1 , " \_ \_ 2"  
 \_ \_ 2

TilesCleanerTool.exe merge -q "e:\Mapnik\17\" "e:\MapnikNew\17\"

TilesCleanerTool.exe merge "e:\Mapnik\17\" "e:\MapnikNew\17\"

### 2.10.2 . 100

### 2.10.3

:  
 ) 17(1 500 000 ) - 900 000 8  
 :  
 )



300 000	- 22	
1 500 000	-	110
)		:
20 000	- 2	
140 000	- 20	
320 000	- 41	
1 500 000 -		150-220

## 2.11

```

:
-
URL:
const FORM_GEOINF = 'main.html?task=MAIN_WIDGET&mdl=main_js.html&w=1';
const FORM_EXPIMG = 'main.html?task=EXPORT_IMG&mdl=Public/SWF/WidgetExportIMG_55.swf';
const FORM_EXPWRL = 'main.html?task=EXPORT_WRL&mdl=Public/SWF/WidgetExportWRL_55.swf';
const FORM_CAS = 'cas_js.html?task=CAS_JS&mdl=cas_js.html&w=1';
const FORM_MAPSPB = 'main.html?task=MAIN_WIDGET&mdl=main_js.html&w=1&ll=30.2882,59.938&z=12';
const FORM_TRCLTG = 'main.html?task=MAIN_WIDGET&mdl=main_js.html&w=1&ll=28.8912,58.206&z=6';
const FORM_REPVTD = 'main.html?task=ILI_WIDGET&mdl=main_js.html&w=1';
const FORM_MAPAERO = 'main.html?task=MAIN_WIDGET&mdl=main_js.html&w=1&mapId=AeroPhoto';

C# - WebBrowser,
.Navigate(new Uri(configText.Text)). javascript-

- . C#- javascript c
: webBrowser1.Document.InvokeScript(functionName,
paramsArr);

C#- javascript :
window.external.SomeMethod('Hello');

(
webBrowser1.Document.InvokeScript("findExternalObject", ["ASMO", "17716223985201"]);
id.

javascript-
.
1.2.2.1 « ».
```

### 2.11.1

#### 2.11.1.1

```

:
-
- window.external.taskReady('mapReady', true)
- js- webBrowser1.Document.InvokeScript("findExternalObject",
["ASMO", "17716223985201"]);
:
- ( , FORM_GEOINF)
...main.html?task=MAIN_WIDGET&mdl=main_js.html&w=1&func=findExternalObject&systemId=A
SMO&objectId=17716223985201
```

#### 2.11.1.2

```

:
-
- window.external.taskReady('mapReady', true)
```

```

-      js-      webBrowser1.Document.InvokeScript("findExternalObject",
["ASMO","17716223985201"]);
-      :
-      (      , FORM_GEOINF)
...main.html?task=MAIN_WIDGET&mdl=main_js.html&w=1&func=findExternalObject&systemId=ASMO&objectId=17716223985201&beginKm=177.4&endKm=803&linId=17716223985222&needBind=true

```

### 2.11.1.3

```

-      :
-      :
-      window.external.taskReady('mapReady', true)
-      js-      webBrowser1.Document.InvokeScript("findExternalObject",
["ASMO","17716223985201"]);
-      :
-      (      , FORM_GEOINF)
...main.html?task=MAIN_WIDGET&mdl=main_js.html&w=1&func=findExternalObject&systemId=ASMO&objectId=17716223985201&needBind=true

```

### 2.11.2

#### 2.11.2.1

```

-      :
-      :
-      window.external.taskReady('mapReady', true)
-      js-      webBrowser1.Document.InvokeScript("findExternalPipeKm", ["ASMO",
18002106738001", " 177.4"]);
-      :
-      (      , FORM_GEOINF)
...main.html?task=MAIN_WIDGET&mdl=main_js.html&w=1&func=findExternalPipeKm&systemId=ASMO&linId= 18002106738001&beginKm=177.4

```

#### 2.11.2.2

```

-      :
-      :
-      window.external.taskReady('mapReady', true)
-      js-      webBrowser1.Document.InvokeScript("findExternalPipePart", ["ASMO",
18002106738001", " 177.4", "803"]);
-      :
-      (      , FORM_GEOINF)
...main.html?task=MAIN_WIDGET&mdl=main_js.html&w=1&func=findExternalPipePart&systemId=ASMO&linId=18002106738001&beginKm=177.4&endKm=803

```

### 2.11.3

```

-      :
-      :
-      :
-      window.external.taskReady('mapReady', true)
-      js-      webBrowser1.Document.InvokeScript("refreshLayer", ["PODS_ILI_DATA", "<data
SYSTEM_ID="ASMO" OBJ_ID="90401210643975" TOP_FILTER="ILI_INSP_FILTER"/>"]);
-      :
-      (      , FORM_REPVTD)
...main.html?task=ILI_WIDGET&mdl=main_js.html&w=1&func=refreshLayer&systemId=ASMO&objectId=90401210643975&layerName=PODS_ILI_DATA&topFilter=ILI_INSP_FILTER

```

## 2.11.4

docId videoUrl

```

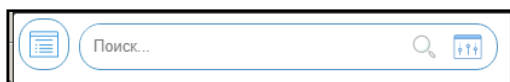
:
-
- window.external.taskReady('mapReady', true)
- js- webBrowser1.Document.InvokeScript("showVideo", ["671012","rtmp://hq-gis-
1/vod/mp4: .mp4","101", " ", "11111"]);
-
- ( , FORM_GEOINF)
...main.html?task=MAIN_WIDGET&mdl=main_js.html&w=1&func=showVideo&docId=671012&vide
oUrl='rtmp://hq-gis-1/vod/mp4: .mp4'&videoName=' '&lineId=11111

```

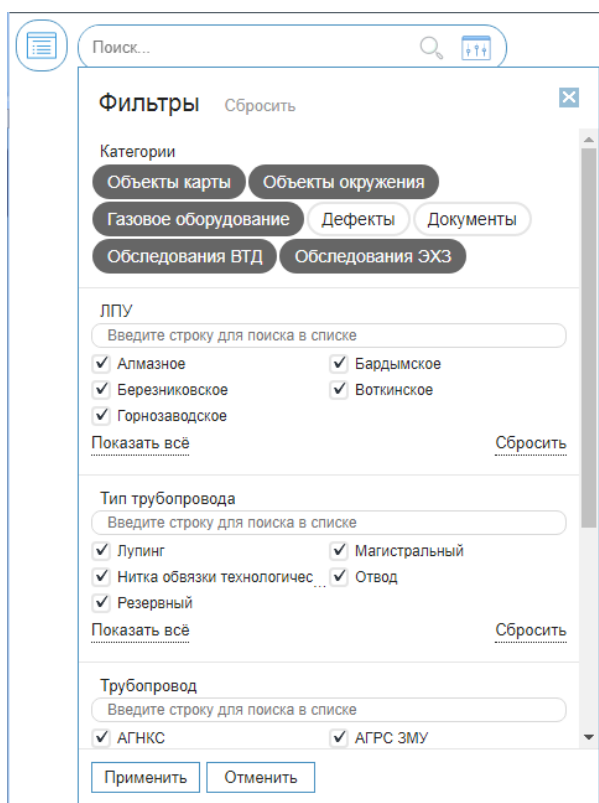
## 2.12

## 2.12.1

1)



2)



## 2.12.2

:

1)

/home/websys53/gis\_web77/website/Core/Query/search\_engine.xml.

web50.search\_idx\_common, web50.search\_idx\_gas

2)

/home/websys53/gis\_web77/website/Core/UITasks/mult\_main.json

01.02.21:

```

2.1      "search_engine":
"search_engine":{ //
  "show": true, //
  "input": {},//
  "results": 20, //
  "sorting": "asc", //      (      )
  "requests":[, //
  "filters":[, //      .
  "templates": {} //      .
}
2.2      "input".
          CSS
  "input": {
    "width":"179px" //
  }
2.2      "requests" ".
          #
  "requests":["search_engine.xml#search_idx_common", "search_engine.xml#search_idx_gas"]
2.3      "templates"
          .
  "templates": //
  {
    "TEMPLATE_NAME": { //      -      CATEGORY_ID

    "html": "      ",
    "icon": "      ",
    "title": "      ", //
    "priority": 0 //      ,
    "scenario": {} //
  },
2.3.1      "scenario".
          .
  "scenario": { //
    "openLayers":[, //
    "filter": {
      "type": "top|middle", //
      "topDataSource": "      ", //
      "middleDataSource": "      " //
      mxml
      mxml
    },
    "openTables":[//
  }

2.4      "filters".
          ,
  "filters":[ //
  {
    "id": "      ",
    "title": "      ",
    "type": "boolean|enum|plain|bounds|date", //
    "fieldName": "      ", //      boolean.
  },
  ],
  "boolean" -      (      /      /      ).
  "date" -      ,
          (01.01.1900      01.01.2100 ) .
          .
          4.

```

```

enum -                               C .
                                     IN sql-
bounds -                             XMIN, XMAX, YMIN, YMAX
plain -                             . to_tsvector
    "values":[] //
    "source": "                       " // (type="enum")
}
2.4.1 "values".                      , type="boolean".
    :
    {
        "id": "
        "name": "
        "selected": true|false, //
true -
false -
        true
        "disabled": true|false //
true -
false -
        false
    }

```

**01.02.21:**

```

"search_engine":{
  "show": true,
  "input": {
    "width":"179px"
  },
  "results": 20,
  "sorting": "asc",
  "requests":["search_engine.xml#search_idx_gas", "search_engine.xml#search_idx_common"],
  "filters":[
    {
      "id": "categories",
      "name": "
      ",
      "type": "boolean",
      "values":[
        {
          "id": "MAP",
          "name": "
          ",
          "selected": true,
          "disabled": false
        },
        {
          "id": "GAS",
          "name": "
          ",
          "selected": true,
          "disabled": false
        },
        {
          "id": "EQUIPMENT",
          "name": "
          ",
          "selected": true,
          "disabled": false
        },
        {
          "id": "INSPECTION",

```

```

        "name": "                ",
        "selected": true,
        "disabled": false
    },
    {
        "id": "DOCUMENT",
        "name": "                ",
        "selected": false,
        "disabled": false
    },
    {
        "id": "ILI_INSP",
        "name": "                ",
        "selected": true,
        "disabled": false
    },
    {
        "id": "CP_INSP",
        "name": "                ",
        "selected": true,
        "disabled": false
    }
]
},
{
    "id": "top_filter_id",
    "disabled": false,
    "name": "                ",
    "type": "enum",
    "source": "search_engine_filter.json"
}
],
"templates":
{
    "NOT_FOUND": {
        "html": "ui/html/templates/NotFoundSearchSnippetTemplate.html",
        "title": "                ",
    },
    "COORDS": {
        "html": "ui/html/templates/CoordsSearchSnippetTemplate.html",
        "icon": "/ui/images/sight.png",
        "title": "                ",
        "priority": 0
    },
    "MAP": {
        "html": "ui/html/templates/MapSearchSnippetTemplate.html",
        "icon": "/ui/images/map.png",
        "title": "                ",
        "priority": 7
    },
    "GAS": {
        "html": "ui/html/templates/GasSearchSnippetTemplate.html",
        "icon": "/ui/images/gas.png",
        "title": "                ",
        "priority": 5
    },
    "EQUIPMENT": {
        "html": "ui/html/templates/EquipmentSearchSnippetTemplate.html",

```

```

    "icon": "/ui/images/equipment.png",
    "title": "Equipment",
    "priority": 4
  },
  "INSPECTION": {
    "html": "ui/html/templates/InspectionSearchSnippetTemplate.html",
    "icon": "/ui/images/equipment.png",
    "title": "Inspection",
    "priority": 6
  },
  "DOCUMENT": {
    "html": "ui/html/templates/DocumentSearchSnippetTemplate.html",
    "icon": "/ui/images/document.png",
    "title": "Document",
    "priority": 1
  },
  "ILI_INSP": {
    "html": "ui/html/templates/IliSearchSnippetTemplate.html",
    "icon": "/ui/images/ili_insp.png",
    "title": "ILI Inspection",
    "priority": 2,
    "scenario": { //
      "openLayers":["PODS_ILI_DATA", "PODS_ILI_DATA_FEATURE"],
      "filter": {
        "type": "top",
        "topDataSource":"TOP_FILTER_ILI",
        "middleDataSource": "middle_ili_filter"
      },
      "openTables":[
        {
          "title": "PODS_ILI_DATA",
          "gridId": "PODS_ILI_DATA_LIST",
          "levelParams": "layerId=PODS_INSP_Layers.xml#PODS_ILI_DATA;"
        },
        {
          "title": "PODS_ILI_DATA_FEATURE",
          "gridId": "PODS_ILI_DATA_FEATURE_LIST",
          "levelParams": "layerId=PODS_INSP_Layers.xml#PODS_ILI_DATA_FEATURE;"
        }
      ]
    }
  },
  "CP_INSP": {
    "html": "ui/html/templates/CpSearchSnippetTemplate.html",
    "icon": "/ui/images/cp_insp.png",
    "title": "Cp Inspection",
    "priority": 3,
    "scenario": {}
  },
  "GRID": {
    "html": "ui/html/templates/GridSearchSnippetTemplate.html",
    "icon": "/ui/images/document.png",
    "title": "Grid",
    "priority": 100
  },
  "default": {
    "html": "ui/html/templates/DefaultSearchSnippetTemplate.html",
    "icon": "/ui/images/default.png",

```



```

    "title": "          'DEFAULT'"
  }
}
}

```

3) ( )  
 /home/websys53/gis\_web77/website/Public/Modules/Form/search\_engine\_filter.json

#### 01.02.21:

```

3.1
{
  "code": 200, //
  "filters": [] //
}
3.1.1 "filters". :
{
  "id": "          ",
  "title": "          ",
  "type": "bounds|plain|enum", //          2.4
  "dataProvider": "          #          -          ", //

  "selectAllElements": true|false, //
  "mixCnt": -1, //          . -1 -
          «-1»
  "maxCnt": -1, //          . -1 -
          «-1»
  "columns": 1|2, //          : 1 2
  "staticValues": [] //
}
3.1.1.1 "staticValues" .
:
{
  "code": "          ", //
  "descr": "          " //          ,
}

```

#### 01.02.21:

```

{
  "code": 200,
  "filters": [
    {
      "id": "LPU_ACCESS_FILTER",
      "title": "          ",
      "type": "bounds",
      "dataProvider": "PODS_POLICY.xml#PODS_LPU",
      "selectAllElements": true,
      "mixCnt": -1,
      "maxCnt": -1,
      "columns": 2,
      "staticValues": [
        {
          "code": "-1",
          "descr": "          "
        }
      ]
    }
  ],
}
{

```

```

    "id": "LINE_ID_FILTER",
    "title": " ",
    "type": "enum", //
    "dataProvider": "PODS_POLICY.xml#PODS_LINE_ID",
    "selectAllElements": true,
    "mixCnt": -1,
    "maxCnt": -1,
    "columns": 2
  },
  {
    "id": "ILI_INSP_FILTER",
    "title": " ",
    "type": "plain",
    "dataProvider": "PODS_SEM_DICT.xml#PODS_ILI_INSPECTION",
    "selectAllElements": false,
    "mixCnt": 0,
    "maxCnt": 10,
    "columns": 1
  }
]

```

4) : **05.07.21:**

```

{
  "id": " " - " ", //
  "title": " ", //
  "type": "date", //
  "beginDateField": " ", //
  ,
  "endDateField": " " //
,
},

```

**05.07.21:**

```

{
  "id": "search_date_filter",
  "title": " ",
  "type": "date",
  "beginDateField": "BEGIN_DATE",
  "endDateField": "END_DATE"
},

```

5)

```

    html
    ,
    .
    ,
    « . »
    .xlsx»

/home/websys53/gis_web77/website/ui/html/search
01.02.21 7 ("MAP", "GAS", "EQUIPMENT", "INSPECTION",
"DOCUMENT", "ILI_INSP", "CP_INSP") 2 ("NOT_FOUND", "COORDS").

```

html

:

```

<div id="searchId_{postId}" class="se-template-category-wrapper">
  <div class="se-template-category__body">
    <div class="se-template-category__header">
      <div class="se-template-category__favicon" style="background: url(/ui/images/map.png)
center no-repeat" />
      <a href="#"
onclick="SearchEngineViewForm.showOnMap('{owner}_{tableName}:{keyValue}','{categoryId}');retur
n false;">
        <div class="se-template-category__title" title="{title}">{title}</div>
      </a>
    </div>
    <div class="se-template-category__content">{content}</div>
  </div>
</div>

```